

DFS4 Series

DecoFlood Medium Square - 39-150W HID

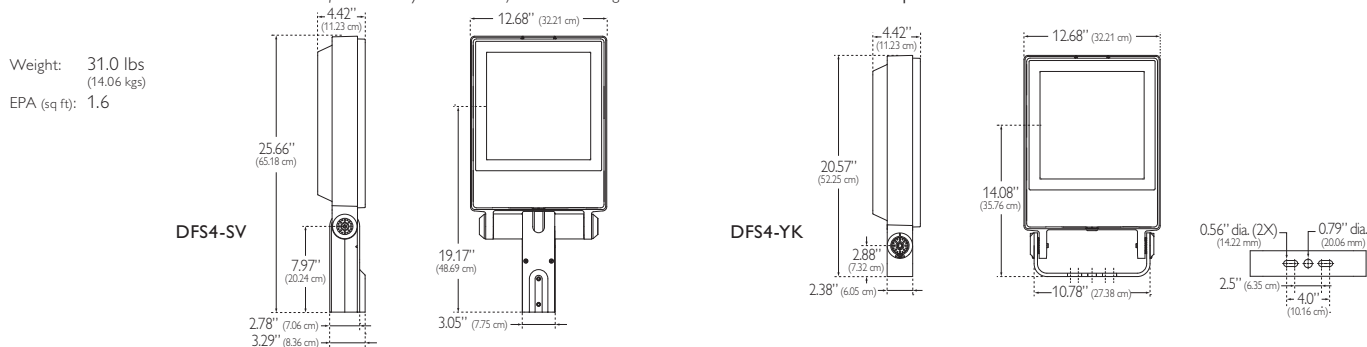
Type:	Job:								Approvals:
Catalog Number:									
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Series/Source-Wattage	Distribution	Ballast	Voltage	Style (Mounting)	Options	Lens Option(s)	Finish	Accessories (Field Installed)	Date:
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Overall Dimensions

For Reference Only

See Style and Mounting Details.

DFS4 Medium Square



Specifications

Optical System / Available Distributions

- SP Spot Beam
 - NB Narrow Beam
 - MB Medium Beam
 - WB Wide Beam
 - A45 Asymmetric 1
 - A60 Asymmetric 2
- See optical data for details.

Housing / Construction

Die-cast aluminum housing and silicone gasket. Double wall housing design. Outer housing works as a barrier and watershed to protect the optical assembly from intrusion of contaminants. Inner housing and dedicated internal IP compartment are sealed for optimum photometric performance. Optic chamber features an integrated breather to prevent the formation of condensation. Optic chamber constructed to IP65.

Lamp / Socket

- DFS4 'PT': T6 CMH (pulse start) lamps, G12 base.
 - DFS4 'C': CosmoPolis T6 lamps, PGZ12 base.
 - DFS4 'E': MasterColor Elite T6 lamps, G12 base.
 - DFS4 'P': ED17 PSMH lamps, medium base.
 - DFS4 'S': BD17 HPS lamps, medium base.
- See distribution guide for details.

Ballast / Voltage

'E': High efficiency electronic ballast. THD of <10% to <20%. Suitable for operation in an ambient temperature range of -30°C (-22°F) to 40°C (104°F).
'C': High reactance high power factor core & coil ballast. Reliable starting at temperatures as low as -34°C (-30°F) for pulse start metal halide, and -40°C (-40°F) for high pressure sodium. Crest factor does not exceed 1.8.
60-140W CosmoPolis and 39-150W MasterColor Elite units available with electronic ballast 'E' only.
39-150W T6 Ceramic Metal Halide and 70-150W Pulse Start Metal Halide units available with either electronic 'E' or core & coil 'C' ballast.
70-150W High Pressure Sodium units available with 'C' core & coil ballast only.
See distribution guide for details.

Style / Mounting

SV Swivel, YK Yoke (standard cord length is 3 ft.)

Options (pre-installed)

Fusing:
Single Fuse 'F1' (120/277/347V), Double Fuse 'F2' (208/240/480V), or Double Fuse 'F3' (208/240/480V) (Canadian double pull) option available.

Photocontrol:
Photocell 'PCB' option (not available in 480V).

Auxiliary / Emergency Lighting:
Hot Quart Restrike 'CSR' option and LiteMatic Hot/Cold Quartz Restrike 'LQ' and 'LQ1' options available (see exceptions).

LumiStep Dimming:
LumiStep 6, 8 or 10 dimming 'LS6', 'LS8' or 'LS10' options available with CosmoPolis lamp 'DFS4C' series only.

External Shielding:
Barn Doors 'BD' option available Q1 - 2012.

Lens Options

Lens options includes a pre-attached lens holder that can hold up to two lenses.

Spread Lenses:

- BSO Beam Softener
- HLBSP Beam Spreader Horizontal
- VLBSP Beam Spreader Vertical

Color Lenses:

- SGFBL Solgel Blue Filter
- SGFLB Solgel Light Blue Filter
- SGFYE Solgel Yellow Filter
- SGFGN Solgel Green Filter
- SGFMG Solgel Magenta Filter

Color Temp Lenses:

- WAF1 Warm n°1 Solgel Filter
- WAF2 Warm n°2 Solgel Filter
- WAF3 Warm n°3 Solgel Filter
- COF2 Cool n°2 Solgel Filter
- COF3 Cool n°3 Solgel Filter
- COF4 Cool n°4 Solgel Filter

Finish

Standard finishes:

- TWO Two-Tone (dark gray, silver)
 - TBK Textured Black
 - TDB Textured Dark Bronze
 - TSA Textured Satin Aluminum
 - TWHT Textured White
 - TGN Textured Green
 - TGR Textured Gray
 - TPG Textured Philips Gray
- Custom RAL colors may be specified.

Accessories (ordered separately)

External Shielding:

Barn doors 'BD-DFS4', top shield 'TS-DFS4', four sided shield '4S-DFS4', three sided shield '3S-DFS4', horizontal louvers 'HL-DFS4', vertical louvers 'VL-DFS4', and eggcrate louvers 'EC-DFS4'. (Shielding is black unless otherwise specified).

Mounting Accessories: See Accessory Details.

Aiming (when mounted to horizontal surface)

DFS4-SV can be aimed 92.5° up or 92.5° down.
DFS4-YK can be aimed 90.0° up or 90.0° down.
See Aiming Diagrams.

Listings

ETL/cETL Listed luminaire, to the UL 1598 standard, suitable for Wet Locations. The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards.

Warranty

Philips Gardco luminaires feature a 5 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.

Hg Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contain Mercury" and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at www.lamprecycle.org.

PHILIPS

GARDCO

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DFS4-SV



DFS4-YK



Series	Distribution	Ballast	Voltage	Style	Options
T6 Ceramic Metal Halide ☐ DFS4PT-39⁹ ☐ DFS4PT-70 ☐ DFS4PT-150	☐ SP⁵ Spot Beam ☐ NB Narrow Beam ☐ MB Medium Beam ☐ WB Wide Beam ☐ A45 Asymmetric 1 ☐ A60 Asymmetric 2 See optical data tables for specific beam and candela information.	☐ E¹ Electronic ☐ C^{4,9} Core & Coil	☐ 120² ☐ 208⁹ ☐ 240⁹ ☐ 277 ☐ 347⁹ ☐ 480^{1,9}	☐ SV Swivel ☐ YK Yoke Standard cord length is 3 ft.	☐ F1⁶ Single Fuse (120/277/347V) ☐ F2⁶ Double Fuse (208/240/480V) ☐ F3⁶ Double Fuse (208/240/480V) (Canadian double pull) ☐ PCB¹ Photocell Button (120-347V) ☐ CSR^{3,5,6} Hot Quartz Restrike (no time delay) ☐ LQ^{3,5,6} Litematic Hot/Cold Quartz Restrike ☐ LQ1^{3,5,6} Litematic Hot/Cold Quartz Restrike (separately wired) ☐ LS6⁷ LumiStep 6 Dimming (Cosmo only) ☐ LS8⁷ LumiStep 8 Dimming (Cosmo only) ☐ LS10⁷ LumiStep 10 Dimming (Cosmo only) External Shielding (pre-attached) ☐ BD Barn Doors Available Q1 - 2012
CosmoPolis ☐ DFS4C-60^{1,2,3,7} ☐ DFS4C-90^{1,2,3,7} ☐ DFS4C-140^{1,2,3,7}					
MasterColor Elite ☐ DFS4E-39^{1,3} ☐ DFS4E-70^{1,3} ☐ DFS4E-100^{1,3} ☐ DFS4E-150^{1,3}					
Pulse Start Metal Halide ☐ DFS4P-70 ☐ DFS4P-100 ☐ DFS4P-150					
High Pressure Sodium ☐ DFS4S-70⁴ ☐ DFS4S-100⁴ ☐ DFS4S-150⁴					

Notes:
 1. CosmoPolis & MasterColor Elite lamps are only available with electronic ballast option 'E'. Electronic ballasts are available in 120-347V, not available in 480V. (See 90 & 140 W CosmoPolis exception in note #2)
 2. 90 & 140 W CosmoPolis not available in 120V. (available in 208-347V only)
 3. Quartz restrike options ('CSR', 'LQ', 'LQ1') not available with Electronic Ballast ('E') option.
 4. High Pressure Sodium is only available with core & coil option 'C'. Core & coil ballasts available in 120-480V.
 5. 'SP' optics not available with any restrike options ('CSR', 'LQ', 'LQ1').
 6. All restrike options are 100 W quartz max, and are not to exceed HID wattage.
 7. Fusing is not available with any restrike options ('CSR', 'LQ', 'LQ1').
 8. LumiStep dimming is only available with CosmoPolis lamp options.
 9. Lens options include lens holder that can hold up to two lenses. Lens holder comes pre-attached to the fixture. Photometry for the 'BSO' lens is for reference only. Performance can vary slightly due to manufacturing tolerances.
 9. 39 W T6 Ceramic Metal Halide not available in 208, 240, 347 or 480V with 'C' core & coil ballasts.

Accessories (must be ordered separately)

External Shielding Accessories (black unless otherwise specified)

- ☐ **BD-DFS4** Barn Doors
- ☐ **TS-DFS4** Top Shield (visor)
- ☐ **4S-DFS4** Four Sided Shield
- ☐ **3S-DFS4** Three Sided Shield
- ☐ **HL-DFS4** Horizontal Louvers
- ☐ **VL-DFS4** Vertical Louvers
- ☐ **EC-DFS4** Eggcrate Louvers

Swivel Mount Accessories

- ☐ **WMB-16.5-(F)** Wall Mounting Bracket
- ☐ **SMT-2-(F)** Surface Mounted Tenon
- ☐ **JB-VMT-(F)** Junction Box with SMT-2
- ☐ **SM-18-(F)** 18" Stanchion Mount
- ☐ **PTA-2180-16.5-(F)** Pole Top Adaptor 2@180
- ☐ **PTA-2090-16.5-(F)** Pole Top Adaptor 2@90
- ☐ **PTA-3090-16.5-(F)** Pole Top Adaptor 3@90
- ☐ **PTA-4090-16.5-(F)** Pole Top Adaptor 4@90

Yoke Mount Accessories

- ☐ **MF4-(F)** Slip Fitter (fits 2-3/8" O.D. tenon)
- ☐ **BP-(F)** Surface Mount Base Plate
- ☐ **JB-BP-(F)** Junction Box with BP

(F = specify finish)

Lens Options (includes lens holder, holds up to two lenses)	Finish
Spread Lenses⁸ ☐ BSO ☐ HLBSP ☐ VLBSF Color Lenses⁸ ☐ SGFBL ☐ SGFLB ☐ SGFYB ☐ SGFGN ☐ SGFMG	Color Temp Lenses⁸ ☐ WAF1 Warm n°1 Solgel Filter ☐ WAF2 Warm n°2 Solgel Filter ☐ WAF3 Warm n°3 Solgel Filter ☐ COF2 Cool n°2 Solgel Filter ☐ COF3 Cool n°3 Solgel Filter ☐ COF4 Cool n°4 Solgel Filter ☐ TWO Two-Tone (dark gray, silver) ☐ TBK Textured Black ☐ TDB Textured Dark Bronze ☐ TSA Textured Satin Aluminum ☐ TWHT Textured White ☐ TGN Textured Green ☐ TGR Textured Gray ☐ TPG Textured Philips Gray ☐ RAL(*) Specify Custom RAL color number

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Distribution Guide and Ballast Data ¹

T6 CMH Pulse Start ² Series/Source-Wattage	Lamp ³ / Base Axial orientation	Ballast Type	ANSI Code	Initial Lamp lm	Rated Life (hrs)	Line Current 120 / 208 / 240 / 277 / 347 / 480	Line Watts ⁵
DFS4PT-39	T6 / G12	Electronic	C130/E	3,300	12,000	0.38 / 0.25 / 0.21 / 0.18 / 0.18 / NA	46 / 56 ⁵
DFS4PT-39	T6 / G12	HX-HPF	M130	3,300	12,000	0.90 / NA / NA / 0.40 / NA / NA	56
DFS4PT-70	T6 / G12	Electronic	C139/E	6,600	12,000	0.70 / 0.46 / 0.38 / 0.31 / 0.31 / NA	80 / 90 ⁵
DFS4PT-70	T6 / G12	HX-HPF	M98 / M143	6,600	12,000	1.90 / 1.04 / 0.90 / 0.80 / 0.70 / 0.50	95
DFS4PT-150	T6 / G12	Electronic	C142/E	15,000	12,000	1.41 / 1.00 / 0.86 / 0.69 / 0.56 / NA	165 / 175 ⁵
DFS4PT-150	T6 / G12	HX-HPF	M102 / M142	15,000	12,000	3.70 / 2.10 / 1.80 / 1.60 / 1.30 / 1.00	185
CosmoPolis ³ Series/Source-Wattage	Lamp ³ / Base Horiz. orientation	Ballast Type	CosmoPolis Ballast Code	Initial Lamp lm	Rated Life (hrs)	Line Current 120 / 208 / 240 / 277 / 347 / 480	Line Watts ⁵
DFS4C-60	T6 / PGZ12	Electronic	ICW60NLS	6,900	30,000	NA / 0.32 / 0.28 / 0.24 / 0.25 / NA	67 / 77 ⁵
DFS4C-90	T6 / PGZ12	Electronic	ICW90MLS	10,450	30,000	NA / 0.47 / 0.41 / 0.35 / 0.35 / NA	99 / 109 ⁵
DFS4C-140	T6 / PGZ12	Electronic	ICW140MLS	16,500	30,000	NA / 0.75 / 0.67 / 0.57 / 0.52 / NA	153 / 163 ⁵
MasterColor Elite ⁴ Series/Source-Wattage	Lamp ⁴ / Base Horiz. orientation	Ballast Type	ANSI Code	Initial Lamp lm	Rated Life (hrs)	Line Current 120 / 208 / 240 / 277 / 347 / 480	Line Watts ⁵
DFS4E-39	T6 / G12	Electronic	C130/E	3,500	12,000	0.38 / 0.25 / 0.21 / 0.18 / 0.18 / NA	46 / 56 ⁵
DFS4E-70	T6 / G12	Electronic	C139/E	7,300	12,000	0.70 / 0.46 / 0.38 / 0.31 / 0.31 / NA	80 / 90 ⁵
DFS4E-100	T6 / G12	Electronic	C90/E	11,000	15,000	0.98 / 0.67 / 0.52 / 0.42 / 0.42 / NA	116 / 126 ⁵
DFS4E-150	T6 / G12	Electronic	C142/E	15,000	12,000	1.41 / 1.00 / 0.86 / 0.69 / 0.56 / NA	165 / 175 ⁵
Pulse Start Metal Halide Series/Source-Wattage	Lamp / Base Horiz. orientation	Ballast Type	ANSI Code	Initial Lamp lm	Rated Life (hrs)	Line Current 120 / 208 / 240 / 277 / 347 / 480	Line Watts ⁵
DFS4P-70	ED17 / medium	Electronic	M98 / M139 / M143	6,200	20,000	0.70 / 0.48 / 0.40 / 0.31 / 0.31 / NA	83 / 93 ⁵
DFS4P-70	ED17 / medium	HX-HPF	M98 / M143	6,200	20,000	1.90 / 1.04 / 0.90 / 0.80 / 0.70 / 0.50	95
DFS4P-100	ED17 / medium	Electronic	M90 / M140	9,500	20,000	0.98 / 0.67 / 0.52 / 0.42 / 0.42 / NA	116 / 126 ⁵
DFS4P-100	ED17 / medium	HX-HPF	M90 / M140	9,500	20,000	2.80 / 1.40 / 1.40 / 1.20 / 1.00 / 0.62	130
DFS4P-150	ED17 / medium	Electronic	M102 / M142	14,000	20,000	1.41 / 1.00 / 0.86 / 0.69 / 0.56 / NA	165 / 175 ⁵
DFS4P-150	ED17 / medium	HX-HPF	M102 / M142	14,000	20,000	3.70 / 2.10 / 1.80 / 1.60 / 1.30 / 1.00	185
High Pressure Sodium Series/Source-Wattage	Lamp / Base Horiz. orientation	Ballast Type	ANSI Code	Initial Lamp lm	Rated Life (hrs)	Line Current 120 / 208 / 240 / 277 / 347 / 480	Line Watts
DFS4S-70	BD17 / medium	HX-HPF	S62	6,300	24,000	1.70 / 1.00 / 0.90 / 0.80 / 0.60 / 0.40	94
DFS4S-100	BD17 / medium	HX-HPF	S54	9,500	24,000	2.30 / 1.30 / 1.10 / 1.00 / 0.70 / 0.60	135
DFS4S-150	BD17 / medium	HX-HPF	S55	16,000	24,000	3.20 / 1.70 / 1.60 / 1.40 / 1.10 / 0.72	195

Notes

1) Photometry available online. IES file names reflect catalog logic.

2) 'DFS4PT' series MasterColor ceramic metal halide lamps: CCT of 3000 K.
39W: MasterColor CDM-T 35W/830 T6 CRI: 81
70W: MasterColor CDM-T 70W/830 T6 CRI: 84
150W: MasterColor CDM-T 150W/830 T6 CRI: 88

3) CosmoPolis lamps: CPO-TW (wattage)/728 with CCT of 2800 K and CRI of 70.
Wattage specific Philips Advance CosmoPolis ballast is standard.
With 'LS6', 'LS8', or 'LS10' options, Philips Advance LumiStep dimming ballasts are required.

4) 'DFS4E' series MasterColor Elite ceramic metal halide lamps: CCT of 3000 K.
39W: MasterColor CDM-T Elite 35W/930 / T6 CRI: 90
70W: MasterColor CDM-T Elite 70W/930 / T6 CRI: 90
100W: MasterColor CDM-T Elite 100W/930 / T6 CRI: 90
150W: MasterColor CDM-T Elite 150W/930 / T6 CRI: 90

5) Line watts with electronic ballast: 120-277V / 347V
CosmoPolis series only:
Line watts with electronic ballast: 208-277V / 347V

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Optical Data

Cat No.	Optic	Initial Lamp Lumens	Max CD	50% Main Beam (hor.)	50% Main Beam (vert.)	10% Field Beam (hor.)	10% Field Beam (vert.)	NEMA Beam (hor.)	NEMA Beam (vert.)	Lamp Type	Base	Lamp Axis	IES File #
T6 Ceramic Metal Halide (Pulse Start)													
DFS4PT-39	SP	3,300	47,795	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4PT-39-SP.IES
	NB	3,300	4,367	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4PT-39-NB.IES
	MB	3,300	2,155	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4PT-39-MB.IES
	WB	3,300	1,392	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4PT-39-WB.IES
	A45	3,300	2,364	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4PT-39-A45.IES
	A60	3,300	1,853	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4PT-39-A60.IES
DFS4PT-70	SP	6,600	95,590	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4PT-70-SP.IES
	NB	6,600	8,733	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4PT-70-NB.IES
	MB	6,600	4,309	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4PT-70-MB.IES
	WB	6,600	2,783	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4PT-70-WB.IES
	A45	6,600	4,729	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4PT-70-A45.IES
	A60	6,600	3,705	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4PT-70-A60.IES
DF-S4PT-150	SP	15,000	202,768	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4PT-150-SP.IES
	NB	15,000	18,524	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4PT-150-NB.IES
	MB	15,000	9,140	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4PT-150-MB.IES
	WB	15,000	5,905	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4PT-150-WB.IES
	A45	15,000	10,031	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4PT-150-A45.IES
	A60	15,000	7,860	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4PT-150-A60.IES
CosmoPolis (CMH Pulse Start)													
DFS4C-60	SP	6,900	70,801	9.8°	7.1°	29.4°	15.4°	3H	1V	T6		Horiz.	DFS4C-60-SP.IES
	NB	6,900	9,174	80.7°	12.9°	133.9°	30.2°	7H	7V	T6		Horiz.	DFS4C-60-NB.IES
	MB	6,900	4,886	84.6°	25.9°	140.4°	126.2°	7H	6V	T6		Horiz.	DFS4C-60-MB.IES
	WB	6,900	2,798	93.5°	59.4°	145.4°	140.0°	7H	7V	T6		Horiz.	DFS4C-60-WB.IES
	A45	6,900	5,265	75.0°	16.1°	109.9°	123.1°	6H	6V	T6		Horiz.	DFS4C-60-A45.IES
	A60	6,900	3,803	75.6°	30.2°	109.7°	130.5°	6H	7V	T6		Horiz.	DFS4C-60-A60.IES
DFS4C-90	SP	10,450	107,228	9.8°	7.1°	29.4°	15.4°	3H	1V	T6		Horiz.	DFS4C-90-SP.IES
	NB	10,450	13,894	80.7°	12.9°	133.9°	30.2°	7H	7V	T6		Horiz.	DFS4C-90-NB.IES
	MB	10,450	7,399	84.6°	25.9°	140.4°	126.2°	7H	6V	T6		Horiz.	DFS4C-90-MB.IES
	WB	10,450	4,237	93.5°	59.4°	145.4°	140.0°	7H	7V	T6		Horiz.	DFS4C-90-WB.IES
	A45	10,450	8,519	75.0°	16.1°	109.9°	123.1°	6H	6V	T6		Horiz.	DFS4C-90-A45.IES
	A60	10,450	5,759	75.6°	30.2°	109.7°	130.5°	6H	7V	T6		Horiz.	DFS4C-90-A60.IES
DF-S4C-140	SP	16,500	169,307	9.8°	7.1°	29.4°	15.4°	3H	1V	T6		Horiz.	DFS4C-140-SP.IES
	NB	16,500	21,938	80.7°	12.9°	133.9°	30.2°	7H	7V	T6		Horiz.	DFS4C-140-NB.IES
	MB	16,500	11,683	84.6°	25.9°	140.4°	126.2°	7H	6V	T6		Horiz.	DFS4C-140-MB.IES
	WB	16,500	6,690	93.5°	59.4°	145.4°	140.0°	7H	7V	T6		Horiz.	DFS4C-140-WB.IES
	A45	16,500	13,450	75.0°	16.1°	109.9°	123.1°	6H	6V	T6		Horiz.	DFS4C-140-A45.IES

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Optical Data (continued)

Cat No.	Optic	Initial Lamp Lumens	Max CD	50% Main Beam (hor.)	50% Main Beam (vert.)	10% Field Beam (hor.)	10% Field Beam (vert.)	NEMA Beam (hor.)	NEMA Beam (vert.)	Lamp Type	Base	Lamp Axis	IES File #
MasterColor Elite (CMH Pulse Start)													
DFS4E-39	SP	3,500	50,692	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4E-39-SP.IES
	NB	3,500	4,631	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4E-39-NB.IES
	MB	3,500	2,285	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4E-39-MB.IES
	WB	3,500	1,476	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4E-39-WB.IES
	A45	3,500	2,508	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4E-39-A45.IES
	A60	3,500	1,965	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4E-39-A60.IES
DFS4E-70	SP	7,300	105,729	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4E-70-SP.IES
	NB	7,300	9,659	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4E-70-NB.IES
	MB	7,300	4,766	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4E-70-MB.IES
	WB	7,300	3,079	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4E-70-WB.IES
	A45	7,300	5,230	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4E-70-A45.IES
	A60	7,300	4,098	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4E-70-A60.IES
DFS4E-100	SP	11,000	159,317	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4E-100-SP.IES
	NB	11,000	14,555	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4E-100-NB.IES
	MB	11,000	7,182	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4E-100-MB.IES
	WB	11,000	4,640	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4E-100-WB.IES
	A45	11,000	7,881	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4E-100-A45.IES
	A60	11,000	6,176	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4E-100-A60.IES
DFS4E-150	SP	15,000	217,251	8.1°	6.4°	21.9°	15.8°	2H	1V	T6	G12	Horiz.	DFS4E-150-SP.IES
	NB	15,000	19,848	80.9°	12.4°	133.5°	27.2°	7H	2V	T6	G12	Horiz.	DFS4E-150-NB.IES
	MB	15,000	9,793	84.3°	26.0°	141.0°	125.6°	7H	6V	T6	G12	Horiz.	DFS4E-150-MB.IES
	WB	15,000	6,326	92.0°	55.5°	145.8°	134.2°	7H	7V	T6	G12	Horiz.	DFS4E-150-WB.IES
	A45	15,000	10,747	74.6°	18.7°	112.0°	123.6°	6H	6V	T6	G12	Horiz.	DFS4E-150-A45.IES
	A60	15,000	8,421	78.1°	29.8°	111.7°	127.4°	6H	6V	T6	G12	Horiz.	DFS4E-150-A60.IES

DFS4 Series

DecoFlood Medium Square - 39-150W HID

Type:	Job:	Page 6 of 12
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Optical Data (continued)

Cat No.	Optic	Initial Lamp Lumens	Max CD	50% Main Beam (hor.)	50% Main Beam (vert.)	10% Field Beam (hor.)	10% Field Beam (vert.)	NEMA Beam (hor.)	NEMA Beam (vert.)	Lamp Type	Base	Lamp Axis	IES File #
Pulse Start Metal Halide													
DFS4P-70	SP	6,200	89,797	8.1°	6.4°	21.9°	15.8°	2H	1V	ED17	MED	Horiz.	DFS4P-70-SP.IES
	NB	6,200	8,204	80.9°	12.4°	133.5°	27.2°	7H	2V	ED17	MED	Horiz.	DFS4P-70-NB.IES
	MB	6,200	4,048	84.3°	26.0°	141.0°	125.6°	7H	6V	ED17	MED	Horiz.	DFS4P-70-MB.IES
	WB	6,200	2,615	92.0°	55.5°	145.8°	134.2°	7H	7V	ED17	MED	Horiz.	DFS4P-70-WB.IES
	A45	6,200	4,442	74.6°	18.7°	112.0°	123.6°	6H	6V	ED17	MED	Horiz.	DFS4P-70-A45.IES
	A60	6,200	3,481	78.1°	29.8°	111.7°	127.4°	6H	6V	ED17	MED	Horiz.	DFS4P-70-A60.IES
DFS4P-100	SP	9,500	137,592	8.1°	6.4°	21.9°	15.8°	2H	1V	ED17	MED	Horiz.	DFS4P-100-SP.IES
	NB	9,500	12,570	80.9°	12.4°	133.5°	27.2°	7H	2V	ED17	MED	Horiz.	DFS4P-100-NB.IES
	MB	9,500	6,202	84.3°	26.0°	141.0°	125.6°	7H	6V	ED17	MED	Horiz.	DFS4P-100-MB.IES
	WB	9,500	4,007	92.0°	55.5°	145.8°	134.2°	7H	7V	ED17	MED	Horiz.	DFS4P-100-WB.IES
	A45	9,500	6,807	74.6°	18.7°	112.0°	123.6°	6H	6V	ED17	MED	Horiz.	DFS4P-100-A45.IES
	A60	9,500	5,334	78.1°	29.8°	111.7°	127.4°	6H	6V	ED17	MED	Horiz.	DFS4P-100-A60.IES
DFS4P-150	SP	14,000	202,768	8.1°	6.4°	21.9°	15.8°	2H	1V	ED17	MED	Horiz.	DFS4P-150-SP.IES
	NB	14,000	18,525	80.9°	12.4°	133.5°	27.2°	7H	2V	ED17	MED	Horiz.	DFS4P-150-NB.IES
	MB	14,000	9,140	84.3°	26.0°	141.0°	125.6°	7H	6V	ED17	MED	Horiz.	DFS4P-150-MB.IES
	WB	14,000	5,905	92.0°	55.5°	145.8°	134.2°	7H	7V	ED17	MED	Horiz.	DFS4P-150-WB.IES
	A45	14,000	10,031	74.6°	18.7°	112.0°	123.6°	6H	6V	ED17	MED	Horiz.	DFS4P-150-A45.IES
	A60	14,000	7,860	78.1°	29.8°	111.7°	127.4°	6H	6V	ED17	MED	Horiz.	DFS4P-150-A60.IES
High Pressure Sodium													
DFS4S-70	SP	6,300	34,225	15.6°	9.5°	40.1°	19.7°	3H	2V	BD17	MED	Horiz.	DFS4S-70-SP.IES
	NB	6,300	8,104	80.2°	12.4°	130.3°	65.4°	7H	4V	BD17	MED	Horiz.	DFS4S-70-NB.IES
	MB	6,300	4,474	84.0°	25.5°	137.5°	129.4°	7H	6V	BD17	MED	Horiz.	DFS4S-70-MB.IES
	WB	6,300	2,672	91.2°	58.5°	142.7°	136.3°	7H	7V	BD17	MED	Horiz.	DFS4S-70-WB.IES
	A45	6,300	5,010	74.6°	16.0°	109.7°	123.6°	6H	6V	BD17	MED	Horiz.	DFS4S-70-A45.IES
	A60	6,300	3,273	76.7°	31.7°	107.9°	129.1°	6H	6V	BD17	MED	Horiz.	DFS4S-70-A60.IES
DFS4S-100	SP	9,500	51,610	15.6°	9.5°	40.1°	19.7°	3H	2V	BD17	MED	Horiz.	DFS4S-100-SP.IES
	NB	9,500	12,221	80.2°	12.4°	130.3°	65.4°	7H	4V	BD17	MED	Horiz.	DFS4S-100-NB.IES
	MB	9,500	6,746	84.0°	25.5°	137.5°	129.4°	7H	6V	BD17	MED	Horiz.	DFS4S-100-MB.IES
	WB	9,500	4,029	91.2°	58.5°	142.7°	136.3°	7H	7V	BD17	MED	Horiz.	DFS4S-100-WB.IES
	A45	9,500	7,554	74.6°	16.0°	109.7°	123.6°	6H	6V	BD17	MED	Horiz.	DFS4S-100-A45.IES
	A60	9,500	4,936	76.7°	31.7°	107.9°	129.1°	6H	6V	BD17	MED	Horiz.	DFS4S-100-A60.IES
DFS4S-150	SP	16,000	86,921	15.6°	9.5°	40.1°	19.7°	3H	2V	BD17	MED	Horiz.	DFS4S-150-SP.IES
	NB	16,000	20,582	80.2°	12.4°	130.3°	65.4°	7H	4V	BD17	MED	Horiz.	DFS4S-150-NB.IES
	MB	16,000	11,362	84.0°	25.5°	137.5°	129.4°	7H	6V	BD17	MED	Horiz.	DFS4S-150-MB.IES
	WB	16,000	6,786	91.2°	58.5°	142.7°	136.3°	7H	7V	BD17	MED	Horiz.	DFS4S-150-WB.IES
	A45	16,000	12,773	74.6°	16.0°	109.7°	123.6°	6H	6V	BD17	MED	Horiz.	DFS4S-150-A45.IES
	A60	16,000	8,313	76.7°	31.7°	107.9°	129.1°	6H	6V	BD17	MED	Horiz.	DFS4S-150-A60.IES

DFS4 Series

DecoFlood Medium Square - 39-150WHID

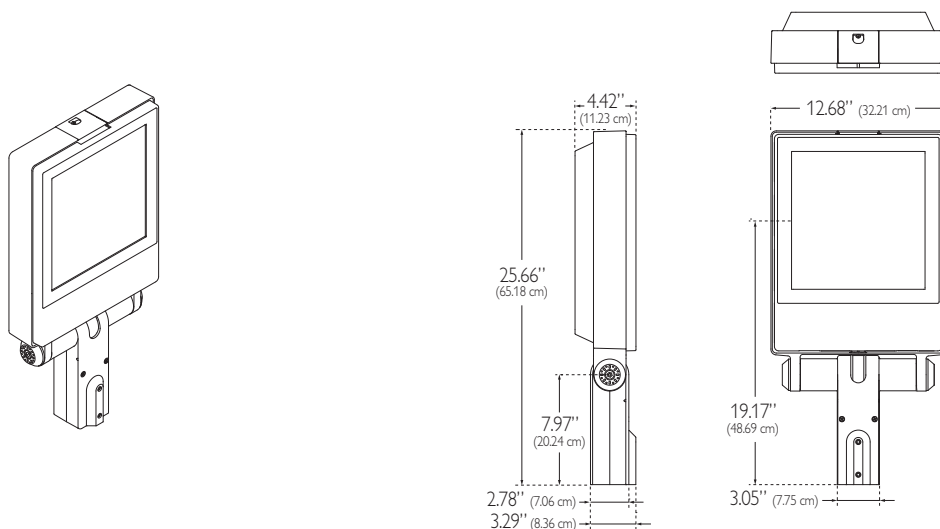
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Job:

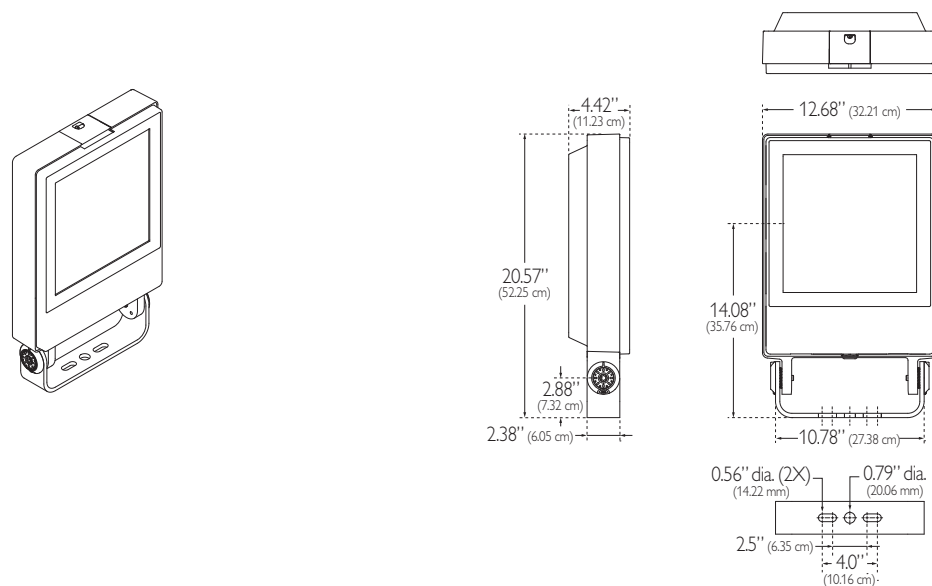
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Style and Mounting Details

DFS4-SV

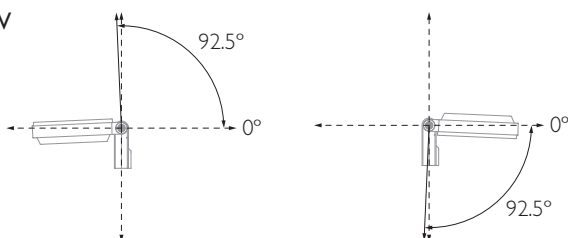


DFS4-YK

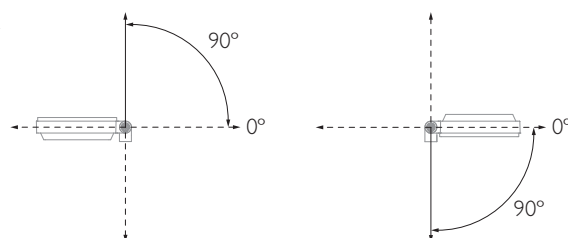


Aiming Diagrams (when mounted to a horizontal surface)

DFS4-SV



DFS4-YK



DFS4 Series

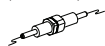
DecoFlood Medium Square - 39-150W HID

Type:	Job:	Page 8 of 12
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Option Details (factory installed)

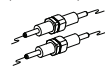
Ballast Fusing

F1¹ Single Fuse
(120/277/347V)
(KTK 30 amp fuse)
(Voltage must be specified)
(ships installed)



F2¹ Double Fuse
(208/240/480V)

F3¹ Double Fuse
(208/240/480V)
(Canadian double pull)
(Two KTK 30 amp fuses)
(Voltage must be specified)
(ships installed)



Photocontrol

PCB Photocell button
(120-347V)
(Voltage must be specified)
(ships installed)

Auxiliary / Emergency Lighting (150W quartz lamp, standard)

Combined quartz wattage may not exceed HID lamp wattage. 120V double contact bayonet base. 'LQ1' requires an interlock by others to ensure HID and quartz source are not operated together. Quartz Restrike options not available with Electronic Ballast option 'E'.

CSR 1,2 Hot Quartz Restrike (no time delay)
(using current sensing relay)
Auxiliary quartz lamp is extinguished when main HID lamp strikes.
Activation: At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down.

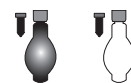
LQ 1,2,3 LiteMatic Hot/Cold Quartz Restrike
Provides LiteMatic quartz auxiliary operation for fixtures with 120V or multi-tap ballasts. 120V auxiliary LiteMatic quartz lamp power supplied by ballast (AC line voltage).
Quartz lamp remains on for three minutes after main HID lamp strikes and reaches approximately 40% light output.
Activation: At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down, Restrike and Ramp Up.

LQ1 1,2 LiteMatic Hot/Cold Quartz Restrike
(separately wired) (120V)
Externally controlled emergency lighting from a separate power source. Quartz lamp is extinguished once power is restored.
To ensure integrity of the emergency lighting system, LQ1 leads should be hardwired.
Activation: At "Black Out" conditions only. Normal HID operation will occur at all other times.

CSR Auxiliary Quartz Operation



Normal Start:
Quartz lamp energized until main HID lamp strikes.

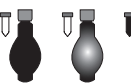


HID Lamp Reaches Full Brightness: Auxiliary quartz lamp extinguished when main HID lamp strikes. (Takes 3 minutes to reach approx. 40% brightness.)

LQ Auxiliary LiteMatic Quartz Operation



Normal Start:
Quartz lamp energized at initial cold start or at restrike after a temporary power interruption.

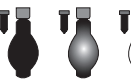


Quartz Lamp Remains on during Ramp Up: Besides providing illumination while the main HID lamp reaches full brightness, the warmth provided by the quartz lamp helps to create a favorable restrike condition for the main HID lamp (useful in extreme cold temperatures).

LQ1 Emergency Quartz Operation



At AC Power Interruption:
During AC line voltage power interruption, auxiliary quartz lamp is automatically energized by separately wired power source.



Once Power is Restored, Quartz Lamp Automatically Extinguishes: Used specifically for emergency lighting during "Black Out" periods, or times of extended power interruption. (Takes approximately 3 minutes for HID lamp to reach full brightness.)

Notes: 1. Fusing not available with any restrike options ('CSR', 'LQ', 'LQ1') 2. 'SP' optics not available with any restrike options ('CSR', 'LQ', 'LQ1') 3. 'LQ' restrike option not available with CosmoPolis or MasterColor Elite lamps.

Electronic Dimming Available for CosmoPolis lamps 'DFS4C' only

LS6 LumiStep 6 Dimming
LS8 LumiStep 8 Dimming
LS10 LumiStep 10 Dimming

LumiStep is a self programmed smart off-peak dimming system that continuously calibrates the mid-point time of the system's operating schedule during the calendar year and dims the lamp to 75% for the 60W and 60% for the 90 and 140W CosmoPolis lamp, during off-peak hours. 'LS6' will dim for a maximum of 6 hours after the midpoint time event. 'LS8' will dim for a maximum of 8 hours, 2 hours before the midpoint time event and 6 hours after. 'LS10' will dim for a maximum of 10 hours, 4 hours before the midpoint time event and 6 hours after. If the fixture is operating for more than 6 hours after the midpoint time event, the system will return to 100% high mode.

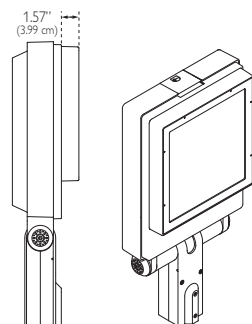
External Shielding Pre-attached

BD Barn Doors
Available Q1 - 2012

Lens Option Details (Includes factory installed lens holder that can hold up to two lenses, or one lens option and the stone guard option.)

External Lens Holder

(included with any lens option or stone guard option)
(ships installed)



Spread Lenses May be combined with a color or color temp lens. Beam images are for reference only.

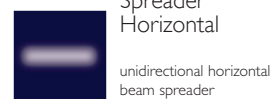
Clear Glass (standard)



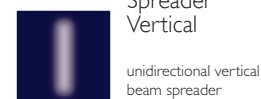
BSO Beam Softener



HLBSP Beam Spreader Horizontal



VLBSP Beam Spreader Vertical



Color Lenses

SGFBL Solgel Blue Filter
Lee/Rosco equivalent: Medium blue 132
SGFLB Solgel Light Blue Filter
Lee/Rosco equivalent: Marine blue 131
SGFYE Solgel Yellow Filter
Lee/Rosco equivalent: Yellow 101
SGFGN Solgel Green Filter
Lee/Rosco equivalent: Primary green 139
SGFMG Solgel Magenta Filter
Lee/Rosco equivalent: Calcolor Pink 4890

Color Temp Lenses

	installed lamp CCT (no filter)	approx. % change with filter	resulting CCT with filter
WAF1 Warm n°1 Solgel Filter	3000 K	-23.3%	2300 K
WAF2 Warm n°2 Solgel Filter	3000 K	-16.7%	2500 K
WAF3 Warm n°3 Solgel Filter	3000 K	-10.0%	2700 K
COF2 Cool n°2 Solgel Filter	3000 K	+26.7%	3800 K
COF3 Cool n°3 Solgel Filter	3000 K	+16.7%	3500 K
COF4 Cool n°4 Solgel Filter	3000 K	+10.0%	3300 K

Color Temp Lenses are used to adjust the color temperature of the existing lamp to a warmer or cooler CCT depending on the surface to be illuminated. Approximate percentage change in CCT (warmer or cooler) with filter is shown. Results can vary by lamp type, source, and optical distribution.

DFS4 Series

DecoFlood Medium Square - 39-150WHID

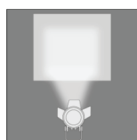
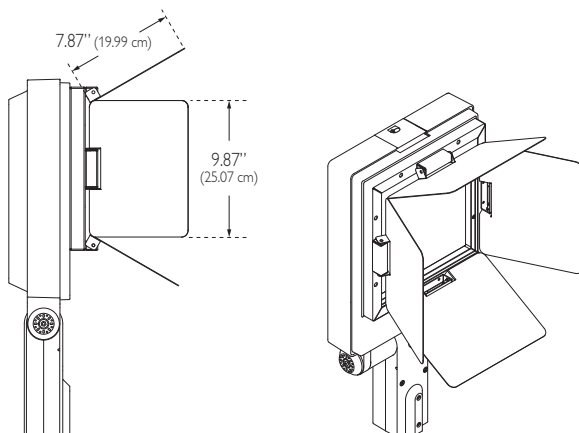
Type:

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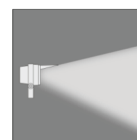
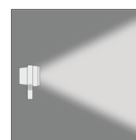
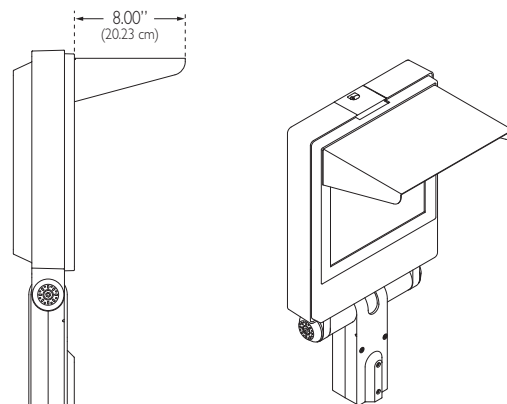
External Shielding Accessory Details (black unless otherwise specified) (must be ordered separately) (beam images are for reference only)

BD-DFS4 Barn Doors



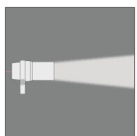
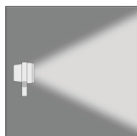
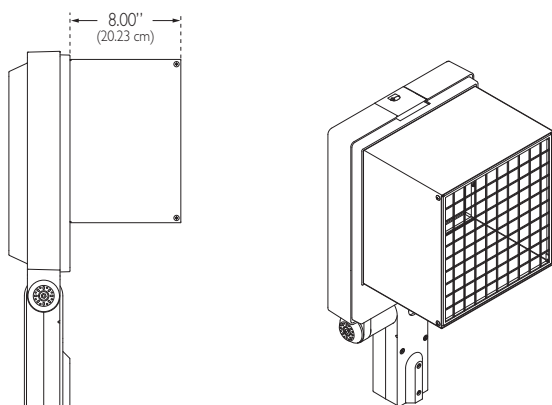
Helps to frame beam and increase visual comfort without impairing the main distribution.

TS-DFS4 Top Shield (visor)



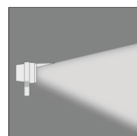
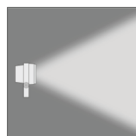
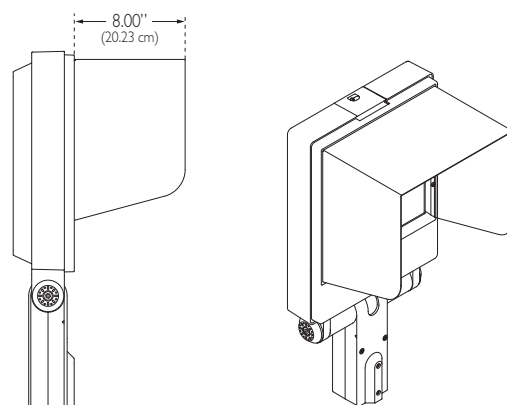
Helps to increase visual comfort from certain viewing angles without impairing the main distribution.

4S-DFS4 Four Sided Shield



Helps to limit glare and spill light in all directions.

3S-DFS4 Three Sided Shield



Helps to increase visual comfort from certain viewing angles without impairing the main distribution.

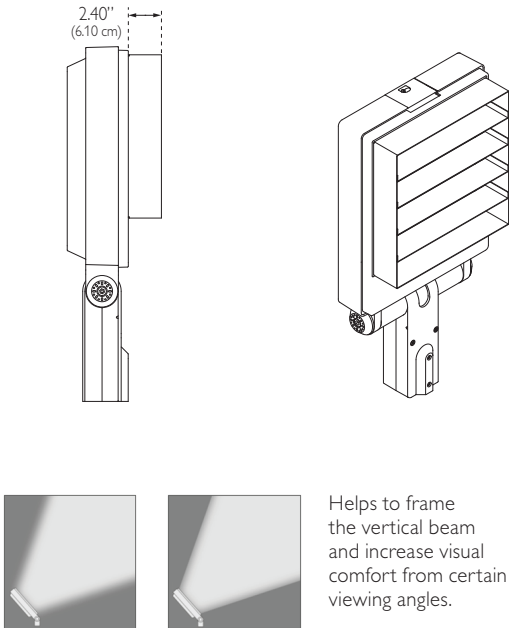
DFS4 Series

DecoFlood Medium Square - 39-150W HID

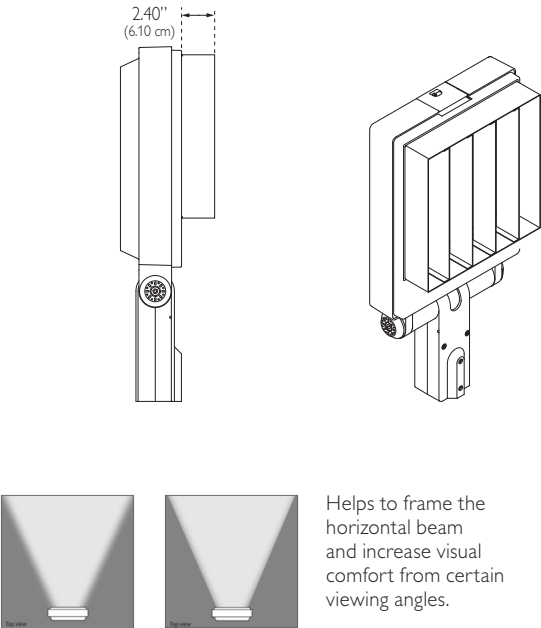
Type:	Job:	Page 10 of 12
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External Shielding Accessory Details (continued) (black unless otherwise specified) (must be ordered separately) (beam images are for reference only)

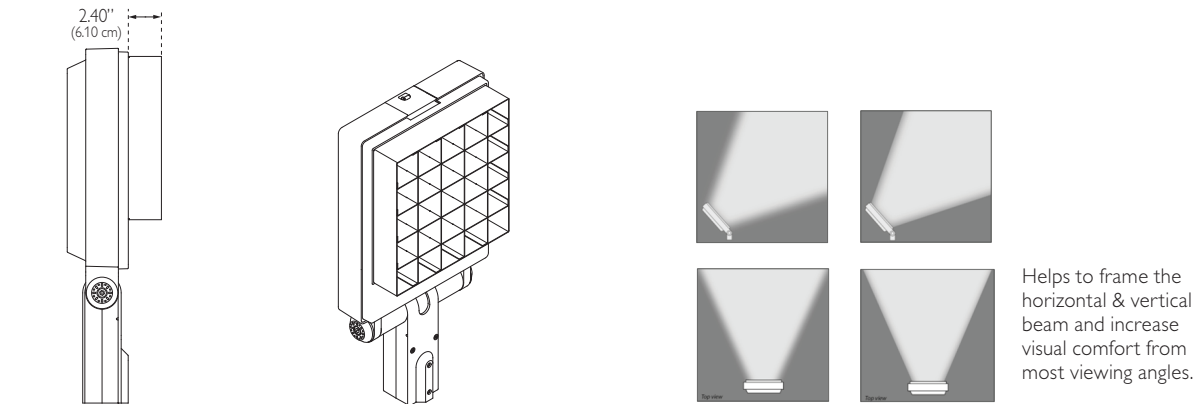
HL-DFS4 Horizontal Louvers



VL-DFS4 Vertical Louvers



EC-DFS4 Eggcrate Louvers



DFS4 Series

DecoFlood Medium Square - 39-150WHID

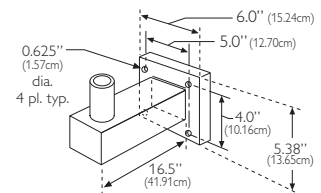
Type:	Job:	Page 11 of 12
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Swivel Mount Accessory Details (must be ordered separately) (F = specify finish)

WMB-16.5-(F) Wall Mounting Bracket

2-3/8" O.D. vertical tenon welded to extruded aluminum arm with removable end cap for wiring. Arm is bolted to a cast aluminum plate that has four 5/8" diameter mounting holes.

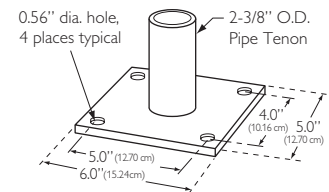
Suitable for mounting single luminaire only.
Mounting hardware by others.



SMT-2-(F) Surface Mounted Tenon

2-3/8" O.D. aluminum tenon welded to a flat aluminum plate with four 1/2" diameter mounting holes.

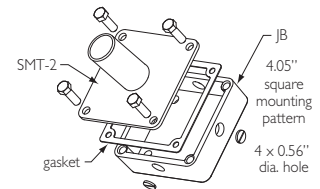
Single floodlight may be pad mounted or wall mounted.
Mounting hardware by others.



JB-VMT-(F) Junction Box with SMT-2

For mounting to flat surfaces when using surface mount conduit.

Box has four 1/2" pipe entrances.
Mounting hardware by others.

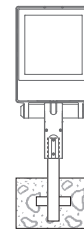


SM-18-(F) 18" Stanchion Mount

Stanchion mounting allows stable positioning of vertical tenon member in aggregate or substrate.

2-3/8" O.D. aluminum tenon welded to a 2-7/8" stanchion.

Standard length: 18"



PTA-2180-16.5-(F) Pole Top Adapter, 2@180

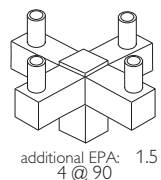
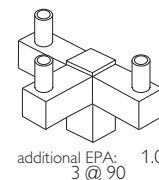
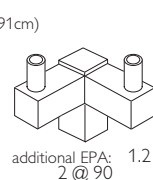
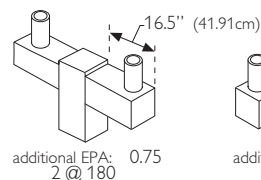
Vertically mounted 2-3/8" O.D. tenons welded to extruded aluminum arms with removable end cap for wiring. Arms bolted to cast aluminum pole top bracket. Fits poles having a 2-3/8" O.D. x 4" vertical tenon.

PTA-2090-16.5-(F) Pole Top Adapter, 2@90

Components shipped separately. Field assembly required.

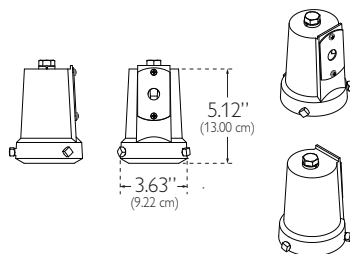
PTA-3090-16.5-(F) Pole Top Adapter, 3@90

PTA-4090-16.5-(F) Pole Top Adapter, 4@90



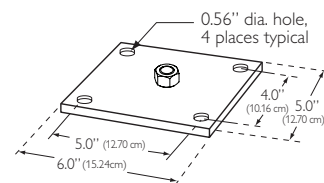
Yoke Mount Accessory Details (must be ordered separately) (F = specify finish)

MF4-(F) Slip Fitter (fits 2-3/8" O.D. tenon)



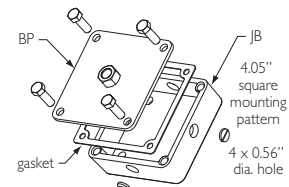
BP-(F) Surface Mount Base Plate

Flat aluminum plate with four 1/2" diameter mounting holes. Single floodlight may be pad mounted or wall mounted.
Mounting hardware by others.



JB-BP-(F) Junction Box with BP

For mounting to flat surfaces when using surface mount conduit. Box has four 1/2" pipe entrances.
Mounting hardware by others.



DFS4 Series

DecoFlood Medium Square - 39-150W HID

Type:	Job:	Page 12 of
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Notes



ISO 9001
Certified



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Philips Lighting
North America Corporation
200 Franklin Square Drive
Somerset, NJ 08873
Tel. 855-486-2216

Imported by: Philips Lighting,
A division of Philips Electronics Ltd.
281 Hillmount Rd,
Markham, ON, Canada L6C 2S3
Tel. 800-668-9008