

OM8200A23MRISPL

8" A-Lamp Splay Lens Downlights

CAT. NO:

TYPE:

PROJECT:



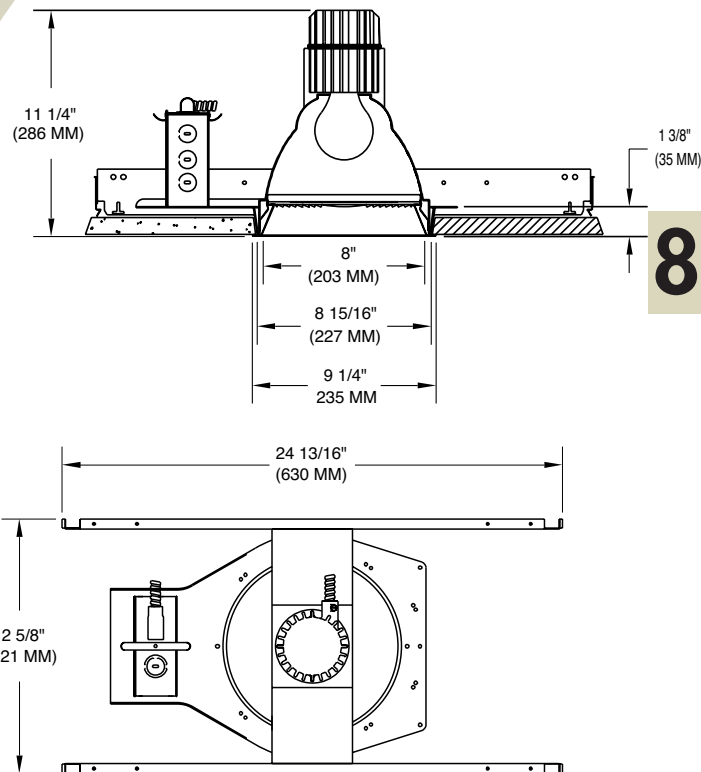
PRODUCT INFORMATION

Applications

A special application fixture constructed of non ferrous metals for use in Magnetic Resonance Imaging hospital facilities. A soft edged, lensed downlight for use with economical A type incandescent lamps. Provides broad uniform light distribution while concealing lamp image and maintaining good visual cut-off.

Specifications

- Mounting pan** - Precision die-formed 14 gauge aluminum mounting pan and yoke assembly.
- Installation** - Mounting pan has pre-installed C-channel with vertical and horizontal adjustments. Yoke adjusts for proper positioning of lamp within reflector. Junction box and mounting brackets are accessible from below ceiling.
- Reflectors** - Precision spun .051 aluminum reflector, self flanged with clear specular Alzak finish. Reflector is screw mounted for positive attachment to socket assembly. Standard flat flange is painted white. Optional polished flange matching reflector finish available, add FF to catalog number.
- Splay Lens** - Spun aluminum regressed splay trim with white powder paint finish. Torsion spring mounting for ease of installation. Flat fresnel and prismatic lens for smooth, even distribution of light. Flat clear lens for enclosed applications.
- Baffle** - Precision machined .051 aluminum with deep grooves to minimize aperture glare, anodized matte black or matte white finish. Standard flat flange is painted white. Optional black flange available, add FF to catalog number.
- Socket** - Medium base 250V porcelain socket with nickel-plated copper screw shell and 200°C wire positions lamp at optical focal plane of reflector for maximum performance.
- Junction box** - Extra large 43.75-cubic inch 14 gauge aluminum with snap-on covers. Approved for through wiring with up to 8 #12 AWG conductors.
- Thermal protection** - A thermal protection device which meets all U.L. and NEC requirements is standard.
- U.L. Listed** - For use in wet locations in covered ceiling applications only. Approved for Through Branch Circuit Wiring. I.B.E.W. union made.



* Canadian specifications may vary from these shown, consult Canadian Division.

CATALOG SYSTEM AND OPTIONS

EXAMPLE OF COMPLETE CATALOG NUMBER: **OM8200A23MRISPL-FL**

OMEGA Aptr.	Lamp (by others)	Product Family	Reflector Option	Lens Type (required)
OM8	200 A23 150 A21	MRI Magnetic Resonance Imaging	SPL Splay Lens (white) CSSPL Clear Specular Splay Lens BBSPL Black Baffle Splay Lens BKSPL Splay Lens (Black)	FL Fresnel Lens PL Prismatic Lens CL Clear Lens



FIVE YEAR
Warranty

OM8200A23MRISPL-PL**Photometric Data****Prismatic Lens with White Regressed Splay**

Report Number: 20846

Lamp: 200W A23

Total Lumens: 3800

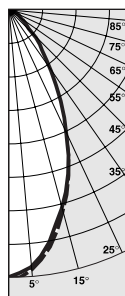
Fixture Efficiency: = 61.1%

IES File: F20846.IES

S/MH Ratio = 0.8, 0.8

Beam Angle: 51.29

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	80.7	5-3
10	43.4	7-2
12	27.0	9-1
14	18.5	11-1
16	13.4	12-12

DISTRIBUTION CURVE

DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	9	9	929
75	42	47	1547
65	98	96	2066
55	163	165	2573
45	355	329	4353
35	682	650	
25	1256	1241	
15	1880	1911	
5	2358	2387	
0	2441	2441	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20			
RC	80	70	50
RW	50 30	50 30	50 30
0	72 72	70 70	68 68
1	66 65	65 64	64 60
2	60 57	59 56	57 55
3	56 52	55 51	53 50
4	51 46	51 46	48 46
5	46 42	46 42	46 41
6	44 40	44 40	42 39
7	40 36	40 36	40 35
8	38 34	38 34	36 34
9	35 32	35 32	34 32
10	34 29	34 29	33 29

OM8200A23MRISPL-FL**Photometric Data****Fresnel Lens with White Regressed Splay**

Report Number: 20847

Lamp: 200W A23

Total Lumens: 3800

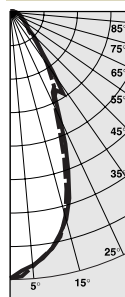
Fixture Efficiency: = 58.7%

IES File: F20847.IES

S/MH Ratio = 0.8, 0.7

Beam Angle: 46.21

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	82.2	4-8
10	44.2	6-5
12	27.6	8-1
14	18.8	9-10
16	13.7	11-6

DISTRIBUTION CURVE

DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	2	2	
85	7	7	2477
75	47	47	5600
65	101	94	7114
55	152	141	7876
45	235	232	10183
35	686	595	
25	1080	986	
15	2010	1978	
5	2378	2387	
0	2488	2488	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20			
RC	80	70	50
RW	50 30	50 30	50 30
0	69 69	68 68	65 65
1	64 61	63 60	59 58
2	57 56	56 55	55 53
3	54 50	54 50	51 48
4	50 46	48 45	47 45
5	46 41	45 41	44 40
6	42 39	41 39	40 38
7	40 35	40 35	39 35
8	38 34	36 34	36 33
9	34 32	34 30	34 30
10	33 29	33 29	33 28

*Readings at working plane, 2'6" above floor. Beam Angle and Diameter Cutoff at 50% of max.
Candlepower Coefficients used at effective reflectances of: 70% Ceiling, 50% Walls, 20% Floor

Additional photometric test files are available @ omegalighting.com

OMEGA
LIGHTING

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