

PHILIPS Day-Brite CFI

Healthcare

Multi-Med Patient Room Luminaire 2x4

ME640N & ME640NLG
Exam/ambient/reading
functions



Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

The Philips Day-Brite / CFI Multi-Med patient room exam/ambient/reading luminaire provides the four essential illumination requirements at the patient bed – ambient, patient reading, examination and optional night/chart lighting. The optical compartments are designed for efficient performance and patient comfort. The overall clean appearance of Multi-Med helps it blend into the ceiling plane and helps the environment feel less clinical. The standard anti-microbial finish and optional fully-lensed door model supports a healthcare facility's infection-control efforts.

Ordering guide

example: ME640N277PPBL-LVC

Family	Voltage	Diffuser (Exam Section)	Options
		–	
ME640N (6) 40WTT5 Fluorescent (2G11 base) ME640NLG Full-door model (6) 40WTT5 Fluorescent (2G11 base)	120 277 347	PBL Semi-specular parabolic louver w/ translucent acrylic overlay (18-cell) PPBL Painted parabolic louver w/translucent acrylic overlay (18-cell) ACR Acrylic prismatic lens (nom. 0.125" thickness) PCL Specular paracube louver (1/2" x 1/2" cells) w/translucent acrylic overlay	4EX¹ 4 exam section lamps (24 cell louver) GMF Slow blow fuse LVC Low voltage controller for use with remotely located bed control PSC Pillow switch control (control with cord and wall plate) NL13 Night light, 13W compact fluorescent (switched at wall) RFI² (3) Radio frequency interference suppressors and RFI grid on lens CACR^{3,4} Clear acrylic lens (positioned below the exam section's louver/lens)

Footnotes

- 1 The PBL and PPBL shielding options for a (4) lamp exam compartment have 24 cells.
- 2 Available for ME640NLG model only.
- 3 Not required for the ME640NLG model.
- 4 If selecting the RFI option, the CACR option is included.

Accessories (order separately)

- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" mounting

ME640N & ME640NLG Multi-Med patient room luminaire 2x4

Exam/ambient/reading functions

Features

- Optional integral, low voltage controller for patient control of ambient and reading functions.
- Tool-less access for lamp replacement.
- Multiple shielding options for the exam section.
- Antimicrobial finish to inhibit the growth of microbes.
- Optional LED night/chart light.
- 3 exam lamps standard, 4 lamps optional.

Specifications

- **Construction:** 20 gauge cold rolled steel housing with .040" aluminum internal components.
- **Door Frame:** The ME640N model has a hinged door for the exam section while the ME640NLG model has a full clear lensed door covering all compartments. Both doors have one-piece, formed aluminum construction with full length, stainless steel hinge and thumb screws for tool-less service access.
- **Reflector and Lenses:** The ambient compartment has a formed aluminum reflector with perforated baskets with translucent lens to shield the lamps. A formed, asymmetric reflector and solid lamp shield are used in the reading compartment. The exam compartment has a formed aluminum reflector with either 1-1/2" deep parabolic louver (in a semi-specular or white painted finish), a low brightness 1/2" x 1/2" plastic paracube louver with metallized finish or an acrylic prismatic lens. The louver options have a translucent overlay. An optional clear acrylic lens (CACR option) can be specified as a dust shield for the exam door in the ME640N model. The ME640NLG model has a full door with a clear, acrylic lens dust shield that covers all compartments.

• **Finish:** The housing, reflectors, lamp shields and door frame are painted after fabrication with a white polyester powder coat paint finish. The finish has an antimicrobial additive to inhibit the growth of microbes.

• **Lamps:** The ME640N and ME640NLG luminaires are provided with (6) 40W twin-tube fluorescent lamps with 2G11 base. An additional lamp can be selected for the exam section (4EX option). The lamps are supplied with a 3500K color temperature unless specified. Relamping can be done without tools.

• **Switching:** Multi-Med is wired for independent switching of the lamp compartments. It is recommended that the exam lighting compartment (direct reflector) be switched at the wall where it can be controlled by the healthcare staff. The ambient and reading compartments can be switched at the wall or controlled with a low voltage controller (LVC) installed in the luminaire. The LVC is compatible with industry standard bed control systems (by others).

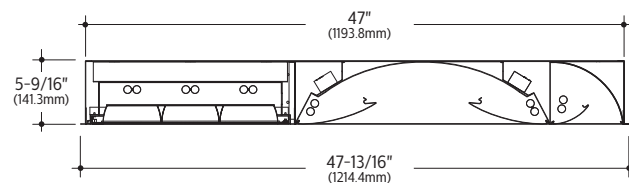
• **Electrical:** Electronic ballasts are provided for the specified voltage (120, 277 or 347 volts).

• **Installation:** Multi-Med can be installed into a grid or drywall ceilings. Drywall applications require the FMA24 (flange kit) option. (4) 7/8" knockouts are provided on the top of the housing. Refer to the Dimensional Data for further details.

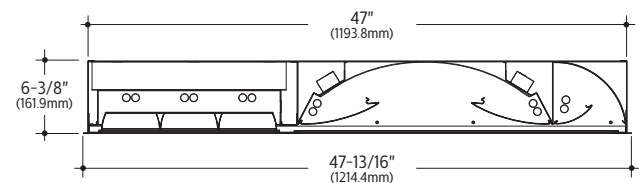
• **Listing:** ETL listed for US and Canada in damp locations.

• **Warranty:** 5 year limited warranty.

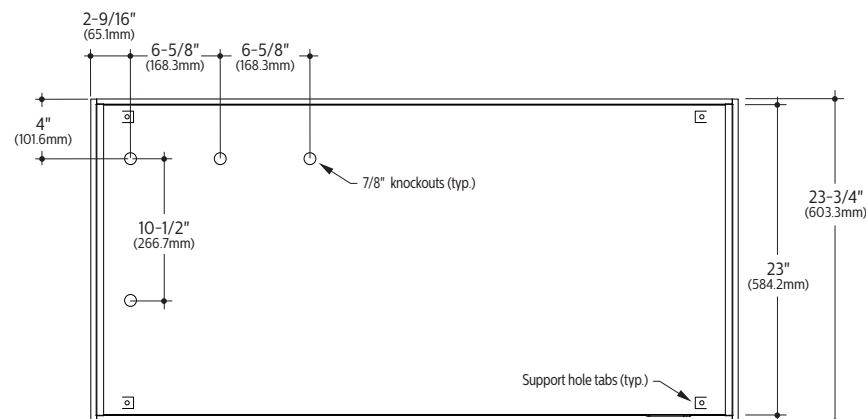
Dimensions



Cross Section (ME640N)



Cross Section (ME640NLG)



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

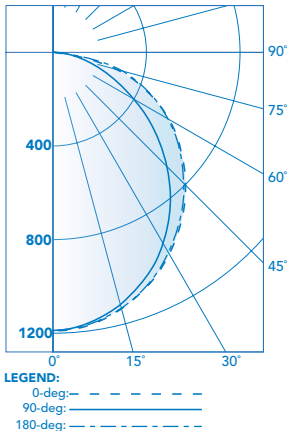
ME640N & ME640NLG Multi-Med patient room luminaire 2x4

Exam/ambient/reading functions

Photometrics

ME640N (PBL), Ambient

(2) 40W T5 Fluorescent -
single-ended, twin tube
3300 lumens per lamp
Report No.: ITL66236
Efficiency: 49.1%



CO-EFFICIENTS OF UTILIZATION | Effective floor cavity reflectance=20%

rc	80				70				50			30			10			0	
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	58	58	58	58	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	53	51	49	47	52	50	48	46	48	46	45	46	45	43	44	43	42	41	
2	49	44	41	38	47	44	40	38	42	39	37	40	38	36	39	37	35	34	
3	44	39	35	32	43	38	35	32	37	34	31	35	33	30	34	32	30	29	
4	40	35	30	27	39	34	30	27	33	29	26	32	28	26	30	28	26	25	
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CANDLEPOWER DISTRIBUTION

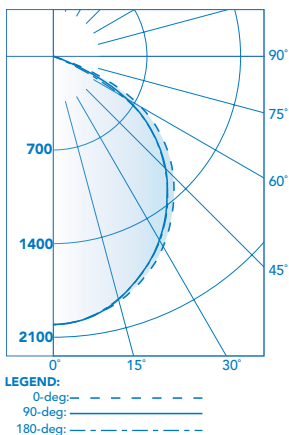
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1189	1189	1189	1189	1189
5°	1185	1178	1177	1177	1181
15°	1136	1122	1117	1123	1132
25°	1049	1025	1012	1027	1044
35°	936	893	865	895	929
45°	806	745	692	742	795
55°	655	579	499	572	647
65°	485	402	305	398	483
75°	279	229	167	242	310
85°	29	25	29	34	43
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	902	13.7	27.8
0-40	1464	22.2	45.2
0-60	2552	38.7	78.8
0-90	3240	49.1	100.0
90-180	0	0.0	0.0
0-180	3240	49.1	100.0

ME640N (PBL), Exam

(3) 40W T5 Fluorescent -
single-ended, twin tube
3300 lumens per lamp
Report No.: ITL66235
Efficiency: 45.9%



CO-EFFICIENTS OF UTILIZATION | Effective floor cavity reflectance=20%

rc	80					70				50			30			10			0
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	55	55	55	55	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	51	49	47	46	50	48	47	45	46	45	44	44	43	43	43	42	41	40	
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10	26	20	17	14	25	20	16	14	19	16	14	19	16	14	19	16	14	13	

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	2006	2006	2006	2006	2006
5°	1993	1992	1991	1993	1992
15°	1898	1895	1883	1878	1880
25°	1741	1724	1695	1694	1701
35°	1523	1491	1458	1458	1465
45°	1272	1214	1183	1168	1184
55°	957	892	844	833	840
65°	492	442	361	269	188
75°	44	41	30	29	25
85°	9	9	8	7	5
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

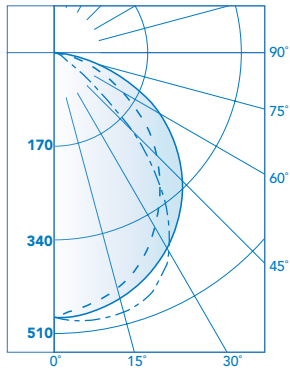
Zone	Lumens	% Lamp	% Fixt.
0-30	1507	15.2	33.2
0-40	2430	24.5	53.5
0-60	4122	41.6	90.7
0-90	4543	45.9	100.0
90-120	0	0.0	0.0
0-180	4543	45.9	100.0

ME640N & ME640NLG Multi-Med patient room luminaire 2x4

Exam/ambient/reading functions

ME640N (PBL), Reading

(1) 40W T5 Fluorescent -
single-ended twin tube
3300 lumens per lamp
Report No.: ITL66237
Efficiency: 35.2%



LEGEND:
0-deg: ---
90-deg: ---
180-deg: ---

CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc rw	80					70				50			30			10			0
	70	50	30	10		70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	0	42	42	42	42	41	41	41	41	39	39	39	37	37	37	36	36	36	35
1	39	37	36	35		38	36	35	34	35	34	33	34	33	32	32	32	31	30
2	36	33	31	29		35	32	30	29	31	29	28	30	29	27	29	28	27	26
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7	24	19	16	14		23	19	16	14	19	16	14	18	16	14	18	16	14	13
8	22	18	15	13		22	17	15	13	17	15	13	17	14	13	16	14	13	12
9	21	16	14	12		20	16	13	12	16	13	12	15	13	11	15	13	11	11
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CANDLEPOWER DISTRIBUTION

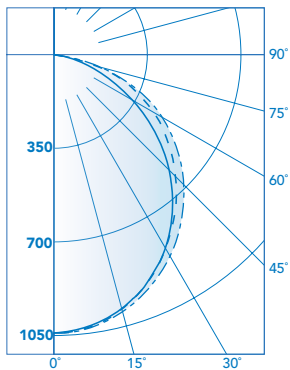
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	481	481	481	481	481
5°	467	472	480	485	489
15°	441	448	463	479	488
25°	396	410	431	454	454
35°	331	354	386	396	360
45°	264	284	330	293	203
55°	185	209	260	147	39
65°	107	127	177	24	16
75°	51	59	84	9	6
85°	12	13	13	1	1
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	376	11.4	32.3
0-40	609	18.4	52.3
0-60	1000	30.3	86.0
0-90	1163	35.2	100.0
90-120	0	0.0	0.0
0-180	1163	35.2	100.0

ME640NLG (PBL), Ambient

(2) 40W T5 Fluorescent -
single-ended, twin tube
3300 lumens per lamp
Report No.: ITL66239
Efficiency: 40.7%



LEGEND:
0-deg: ---
90-deg: ---
180-deg: ---

CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc rw	80					70				50			30			10			0
	70	50	30	10		70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	0	48	48	48	48	47	47	47	47	45	45	45	43	43	43	41	41	41	41
1	45	43	41	40		43	42	40	39	40	39	38	38	38	37	37	36	36	35
2	41	37	35	33		40	37	34	32	35	33	31	34	32	31	33	31	30	29
3	37	33	30	27		36	32	29	27	31	29	27	30	28	26	29	27	26	25
4	34	29	26	23		33	29	26	23	28	25	23	27	24	22	26	24	22	21
5	31	26	23	20		31	26	22	20	25	22	20	24	22	19	23	21	19	18
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7	27	21	18	16		26	21	18	15	21	18	15	20	17	15	19	17	15	14
8	25	20	16	14		24	19	16	14	19	16	14	18	16	14	18	15	14	13
9	23	18	15	13		23	18	15	12	17	14	12	17	14	12	16	14	12	12
10	22	17	13	11		21	16	13	11	16	13	11	16	13	11	15	13	11	10

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1041	1041	1041	1041	1041
5°	1035	1033	1030	1033	1037
15°	985	985	984	989	995
25°	896	894	893	908	920
35°	775	772	768	792	815
45°	649	629	613	655	692
55°	507	466	435	490	548
65°	353	299	251	318	384
75°	177	138	107	145	188
85°	5	9	12	15	18
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

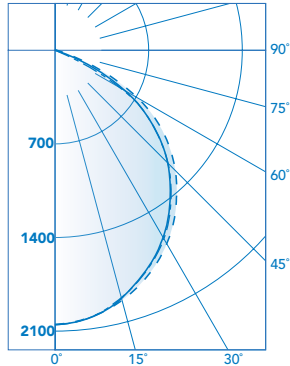
Zone	Lumens	% Lamp	% Fixt.
0-30	791	12.0	29.5
0-40	1281	19.4	47.7
0-60	2205	33.4	82.2
0-90	2684	40.7	100.0
90-120	0	0.0	0.0
0-180	2684	40.7	100.0

ME640N & ME640NLG Multi-Med patient room luminaire 2x4

Exam/ambient/reading functions

ME640NLG (PBL), Exam

(3) 40W T5 Fluorescent -
single-ended, twin tube
3300 lumens per lamp
Report No.: ITL66238
Efficiency: 45.8%



LEGEND:
0-deg: ---
90-deg: ---
180-deg: ---

CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc		80				70				50				30				10				0
rw		70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR	0	55	55	55	55	53	53	53	53	51	51	51		49	49	49		47	47	47		46
	1	51	49	47	46	50	48	47	45	46	45	44		44	43	43		43	42	41		40
	2	47	44	41	39	46	43	40	38	41	39	38		40	38	37		39	37	36		35
	3	43	39	36	33	42	38	35	33	37	34	32		36	34	32		35	33	31		30
	4	40	35	31	29	39	34	31	28	33	30	28		32	30	28		31	29	27		26
	5	37	31	28	25	36	31	27	25	30	27	25		29	26	24		28	26	24		23
	6	34	28	25	22	33	28	24	22	27	24	22		26	24	22		26	23	21		20
	7	32	26	22	20	31	26	22	19	25	22	19		24	21	19		24	21	19		18
	8	30	24	20	18	29	23	20	17	23	20	17		22	19	17		22	19	17		16
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CANDLEPOWER DISTRIBUTION

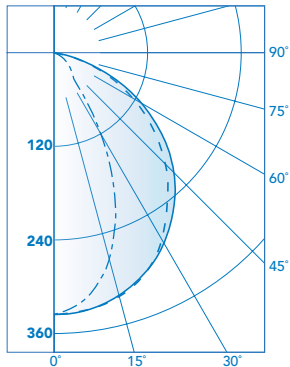
Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	2050	2050	2050	2050	2050
5°	2031	2032	2032	2035	2033
15°	1932	1928	1917	1914	1917
25°	1773	1753	1726	1725	1734
35°	1548	1516	1480	1481	1491
45°	1268	1220	1188	1175	1192
55°	925	862	823	806	821
65°	432	401	334	255	189
75°	45	43	34	32	28
85°	11	12	12	10	8
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1535	15.5	33.8
0-40	2471	25.0	54.5
0-60	4142	41.8	91.3
0-90	4538	45.8	100.0
90-180	0	0.0	0.0
0-180	4538	45.8	100.0

ME640NLG, Reading

(1) 40W T5 Fluorescent -
single-ended, twin tube
3300 lumens per lamp
Report No.: ITL66240
Efficiency: 20.6%



LEGEND:
0-deg: ---
90-deg: ---
180-deg: ---

CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc		80				70				50				30				10				0
rw		70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR	0	24	24	24	24	24	24	24	24	23	23	23		22	22	22		21	21	21		21
	1	23	22	21	20	22	21	21	20	21	20	19		20	19	19		19	19	18		18
	2	21	19	18	17	20	19	18	17	18	17	16		18	17	16		17	16	16		15
	3	19	17	16	15	19	17	16	14	16	15	14		16	15	14		15	14	14		13
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	6	15	13	11	10	15	12	11	10	12	11	10		12	11	10		11	10	9		9
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	9	12	10	8	7	12	10	8	7	9	8	7		9	8	7		9	8	7		7
	10	12	9	8	7	11	9	8	7	9	7	7		9	7	6		8	7	6		6

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	335	335	335	335	335
5°	333	335	334	327	325
15°	323	325	322	296	274
25°	297	302	298	233	178
35°	251	265	262	146	61
45°	202	213	218	53	31
55°	147	155	162	26	19
65°	86	94	97	14	10
75°	40	40	36	5	3
85°	11	9	3	0	0
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	242	7.3	35.6
0-40	373	11.3	54.9
0-60	586	17.8	86.3
0-90	679	20.6	100.0
90-180	0	0.0	0.0
0-180	679	20.6	100.0

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philips.com/luminaires



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200 Franklin Square Drive, Somerset, NJ 08873
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