

PHILIPS Day-Brite CFI

Healthcare

Multi-Med patient room luminaire 2x4

ME540N & ME540NLG
Exam/ambient functions



Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

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

Ordering guide

example: ME540N277PPBL-LVC

Family	Voltage	Diffuser (Exam Section)	Options
		-	
ME540N (5) 40WTT5 Fluorescent (2G11 base) ME540NLG Full-door model (5) 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	4EX 4 exam section lamps (24 cell louver) GMF Slow blow fuse LVC Low voltage controller for use with remotely located bed control NL13 Night light, 13W compact fluorescent (switched at wall) RFI¹ (2) Radio frequency interference suppressors and RFI grid on lens CACR^{2,3} Clear acrylic lens (positioned below the exam section's louver/lens)

Footnotes

- 1 Available for ME540NLG model only.
- 2 Not required for the ME540NLG model.
- 3 If selecting the RFI option, the CACR option is included.

Accessories (order separately)

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

ME540N & ME540NLG Multi-Med patient room luminaire 2x4

Exam/ambient functions

Features

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

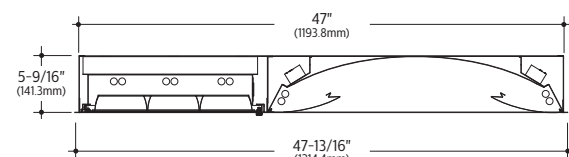
Specifications

- **Construction:** 20 gauge cold rolled steel housing with .040" aluminum internal components.
- **Door Frame:** The ME540N model has a door for the exam section while the ME540NLG 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. 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 metalized 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

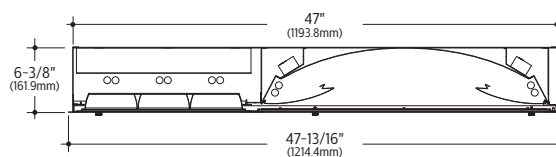
in the ME540N model. The ME540NLG model has a full door with a clear, acrylic lens dust shield that covers all compartments.

- **Finish:** The housing, reflectors, lamp shields and door frame are painted after fabrication with a white polyester powder coat paint finish. An antimicrobial paint additive inhibits the growth of microbes.
- **Lamps:** The ME540N and ME540NLG luminaires are provided with (5) 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. Typically, the exam lighting compartment (direct reflector) is switched at the wall where it can be controlled by the healthcare staff. The ambient compartment 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 FK24A (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.

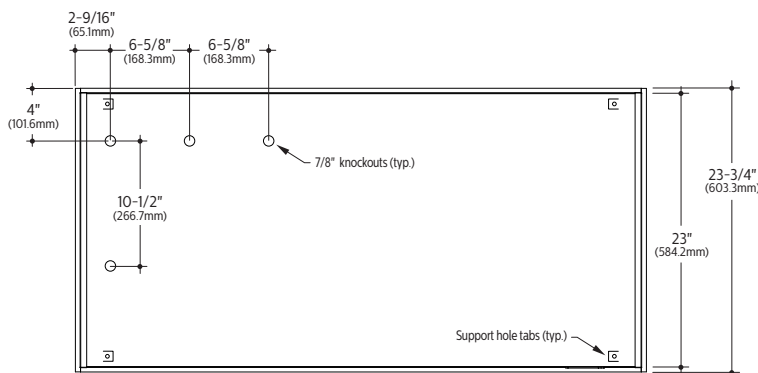
Dimensions



Cross Section (ME540N)



Cross Section (ME540NLG)



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

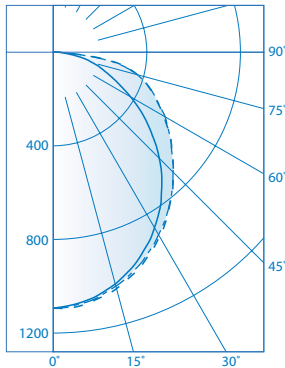
ME540N & ME540NLG Multi-Med patient room luminaire 2x4

Exam/ambient functions

Photometrics

ME540N, Ambient

(2) 40W Twin Tube Fluorescent -
3300 lumens per lamp
Report No.: ITL68841
Efficiency: 46.8%



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	56	56	56	56	54	54	54	54	52	52	52	50	50	50	48	48	48	47
	1	51	48	46	44	49	47	45	44	45	44	42	43	42	41	42	41	40	39
	2	46	42	39	36	45	41	38	35	39	37	34	38	36	34	36	34	33	32
	3	42	37	33	30	41	36	32	29	34	31	29	33	30	28	32	30	28	27
	4	38	32	28	25	37	32	28	25	31	27	24	29	26	24	28	26	24	23
	5	35	29	25	21	34	28	24	21	27	24	21	26	23	21	26	23	21	20
	6	32	26	22	19	31	26	22	19	25	21	18	24	21	18	23	20	18	17
	7	30	24	19	17	29	23	19	16	23	19	16	22	19	16	21	18	16	15
	8	28	22	18	15	27	21	17	15	21	17	15	20	17	15	19	17	14	14
	9	26	20	16	13	25	20	16	13	19	16	13	18	15	13	18	15	13	12
	10	25	18	15	12	24	18	14	12	18	14	12	17	14	12	17	14	12	11

CANDLEPOWER DISTRIBUTION

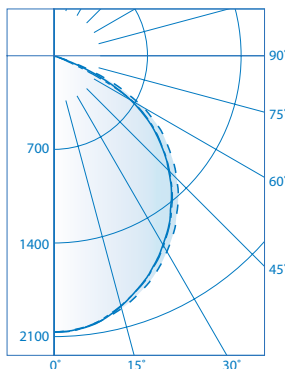
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1095	1095	1095	1095	1095
5°	1094	1086	1082	1084	1086
15°	1047	1035	1026	1031	1036
25°	961	943	927	938	952
35°	851	828	800	822	847
45°	726	683	640	680	724
55°	607	534	468	537	605
65°	485	388	297	390	489
75°	371	252	169	250	370
85°	73	51	34	50	65
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	829	12.6	26.8
0-40	1344	20.4	43.5
0-60	2350	35.6	76.1
0-90	3089	46.8	100.0
90-120	0	0.0	0.0
0-180	3089	46.8	100.0

ME540N, Exam

(3) 40W Twin Tube Fluorescent -
3300 lumens per lamp
Report No.: ITL68840
Efficiency: 47.6%



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	
R	0	57	57	57	57	55	55	55	55	53	53	53	51	51	51	49	49	49	48
R	1	53	51	49	48	51	50	48	47	48	47	45	46	45	44	44	44	43	42
C	2	49	45	42	40	47	44	42	40	43	41	39	41	39	38	40	38	37	36
R	3	45	40	37	34	44	39	36	34	38	35	33	37	35	33	36	34	32	31
C	4	41	36	32	29	40	35	32	29	34	31	29	33	30	28	32	30	28	27
R	5	38	32	28	25	37	32	28	25	31	28	25	30	27	25	29	27	25	24
C	6	35	29	25	22	34	29	25	22	28	25	22	27	24	22	26	24	22	21
R	7	33	27	23	20	32	26	22	20	25	22	20	25	22	20	24	21	19	18
C	8	30	24	20	18	30	24	20	18	23	20	18	23	20	18	22	19	17	17
R	9	28	22	19	16	28	22	18	16	22	18	16	21	18	16	21	18	16	15
C	10	27	21	17	15	26	20	17	15	20	17	15	19	17	14	19	16	14	14

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	2062	2062	2062	2062	2062
5°	2045	2047	2048	2049	2050
15°	1950	1947	1932	1928	1928
25°	1789	1773	1740	1740	1745
35°	1570	1529	1503	1494	1511
45°	1292	1239	1207	1201	1218
55°	977	913	874	866	887
65°	511	458	410	361	314
75°	43	47	38	39	36
85°	8	9	9	8	7
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

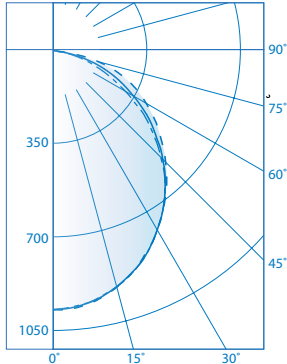
Zone	Lumens	% Lamp	% Fixt.
0-30	1548	15.6	32.8
0-40	2495	25.2	52.9
0-60	4235	42.8	89.9
0-90	4713	47.6	100.0
90-120	0	0.0	0.0
0-180	4713	47.6	100.0

ME540N & ME540NLG Multi-Med patient room luminaire 2x4

Exam/ambient functions

ME540NLG, Ambient

(2) 40W Twin Tube Fluorescent -
3300 lumens per lamp
Report No.: ITL68843
Efficiency: 37.5%



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	45	45	45	45	44	44	44	44	42	42	42	40	40	40	38	38	38	37
1	41	39	38	36		40	38	37	36	37	36	35	35	34	34	34	33	33	32
2	37	34	32	30		36	34	31	29	32	30	29	31	30	28	30	29	28	27
3	34	30	27	25		33	30	27	25	29	26	24	28	26	24	27	25	23	23
4	31	27	24	21		30	26	23	21	25	23	21	25	22	21	24	22	20	19
5	29	24	21	18		28	24	21	18	23	20	18	22	20	18	21	19	18	17
6	27	22	18	16		26	21	18	16	21	18	16	20	18	16	20	17	16	15
7	25	20	17	14		24	19	16	14	19	16	14	18	16	14	18	16	14	13
8	23	18	15	13		22	18	15	13	17	15	13	17	14	13	16	14	12	12
9	22	17	14	12		21	16	13	11	16	13	11	16	13	11	15	13	11	11
10	20	15	12	10		20	15	12	10	15	12	10	14	12	10	14	12	10	10

CANDLEPOWER DISTRIBUTION

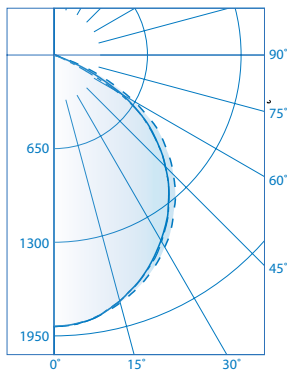
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	967	967	967	967	967
5°	964	964	960	959	957
15°	914	914	912	914	913
25°	825	830	830	832	831
35°	717	717	715	716	715
45°	593	589	578	573	568
55°	468	458	431	412	410
65°	342	324	279	249	238
75°	196	180	133	115	105
85°	15	15	15	14	12
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	731	11.1	29.5
0-40	1178	17.9	47.6
0-60	2014	30.5	81.4
0-90	2475	37.5	100.0
90-120	0	0.0	0.0
0-180	2475	37.5	100.0

ME540NLG, Exam

(3) 40W Twin Tube Fluorescent -
3300 lumens per lamp
Report No.: ITL68842
Efficiency: 42.5%



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	51	51	51	51	49	49	49	49	47	47	47	45	45	45	43	43	43	42
1	47	45	44	43		46	45	43	42	43	42	41	41	40	39	40	39	38	37
2	43	41	38	36		42	40	37	36	38	36	35	37	35	34	36	34	33	32
3	40	36	33	31		39	35	33	30	34	32	30	33	31	29	32	30	29	28
4	37	32	29	26		36	32	29	26	31	28	26	30	27	26	29	27	25	24
5	34	29	26	23		33	29	25	23	28	25	23	27	24	22	26	24	22	21
6	32	26	23	20		31	26	23	20	25	22	20	25	22	20	24	22	20	19
7	29	24	21	18		29	24	20	18	23	20	18	22	20	18	22	19	18	17
8	27	22	19	16		27	22	18	16	21	18	16	21	18	16	20	18	16	15
9	26	20	17	15		25	20	17	15	19	17	15	19	16	14	19	16	14	14
10	24	19	15	13		23	18	15	13	18	15	13	18	15	13	17	15	13	12

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1884	1884	1884	1884	1884
5°	1871	1869	1870	1874	1874
15°	1781	1779	1769	1769	1768
25°	1636	1623	1595	1597	1601
35°	1434	1403	1376	1369	1382
45°	1176	1131	1098	1087	1097
55°	867	810	764	750	759
65°	405	360	3	08	233
75°	44	42	32	31	27
85°	11	12	12	10	8
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1418	14.3	33.7
0-40	2285	23.1	54.3
0-60	3836	38.7	91.2
0-90	4206	42.5	100.0
90-120	0	0.0	0.0
0-180	4206	42.5	100.0

