

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830478

Luminaire Tested: **OHBL-48HE-MFL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MFL-UNV-L750-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

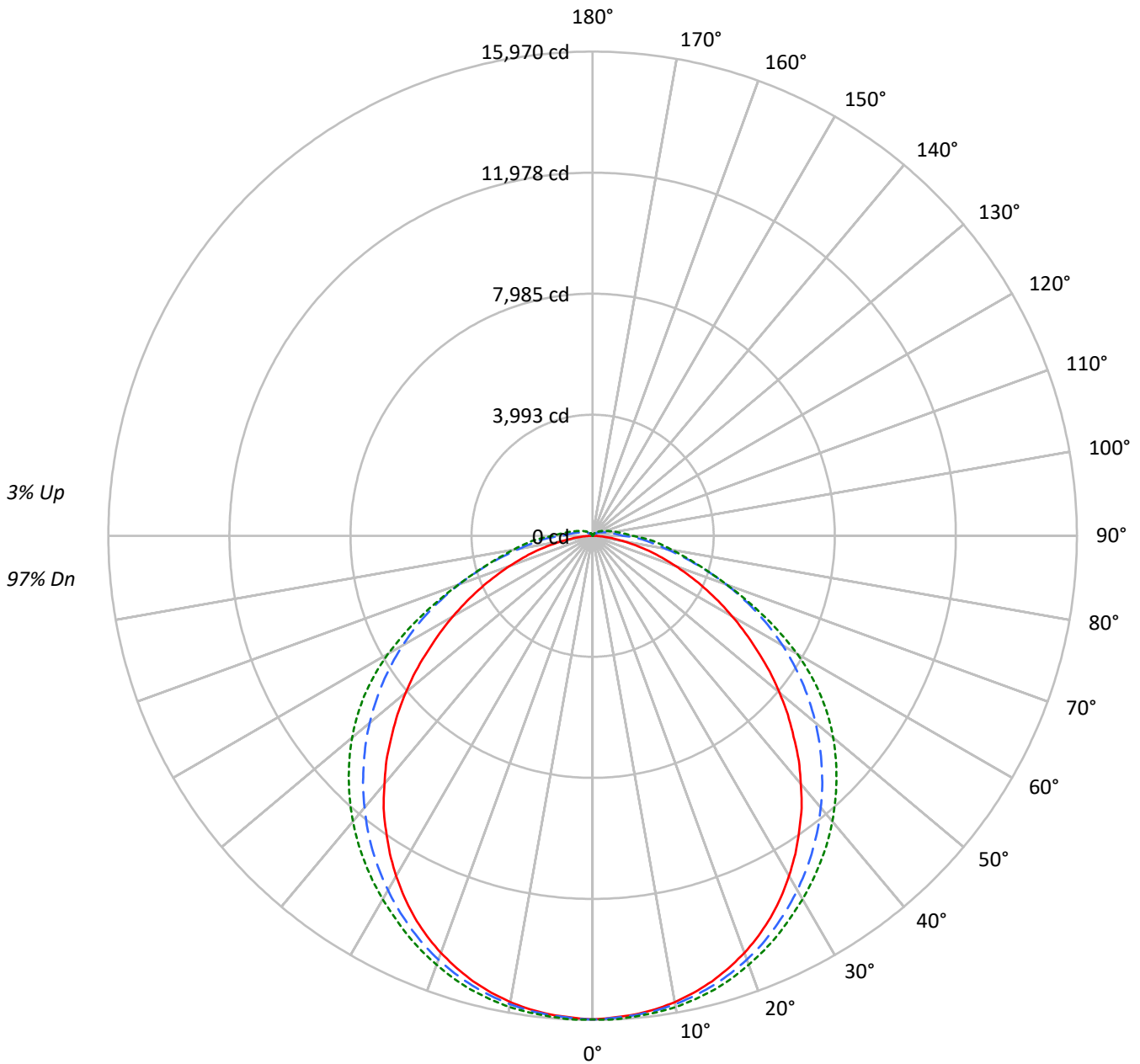
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47749.0 lumens
Efficiency: N/A
Efficacy: 179.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P830478
CATALOG NUMBER: OHBL-48HE-MFL-UNV-L750-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25232	25232	25232
5°	25070	24993	25069
10°	24894	24772	24938
15°	24616	24509	24765
20°	24247	24186	24513
25°	23754	23784	24258
30°	23072	23347	24001
35°	22245	22883	23780
40°	21253	22347	23561
45°	20082	21763	23283
50°	18802	21174	22945
55°	17228	20453	22373
60°	15616	19603	21233
65°	13857	18517	19358
70°	11950	17134	17329
75°	10019	15535	15958
80°	7595	14379	15831
85°	4806	14946	17691



TEST NUMBER: P830478

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L750-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1511.8	3.2
10°-20°	4337.1	9.1
20°-30°	6559.0	13.7
30°-40°	7874.2	16.5
40°-50°	8132.7	17.0
50°-60°	7316.9	15.3
60°-70°	5511.7	11.5
70°-80°	3328.2	7.0
80°-90°	1627.7	3.4
90°-100°	685.2	1.4
100°-110°	391.1	0.8
110°-120°	229.6	0.5
120°-130°	129.8	0.3
130°-140°	68.4	0.1
140°-150°	33.2	0.1
150°-160°	12.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12407.9	26.0
0°-40°	20282.0	42.5
0°-60°	35731.7	74.8
0°-90°	46199.3	96.8
90°-120°	1305.8	2.7
90°-150°	1537.3	3.2
90°-180°	1550.0	3.2
0°-180°	47749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15954	15954	15954	15954	15954	
5°	15853	15896	15876	15939	15919	###
15°	15213	15287	15357	15486	15502	4289
25°	13893	14045	14244	14467	14502	6390
35°	11878	12155	12655	13038	13116	7425
45°	9375	9848	10671	11253	11374	7238
55°	6642	7329	8442	9078	9188	5955
65°	4053	4881	5974	6271	6201	4027
75°	1909	2741	3460	3549	3514	2037
85°	398	1050	1734	1972	2007	460
90°	0	410	992	1250	1300	25
95°	20	277	742	945	980	16
105°	27	160	430	562	586	27
115°	31	90	266	355	371	32
125°	31	43	160	230	242	28
135°	27	35	82	141	156	21
145°	39	35	39	70	82	23
155°	39	43	39	35	39	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830478

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15954.5	15954.5	15954.5	15954.5	15954.5
2.5°	15907.6	15946.7	15923.2	15974.0	15970.1
5°	15852.9	15895.9	15876.4	15938.8	15919.3
7.5°	15759.2	15806.1	15802.2	15872.5	15864.7
10°	15622.6	15673.3	15688.9	15782.7	15782.7
12.5°	15435.1	15501.5	15540.6	15653.8	15657.7
15°	15212.6	15286.8	15357.0	15485.9	15501.5
17.5°	14943.2	15036.9	15134.5	15282.9	15302.4
20°	14638.6	14744.0	14876.8	15033.0	15056.4
22.5°	14287.2	14412.1	14583.9	14767.4	14794.8
25°	13892.8	14045.1	14244.2	14466.8	14501.9
27.5°	13443.8	13619.5	13888.9	14138.8	14170.0
30°	12955.7	13162.6	13498.4	13795.2	13845.9
32.5°	12440.3	12678.4	13092.3	13424.2	13494.5
35°	11878.0	12155.2	12655.0	13037.7	13115.8
37.5°	11323.5	11628.1	12194.3	12631.6	12725.3
40°	10675.4	11054.1	11702.3	12186.5	12299.7
42.5°	10066.2	10476.2	11210.3	11737.4	11846.8
45°	9375.1	9847.6	10671.4	11253.2	11374.3
47.5°	8726.9	9238.4	10152.1	10753.4	10878.4
50°	8043.6	8605.9	9597.7	10226.3	10355.2
52.5°	7360.3	7965.5	9023.7	9675.8	9796.8
55°	6641.8	7329.1	8441.9	9078.3	9187.7
57.5°	5974.1	6700.4	7844.5	8449.7	8516.1
60°	5314.2	6067.8	7235.3	7766.4	7789.8
62.5°	4670.0	5462.6	6610.6	7032.3	7001.1
65°	4053.0	4880.8	5974.1	6270.9	6200.6
67.5°	3459.5	4314.7	5322.1	5513.4	5419.7
70°	2897.3	3764.1	4689.5	4787.1	4701.2
72.5°	2401.4	3240.9	4049.1	4131.1	4068.7
75°	1909.4	2741.1	3459.5	3549.3	3514.2
77.5°	1448.6	2256.9	2916.8	3033.9	3041.7
80°	1042.5	1815.7	2444.3	2627.8	2651.3
82.5°	687.2	1409.6	2049.9	2284.2	2319.4
85°	398.3	1050.4	1733.7	1971.9	2007.0
87.5°	171.8	757.5	1394.0	1608.7	1651.7
90°	0.0	410.0	991.8	1249.5	1300.3
92.5°	11.7	339.7	851.2	1085.5	1128.4
95°	19.5	277.2	741.9	944.9	980.1
97.5°	23.4	234.3	644.3	823.9	859.0
100°	23.4	203.0	558.4	722.4	753.6
102.5°	23.4	179.6	488.1	632.6	659.9
105°	27.3	160.1	429.5	562.3	585.7



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CATALOG NUMBER: OHBL-48HE-MFL-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.2	105.4	296.8	398.3	413.9
115°	31.2	89.8	265.5	355.3	370.9
117.5°	35.1	78.1	234.3	320.2	331.9
120°	35.1	66.4	206.9	285.0	300.7
122.5°	35.1	54.7	183.5	257.7	269.4
125°	31.2	43.0	160.1	230.4	242.1
127.5°	27.3	35.1	136.7	206.9	218.7
130°	27.3	31.2	117.1	183.5	195.2
132.5°	27.3	35.1	97.6	160.1	175.7
135°	27.3	35.1	82.0	140.6	156.2
137.5°	27.3	35.1	66.4	121.0	136.7
140°	31.2	35.1	54.7	101.5	117.1
142.5°	35.1	35.1	43.0	85.9	97.6
145°	39.0	35.1	39.0	70.3	82.0
147.5°	39.0	39.0	39.0	54.7	66.4
150°	39.0	43.0	39.0	43.0	54.7
152.5°	39.0	43.0	39.0	35.1	43.0
155°	39.0	43.0	39.0	35.1	39.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	27.3	140.6	378.8	499.8	519.3
110°	27.3	124.9	335.8	445.1	464.7



(END OF REPORT)