

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: P830550

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830550
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-48SE-MFL-UNV-L750-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

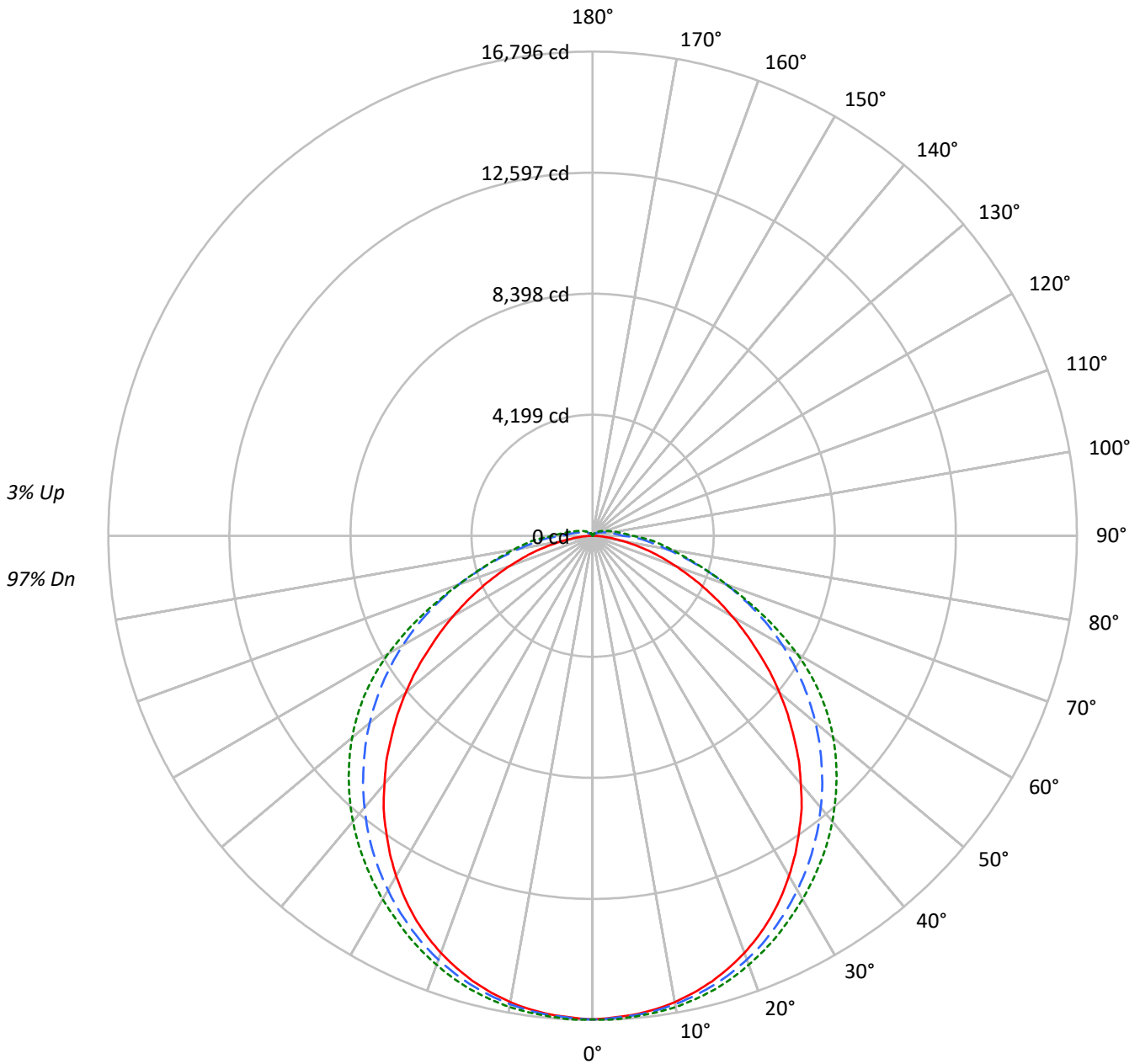
Lumens per Lamp: N/A
Luminaire Lumens: 50220.0 lumens
Efficiency: N/A
Efficacy: 173.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
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: P830550

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

Luminous Intensity Polar Plot





TEST NUMBER: P830550

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28660	28660	28660
5°	28477	28376	28457
10°	28277	28113	28290
15°	27961	27801	28076
20°	27542	27422	27772
25°	26982	26953	27463
30°	26207	26444	27152
35°	25268	25904	26880
40°	24141	25280	26610
45°	22812	24603	26269
50°	21357	23918	25857
55°	19569	23080	25178
60°	17738	22095	23854
65°	15740	20840	21701
70°	13573	19243	19369
75°	11380	17396	17761
80°	8628	16025	17500
85°	5459	16507	19301



TEST NUMBER: P830550

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1590.0	3.2
10°-20°	4561.5	9.1
20°-30°	6898.5	13.7
30°-40°	8281.7	16.5
40°-50°	8553.6	17.0
50°-60°	7695.6	15.3
60°-70°	5797.0	11.5
70°-80°	3500.4	7.0
80°-90°	1712.0	3.4
90°-100°	720.6	1.4
100°-110°	411.3	0.8
110°-120°	241.5	0.5
120°-130°	136.6	0.3
130°-140°	71.9	0.1
140°-150°	35.0	0.1
150°-160°	13.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13049.9	26.0
0°-40°	21331.6	42.5
0°-60°	37580.8	74.8
0°-90°	48590.1	96.8
90°-120°	1373.4	2.7
90°-150°	1616.9	3.2
90°-180°	1630.0	3.2
0°-180°	50220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16780	16780	16780	16780	16780	
5°	16673	16718	16698	16764	16743	###
15°	16000	16078	16152	16287	16304	4511
25°	14612	14772	14981	15215	15252	6721
35°	12493	12784	13310	13712	13794	7810
45°	9860	10357	11224	11836	11963	7612
55°	6986	7708	8879	9548	9663	6263
65°	4263	5133	6283	6595	6522	4235
75°	2008	2883	3639	3733	3696	2142
85°	419	1105	1823	2074	2111	484
90°	0	431	1043	1314	1368	26
95°	20	292	780	994	1031	17
105°	29	168	452	591	616	29
115°	33	94	279	374	390	34
125°	33	45	168	242	255	30
135°	29	37	86	148	164	23
145°	41	37	41	74	86	24
155°	41	45	41	37	41	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830550

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16780.1	16780.1	16780.1	16780.1	16780.1
2.5°	16730.8	16771.9	16747.2	16800.6	16796.5
5°	16673.3	16718.5	16698.0	16763.7	16743.1
7.5°	16574.8	16624.0	16619.9	16693.9	16685.6
10°	16431.0	16484.4	16500.8	16599.4	16599.4
12.5°	16233.9	16303.7	16344.8	16463.9	16468.0
15°	15999.8	16077.8	16151.8	16287.3	16303.7
17.5°	15716.5	15815.0	15917.7	16073.7	16094.3
20°	15396.1	15507.0	15646.6	15810.9	15835.6
22.5°	15026.5	15157.9	15338.6	15531.7	15560.4
25°	14611.7	14771.9	14981.4	15215.4	15252.4
27.5°	14139.5	14324.3	14607.6	14870.5	14903.3
30°	13626.1	13843.8	14197.0	14509.1	14562.5
32.5°	13084.0	13334.6	13769.9	14118.9	14192.9
35°	12492.7	12784.3	13309.9	13712.4	13794.5
37.5°	11909.5	12229.8	12825.3	13285.3	13383.8
40°	11227.8	11626.2	12307.9	12817.1	12936.2
42.5°	10587.2	11018.4	11790.4	12344.8	12459.8
45°	9860.3	10357.2	11223.7	11835.6	11962.9
47.5°	9178.5	9716.5	10677.5	11309.9	11441.4
50°	8459.9	9051.2	10094.3	10755.5	10891.0
52.5°	7741.2	8377.7	9490.7	10176.5	10303.8
55°	6985.5	7708.3	8878.8	9548.1	9663.1
57.5°	6283.3	7047.1	8250.4	8887.0	8956.8
60°	5589.3	6381.9	7609.8	8168.3	8192.9
62.5°	4911.6	5745.3	6952.7	7396.2	7363.4
65°	4262.8	5133.4	6283.3	6595.4	6521.5
67.5°	3638.6	4537.9	5597.5	5798.7	5700.1
70°	3047.2	3958.9	4932.2	5034.9	4944.5
72.5°	2525.6	3408.6	4258.7	4344.9	4279.2
75°	2008.2	2882.9	3638.6	3733.0	3696.1
77.5°	1523.6	2373.7	3067.7	3190.9	3199.1
80°	1096.5	1909.6	2570.8	2763.8	2788.5
82.5°	722.8	1482.5	2156.0	2402.4	2439.4
85°	418.9	1104.7	1823.4	2073.9	2110.9
87.5°	180.7	796.7	1466.1	1692.0	1737.1
90°	0.0	431.2	1043.1	1314.2	1367.5
92.5°	12.3	357.3	895.3	1141.7	1186.8
95°	20.5	291.6	780.3	993.8	1030.8
97.5°	24.6	246.4	677.6	866.5	903.5
100°	24.6	213.5	587.3	759.7	792.6
102.5°	24.6	188.9	513.3	665.3	694.0
105°	28.7	168.4	451.7	591.4	616.0



TEST NUMBER: P830550

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.9	110.9	312.1	418.9	435.3
115°	32.9	94.5	279.3	373.7	390.1
117.5°	37.0	82.1	246.4	336.8	349.1
120°	37.0	69.8	217.7	299.8	316.2
122.5°	37.0	57.5	193.0	271.0	283.4
125°	32.9	45.2	168.4	242.3	254.6
127.5°	28.7	37.0	143.7	217.7	230.0
130°	28.7	32.9	123.2	193.0	205.3
132.5°	28.7	37.0	102.7	168.4	184.8
135°	28.7	37.0	86.2	147.8	164.3
137.5°	28.7	37.0	69.8	127.3	143.7
140°	32.9	37.0	57.5	106.8	123.2
142.5°	37.0	37.0	45.2	90.3	102.7
145°	41.1	37.0	41.1	73.9	86.2
147.5°	41.1	41.1	41.1	57.5	69.8
150°	41.1	45.2	41.1	45.2	57.5
152.5°	41.1	45.2	41.1	37.0	45.2
155°	41.1	45.2	41.1	37.0	41.1
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°	28.7	147.8	398.4	525.7	546.2
110°	28.7	131.4	353.2	468.2	488.7



(END OF REPORT)