

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: P830482

Luminaire Tested: **OHBL-48HE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830482
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-L850-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

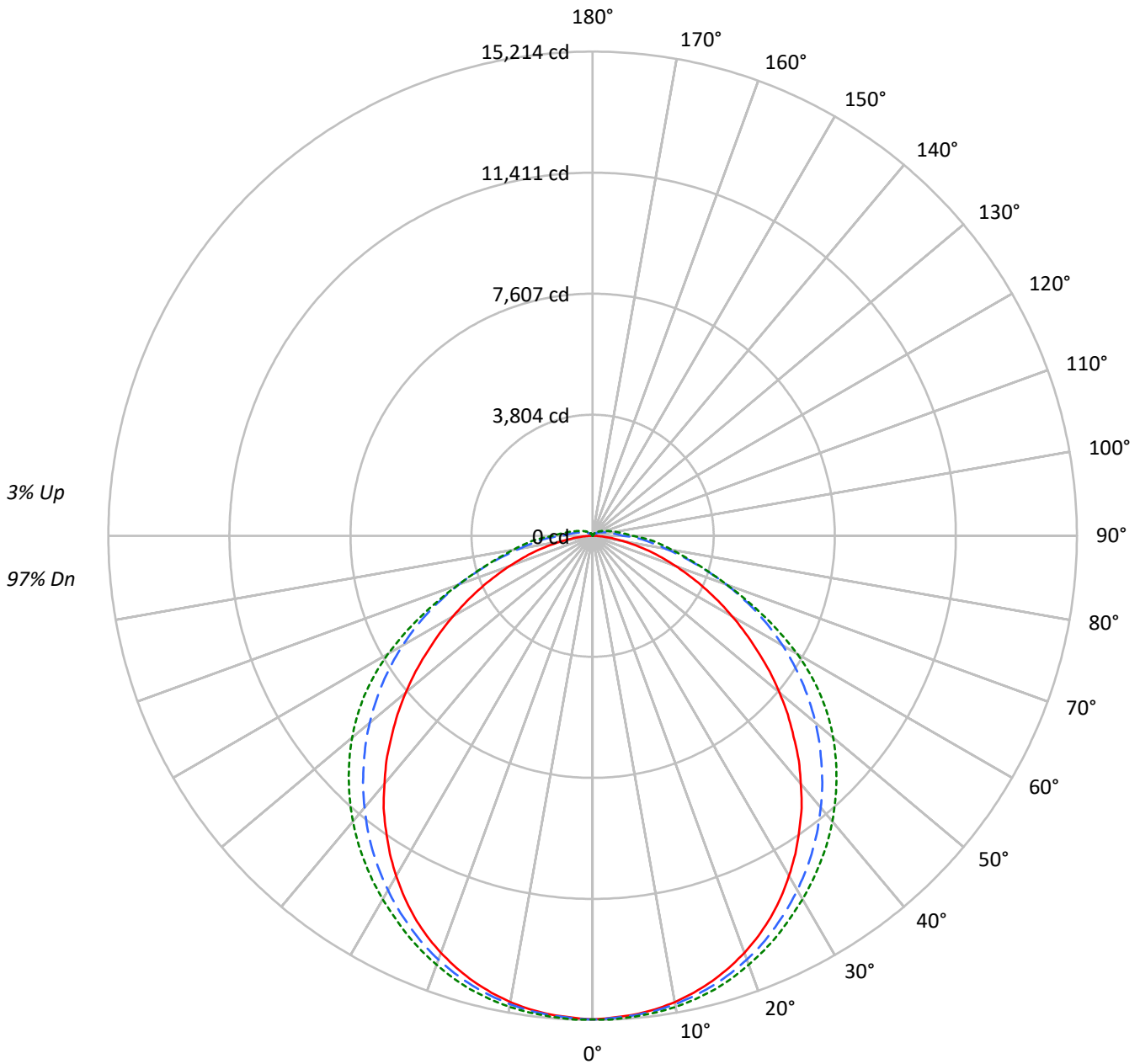
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45487.0 lumens
Efficiency: N/A
Efficacy: 171.0 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	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	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	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	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	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	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	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	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24036	24036	24036
5°	23882	23809	23882
10°	23715	23599	23756
15°	23450	23348	23592
20°	23099	23040	23352
25°	22629	22657	23109
30°	21978	22241	22864
35°	21191	21799	22653
40°	20246	21288	22445
45°	19131	20732	22180
50°	17912	20171	21858
55°	16412	19484	21313
60°	14876	18674	20227
65°	13200	17640	18442
70°	11383	16322	16508
75°	9544	14799	15202
80°	7236	13698	15081
85°	4578	14237	16853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1440.2	3.2
10°-20°	4131.6	9.1
20°-30°	6248.3	13.7
30°-40°	7501.2	16.5
40°-50°	7747.5	17.0
50°-60°	6970.3	15.3
60°-70°	5250.6	11.5
70°-80°	3170.5	7.0
80°-90°	1550.6	3.4
90°-100°	652.7	1.4
100°-110°	372.6	0.8
110°-120°	218.7	0.5
120°-130°	123.7	0.3
130°-140°	65.1	0.1
140°-150°	31.7	0.1
150°-160°	11.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11820.1	26.0
0°-40°	19321.2	42.5
0°-60°	34039.0	74.8
0°-90°	44010.7	96.8
90°-120°	1244.0	2.7
90°-150°	1464.5	3.2
90°-180°	1476.0	3.2
0°-180°	45487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15199	15199	15199	15199	15199	
5°	15102	15143	15124	15184	15165	###
15°	14492	14563	14630	14752	14767	4086
25°	13235	13380	13569	13782	13815	6088
35°	11315	11579	12056	12420	12494	7074
45°	8931	9381	10166	10720	10836	6895
55°	6327	6982	8042	8648	8752	5673
65°	3861	4650	5691	5974	5907	3836
75°	1819	2611	3296	3381	3348	1940
85°	379	1001	1652	1878	1912	438
90°	0	391	945	1190	1239	24
95°	19	264	707	900	934	16
105°	26	152	409	536	558	26
115°	30	86	253	338	353	30
125°	30	41	152	220	231	27
135°	26	34	78	134	149	20
145°	37	34	37	67	78	22
155°	37	41	37	34	37	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15198.7	15198.7	15198.7	15198.7	15198.7
2.5°	15154.0	15191.2	15168.9	15217.3	15213.5
5°	15101.9	15142.9	15124.3	15183.8	15165.2
7.5°	15012.7	15057.3	15053.6	15120.5	15113.1
10°	14882.5	14930.8	14945.7	15035.0	15035.0
12.5°	14703.9	14767.2	14804.4	14912.2	14916.0
15°	14491.9	14562.6	14629.5	14752.3	14767.2
17.5°	14235.3	14324.5	14417.5	14558.9	14577.5
20°	13945.1	14045.6	14172.0	14320.8	14343.1
22.5°	13610.3	13729.4	13893.0	14067.9	14093.9
25°	13234.7	13379.7	13569.4	13781.5	13814.9
27.5°	12806.9	12974.3	13230.9	13469.0	13498.8
30°	12341.9	12539.1	12859.0	13141.7	13190.0
32.5°	11850.9	12077.8	12472.1	12788.3	12855.2
35°	11315.3	11579.4	12055.5	12420.0	12494.4
37.5°	10787.1	11077.2	11616.6	12033.2	12122.5
40°	10169.6	10530.4	11147.9	11609.2	11717.0
42.5°	9589.4	9979.9	10679.2	11181.4	11285.5
45°	8931.0	9381.1	10165.9	10720.1	10835.5
47.5°	8313.5	8800.8	9671.2	10244.0	10363.1
50°	7662.6	8198.2	9143.0	9741.9	9864.6
52.5°	7011.6	7588.2	8596.2	9217.4	9332.7
55°	6327.2	6981.9	8042.0	8648.3	8752.4
57.5°	5691.1	6383.0	7472.9	8049.4	8112.6
60°	5062.5	5780.4	6892.6	7398.5	7420.8
62.5°	4448.7	5203.8	6297.4	6699.2	6669.4
65°	3861.0	4649.6	5691.1	5973.8	5906.9
67.5°	3295.6	4110.3	5069.9	5252.2	5162.9
70°	2760.0	3585.8	4467.3	4560.3	4478.5
72.5°	2287.6	3087.3	3857.3	3935.4	3875.9
75°	1818.9	2611.2	3295.6	3381.2	3347.7
77.5°	1380.0	2150.0	2778.6	2890.2	2897.6
80°	993.2	1729.7	2328.5	2503.4	2525.7
82.5°	654.7	1342.8	1952.8	2176.0	2209.5
85°	379.4	1000.6	1651.5	1878.4	1911.9
87.5°	163.7	721.6	1327.9	1532.5	1573.4
90°	0.0	390.6	944.8	1190.3	1238.7
92.5°	11.2	323.6	810.9	1034.1	1075.0
95°	18.6	264.1	706.7	900.2	933.6
97.5°	22.3	223.2	613.7	784.9	818.3
100°	22.3	193.4	531.9	688.1	717.9
102.5°	22.3	171.1	465.0	602.6	628.6
105°	26.0	152.5	409.2	535.6	558.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.8	100.4	282.7	379.4	394.3
115°	29.8	85.6	252.9	338.5	353.4
117.5°	33.5	74.4	223.2	305.0	316.2
120°	33.5	63.2	197.1	271.5	286.4
122.5°	33.5	52.1	174.8	245.5	256.7
125°	29.8	40.9	152.5	219.5	230.6
127.5°	26.0	33.5	130.2	197.1	208.3
130°	26.0	29.8	111.6	174.8	186.0
132.5°	26.0	33.5	93.0	152.5	167.4
135°	26.0	33.5	78.1	133.9	148.8
137.5°	26.0	33.5	63.2	115.3	130.2
140°	29.8	33.5	52.1	96.7	111.6
142.5°	33.5	33.5	40.9	81.8	93.0
145°	37.2	33.5	37.2	67.0	78.1
147.5°	37.2	37.2	37.2	52.1	63.2
150°	37.2	40.9	37.2	40.9	52.1
152.5°	37.2	40.9	37.2	33.5	40.9
155°	37.2	40.9	37.2	33.5	37.2
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°	26.0	133.9	360.8	476.1	494.7
110°	26.0	119.0	319.9	424.0	442.6



(END OF REPORT)