

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: P828418

Luminaire Tested: **OHBL-48SE-MCL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828418
REPORT IS A COMBINATION OF REPORTS P826258 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-MCL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

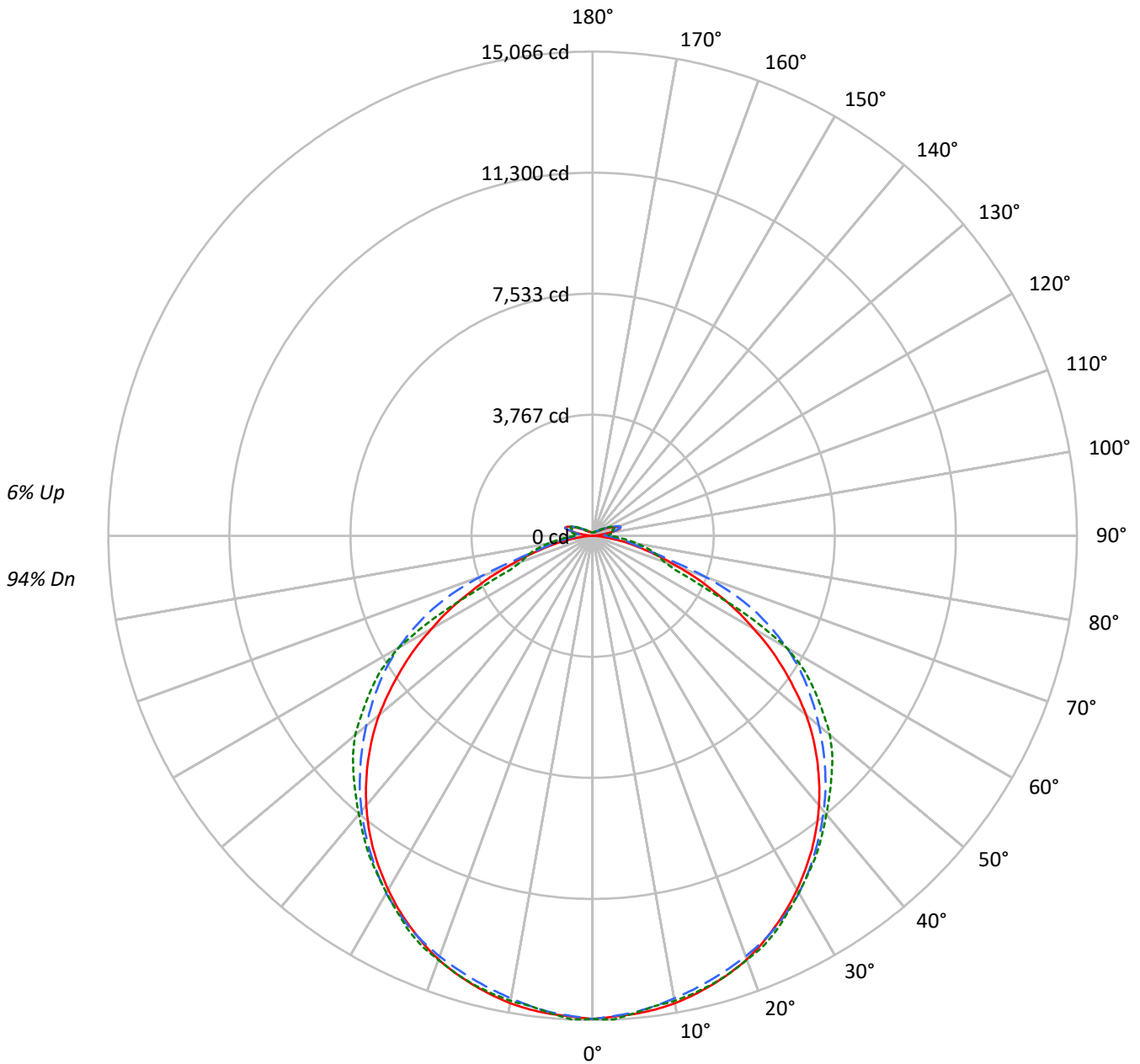
Lumens per Lamp: N/A
Luminaire Lumens: 44601.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
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									
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	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	80																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	57	52	60	55	51	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	65	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25680	25680	25680
5°	25389	25296	25468
10°	25172	24901	25292
15°	24889	24603	25231
20°	24603	24412	25120
25°	24176	24218	25014
30°	23717	23920	24665
35°	23189	23453	24536
40°	22538	22970	24325
45°	21687	22413	24333
50°	20584	21779	24335
55°	18937	21153	23655
60°	16843	20243	22134
65°	14194	18574	14248
70°	11157	14470	10555
75°	8065	8565	11063
80°	5281	7088	11154
85°	2644	6436	11728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1417.7	3.2
10°-20°	4065.3	9.1
20°-30°	6209.0	13.9
30°-40°	7533.6	16.9
40°-50°	7895.9	17.7
50°-60°	7154.9	16.0
60°-70°	4797.1	10.8
70°-80°	2154.1	4.8
80°-90°	787.1	1.8
90°-100°	436.9	1.0
100°-110°	810.8	1.8
110°-120°	655.9	1.5
120°-130°	318.7	0.7
130°-140°	165.2	0.4
140°-150°	97.7	0.2
150°-160°	59.2	0.1
160°-170°	32.0	0.1
170°-180°	9.8	0.0
0°-30°	11692.0	26.2
0°-40°	19225.6	43.1
0°-60°	34276.4	76.9
0°-90°	42014.7	94.2
90°-120°	1903.6	4.3
90°-150°	2485.2	5.6
90°-180°	2586.0	5.8
0°-180°	44601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15035	15035	15035	15035	15035	
5°	14938	14990	14885	14931	14912	###
15°	14453	14396	14294	14420	14438	4081
25°	13427	13368	13461	13585	13546	6189
35°	11900	11929	12050	12179	12131	7438
45°	9876	10037	10224	10485	10518	7608
55°	7268	7618	8137	8463	8444	6487
65°	4265	4933	5600	4726	3859	4250
75°	1678	2435	1791	1833	1952	1834
85°	289	554	711	859	900	353
90°	6	214	408	515	543	20
95°	48	212	402	505	540	146
105°	881	912	858	672	636	838
115°	619	634	671	686	686	623
125°	309	327	355	360	360	291
135°	194	199	207	220	224	153
145°	146	151	154	157	160	93
155°	123	126	128	129	127	57
165°	111	112	113	113	113	32
175°	102	103	101	100	100	10
180°	100	100	100	100	100	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15035.4	15035.4	15035.4	15035.4	15035.4
2.5°	14974.5	15037.6	14959.3	15044.1	15065.8
5°	14937.6	14989.7	14885.3	14931.1	14911.5
7.5°	14870.1	14887.5	14763.6	14800.6	14761.4
10°	14770.1	14761.4	14615.8	14687.5	14696.2
12.5°	14622.3	14596.2	14465.8	14574.5	14576.7
15°	14452.8	14396.2	14294.0	14420.2	14437.6
17.5°	14257.1	14183.2	14115.8	14278.8	14252.7
20°	14028.8	13941.9	13928.8	14107.1	14041.9
22.5°	13746.2	13678.8	13709.2	13878.8	13837.5
25°	13426.6	13367.9	13461.4	13585.3	13546.2
27.5°	13089.7	13054.9	13161.4	13257.0	13181.0
30°	12720.1	12700.5	12841.8	12920.0	12824.4
32.5°	12317.9	12324.4	12459.2	12565.7	12476.6
35°	11900.4	11928.7	12050.5	12178.7	12130.9
37.5°	11441.7	11504.8	11626.6	11772.2	11722.2
40°	10956.9	11048.3	11183.1	11359.1	11313.5
42.5°	10433.0	10548.3	10722.2	10917.8	10913.4
45°	9876.5	10037.4	10224.3	10485.2	10517.8
47.5°	9298.2	9478.6	9715.6	10063.5	10113.5
50°	8669.9	8896.0	9191.7	9609.1	9639.5
52.5°	7969.8	8278.6	8669.9	9070.0	9032.9
55°	7267.7	7617.7	8137.3	8463.3	8443.8
57.5°	6567.6	6961.1	7591.6	7824.2	7822.0
60°	5785.0	6282.9	6972.0	7148.1	6974.2
62.5°	5061.0	5595.8	6311.1	6182.9	5587.1
65°	4265.4	4932.8	5600.2	4726.3	3858.9
67.5°	3558.8	4254.5	4756.7	3237.1	2771.9
70°	2848.0	3615.3	3708.9	2402.3	2369.7
72.5°	2217.5	3034.9	2558.8	2056.6	2160.9
75°	1678.3	2434.9	1791.4	1832.7	1952.3
77.5°	1224.0	1869.7	1393.5	1606.6	1704.4
80°	841.4	1324.0	1137.0	1350.1	1417.5
82.5°	528.3	874.0	910.9	1087.0	1156.5
85°	289.2	554.4	710.9	858.8	900.0
87.5°	119.5	334.8	543.5	663.0	697.8
90°	6.5	214.3	408.3	514.8	542.6
92.5°	17.0	180.4	362.6	460.5	487.0
95°	48.3	211.7	401.8	504.8	539.6
97.5°	238.2	344.3	483.0	583.9	621.3
100°	486.5	585.6	587.3	647.7	662.1
102.5°	750.3	798.2	685.1	659.9	659.5
105°	880.7	912.5	857.7	672.5	636.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	717.7	743.4	772.9	772.5	749.0
115°	619.0	633.8	670.8	686.4	685.6
117.5°	532.1	537.3	573.4	585.6	590.8
120°	443.4	455.2	491.2	497.8	494.7
122.5°	374.7	385.2	414.3	423.4	420.4
125°	309.1	326.9	354.7	360.4	360.0
127.5°	266.0	277.4	303.4	310.8	312.1
130°	233.9	243.0	262.6	272.1	273.0
132.5°	211.7	220.0	232.6	244.7	243.9
135°	193.5	199.1	207.4	220.0	223.9
137.5°	180.8	183.5	188.7	202.1	204.3
140°	167.8	171.3	173.5	183.9	186.9
142.5°	154.3	160.0	161.3	169.5	171.7
145°	145.6	151.3	153.9	156.9	160.0
147.5°	140.0	143.5	145.2	146.9	149.1
150°	133.9	135.6	138.2	139.1	140.0
152.5°	127.8	129.5	132.2	133.0	133.0
155°	122.6	126.5	128.2	129.1	126.9
157.5°	118.2	122.2	123.9	124.8	124.8
160°	114.8	117.8	119.5	120.4	120.4
162.5°	113.5	114.3	115.2	116.1	116.1
165°	110.9	111.7	112.6	112.6	112.6
167.5°	108.2	110.4	109.1	110.0	110.0
170°	105.6	106.5	106.5	105.2	105.2
172.5°	103.9	104.8	104.8	102.6	103.5
175°	102.2	103.0	100.9	99.6	99.6
177.5°	104.3	102.2	100.0	97.8	95.6
180°	100.0	100.0	100.0	100.0	100.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	886.4	920.3	917.7	762.1	660.3
110°	820.8	850.3	865.5	818.1	737.3



(END OF REPORT)