

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: P830697

Luminaire Tested: **OHBL-60SE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830697  
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-60SE-MFL-UNV-L840-CD  
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

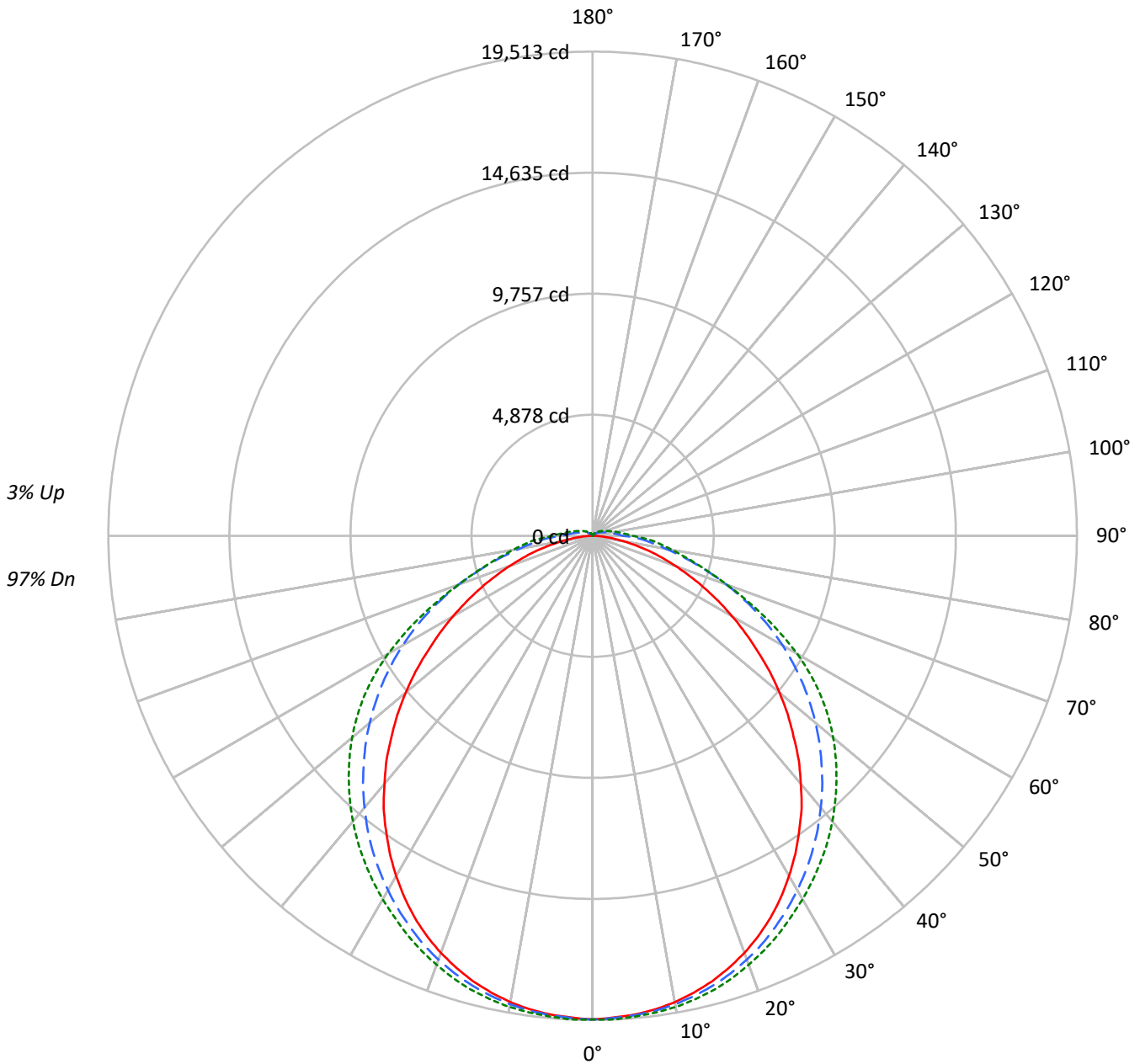
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58341.0 lumens  
Efficiency: N/A  
Efficacy: 161.2 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): 362  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	33295	33295	33295
5°	33082	32965	33059
10°	32850	32659	32865
15°	32483	32297	32617
20°	31996	31857	32263
25°	31345	31311	31904
30°	30444	30720	31543
35°	29354	30093	31227
40°	28044	29368	30913
45°	26500	28582	30516
50°	24811	27786	30038
55°	22734	26813	29250
60°	20607	25668	27712
65°	18285	24210	25211
70°	15768	22355	22502
75°	13220	20209	20633
80°	10023	18617	20330
85°	6341	19176	22422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1847.1	3.2
10°-20°	5299.1	9.1
20°-30°	8014.0	13.7
30°-40°	9620.9	16.5
40°-50°	9936.8	17.0
50°-60°	8940.0	15.3
60°-70°	6734.4	11.5
70°-80°	4066.4	7.0
80°-90°	1988.8	3.4
90°-100°	837.1	1.4
100°-110°	477.9	0.8
110°-120°	280.5	0.5
120°-130°	158.7	0.3
130°-140°	83.5	0.1
140°-150°	40.6	0.1
150°-160°	15.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	15160.2	26.0
0°-40°	24781.1	42.5
0°-60°	43658.0	74.8
0°-90°	56447.6	96.8
90°-120°	1595.5	2.7
90°-150°	1878.3	3.2
90°-180°	1893.0	3.2
0°-180°	58341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19494	19494	19494	19494	19494	
5°	19370	19422	19398	19474	19451	###
15°	18587	18678	18764	18921	18940	5240
25°	16975	17161	17404	17676	17719	7808
35°	14513	14852	15462	15930	16025	9073
45°	11455	12032	13039	13750	13897	8843
55°	8115	8955	10314	11092	11226	7276
65°	4952	5964	7299	7662	7576	4920
75°	2333	3349	4227	4337	4294	2489
85°	487	1283	2118	2409	2452	562
90°	0	501	1212	1527	1589	31
95°	24	339	906	1154	1198	20
105°	33	196	525	687	716	33
115°	38	110	324	434	453	39
125°	38	52	196	282	296	34
135°	33	43	100	172	191	26
145°	48	43	48	86	100	28
155°	48	52	48	43	48	15
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°	19493.6	19493.6	19493.6	19493.6	19493.6
2.5°	19436.3	19484.0	19455.4	19517.4	19512.7
5°	19369.5	19422.0	19398.2	19474.5	19450.6
7.5°	19255.0	19312.3	19307.5	19393.4	19383.9
10°	19088.1	19150.1	19169.2	19283.7	19283.7
12.5°	18859.1	18940.2	18987.9	19126.2	19131.0
15°	18587.1	18677.8	18763.6	18921.1	18940.2
17.5°	18257.9	18372.4	18491.7	18673.0	18696.9
20°	17885.8	18014.6	18176.8	18367.7	18396.3
22.5°	17456.4	17609.1	17819.0	18043.3	18076.6
25°	16974.6	17160.7	17404.0	17675.9	17718.8
27.5°	16425.9	16640.6	16969.8	17275.2	17313.3
30°	15829.6	16082.4	16492.7	16855.3	16917.3
32.5°	15199.8	15490.9	15996.6	16402.1	16488.0
35°	14512.8	14851.6	15462.2	15929.8	16025.2
37.5°	13835.4	14207.5	14899.3	15433.6	15548.1
40°	13043.4	13506.2	14298.2	14889.7	15028.1
42.5°	12299.2	12800.1	13697.0	14341.1	14474.7
45°	11454.7	12032.0	13038.7	13749.5	13897.4
47.5°	10662.8	11287.8	12404.1	13138.8	13291.5
50°	9827.9	10514.9	11726.7	12494.8	12652.2
52.5°	8993.0	9732.5	11025.4	11822.1	11970.0
55°	8115.2	8954.8	10314.5	11092.2	11225.7
57.5°	7299.4	8186.7	9584.6	10324.1	10405.2
60°	6493.1	7413.9	8840.3	9489.2	9517.8
62.5°	5705.9	6674.4	8077.0	8592.3	8554.1
65°	4952.1	5963.5	7299.4	7661.9	7576.1
67.5°	4226.9	5271.8	6502.6	6736.4	6621.9
70°	3540.0	4599.1	5729.8	5849.0	5744.1
72.5°	2934.1	3959.8	4947.3	5047.5	4971.2
75°	2332.9	3349.1	4226.9	4336.7	4293.7
77.5°	1770.0	2757.5	3563.8	3706.9	3716.5
80°	1273.8	2218.4	2986.5	3210.8	3239.4
82.5°	839.7	1722.3	2504.7	2790.9	2833.9
85°	486.6	1283.4	2118.2	2409.3	2452.2
87.5°	209.9	925.5	1703.2	1965.6	2018.1
90°	0.0	500.9	1211.8	1526.7	1588.7
92.5°	14.3	415.1	1040.0	1326.3	1378.8
95°	23.9	338.7	906.5	1154.5	1197.5
97.5°	28.6	286.2	787.2	1006.6	1049.6
100°	28.6	248.1	682.2	882.6	920.8
102.5°	28.6	219.5	596.4	772.9	806.3
105°	33.4	195.6	524.8	687.0	715.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	38.2	128.8	362.6	486.6	505.7
115°	38.2	109.7	324.4	434.1	453.2
117.5°	42.9	95.4	286.2	391.2	405.5
120°	42.9	81.1	252.9	348.3	367.4
122.5°	42.9	66.8	224.2	314.9	329.2
125°	38.2	52.5	195.6	281.5	295.8
127.5°	33.4	42.9	167.0	252.9	267.2
130°	33.4	38.2	143.1	224.2	238.5
132.5°	33.4	42.9	119.3	195.6	214.7
135°	33.4	42.9	100.2	171.7	190.8
137.5°	33.4	42.9	81.1	147.9	167.0
140°	38.2	42.9	66.8	124.0	143.1
142.5°	42.9	42.9	52.5	105.0	119.3
145°	47.7	42.9	47.7	85.9	100.2
147.5°	47.7	47.7	47.7	66.8	81.1
150°	47.7	52.5	47.7	52.5	66.8
152.5°	47.7	52.5	47.7	42.9	52.5
155°	47.7	52.5	47.7	42.9	47.7
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°	33.4	171.7	462.8	610.7	634.5
110°	33.4	152.7	410.3	543.9	567.7



(END OF REPORT)