

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: P830721

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-60SE-NL-UNV-L840-CD  
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

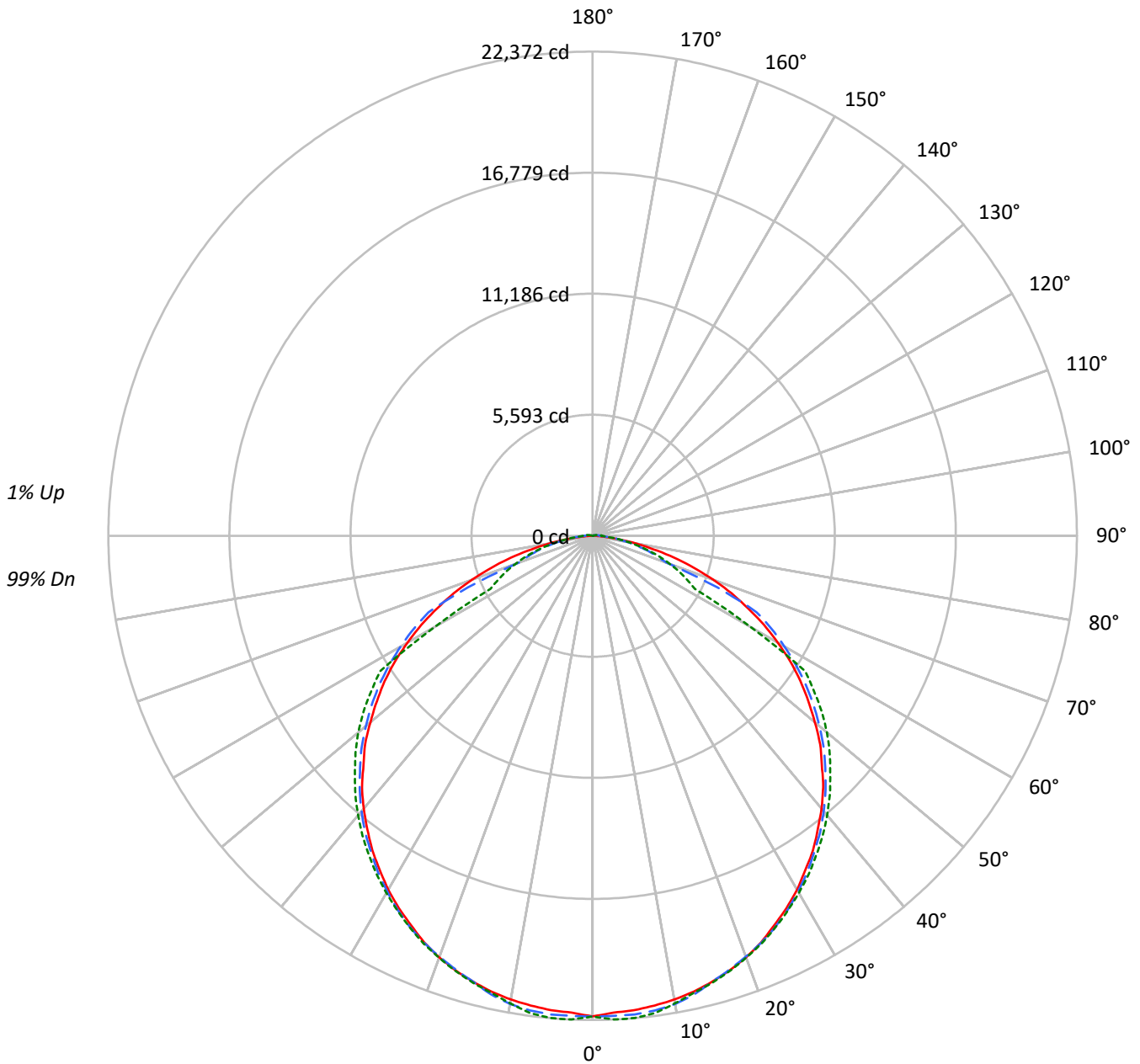
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62354.0 lumens  
Efficiency: N/A  
Efficacy: 172.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 362  
Input Voltage (V): NR  
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	37933	37933	37933
5°	37723	38064	38351
10°	37733	38092	38045
15°	37727	37720	37803
20°	37675	37619	37711
25°	37418	37609	37638
30°	37245	37437	37583
35°	37003	37206	37556
40°	36684	37032	37579
45°	36155	36701	37501
50°	35610	36336	37536
55°	34929	35834	37123
60°	33759	34957	28901
65°	31940	33797	19451
70°	29541	17942	18877
75°	25768	17050	18027
80°	19815	15640	16520
85°	10002	15807	16187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2109.9	3.4
10°-20°	6041.3	9.7
20°-30°	9192.3	14.7
30°-40°	11176.6	17.9
40°-50°	11751.7	18.8
50°-60°	10730.7	17.2
60°-70°	6878.9	11.0
70°-80°	3249.5	5.2
80°-90°	901.0	1.4
90°-100°	238.6	0.4
100°-110°	65.4	0.1
110°-120°	18.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17343.6	27.8
0°-40°	28520.2	45.7
0°-60°	51002.5	81.8
0°-90°	62031.9	99.5
90°-120°	322.1	0.5
90°-150°	322.1	0.5
90°-180°	322.0	0.5
0°-180°	62354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22209	22209	22209	22209	22209	
5°	22002	22088	22201	22322	22369	###
15°	21336	21496	21332	21363	21379	6023
25°	19855	19886	19956	19988	19972	9162
35°	17747	17642	17844	18062	18012	11091
45°	14968	14941	15194	15553	15526	11569
55°	11730	11640	12034	12435	12467	10461
65°	7903	7903	8363	4797	4813	7835
75°	3905	3979	2584	2720	2732	4116
85°	510	647	807	873	826	754
90°	0	218	358	424	417	22
95°	12	113	258	347	347	6
105°	19	43	62	62	59	19
115°	19	27	39	27	4	14
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22208.9	22208.9	22208.9	22208.9	22208.9
2.5°	22052.9	22127.2	22208.9	22314.1	22372.3
5°	22002.2	22088.0	22201.1	22321.9	22368.6
7.5°	21893.3	22013.7	22123.1	22208.9	22236.1
10°	21756.7	21901.1	21963.4	21955.6	21936.2
12.5°	21573.5	21725.8	21706.4	21616.4	21632.1
15°	21335.9	21495.5	21332.2	21363.1	21378.8
17.5°	21055.3	21211.3	21020.2	21082.5	21086.7
20°	20728.1	20844.9	20696.8	20747.5	20747.5
22.5°	20334.5	20416.2	20353.9	20389.0	20396.8
25°	19855.1	19886.1	19956.2	19987.5	19971.9
27.5°	19395.5	19356.3	19492.9	19566.7	19527.5
30°	18884.7	18822.4	18982.1	19103.0	19056.3
32.5°	18300.1	18261.3	18444.5	18588.5	18561.3
35°	17746.8	17641.6	17844.2	18062.4	18011.7
37.5°	17092.0	17029.7	17259.6	17489.8	17462.5
40°	16453.0	16347.7	16608.9	16881.6	16854.4
42.5°	15767.2	15642.2	15926.9	16254.5	16223.1
45°	14968.1	14940.8	15194.2	15552.7	15525.5
47.5°	14259.3	14122.7	14477.1	14824.1	14855.4
50°	13401.5	13351.2	13674.6	14095.5	14126.4
52.5°	12564.0	12528.9	12867.6	13292.6	13347.0
55°	11729.7	11640.2	12033.8	12435.2	12466.6
57.5°	10837.7	10744.1	11145.5	11582.0	11648.0
60°	9882.6	9793.1	10233.3	10638.8	8460.4
62.5°	8927.9	8865.6	9325.6	6605.4	5323.5
65°	7903.0	7903.0	8362.6	4797.1	4812.8
67.5°	6944.6	6882.3	6235.4	4309.8	4309.8
70°	5915.6	5939.1	3592.8	3776.4	3780.1
72.5°	4882.9	4968.7	3102.2	3249.9	3257.7
75°	3904.7	3978.9	2583.6	2720.2	2731.7
77.5°	2868.3	2205.7	2076.9	2182.6	2186.3
80°	2014.6	1391.2	1590.1	1691.2	1679.6
82.5°	1176.7	974.1	1165.1	1239.4	1235.3
85°	510.4	646.9	806.6	873.0	826.0
87.5°	163.4	401.4	502.5	541.7	537.6
90°	0.0	218.3	358.5	424.5	417.1
92.5°	0.0	171.2	311.9	389.9	393.6
95°	11.6	113.0	257.5	347.0	347.0
97.5°	7.8	81.7	183.2	272.7	280.6
100°	7.8	66.0	120.9	194.7	198.9
102.5°	19.4	54.5	73.9	124.6	128.7
105°	19.4	42.9	62.3	62.3	58.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.5	31.4	42.9	31.4	3.7
115°	19.4	27.2	38.8	27.2	3.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	19.4	38.8	54.5	35.1	11.6
110°	23.5	35.1	46.6	31.4	3.7



(END OF REPORT)