

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: P830649

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830649  
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-60HE-NL-UNV-L840-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

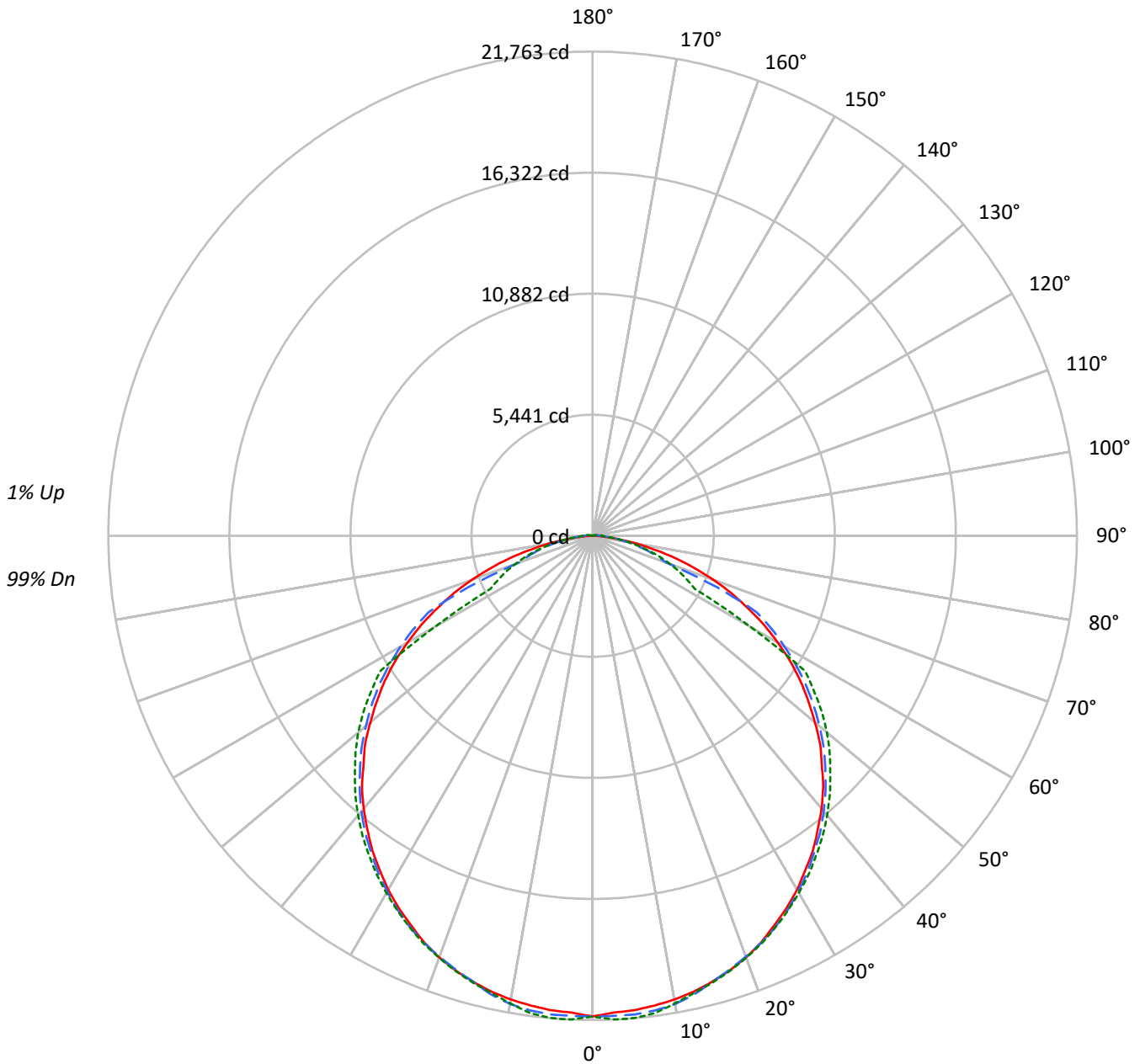
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60657.0 lumens  
Efficiency: N/A  
Efficacy: 179.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 338  
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°	34167	34167	34167
5°	33978	34285	34544
10°	33988	34311	34268
15°	33982	33976	34050
20°	33935	33884	33967
25°	33703	33875	33902
30°	33547	33720	33852
35°	33330	33513	33827
40°	33042	33355	33848
45°	32566	33057	33778
50°	32075	32729	33810
55°	31461	32277	33438
60°	30407	31487	26032
65°	28769	30442	17520
70°	26609	16161	17003
75°	23210	15357	16238
80°	17849	14087	14881
85°	9009	14237	14580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2052.5	3.4
10°-20°	5876.9	9.7
20°-30°	8942.2	14.7
30°-40°	10872.4	17.9
40°-50°	11431.8	18.8
50°-60°	10438.6	17.2
60°-70°	6691.7	11.0
70°-80°	3161.1	5.2
80°-90°	876.5	1.4
90°-100°	232.1	0.4
100°-110°	63.6	0.1
110°-120°	17.6	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°	16871.6	27.8
0°-40°	27744.0	45.7
0°-60°	49614.4	81.8
0°-90°	60343.7	99.5
90°-120°	313.3	0.5
90°-150°	313.3	0.5
90°-180°	313.0	0.5
0°-180°	60657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21604	21604	21604	21604	21604	
5°	21403	21487	21597	21714	21760	###
15°	20755	20910	20752	20782	20797	5860
25°	19315	19345	19413	19444	19428	8912
35°	17264	17162	17358	17571	17522	10789
45°	14561	14534	14781	15129	15103	11255
55°	11410	11323	11706	12097	12127	10176
65°	7688	7688	8135	4666	4682	7622
75°	3798	3871	2513	2646	2657	4004
85°	496	629	785	849	804	734
90°	0	212	349	413	406	22
95°	11	110	250	338	338	6
105°	19	42	61	61	57	19
115°	19	26	38	26	4	13
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°	21604.5	21604.5	21604.5	21604.5	21604.5
2.5°	21452.8	21525.0	21604.5	21706.8	21763.4
5°	21403.4	21486.9	21596.8	21714.4	21759.8
7.5°	21297.4	21414.6	21521.0	21604.5	21631.0
10°	21164.6	21305.1	21365.7	21358.0	21339.2
12.5°	20986.4	21134.5	21115.6	21028.1	21043.4
15°	20755.2	20910.5	20751.6	20781.7	20796.9
17.5°	20482.3	20634.0	20448.2	20508.8	20512.8
20°	20164.0	20277.6	20133.5	20182.9	20182.9
22.5°	19781.1	19860.6	19800.0	19834.1	19841.7
25°	19314.7	19344.8	19413.1	19443.6	19428.3
27.5°	18867.6	18829.5	18962.4	19034.2	18996.1
30°	18370.8	18310.2	18465.5	18583.1	18537.7
32.5°	17802.0	17764.3	17942.5	18082.6	18056.1
35°	17263.8	17161.5	17358.5	17570.9	17521.5
37.5°	16626.9	16566.3	16789.8	17013.8	16987.3
40°	16005.2	15902.8	16156.9	16422.2	16395.7
42.5°	15338.1	15216.5	15493.5	15812.1	15781.6
45°	14560.7	14534.2	14780.6	15129.4	15102.9
47.5°	13871.2	13738.3	14083.1	14420.6	14451.1
50°	13036.8	12987.8	13302.5	13711.8	13741.9
52.5°	12222.0	12187.9	12517.4	12930.8	12983.8
55°	11410.5	11323.4	11706.3	12096.8	12127.3
57.5°	10542.8	10451.6	10842.2	11266.8	11331.0
60°	9613.6	9526.5	9954.8	10349.3	8230.2
62.5°	8684.9	8624.3	9071.8	6425.7	5178.7
65°	7687.9	7687.9	8135.0	4666.5	4681.8
67.5°	6755.6	6695.0	6065.7	4192.5	4192.5
70°	5754.6	5777.5	3495.0	3673.6	3677.2
72.5°	4750.0	4833.5	3017.8	3161.5	3169.1
75°	3798.4	3870.7	2513.3	2646.1	2657.4
77.5°	2790.2	2145.6	2020.4	2123.2	2126.8
80°	1959.8	1353.4	1546.8	1645.1	1633.9
82.5°	1144.7	947.6	1133.4	1205.7	1201.7
85°	496.5	629.3	784.6	849.3	803.5
87.5°	158.9	390.5	488.8	527.0	523.0
90°	0.0	212.3	348.8	413.0	405.8
92.5°	0.0	166.6	303.4	379.3	382.9
95°	11.2	110.0	250.4	337.5	337.5
97.5°	7.6	79.5	178.2	265.3	272.9
100°	7.6	64.2	117.6	189.4	193.5
102.5°	18.9	53.0	71.8	121.2	125.2
105°	18.9	41.7	60.6	60.6	57.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.9	30.5	41.7	30.5	3.6
115°	18.9	26.5	37.7	26.5	3.6
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°	18.9	37.7	53.0	34.1	11.2
110°	22.9	34.1	45.4	30.5	3.6



(END OF REPORT)