

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: P830722

Luminaire Tested: **OHBL-60SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830722
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-L850-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

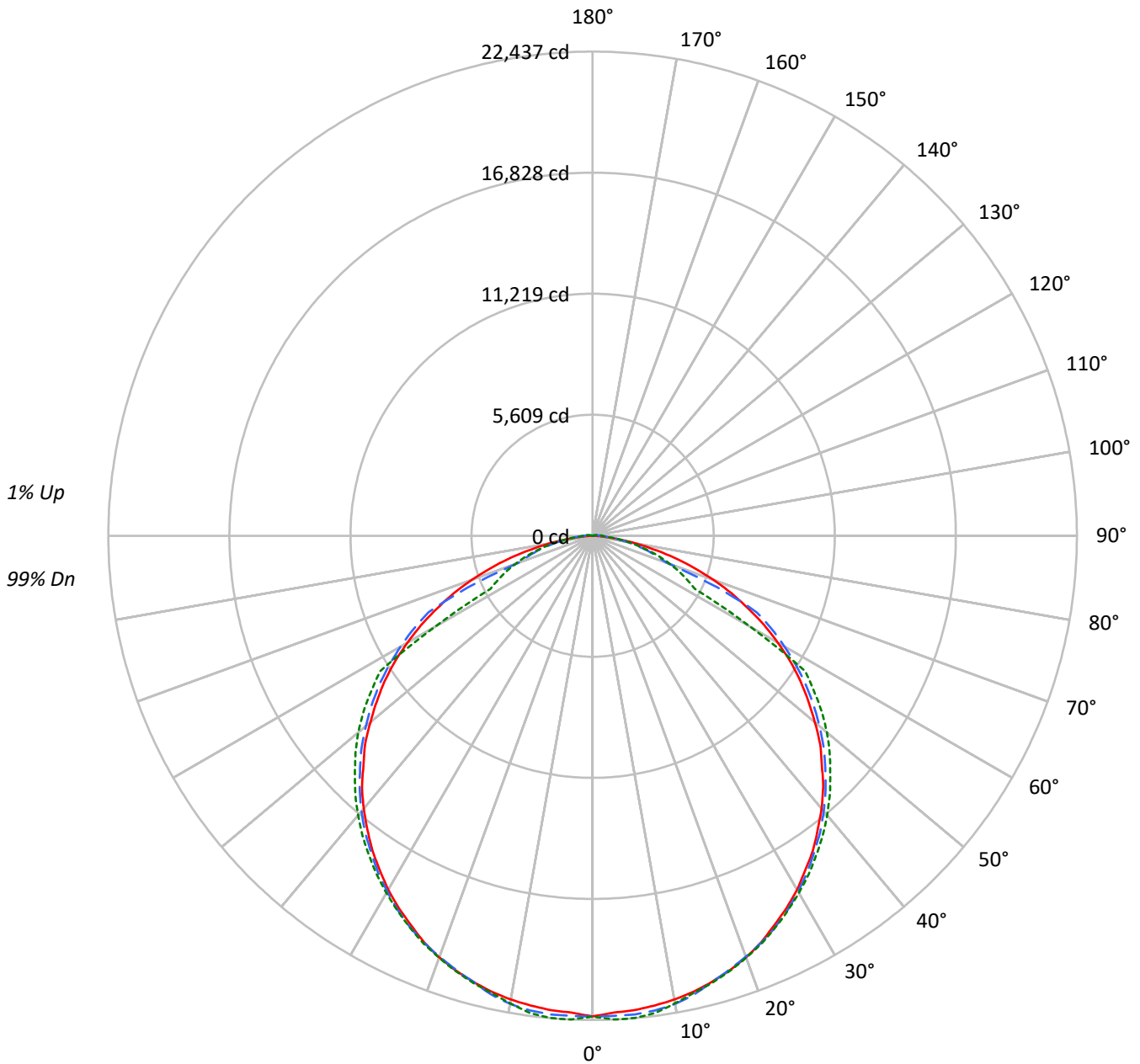
Lumens per Lamp: N/A
Luminaire Lumens: 62535.0 lumens
Efficiency: N/A
Efficacy: 172.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

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°	38043	38043	38043
5°	37833	38175	38463
10°	37843	38203	38155
15°	37836	37830	37913
20°	37785	37728	37820
25°	37527	37718	37747
30°	37353	37545	37692
35°	37111	37314	37665
40°	36790	37139	37688
45°	36260	36808	37610
50°	35713	36441	37645
55°	35030	35938	37231
60°	33857	35058	28985
65°	32033	33895	19507
70°	29627	17994	18932
75°	25842	17099	18079
80°	19873	15685	16569
85°	10030	15852	16234



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2116.0	3.4
10°-20°	6058.8	9.7
20°-30°	9219.0	14.7
30°-40°	11209.0	17.9
40°-50°	11785.8	18.8
50°-60°	10761.8	17.2
60°-70°	6898.9	11.0
70°-80°	3258.9	5.2
80°-90°	903.7	1.4
90°-100°	239.3	0.4
100°-110°	65.5	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°	17393.9	27.8
0°-40°	28602.9	45.7
0°-60°	51150.5	81.8
0°-90°	62212.0	99.5
90°-120°	323.0	0.5
90°-150°	323.0	0.5
90°-180°	323.0	0.5
0°-180°	62535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22273	22273	22273	22273	22273	
5°	22066	22152	22266	22387	22434	###
15°	21398	21558	21394	21425	21441	6041
25°	19913	19944	20014	20046	20030	9188
35°	17798	17693	17896	18115	18064	11123
45°	15012	14984	15238	15598	15570	11603
55°	11764	11674	12069	12471	12503	10491
65°	7926	7926	8387	4811	4827	7858
75°	3916	3990	2591	2728	2740	4128
85°	512	649	809	876	828	757
90°	0	219	360	426	418	22
95°	12	113	258	348	348	6
105°	19	43	62	62	59	20
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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CATALOG NUMBER: OHBL-60SE-NL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22273.4	22273.4	22273.4	22273.4	22273.4
2.5°	22116.9	22191.4	22273.4	22378.9	22437.2
5°	22066.1	22152.1	22265.5	22386.7	22433.5
7.5°	21956.8	22077.6	22187.3	22273.4	22300.7
10°	21819.9	21964.7	22027.2	22019.3	21999.8
12.5°	21636.1	21788.8	21769.4	21679.2	21694.9
15°	21397.8	21557.9	21394.1	21425.1	21440.8
17.5°	21116.4	21272.8	21081.3	21143.7	21147.9
20°	20788.3	20905.4	20756.9	20807.7	20807.7
22.5°	20393.6	20475.5	20413.0	20448.2	20456.0
25°	19912.7	19943.8	20014.1	20045.6	20029.8
27.5°	19451.8	19412.5	19549.4	19623.5	19584.2
30°	18939.5	18877.1	19037.2	19158.4	19111.7
32.5°	18353.2	18314.3	18498.0	18642.4	18615.1
35°	17798.3	17692.8	17896.0	18114.9	18064.0
37.5°	17141.7	17079.2	17309.7	17540.5	17513.2
40°	16500.7	16395.2	16657.1	16930.6	16903.3
42.5°	15813.0	15687.6	15973.1	16301.7	16270.2
45°	15011.5	14984.2	15238.3	15597.8	15570.5
47.5°	14300.6	14163.7	14519.1	14867.1	14898.6
50°	13440.4	13389.9	13714.3	14136.4	14167.4
52.5°	12600.4	12565.3	12905.0	13331.2	13385.8
55°	11763.8	11674.0	12068.7	12471.3	12502.8
57.5°	10869.2	10775.2	11177.8	11615.6	11681.8
60°	9911.3	9821.5	10263.0	10669.7	8485.0
62.5°	8953.8	8891.3	9352.7	6624.6	5339.0
65°	7926.0	7926.0	8386.9	4811.0	4826.7
67.5°	6964.7	6902.3	6253.5	4322.3	4322.3
70°	5932.8	5956.4	3603.2	3787.3	3791.1
72.5°	4897.1	4983.2	3111.2	3259.3	3267.2
75°	3916.0	3990.5	2591.1	2728.1	2739.6
77.5°	2876.6	2212.1	2083.0	2188.9	2192.6
80°	2020.5	1395.3	1594.7	1696.1	1684.5
82.5°	1180.1	976.9	1168.5	1243.0	1238.9
85°	511.8	648.8	808.9	875.6	828.4
87.5°	163.9	402.6	504.0	543.3	539.2
90°	0.0	218.9	359.6	425.8	418.3
92.5°	0.0	171.7	312.8	391.0	394.7
95°	11.6	113.4	258.2	348.0	348.0
97.5°	7.9	81.9	183.7	273.5	281.4
100°	7.9	66.2	121.2	195.3	199.4
102.5°	19.4	54.6	74.1	125.0	129.1
105°	19.4	43.0	62.5	62.5	58.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.6	31.4	43.0	31.4	3.7
115°	19.4	27.3	38.9	27.3	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	38.9	54.6	35.2	11.6
110°	23.6	35.2	46.8	31.4	3.7



(END OF REPORT)