

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: P830686

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-60SE-MCL-UNV-L850-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

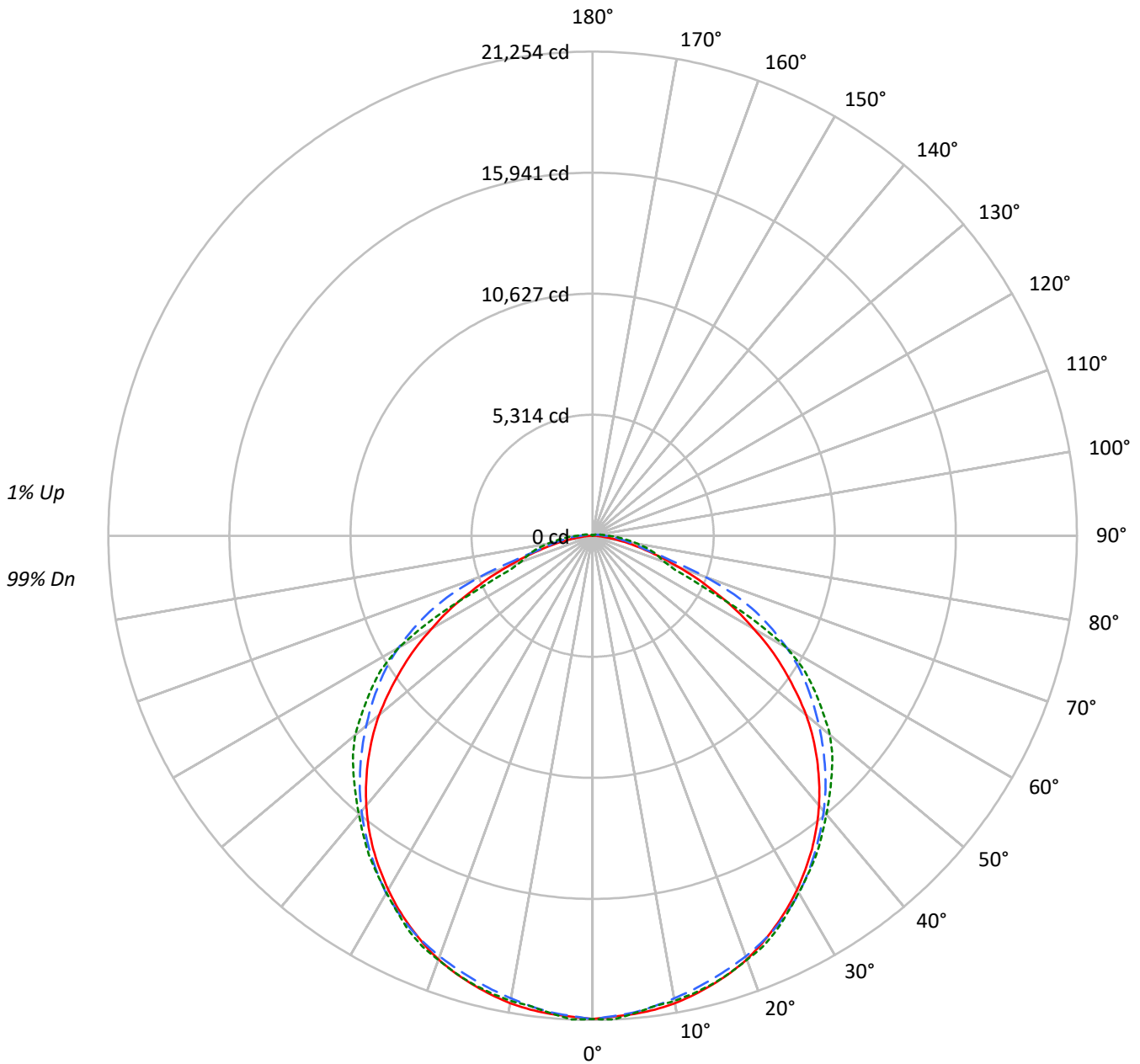
Lumens per Lamp: N/A
Luminaire Lumens: 59952.0 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 362
Input Voltage (V): NR
Input Current (A_{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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36228	36228	36228
5°	35991	35686	35754
10°	35859	35129	35334
15°	35632	34709	35075
20°	35404	34439	34741
25°	34977	34165	34409
30°	34513	33744	33733
35°	33957	33086	33348
40°	33235	32405	32830
45°	32234	31619	32582
50°	30877	30725	32286
55°	28722	29841	31038
60°	25901	28558	28646
65°	22218	26203	18115
70°	17896	20414	13096
75°	13417	12083	13235
80°	9339	9999	12550
85°	5315	9079	11610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2000.0	3.3
10°-20°	5735.1	9.6
20°-30°	8759.3	14.6
30°-40°	10628.0	17.7
40°-50°	11139.1	18.6
50°-60°	10093.7	16.8
60°-70°	6767.5	11.3
70°-80°	3038.9	5.1
80°-90°	1102.8	1.8
90°-100°	331.9	0.6
100°-110°	156.6	0.3
110°-120°	78.5	0.1
120°-130°	43.3	0.1
130°-140°	29.8	0.0
140°-150°	20.0	0.0
150°-160°	14.9	0.0
160°-170°	9.6	0.0
170°-180°	3.0	0.0
0°-30°	16494.4	27.5
0°-40°	27122.4	45.2
0°-60°	48355.2	80.7
0°-90°	59264.4	98.9
90°-120°	567.1	0.9
90°-150°	660.2	1.1
90°-180°	688.0	1.1
0°-180°	59952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21211	21211	21211	21211	21211	
5°	21073	21147	20999	21064	21036	###
15°	20389	20309	20165	20343	20368	5757
25°	18942	18859	18991	19165	19110	8731
35°	16788	16828	17000	17181	17114	10493
45°	13933	14160	14424	14792	14838	10733
55°	10253	10747	11480	11940	11912	9152
65°	6017	6959	7900	6668	5444	5996
75°	2368	3435	2527	2585	2754	2588
85°	408	782	1003	1211	1270	498
90°	3	261	518	650	681	24
95°	3	162	356	432	445	4
105°	12	70	175	212	221	14
115°	24	37	89	114	120	23
125°	22	24	55	64	68	21
135°	28	31	34	49	52	22
145°	28	31	31	34	37	18
155°	31	34	34	34	31	14
165°	34	34	34	34	34	9
175°	34	34	31	28	28	3
180°	31	31	31	31	31	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21211.1	21211.1	21211.1	21211.1	21211.1
2.5°	21125.2	21214.1	21103.7	21223.3	21254.0
5°	21073.1	21146.7	20999.4	21063.9	21036.3
7.5°	20978.0	21002.5	20827.7	20879.8	20824.6
10°	20836.9	20824.6	20619.1	20720.4	20732.6
12.5°	20628.3	20591.5	20407.5	20560.9	20563.9
15°	20389.1	20309.4	20165.2	20343.1	20367.7
17.5°	20113.1	20008.8	19913.7	20143.8	20107.0
20°	19791.1	19668.4	19650.0	19901.5	19809.5
22.5°	19392.4	19297.3	19340.2	19579.4	19521.2
25°	18941.5	18858.7	18990.6	19165.4	19110.2
27.5°	18466.1	18417.1	18567.4	18702.3	18595.0
30°	17944.8	17917.2	18116.5	18226.9	18092.0
32.5°	17377.4	17386.6	17576.7	17727.0	17601.3
35°	16788.5	16828.4	17000.1	17181.1	17113.6
37.5°	16141.4	16230.3	16402.1	16607.6	16537.0
40°	15457.5	15586.3	15776.4	16024.8	15960.4
42.5°	14718.3	14880.9	15126.2	15402.3	15396.1
45°	13933.2	14160.1	14423.9	14791.9	14837.9
47.5°	13117.4	13371.9	13706.2	14196.9	14267.5
50°	12231.0	12550.0	12967.1	13555.9	13598.9
52.5°	11243.5	11679.0	12231.0	12795.3	12743.2
55°	10252.8	10746.6	11479.6	11939.7	11912.1
57.5°	9265.3	9820.4	10709.8	11038.0	11034.9
60°	8161.2	8863.5	9835.7	10084.2	9838.8
62.5°	7139.9	7894.3	8903.4	8722.4	7882.1
65°	6017.4	6958.9	7900.5	6667.6	5443.8
67.5°	5020.6	6002.0	6710.5	4566.7	3910.4
70°	4017.7	5100.3	5232.2	3389.0	3343.0
72.5°	3128.3	4281.5	3609.8	2901.3	3048.6
75°	2367.7	3435.0	2527.2	2585.4	2754.1
77.5°	1726.7	2637.6	1965.9	2266.5	2404.5
80°	1186.9	1867.8	1604.0	1904.6	1999.7
82.5°	745.3	1232.9	1285.1	1533.5	1631.6
85°	407.9	782.1	1002.9	1211.4	1269.7
87.5°	168.7	472.3	766.7	935.4	984.5
90°	3.1	260.7	518.3	650.2	680.9
92.5°	3.1	199.4	423.2	524.4	545.9
95°	3.1	162.5	355.8	432.4	444.7
97.5°	6.1	128.8	297.5	358.8	371.1
100°	9.2	107.3	248.4	300.6	309.8
102.5°	12.3	85.9	208.6	251.5	260.7
105°	12.3	70.5	174.8	211.6	220.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.5	42.9	104.3	131.9	138.0
115°	24.5	36.8	88.9	113.5	119.6
117.5°	24.5	30.7	76.7	95.1	101.2
120°	24.5	27.6	67.5	82.8	85.9
122.5°	24.5	24.5	58.3	73.6	76.7
125°	21.5	24.5	55.2	64.4	67.5
127.5°	24.5	24.5	49.1	58.3	61.3
130°	24.5	27.6	42.9	55.2	55.2
132.5°	27.6	30.7	39.9	52.1	52.1
135°	27.6	30.7	33.7	49.1	52.1
137.5°	30.7	30.7	30.7	46.0	49.1
140°	30.7	30.7	27.6	39.9	42.9
142.5°	27.6	30.7	27.6	36.8	39.9
145°	27.6	30.7	30.7	33.7	36.8
147.5°	30.7	30.7	30.7	30.7	33.7
150°	30.7	30.7	30.7	30.7	30.7
152.5°	30.7	30.7	30.7	30.7	30.7
155°	30.7	33.7	33.7	33.7	30.7
157.5°	30.7	33.7	33.7	33.7	33.7
160°	30.7	33.7	33.7	33.7	33.7
162.5°	33.7	33.7	33.7	33.7	33.7
165°	33.7	33.7	33.7	33.7	33.7
167.5°	33.7	36.8	33.7	33.7	33.7
170°	33.7	33.7	33.7	30.7	30.7
172.5°	33.7	33.7	33.7	30.7	30.7
175°	33.7	33.7	30.7	27.6	27.6
177.5°	36.8	33.7	30.7	27.6	24.5
180°	30.7	30.7	30.7	30.7	30.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	15.3	58.3	150.3	181.0	<i>187.1</i>
110°	18.4	49.1	125.7	153.3	<i>159.5</i>



(END OF REPORT)