

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: P830698

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830698
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-L850-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

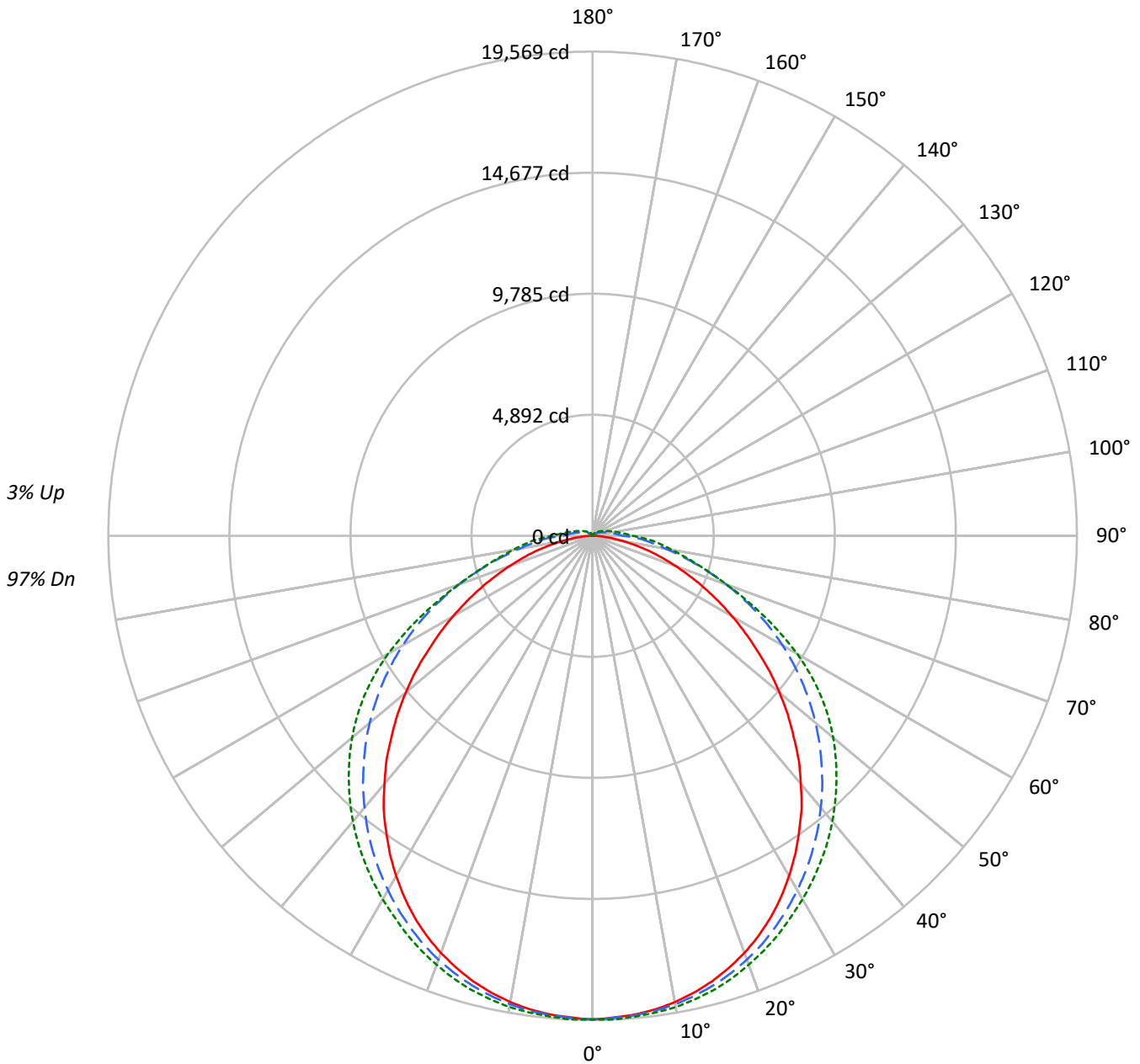
Lumens per Lamp: N/A
Luminaire Lumens: 58510.0 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 362
Input Voltage (V): NR
Input Current (A_{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	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°	33391	33391	33391
5°	33178	33060	33155
10°	32945	32754	32960
15°	32577	32390	32711
20°	32089	31949	32356
25°	31436	31402	31997
30°	30533	30809	31634
35°	29439	30180	31317
40°	28126	29454	31002
45°	26577	28665	30605
50°	24883	27866	30126
55°	22800	26890	29335
60°	20666	25742	27792
65°	18338	24280	25284
70°	15814	22420	22567
75°	13259	20268	20693
80°	10052	18671	20389
85°	6359	19232	22487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1852.5	3.2
10°-20°	5314.5	9.1
20°-30°	8037.2	13.7
30°-40°	9648.7	16.5
40°-50°	9965.6	17.0
50°-60°	8965.9	15.3
60°-70°	6753.9	11.5
70°-80°	4078.2	7.0
80°-90°	1994.6	3.4
90°-100°	839.6	1.4
100°-110°	479.3	0.8
110°-120°	281.3	0.5
120°-130°	159.1	0.3
130°-140°	83.8	0.1
140°-150°	40.7	0.1
150°-160°	15.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	15204.2	26.0
0°-40°	24852.9	42.5
0°-60°	43784.4	74.8
0°-90°	56611.1	96.8
90°-120°	1600.1	2.7
90°-150°	1883.8	3.2
90°-180°	1899.0	3.2
0°-180°	58510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19550	19550	19550	19550	19550	
5°	19426	19478	19454	19531	19507	###
15°	18641	18732	18818	18976	18995	5256
25°	17024	17210	17454	17727	17770	7830
35°	14555	14895	15507	15976	16072	9099
45°	11488	12067	13076	13789	13938	8869
55°	8139	8981	10344	11124	11258	7297
65°	4966	5981	7320	7684	7598	4934
75°	2340	3359	4239	4349	4306	2496
85°	488	1287	2124	2416	2459	564
90°	0	502	1215	1531	1593	31
95°	24	340	909	1158	1201	20
105°	34	196	526	689	718	34
115°	38	110	325	435	454	39
125°	38	53	196	282	297	34
135°	34	43	100	172	191	26
145°	48	43	48	86	100	28
155°	48	53	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°	19550.1	19550.1	19550.1	<i>19550.1</i>	19550.1
2.5°	<i>19492.6</i>	<i>19540.5</i>	<i>19511.8</i>	<i>19574.0</i>	<i>19569.2</i>
5°	19425.7	19478.3	19454.4	<i>19530.9</i>	19507.0
7.5°	19310.8	19368.2	19363.5	<i>19449.6</i>	19440.0
10°	19143.4	19205.6	19224.7	<i>19339.5</i>	19339.5
12.5°	18913.7	18995.0	19042.9	<i>19181.6</i>	19186.4
15°	18641.0	18731.9	18818.0	<i>18975.9</i>	18995.0
17.5°	18310.8	18425.7	18545.3	<i>18727.1</i>	18751.0
20°	17937.6	18066.8	18229.5	<i>18420.9</i>	18449.6
22.5°	17507.0	17660.1	17870.6	<i>18095.5</i>	18129.0
25°	17023.8	17210.4	17454.4	<i>17727.1</i>	17770.2
27.5°	16473.5	16688.8	17019.0	<i>17325.2</i>	17363.5
30°	15875.4	16129.0	16540.5	<i>16904.1</i>	16966.3
32.5°	15243.9	15535.7	16042.9	<i>16449.6</i>	16535.7
35°	14554.9	14894.6	15507.0	<i>15975.9</i>	16071.6
37.5°	13875.5	14248.7	14942.4	<i>15478.3</i>	15593.2
40°	13081.2	13545.3	14339.6	<i>14932.9</i>	15071.6
42.5°	12334.8	12837.2	13736.7	<i>14382.6</i>	14516.6
45°	11487.9	12066.9	13076.4	<i>13789.3</i>	13937.7
47.5°	10693.7	11320.5	12440.1	<i>13176.9</i>	13330.0
50°	9856.4	10545.4	11760.7	<i>12531.0</i>	12688.9
52.5°	9019.1	9760.7	11057.3	<i>11856.3</i>	12004.7
55°	8138.7	8980.8	10344.4	<i>11124.3</i>	11258.3
57.5°	7320.5	8210.4	9612.3	<i>10354.0</i>	10435.3
60°	6511.9	7435.3	8865.9	<i>9516.7</i>	9545.4
62.5°	5722.4	6693.7	8100.4	<i>8617.1</i>	8578.9
65°	4966.5	5980.8	7320.5	<i>7684.1</i>	7598.0
67.5°	4239.2	5287.0	6521.5	<i>6755.9</i>	6641.1
70°	3550.2	4612.4	5746.4	<i>5866.0</i>	5760.7
72.5°	2942.6	3971.3	4961.7	<i>5062.2</i>	4985.6
75°	2339.7	3358.8	4239.2	<i>4349.2</i>	4306.2
77.5°	1775.1	2765.5	3574.1	<i>3717.7</i>	3727.2
80°	1277.5	2224.9	2995.2	<i>3220.1</i>	3248.8
82.5°	842.1	1727.3	2511.9	<i>2799.0</i>	2842.1
85°	488.0	1287.1	2124.4	<i>2416.2</i>	2459.3
87.5°	210.5	928.2	1708.1	<i>1971.3</i>	2023.9
90°	0.0	502.4	1215.3	<i>1531.1</i>	1593.3
92.5°	14.4	416.3	1043.1	<i>1330.1</i>	1382.8
95°	23.9	339.7	909.1	<i>1157.9</i>	1200.9
97.5°	28.7	287.1	789.5	<i>1009.6</i>	1052.6
100°	28.7	248.8	684.2	<i>885.2</i>	923.4
102.5°	28.7	220.1	598.1	<i>775.1</i>	808.6
105°	33.5	196.2	526.3	<i>689.0</i>	717.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38.3	129.2	363.6	488.0	507.2
115°	38.3	110.0	325.4	435.4	454.5
117.5°	43.1	95.7	287.1	392.3	406.7
120°	43.1	81.3	253.6	349.3	368.4
122.5°	43.1	67.0	224.9	315.8	330.1
125°	38.3	52.6	196.2	282.3	296.6
127.5°	33.5	43.1	167.5	253.6	267.9
130°	33.5	38.3	143.5	224.9	239.2
132.5°	33.5	43.1	119.6	196.2	215.3
135°	33.5	43.1	100.5	172.2	191.4
137.5°	33.5	43.1	81.3	148.3	167.5
140°	38.3	43.1	67.0	124.4	143.5
142.5°	43.1	43.1	52.6	105.3	119.6
145°	47.8	43.1	47.8	86.1	100.5
147.5°	47.8	47.8	47.8	67.0	81.3
150°	47.8	52.6	47.8	52.6	67.0
152.5°	47.8	52.6	47.8	43.1	52.6
155°	47.8	52.6	47.8	43.1	47.8
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°	33.5	172.2	464.1	612.4	636.4
110°	33.5	153.1	411.5	545.4	569.4



(END OF REPORT)