

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: P830626

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830626
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-60HE-MFL-UNV-L850-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

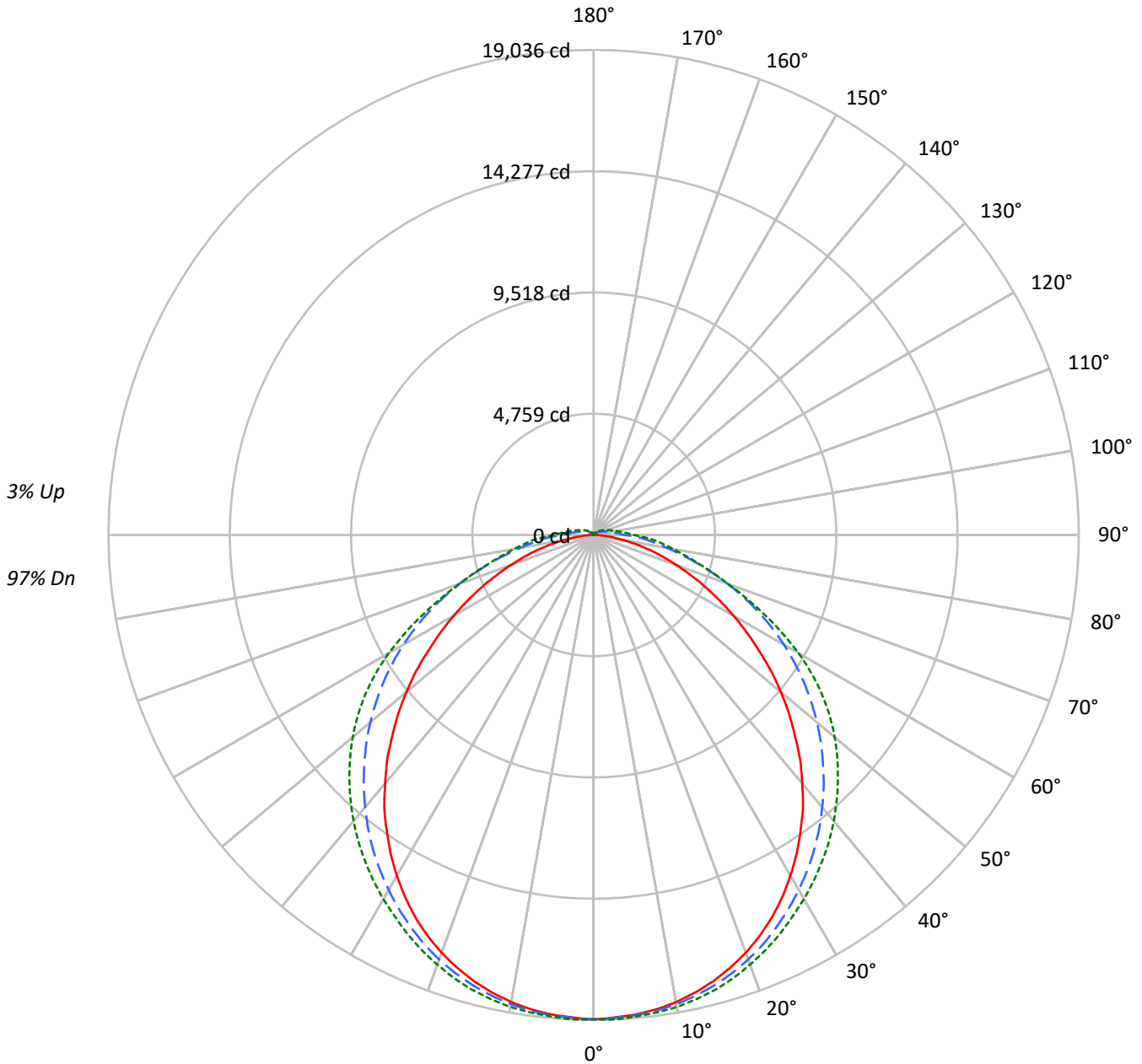
Lumens per Lamp: N/A
Luminaire Lumens: 56917.0 lumens
Efficiency: N/A
Efficacy: 168.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 338
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°	30076	30076	30076
5°	29884	29791	29882
10°	29674	29529	29726
15°	29343	29215	29521
20°	28903	28830	29220
25°	28315	28350	28915
30°	27501	27830	28609
35°	26516	27277	28345
40°	25333	26637	28085
45°	23938	25942	27753
50°	22412	25240	27350
55°	20536	24380	26669
60°	18615	23367	25310
65°	16517	22073	23075
70°	14243	20423	20656
75°	11942	18518	19021
80°	9054	17140	18871
85°	5728	17815	21087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1802.0	3.2
10°-20°	5169.8	9.1
20°-30°	7818.4	13.7
30°-40°	9386.0	16.5
40°-50°	9694.3	17.0
50°-60°	8721.8	15.3
60°-70°	6570.0	11.5
70°-80°	3967.2	7.0
80°-90°	1940.3	3.4
90°-100°	816.7	1.4
100°-110°	466.2	0.8
110°-120°	273.7	0.5
120°-130°	154.8	0.3
130°-140°	81.5	0.1
140°-150°	39.6	0.1
150°-160°	14.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14790.2	26.0
0°-40°	24176.3	42.5
0°-60°	42592.4	74.8
0°-90°	55069.8	96.8
90°-120°	1556.6	2.7
90°-150°	1832.5	3.2
90°-180°	1847.0	3.2
0°-180°	56917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19018	19018	19018	19018	19018	
5°	18897	18948	18925	18999	18976	###
15°	18133	18222	18306	18459	18478	5112
25°	16560	16742	16979	17244	17286	7617
35°	14159	14489	15085	15541	15634	8851
45°	11175	11738	12720	13414	13558	8627
55°	7917	8736	10063	10821	10952	7098
65°	4831	5818	7121	7475	7391	4800
75°	2276	3267	4124	4231	4189	2428
85°	475	1252	2066	2350	2392	549
90°	0	489	1182	1489	1550	30
95°	23	330	884	1126	1168	20
105°	33	191	512	670	698	33
115°	37	107	316	424	442	38
125°	37	51	191	275	289	34
135°	33	42	98	168	186	26
145°	46	42	46	84	98	28
155°	46	51	46	42	46	14
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°	19017.8	19017.8	19017.8	<i>19017.8</i>	19017.8
2.5°	<i>18961.9</i>	<i>19008.5</i>	<i>18980.5</i>	<i>19041.1</i>	<i>19036.4</i>
5°	18896.8	18948.0	18924.7	<i>18999.2</i>	18975.9
7.5°	18785.1	18840.9	18836.3	<i>18920.0</i>	18910.7
10°	18622.2	18682.7	18701.3	<i>18813.0</i>	18813.0
12.5°	18398.7	18477.9	18524.4	<i>18659.4</i>	18664.0
15°	18133.4	18221.9	18305.7	<i>18459.3</i>	18477.9
17.5°	17812.3	17924.0	18040.4	<i>18217.2</i>	18240.5
20°	17449.3	17574.9	17733.2	<i>17919.3</i>	17947.3
22.5°	17030.4	17179.3	17384.1	<i>17602.9</i>	17635.4
25°	16560.3	16741.8	16979.2	<i>17244.5</i>	17286.4
27.5°	16025.0	16234.5	16555.6	<i>16853.5</i>	16890.7
30°	15443.2	15689.9	16090.2	<i>16443.9</i>	16504.4
32.5°	14828.8	15112.8	15606.1	<i>16001.7</i>	16085.5
35°	14158.6	14489.1	15084.8	<i>15541.0</i>	15634.0
37.5°	13497.7	13860.7	14535.6	<i>15056.9</i>	15168.6
40°	12725.1	13176.5	13949.2	<i>14526.3</i>	14661.3
42.5°	11999.0	12487.7	13362.7	<i>13991.1</i>	14121.4
45°	11175.2	11738.3	12720.4	<i>13413.9</i>	13558.2
47.5°	10402.5	11012.3	12101.4	<i>12818.2</i>	12967.1
50°	9588.0	10258.2	11440.5	<i>12189.8</i>	12343.4
52.5°	8773.5	9494.9	10756.3	<i>11533.5</i>	11677.8
55°	7917.1	8736.3	10062.8	<i>10821.4</i>	10951.7
57.5°	7121.2	7986.9	9350.6	<i>10072.1</i>	10151.2
60°	6334.6	7232.9	8624.6	<i>9257.6</i>	9285.5
62.5°	5566.6	6511.5	7879.9	<i>8382.5</i>	8345.3
65°	4831.2	5818.0	7121.2	<i>7474.9</i>	7391.1
67.5°	4123.8	5143.1	6343.9	<i>6572.0</i>	6460.3
70°	3453.5	4486.8	5589.9	<i>5706.3</i>	5603.9
72.5°	2862.4	3863.1	4826.6	<i>4924.3</i>	4849.9
75°	2276.0	3267.4	4123.8	<i>4230.8</i>	4188.9
77.5°	1726.8	2690.2	3476.8	<i>3616.5</i>	3625.8
80°	1242.7	2164.3	2913.6	<i>3132.4</i>	3160.3
82.5°	819.2	1680.2	2443.5	<i>2722.8</i>	2764.7
85°	474.7	1252.0	2066.5	<i>2350.5</i>	2392.3
87.5°	204.8	902.9	1661.6	<i>1917.6</i>	1968.8
90°	0.0	488.7	1182.2	<i>1489.4</i>	1549.9
92.5°	14.0	404.9	1014.7	<i>1293.9</i>	1345.1
95°	23.3	330.5	884.3	<i>1126.4</i>	1168.2
97.5°	27.9	279.3	768.0	<i>982.1</i>	1024.0
100°	27.9	242.0	665.6	<i>861.1</i>	898.3
102.5°	27.9	214.1	581.8	<i>754.0</i>	786.6
105°	32.6	190.8	512.0	<i>670.2</i>	698.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.2	125.7	353.7	474.7	493.4
115°	37.2	107.1	316.5	423.5	442.2
117.5°	41.9	93.1	279.3	381.7	395.6
120°	41.9	79.1	246.7	339.8	358.4
122.5°	41.9	65.2	218.8	307.2	321.2
125°	37.2	51.2	190.8	274.6	288.6
127.5°	32.6	41.9	162.9	246.7	260.6
130°	32.6	37.2	139.6	218.8	232.7
132.5°	32.6	41.9	116.4	190.8	209.4
135°	32.6	41.9	97.7	167.6	186.2
137.5°	32.6	41.9	79.1	144.3	162.9
140°	37.2	41.9	65.2	121.0	139.6
142.5°	41.9	41.9	51.2	102.4	116.4
145°	46.5	41.9	46.5	83.8	97.7
147.5°	46.5	46.5	46.5	65.2	79.1
150°	46.5	51.2	46.5	51.2	65.2
152.5°	46.5	51.2	46.5	41.9	51.2
155°	46.5	51.2	46.5	41.9	46.5
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°	32.6	167.6	451.5	595.8	619.0
110°	32.6	148.9	400.3	530.6	553.9



(END OF REPORT)