

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: P830625

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830625
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-L840-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

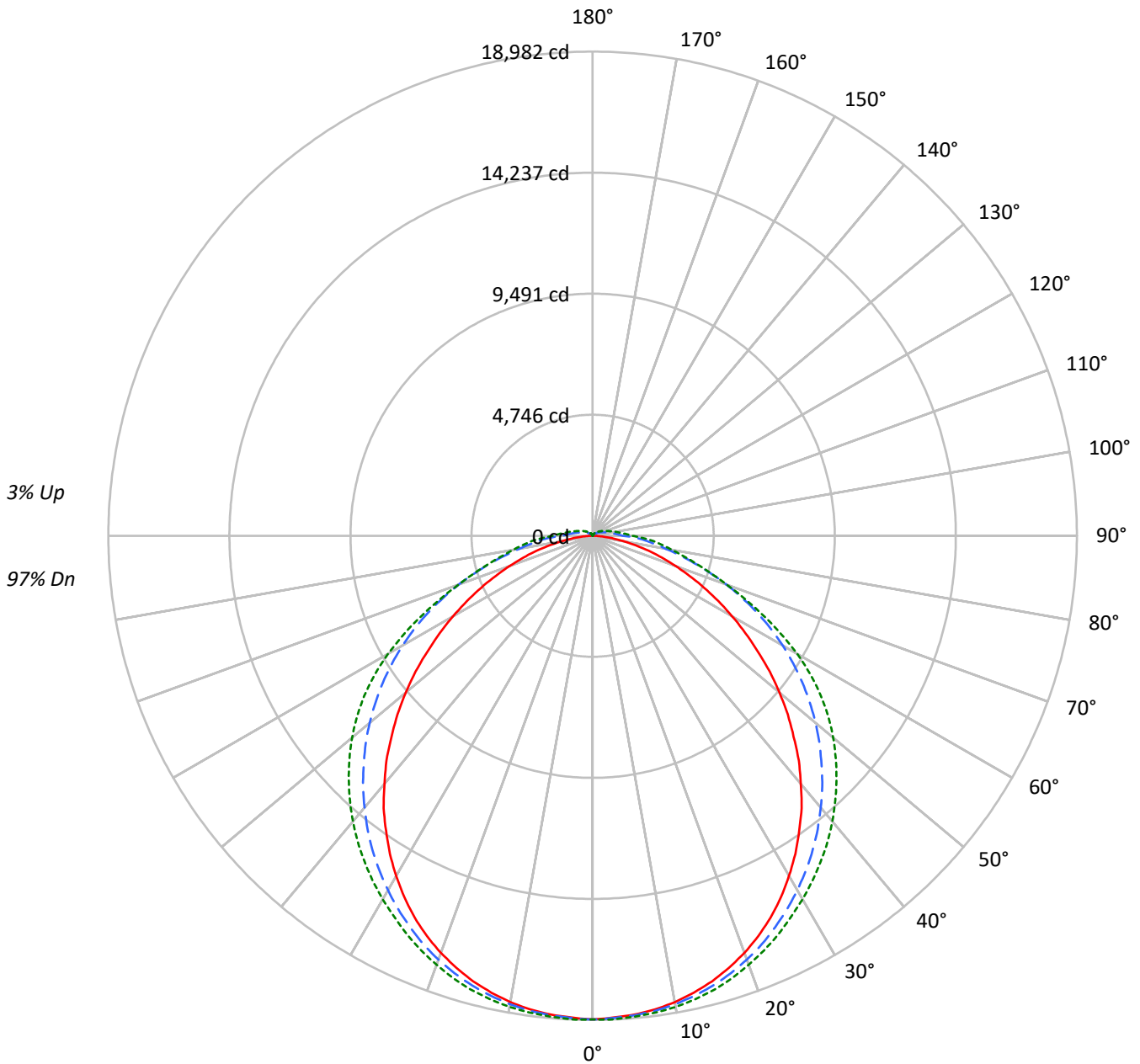
Lumens per Lamp: N/A
Luminaire Lumens: 56753.0 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	29990	29990	29990
5°	29798	29706	29796
10°	29589	29444	29640
15°	29258	29130	29435
20°	28820	28747	29136
25°	28233	28268	28832
30°	27422	27749	28527
35°	26440	27198	28264
40°	25260	26560	28004
45°	23869	25868	27673
50°	22348	25167	27271
55°	20477	24310	26592
60°	18561	23300	25237
65°	16470	22009	23009
70°	14203	20365	20596
75°	11908	18464	18967
80°	9028	17090	18816
85°	5712	17764	21027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1796.8	3.2
10°-20°	5154.9	9.1
20°-30°	7795.9	13.7
30°-40°	9359.0	16.5
40°-50°	9666.3	17.0
50°-60°	8696.7	15.3
60°-70°	6551.1	11.5
70°-80°	3955.8	7.0
80°-90°	1934.7	3.4
90°-100°	814.4	1.4
100°-110°	464.9	0.8
110°-120°	272.9	0.5
120°-130°	154.3	0.3
130°-140°	81.3	0.1
140°-150°	39.5	0.1
150°-160°	14.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14747.6	26.0
0°-40°	24106.6	42.5
0°-60°	42469.6	74.8
0°-90°	54911.1	96.8
90°-120°	1552.1	2.7
90°-150°	1827.2	3.2
90°-180°	1842.0	3.2
0°-180°	56753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18963	18963	18963	18963	18963	
5°	18842	18893	18870	18944	18921	###
15°	18081	18169	18253	18406	18425	5098
25°	16513	16694	16930	17195	17236	7595
35°	14118	14447	15041	15496	15589	8826
45°	11143	11704	12684	13375	13519	8603
55°	7894	8711	10034	10790	10920	7078
65°	4817	5801	7101	7453	7370	4786
75°	2269	3258	4112	4219	4177	2421
85°	473	1248	2061	2344	2386	547
90°	0	487	1179	1485	1545	30
95°	23	330	882	1123	1165	20
105°	32	190	510	668	696	32
115°	37	107	316	422	441	38
125°	37	51	190	274	288	33
135°	32	42	98	167	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°	18963.0	18963.0	18963.0	<i>18963.0</i>	18963.0
2.5°	<i>18907.3</i>	<i>18953.7</i>	<i>18925.9</i>	<i>18986.2</i>	<i>18981.5</i>
5°	18842.3	18893.4	18870.2	<i>18944.4</i>	18921.2
7.5°	18730.9	18786.6	18782.0	<i>18865.5</i>	18856.2
10°	18568.5	18628.8	18647.4	<i>18758.8</i>	18758.8
12.5°	18345.7	18424.6	18471.0	<i>18605.6</i>	18610.3
15°	18081.2	18169.4	18252.9	<i>18406.1</i>	18424.6
17.5°	17761.0	17872.4	17988.4	<i>18164.7</i>	18187.9
20°	17399.0	17524.3	17682.1	<i>17867.7</i>	17895.6
22.5°	16981.3	17129.8	17334.0	<i>17552.1</i>	17584.6
25°	16512.6	16693.6	16930.2	<i>17194.8</i>	17236.5
27.5°	15978.8	16187.7	16507.9	<i>16804.9</i>	16842.1
30°	15398.7	15644.7	16043.8	<i>16396.5</i>	16456.9
32.5°	14786.1	15069.2	15561.2	<i>15955.6</i>	16039.2
35°	14117.8	14447.3	15041.4	<i>15496.2</i>	15589.0
37.5°	13458.8	13820.8	14493.7	<i>15013.5</i>	15124.9
40°	12688.4	13138.6	13909.0	<i>14484.5</i>	14619.0
42.5°	11964.4	12451.7	13324.2	<i>13950.7</i>	14080.7
45°	11143.0	11704.5	12683.8	<i>13375.3</i>	13519.1
47.5°	10372.6	10980.5	12066.5	<i>12781.2</i>	12929.7
50°	9560.4	10228.7	11407.5	<i>12154.7</i>	12307.8
52.5°	8748.2	9467.6	10725.3	<i>11500.3</i>	11644.2
55°	7894.3	8711.1	10033.8	<i>10790.2</i>	10920.2
57.5°	7100.7	7963.9	9323.7	<i>10043.0</i>	10121.9
60°	6316.4	7212.1	8599.7	<i>9230.9</i>	9258.7
62.5°	5550.6	6492.7	7857.2	<i>8358.4</i>	8321.3
65°	4817.3	5801.2	7100.7	<i>7453.4</i>	7369.9
67.5°	4111.9	5128.3	6325.6	<i>6553.0</i>	6441.7
70°	3443.6	4473.9	5573.8	<i>5689.8</i>	5587.7
72.5°	2854.2	3852.0	4812.7	<i>4910.1</i>	4835.9
75°	2269.4	3258.0	4111.9	<i>4218.6</i>	4176.9
77.5°	1721.8	2682.5	3466.8	<i>3606.0</i>	3615.3
80°	1239.1	2158.0	2905.2	<i>3123.4</i>	3151.2
82.5°	816.8	1675.4	2436.5	<i>2715.0</i>	2756.7
85°	473.4	1248.4	2060.6	<i>2343.7</i>	2385.5
87.5°	204.2	900.3	1656.8	<i>1912.1</i>	1963.1
90°	0.0	487.3	1178.8	<i>1485.1</i>	1545.4
92.5°	13.9	403.8	1011.7	<i>1290.2</i>	1341.2
95°	23.2	329.5	881.8	<i>1123.1</i>	1164.9
97.5°	27.8	278.5	765.8	<i>979.2</i>	1021.0
100°	27.8	241.3	663.7	<i>858.6</i>	895.7
102.5°	27.8	213.5	580.1	<i>751.8</i>	784.3
105°	32.5	190.3	510.5	<i>668.3</i>	696.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.1	125.3	352.7	473.4	491.9
115°	37.1	106.7	315.6	422.3	440.9
117.5°	41.8	92.8	278.5	380.6	394.5
120°	41.8	78.9	246.0	338.8	357.4
122.5°	41.8	65.0	218.1	306.3	320.2
125°	37.1	51.1	190.3	273.8	287.7
127.5°	32.5	41.8	162.4	246.0	259.9
130°	32.5	37.1	139.2	218.1	232.0
132.5°	32.5	41.8	116.0	190.3	208.8
135°	32.5	41.8	97.5	167.1	185.6
137.5°	32.5	41.8	78.9	143.9	162.4
140°	37.1	41.8	65.0	120.7	139.2
142.5°	41.8	41.8	51.1	102.1	116.0
145°	46.4	41.8	46.4	83.5	97.5
147.5°	46.4	46.4	46.4	65.0	78.9
150°	46.4	51.1	46.4	51.1	65.0
152.5°	46.4	51.1	46.4	41.8	51.1
155°	46.4	51.1	46.4	41.8	46.4
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°	32.5	167.1	450.2	594.0	617.2
110°	32.5	148.5	399.1	529.1	552.3



(END OF REPORT)