

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: P830696

Luminaire Tested: **OHBL-60SE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830696
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-L835-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

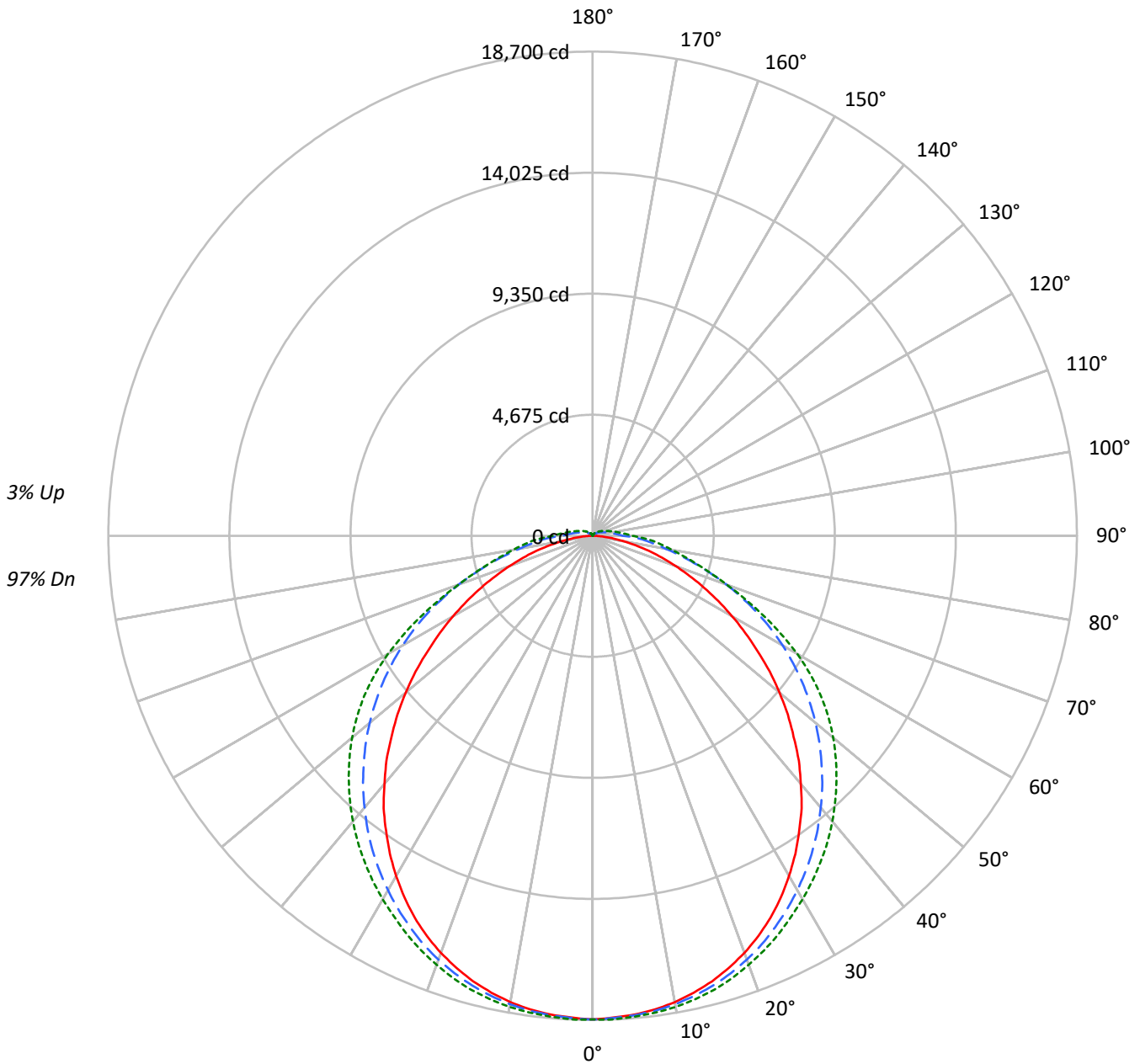
Lumens per Lamp: N/A
Luminaire Lumens: 55910.0 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				20				
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31907	31907	31907
5°	31703	31591	31682
10°	31481	31298	31495
15°	31129	30951	31258
20°	30663	30529	30918
25°	30039	30006	30575
30°	29176	29440	30229
35°	28131	28839	29925
40°	26876	28145	29625
45°	25396	27391	29245
50°	23777	26628	28787
55°	21787	25695	28031
60°	19748	24599	26557
65°	17523	23201	24160
70°	15111	21423	21564
75°	12669	19367	19773
80°	9605	17841	19483
85°	6076	18378	21488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1770.1	3.2
10°-20°	5078.3	9.1
20°-30°	7680.1	13.7
30°-40°	9220.0	16.5
40°-50°	9522.8	17.0
50°-60°	8567.5	15.3
60°-70°	6453.8	11.5
70°-80°	3897.0	7.0
80°-90°	1905.9	3.4
90°-100°	802.3	1.4
100°-110°	458.0	0.8
110°-120°	268.8	0.5
120°-130°	152.0	0.3
130°-140°	80.0	0.1
140°-150°	38.9	0.1
150°-160°	14.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14528.5	26.0
0°-40°	23748.5	42.5
0°-60°	41838.8	74.8
0°-90°	54095.5	96.8
90°-120°	1529.0	2.7
90°-150°	1800.0	3.2
90°-180°	1814.0	3.2
0°-180°	55910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18681	18681	18681	18681	18681	
5°	18562	18613	18590	18663	18640	###
15°	17813	17900	17982	18133	18151	5022
25°	16267	16446	16679	16939	16980	7482
35°	13908	14233	14818	15266	15357	8695
45°	10977	11531	12495	13177	13318	8475
55°	7777	8582	9885	10630	10758	6973
65°	4746	5715	6995	7343	7260	4715
75°	2236	3210	4051	4156	4115	2385
85°	466	1230	2030	2309	2350	539
90°	0	480	1161	1463	1522	29
95°	23	325	869	1106	1148	19
105°	32	188	503	658	686	32
115°	37	105	311	416	434	37
125°	37	50	188	270	284	33
135°	32	41	96	165	183	25
145°	46	41	46	82	96	27
155°	46	50	46	41	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°	18681.3	18681.3	18681.3	<i>18681.3</i>	18681.3
2.5°	<i>18626.4</i>	<i>18672.2</i>	<i>18644.7</i>	<i>18704.2</i>	<i>18699.6</i>
5°	18562.4	18612.7	18589.9	<i>18663.0</i>	18640.2
7.5°	18452.7	18507.6	18503.0	<i>18585.3</i>	18576.2
10°	18292.7	18352.1	18370.4	<i>18480.1</i>	18480.1
12.5°	18073.2	18151.0	18196.7	<i>18329.3</i>	18333.8
15°	17812.6	17899.5	17981.8	<i>18132.7</i>	18151.0
17.5°	17497.2	17606.9	17721.2	<i>17894.9</i>	17917.8
20°	17140.5	17264.0	17419.4	<i>17602.3</i>	17629.7
22.5°	16729.1	16875.4	17076.5	<i>17291.4</i>	17323.4
25°	16267.3	16445.6	16678.8	<i>16939.4</i>	16980.5
27.5°	15741.5	15947.2	16262.7	<i>16555.3</i>	16591.9
30°	15170.0	15412.3	15805.5	<i>16153.0</i>	16212.4
32.5°	14566.5	14845.4	15330.0	<i>15718.6</i>	15800.9
35°	13908.1	14232.7	14817.9	<i>15266.0</i>	15357.4
37.5°	13258.9	13615.5	14278.4	<i>14790.5</i>	14900.2
40°	12499.9	12943.4	13702.4	<i>14269.3</i>	14401.9
42.5°	11786.7	12266.8	13126.3	<i>13743.5</i>	13871.5
45°	10977.4	11530.7	12495.4	<i>13176.6</i>	13318.3
47.5°	10218.5	10817.4	11887.3	<i>12591.4</i>	12737.7
50°	9418.4	10076.8	11238.0	<i>11974.1</i>	12125.0
52.5°	8618.3	9326.9	10566.0	<i>11329.5</i>	11471.2
55°	7777.0	8581.7	9884.7	<i>10630.0</i>	10758.0
57.5°	6995.2	7845.6	9185.2	<i>9893.9</i>	9971.6
60°	6222.5	7104.9	8472.0	<i>9093.8</i>	9121.2
62.5°	5468.1	6396.3	7740.4	<i>8234.2</i>	8197.6
65°	4745.8	5715.0	6995.2	<i>7342.7</i>	7260.4
67.5°	4050.8	5052.1	6231.7	<i>6455.7</i>	6346.0
70°	3392.4	4407.4	5491.0	<i>5605.3</i>	5504.7
72.5°	2811.8	3794.8	4741.2	<i>4837.2</i>	4764.1
75°	2235.7	3209.6	4050.8	<i>4156.0</i>	4114.8
77.5°	1696.2	2642.6	3415.3	<i>3552.5</i>	3561.6
80°	1220.7	2126.0	2862.1	<i>3077.0</i>	3104.4
82.5°	804.7	1650.5	2400.3	<i>2674.6</i>	2715.8
85°	466.3	1229.9	2030.0	<i>2308.9</i>	2350.0
87.5°	201.2	887.0	1632.2	<i>1883.7</i>	1934.0
90°	0.0	480.1	1161.3	<i>1463.0</i>	1522.5
92.5°	13.7	397.8	996.7	<i>1271.0</i>	1321.3
95°	22.9	324.6	868.7	<i>1106.4</i>	1147.6
97.5°	27.4	274.3	754.4	<i>964.7</i>	1005.8
100°	27.4	237.7	653.8	<i>845.8</i>	882.4
102.5°	27.4	210.3	571.5	<i>740.7</i>	772.7
105°	32.0	187.5	502.9	<i>658.4</i>	685.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.6	123.4	347.5	466.3	484.6
115°	36.6	105.2	310.9	416.1	434.3
117.5°	41.1	91.4	274.3	374.9	388.6
120°	41.1	77.7	242.3	333.8	352.0
122.5°	41.1	64.0	214.9	301.8	315.5
125°	36.6	50.3	187.5	269.7	283.5
127.5°	32.0	41.1	160.0	242.3	256.0
130°	32.0	36.6	137.2	214.9	228.6
132.5°	32.0	41.1	114.3	187.5	205.7
135°	32.0	41.1	96.0	164.6	182.9
137.5°	32.0	41.1	77.7	141.7	160.0
140°	36.6	41.1	64.0	118.9	137.2
142.5°	41.1	41.1	50.3	100.6	114.3
145°	45.7	41.1	45.7	82.3	96.0
147.5°	45.7	45.7	45.7	64.0	77.7
150°	45.7	50.3	45.7	50.3	64.0
152.5°	45.7	50.3	45.7	41.1	50.3
155°	45.7	50.3	45.7	41.1	45.7
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°	32.0	164.6	443.5	585.2	608.1
110°	32.0	146.3	393.2	521.2	544.1



(END OF REPORT)