

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: P830764

Luminaire Tested: **OHBL-72SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830764
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-72SE-MFL-UNV-L735-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

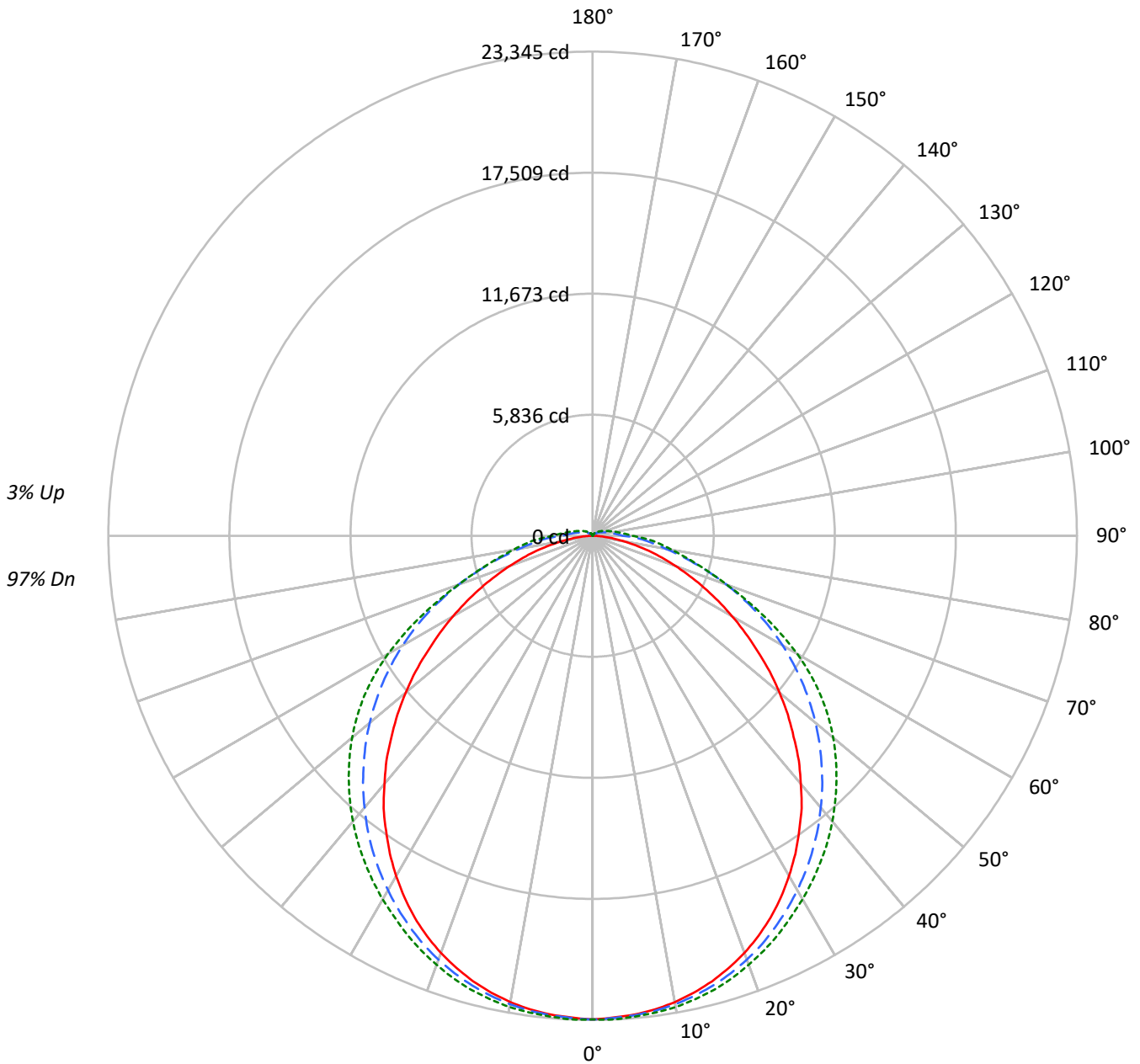
Lumens per Lamp: N/A
Luminaire Lumens: 69800.0 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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	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	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	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	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	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	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	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	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	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	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	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	35	29	25	35	29	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36884	36884	36884
5°	36648	36534	36646
10°	36391	36212	36454
15°	35984	35827	36203
20°	35445	35356	35834
25°	34724	34767	35460
30°	33726	34129	35085
35°	32518	33451	34761
40°	31067	32666	34442
45°	29357	31814	34035
50°	27485	30953	33541
55°	25184	29898	32705
60°	22828	28656	31038
65°	20256	27069	28298
70°	17467	25046	25331
75°	14646	22709	23327
80°	11103	21019	23142
85°	7025	21848	25861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2209.9	3.2
10°-20°	6339.9	9.1
20°-30°	9588.1	13.7
30°-40°	11510.6	16.5
40°-50°	11888.5	17.0
50°-60°	10696.0	15.3
60°-70°	8057.1	11.5
70°-80°	4865.1	7.0
80°-90°	2379.4	3.4
90°-100°	1001.6	1.4
100°-110°	571.7	0.8
110°-120°	335.6	0.5
120°-130°	189.8	0.3
130°-140°	99.9	0.1
140°-150°	48.6	0.1
150°-160°	18.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	18137.9	26.0
0°-40°	29648.5	42.5
0°-60°	52233.0	74.8
0°-90°	67534.7	96.8
90°-120°	1908.9	2.7
90°-150°	2247.3	3.2
90°-180°	2265.0	3.2
0°-180°	69800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23322	23322	23322	23322	23322	
5°	23174	23237	23208	23300	23271	###
15°	22238	22346	22449	22638	22660	6270
25°	20309	20531	20822	21148	21199	9341
35°	17363	17769	18499	19059	19173	10855
45°	13705	14395	15600	16450	16627	10580
55°	9709	10714	12340	13271	13431	8705
65°	5925	7135	8733	9167	9064	5886
75°	2791	4007	5057	5188	5137	2978
85°	582	1535	2534	2882	2934	673
90°	0	599	1450	1826	1901	37
95°	28	405	1084	1381	1433	24
105°	40	234	628	822	856	40
115°	46	131	388	519	542	47
125°	46	63	234	337	354	41
135°	40	51	120	206	228	31
145°	57	51	57	103	120	34
155°	57	63	57	51	57	18
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°	23322.4	23322.4	23322.4	<i>23322.4</i>	23322.4
2.5°	<i>23253.9</i>	<i>23311.0</i>	<i>23276.7</i>	<i>23350.9</i>	<i>23345.2</i>
5°	23174.0	23236.8	23208.2	<i>23299.6</i>	23271.0
7.5°	23037.0	23105.5	23099.8	<i>23202.5</i>	23191.1
10°	22837.2	22911.4	22934.3	<i>23071.3</i>	23071.3
12.5°	22563.3	22660.3	22717.4	<i>22882.9</i>	22888.6
15°	22237.9	22346.4	22449.1	<i>22637.5</i>	22660.3
17.5°	21844.1	21981.0	22123.7	<i>22340.6</i>	22369.2
20°	21398.8	21553.0	21747.0	<i>21975.3</i>	22009.6
22.5°	20885.1	21067.8	21318.9	<i>21587.2</i>	21627.2
25°	20308.6	20531.2	20822.3	<i>21147.7</i>	21199.1
27.5°	19652.2	19909.1	20302.9	<i>20668.2</i>	20713.9
30°	18938.7	19241.3	19732.1	<i>20165.9</i>	20240.1
32.5°	18185.3	18533.5	19138.5	<i>19623.7</i>	19726.4
35°	17363.4	17768.6	18499.2	<i>19058.6</i>	19172.8
37.5°	16552.9	16998.1	17825.7	<i>18465.0</i>	18602.0
40°	15605.3	16159.0	17106.5	<i>17814.3</i>	17979.8
42.5°	14714.9	15314.2	16387.3	<i>17157.9</i>	17317.7
45°	13704.6	14395.3	15599.6	<i>16450.1</i>	16627.1
47.5°	12757.1	13504.8	14840.5	<i>15719.5</i>	15902.2
50°	11758.2	12580.2	14030.0	<i>14948.9</i>	15137.3
52.5°	10759.4	11644.1	13190.9	<i>14144.1</i>	14321.1
55°	9709.1	10713.7	12340.4	<i>13270.8</i>	13430.6
57.5°	8733.1	9794.7	11467.1	<i>12351.9</i>	12448.9
60°	7768.4	8870.0	10576.7	<i>11353.0</i>	11387.2
62.5°	6826.6	7985.3	9663.4	<i>10279.9</i>	10234.2
65°	5924.8	7134.9	8733.1	<i>9166.9</i>	9064.1
67.5°	5057.2	6307.2	7779.8	<i>8059.5</i>	7922.5
70°	4235.2	5502.4	6855.2	<i>6997.9</i>	6872.3
72.5°	3510.3	4737.5	5919.1	<i>6038.9</i>	5947.6
75°	2791.2	4006.9	5057.2	<i>5188.5</i>	5137.1
77.5°	2117.6	3299.2	4263.8	<i>4435.0</i>	4446.4
80°	1524.0	2654.2	3573.1	<i>3841.4</i>	3875.7
82.5°	1004.6	2060.5	2996.6	<i>3339.1</i>	3390.5
85°	582.2	1535.4	2534.3	<i>2882.5</i>	2933.9
87.5°	251.1	1107.3	2037.7	<i>2351.6</i>	2414.4
90°	0.0	599.3	1449.8	<i>1826.5</i>	1900.7
92.5°	17.1	496.6	1244.3	<i>1586.8</i>	1649.6
95°	28.5	405.3	1084.5	<i>1381.3</i>	1432.7
97.5°	34.2	342.5	941.8	<i>1204.4</i>	1255.7
100°	34.2	296.8	816.2	<i>1056.0</i>	1101.6
102.5°	34.2	262.6	713.5	<i>924.7</i>	964.6
105°	40.0	234.0	627.9	<i>821.9</i>	856.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	154.1	433.8	582.2	605.0
115°	45.7	131.3	388.1	519.4	542.2
117.5°	51.4	114.2	342.5	468.0	485.2
120°	51.4	97.0	302.5	416.7	439.5
122.5°	51.4	79.9	268.3	376.7	393.8
125°	45.7	62.8	234.0	336.8	353.9
127.5°	40.0	51.4	199.8	302.5	319.6
130°	40.0	45.7	171.2	268.3	285.4
132.5°	40.0	51.4	142.7	234.0	256.9
135°	40.0	51.4	119.9	205.5	228.3
137.5°	40.0	51.4	97.0	176.9	199.8
140°	45.7	51.4	79.9	148.4	171.2
142.5°	51.4	51.4	62.8	125.6	142.7
145°	57.1	51.4	57.1	102.7	119.9
147.5°	57.1	57.1	57.1	79.9	97.0
150°	57.1	62.8	57.1	62.8	79.9
152.5°	57.1	62.8	57.1	51.4	62.8
155°	57.1	62.8	57.1	51.4	57.1
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°	40.0	205.5	553.7	730.6	759.1
110°	40.0	182.7	490.9	650.7	679.2



(END OF REPORT)