

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: P830767

Luminaire Tested: **OHBL-72SE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830767
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-L830-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

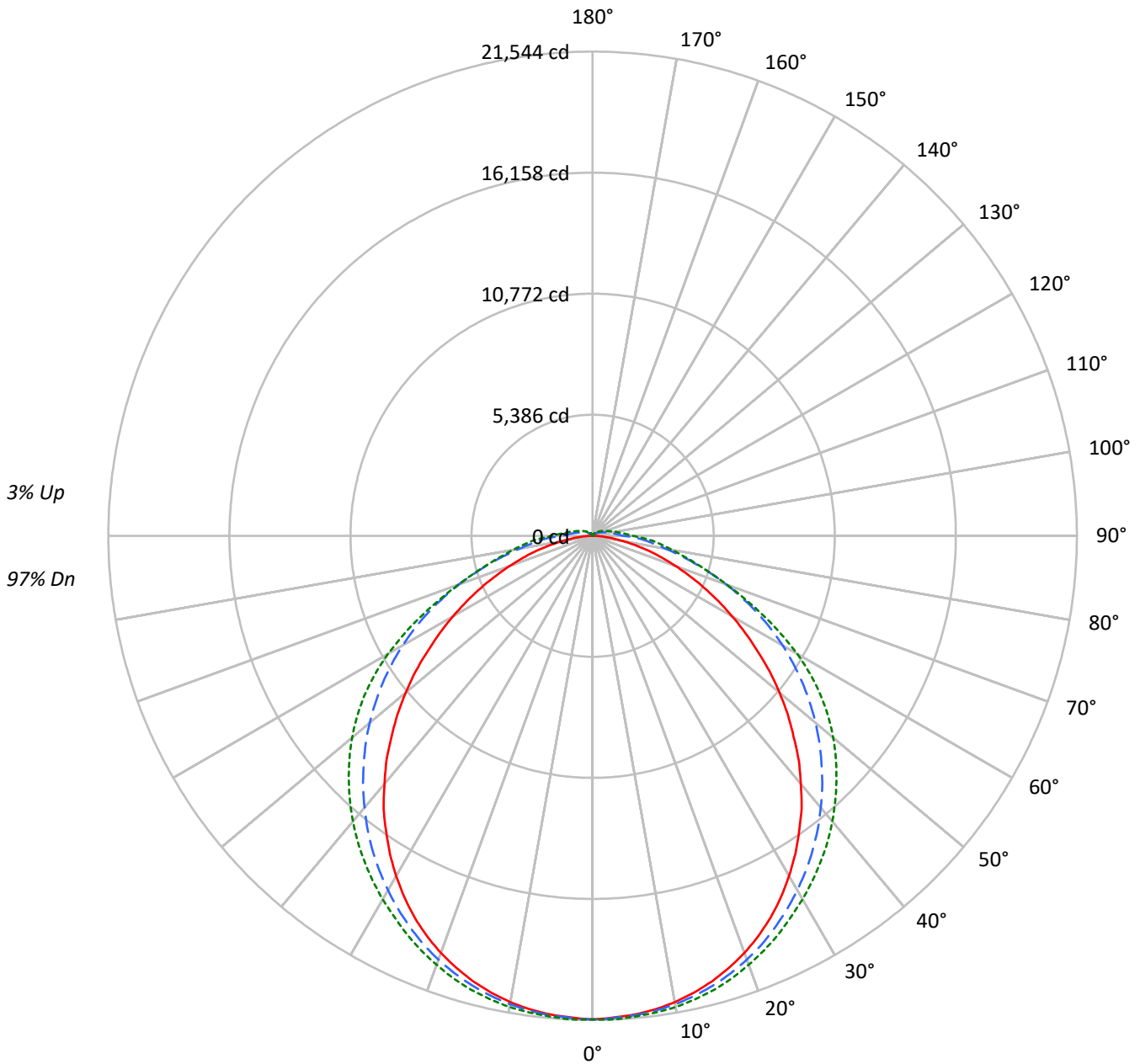
Lumens per Lamp: N/A
Luminaire Lumens: 64416.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	34039	34039	34039
5°	33821	33716	33819
10°	33584	33419	33642
15°	33209	33064	33410
20°	32711	32629	33070
25°	32046	32085	32725
30°	31125	31496	32379
35°	30010	30871	32080
40°	28671	30147	31786
45°	27092	29360	31410
50°	25365	28565	30954
55°	23242	27592	30183
60°	21067	26446	28644
65°	18694	24981	26116
70°	16120	23114	23378
75°	13516	20957	21527
80°	10247	19398	21357
85°	6483	20162	23866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2039.5	3.2
10°-20°	5850.9	9.1
20°-30°	8848.5	13.7
30°-40°	10622.7	16.5
40°-50°	10971.5	17.0
50°-60°	9870.9	15.3
60°-70°	7435.6	11.5
70°-80°	4489.9	7.0
80°-90°	2195.9	3.4
90°-100°	924.3	1.4
100°-110°	527.6	0.8
110°-120°	309.7	0.5
120°-130°	175.2	0.3
130°-140°	92.2	0.1
140°-150°	44.8	0.1
150°-160°	16.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16738.9	26.0
0°-40°	27361.6	42.5
0°-60°	48204.0	74.8
0°-90°	62325.4	96.8
90°-120°	1761.7	2.7
90°-150°	2073.9	3.2
90°-180°	2091.0	3.2
0°-180°	64416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21523	21523	21523	21523	21523	
5°	21386	21444	21418	21502	21476	###
15°	20523	20623	20718	20891	20912	5786
25°	18742	18948	19216	19516	19564	8621
35°	16024	16398	17072	17588	17694	10017
45°	12648	13285	14396	15181	15344	9764
55°	8960	9887	11389	12247	12395	8034
65°	5468	6584	8059	8460	8365	5432
75°	2576	3698	4667	4788	4741	2748
85°	537	1417	2339	2660	2708	621
90°	0	553	1338	1686	1754	34
95°	26	374	1001	1275	1322	22
105°	37	216	579	758	790	37
115°	42	121	358	479	500	43
125°	42	58	216	311	327	38
135°	37	47	111	190	211	29
145°	53	47	53	95	111	31
155°	53	58	53	47	53	16
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°	21523.4	21523.4	21523.4	<i>21523.4</i>	21523.4
2.5°	<i>21460.2</i>	<i>21512.9</i>	<i>21481.3</i>	<i>21549.8</i>	<i>21544.5</i>
5°	21386.5	21444.4	21418.1	<i>21502.4</i>	21476.0
7.5°	21260.1	21323.3	21318.0	<i>21412.8</i>	21402.3
10°	21075.7	21144.2	21165.2	<i>21291.7</i>	21291.7
12.5°	20822.8	20912.4	20965.1	<i>21117.8</i>	21123.1
15°	20522.6	20622.7	20717.5	<i>20891.3</i>	20912.4
17.5°	20159.1	20285.5	20417.2	<i>20617.4</i>	20643.7
20°	19748.3	19890.5	20069.6	<i>20280.3</i>	20311.9
22.5°	19274.2	19442.7	19674.5	<i>19922.1</i>	19959.0
25°	18742.1	18947.6	19216.2	<i>19516.5</i>	19563.9
27.5°	18136.4	18373.4	18736.9	<i>19074.0</i>	19116.1
30°	17477.9	17757.1	18210.1	<i>18610.4</i>	18678.9
32.5°	16782.6	17103.9	17662.3	<i>18110.0</i>	18204.8
35°	16024.1	16398.1	17072.3	<i>17588.5</i>	17693.9
37.5°	15276.1	15686.9	16450.7	<i>17040.7</i>	17167.1
40°	14401.6	14912.6	15787.0	<i>16440.2</i>	16593.0
42.5°	13579.9	14133.0	15123.3	<i>15834.4</i>	15981.9
45°	12647.5	13284.9	14396.4	<i>15181.2</i>	15344.5
47.5°	11773.1	12463.2	13695.8	<i>14507.0</i>	14675.5
50°	10851.3	11609.8	12947.8	<i>13795.9</i>	13969.7
52.5°	9929.4	10745.9	12173.4	<i>13053.1</i>	13216.4
55°	8960.2	9887.3	11388.6	<i>12247.2</i>	12394.7
57.5°	8059.4	9039.2	10582.6	<i>11399.1</i>	11488.6
60°	7169.2	8185.9	9760.9	<i>10477.3</i>	10508.9
62.5°	6300.1	7369.4	8918.1	<i>9487.0</i>	9444.8
65°	5467.8	6584.5	8059.4	<i>8459.8</i>	8365.0
67.5°	4667.1	5820.7	7179.7	<i>7437.9</i>	7311.4
70°	3908.6	5078.0	6326.4	<i>6458.1</i>	6342.2
72.5°	3239.6	4372.1	5462.5	<i>5573.1</i>	5488.8
75°	2575.9	3697.9	4667.1	<i>4788.3</i>	4740.8
77.5°	1954.3	3044.7	3934.9	<i>4092.9</i>	4103.5
80°	1406.5	2449.4	3297.5	<i>3545.1</i>	3576.7
82.5°	927.1	1901.6	2765.5	<i>3081.5</i>	3129.0
85°	537.3	1417.0	2338.8	<i>2660.1</i>	2707.5
87.5°	231.8	1021.9	1880.5	<i>2170.3</i>	2228.2
90°	0.0	553.1	1338.0	<i>1685.6</i>	1754.1
92.5°	15.8	458.3	1148.3	<i>1464.4</i>	1522.3
95°	26.3	374.0	1000.8	<i>1274.8</i>	1322.2
97.5°	31.6	316.1	869.2	<i>1111.5</i>	1158.9
100°	31.6	273.9	753.3	<i>974.5</i>	1016.6
102.5°	31.6	242.3	658.5	<i>853.4</i>	890.2
105°	36.9	216.0	579.4	<i>758.5</i>	790.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.1	142.2	400.3	537.3	558.4
115°	42.1	121.2	358.2	479.4	500.4
117.5°	47.4	105.4	316.1	431.9	447.7
120°	47.4	89.5	279.2	384.5	405.6
122.5°	47.4	73.7	247.6	347.7	363.5
125°	42.1	57.9	216.0	310.8	326.6
127.5°	36.9	47.4	184.4	279.2	295.0
130°	36.9	42.1	158.0	247.6	263.4
132.5°	36.9	47.4	131.7	216.0	237.0
135°	36.9	47.4	110.6	189.6	210.7
137.5°	36.9	47.4	89.5	163.3	184.4
140°	42.1	47.4	73.7	137.0	158.0
142.5°	47.4	47.4	57.9	115.9	131.7
145°	52.7	47.4	52.7	94.8	110.6
147.5°	52.7	52.7	52.7	73.7	89.5
150°	52.7	57.9	52.7	57.9	73.7
152.5°	52.7	57.9	52.7	47.4	57.9
155°	52.7	57.9	52.7	47.4	52.7
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°	36.9	189.6	511.0	674.3	700.6
110°	36.9	168.6	453.0	600.5	626.8



(END OF REPORT)