

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: P830806

Luminaire Tested: **OHBL-72SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-W-UNV-L850-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

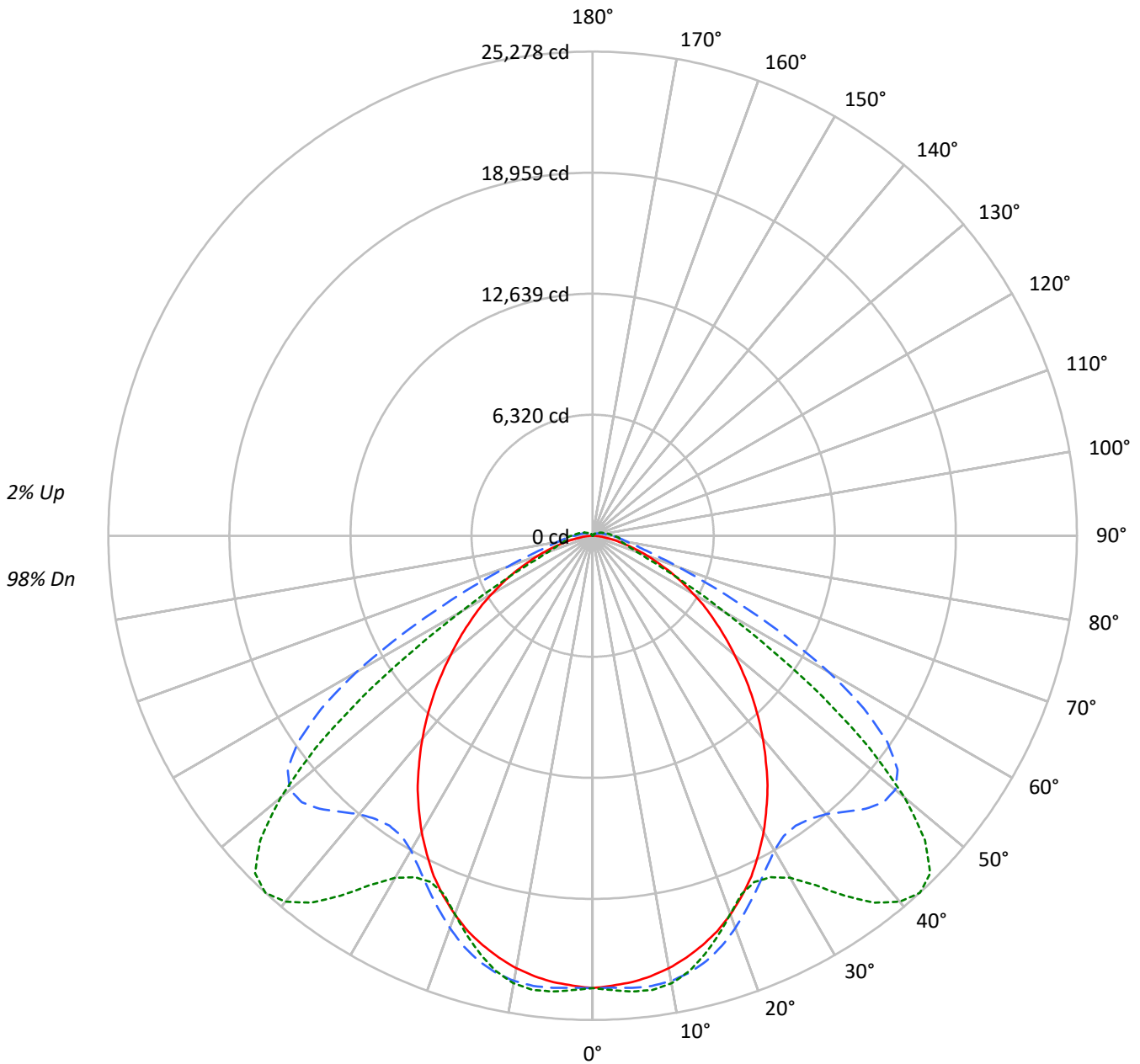
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70699.0 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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									
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37342	37342	37342
5°	36994	37307	37609
10°	36530	37267	37494
15°	35817	36667	36136
20°	34841	35423	34213
25°	33535	33914	33370
30°	31797	32795	35729
35°	29815	33420	41582
40°	27515	36218	47779
45°	25110	41111	51003
50°	22602	45496	47082
55°	20244	45482	35628
60°	17844	38522	21523
65°	15309	26638	12835
70°	12438	17254	9070
75°	9463	12399	8143
80°	6792	10938	8700
85°	4610	12121	12259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2256.4	3.2
10°-20°	6389.5	9.0
20°-30°	9349.9	13.2
30°-40°	12142.8	17.2
40°-50°	14827.9	21.0
50°-60°	13058.3	18.5
60°-70°	6804.7	9.6
70°-80°	2918.1	4.1
80°-90°	1401.4	2.0
90°-100°	658.4	0.9
100°-110°	409.2	0.6
110°-120°	242.0	0.3
120°-130°	131.5	0.2
130°-140°	66.0	0.1
140°-150°	31.8	0.0
150°-160°	11.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17995.8	25.5
0°-40°	30138.6	42.6
0°-60°	58024.8	82.1
0°-90°	69149.0	97.8
90°-120°	1309.6	1.9
90°-150°	1538.9	2.2
90°-180°	1550.0	2.2
0°-180°	70699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23612	23612	23612	23612	23612	
5°	23393	23571	23699	23908	23882	###
15°	22135	22756	22975	22802	22619	6232
25°	19613	20663	20311	19929	19949	9001
35°	15920	17601	18482	21554	22935	9923
45°	11722	14748	20158	24407	24916	9039
55°	7804	12919	18773	16460	14631	7004
65°	4478	8951	8594	4778	4111	4430
75°	1803	4188	2761	1890	1793	1966
85°	382	1493	1406	1376	1391	426
90°	5	540	927	1060	1085	27
95°	10	316	739	866	892	8
105°	20	178	479	576	586	22
115°	31	102	296	362	372	32
125°	36	51	173	224	229	30
135°	31	31	82	138	143	24
145°	41	31	36	66	76	24
155°	41	41	31	31	31	13
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°	23612.2	23612.2	23612.2	23612.2	<i>23612.2</i>
2.5°	23510.3	23612.2	23617.3	23759.9	<i>23744.6</i>
5°	23393.1	23571.4	23698.8	23907.6	<i>23882.2</i>
7.5°	23199.5	23479.7	23703.9	23933.1	<i>23912.7</i>
10°	22924.4	23306.5	23602.0	23790.5	<i>23729.3</i>
12.5°	22567.8	23072.2	23362.6	23403.3	<i>23286.1</i>
15°	22134.8	22756.3	22975.4	22802.2	<i>22618.8</i>
17.5°	21645.8	22374.3	22450.7	22073.7	<i>21844.4</i>
20°	21034.4	21864.8	21788.4	21268.8	<i>21014.1</i>
22.5°	20356.9	21304.4	21059.9	20514.8	<i>20270.3</i>
25°	19613.1	20662.6	20311.1	19929.0	<i>19949.4</i>
27.5°	18742.0	19934.1	19592.8	19766.0	<i>20092.0</i>
30°	17855.6	19169.9	18961.1	19969.7	<i>20611.6</i>
32.5°	16882.6	18385.4	18573.9	20565.8	<i>21615.2</i>
35°	15919.8	17600.9	18482.2	21554.1	<i>22934.6</i>
37.5°	14855.0	16806.2	18629.9	22695.2	<i>24142.0</i>
40°	13820.9	16031.8	18966.2	23719.2	<i>24941.8</i>
42.5°	<i>12766.4</i>	<i>15339.0</i>	<i>19531.6</i>	<i>24325.4</i>	<i>25278.0</i>
45°	11722.0	14748.1	20158.2	24406.9	<i>24916.3</i>
47.5°	10677.7	14248.8	20591.2	23759.9	<i>23525.6</i>
50°	9669.0	13805.6	20621.8	22206.1	<i>21248.4</i>
52.5°	8726.6	13398.1	20061.4	19730.3	<i>18242.8</i>
55°	7804.5	12919.2	18772.6	16459.7	<i>14630.9</i>
57.5°	6963.9	12256.9	16785.8	12944.7	<i>10947.7</i>
60°	6072.4	11360.3	14218.2	9470.3	<i>7896.2</i>
62.5°	5252.2	10244.7	11340.0	6592.1	<i>5675.1</i>
65°	4477.9	8950.7	8594.1	4778.5	<i>4111.1</i>
67.5°	3657.7	7610.9	6342.4	3484.5	<i>3056.6</i>
70°	3015.8	6367.9	4722.4	2710.2	<i>2460.6</i>
72.5°	2358.7	5186.0	3530.4	2200.7	<i>2063.2</i>
75°	1803.4	4187.5	2761.1	1890.0	<i>1793.2</i>
77.5°	1329.6	3311.3	2221.1	1670.9	<i>1579.2</i>
80°	932.3	2608.3	1859.4	1492.6	<i>1457.0</i>
82.5°	626.6	2017.4	1584.3	1421.3	<i>1426.4</i>
85°	382.1	1492.6	1406.0	1375.5	<i>1390.7</i>
87.5°	183.4	1059.6	1207.4	1253.2	<i>1268.5</i>
90°	5.1	540.0	927.2	1059.6	<i>1085.1</i>
92.5°	0.0	412.6	815.1	947.5	<i>973.0</i>
95°	10.2	315.8	738.7	866.0	<i>891.5</i>
97.5°	10.2	259.8	662.3	794.7	<i>810.0</i>
100°	15.3	224.2	590.9	718.3	<i>733.6</i>
102.5°	15.3	198.7	529.8	641.9	<i>652.1</i>
105°	20.4	178.3	478.9	575.7	<i>585.8</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.6	122.3	336.2	407.5	417.7
115°	30.6	101.9	295.5	361.7	371.9
117.5°	35.7	91.7	259.8	320.9	326.0
120°	35.7	76.4	224.2	285.3	290.4
122.5°	35.7	61.1	198.7	254.7	259.8
125°	35.7	50.9	173.2	224.2	229.2
127.5°	30.6	35.7	147.7	198.7	203.8
130°	30.6	30.6	122.3	173.2	183.4
132.5°	30.6	30.6	101.9	152.8	163.0
135°	30.6	30.6	81.5	137.5	142.6
137.5°	30.6	30.6	66.2	117.2	127.4
140°	30.6	30.6	50.9	101.9	107.0
142.5°	35.7	30.6	45.8	86.6	91.7
145°	40.8	30.6	35.7	66.2	76.4
147.5°	40.8	35.7	35.7	56.0	61.1
150°	40.8	40.8	30.6	40.8	50.9
152.5°	40.8	40.8	30.6	30.6	40.8
155°	40.8	40.8	30.6	30.6	30.6
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°	25.5	157.9	427.9	514.5	524.7
110°	25.5	137.5	377.0	458.5	468.7



(END OF REPORT)