

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: P830779

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-N-UNV-L830-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

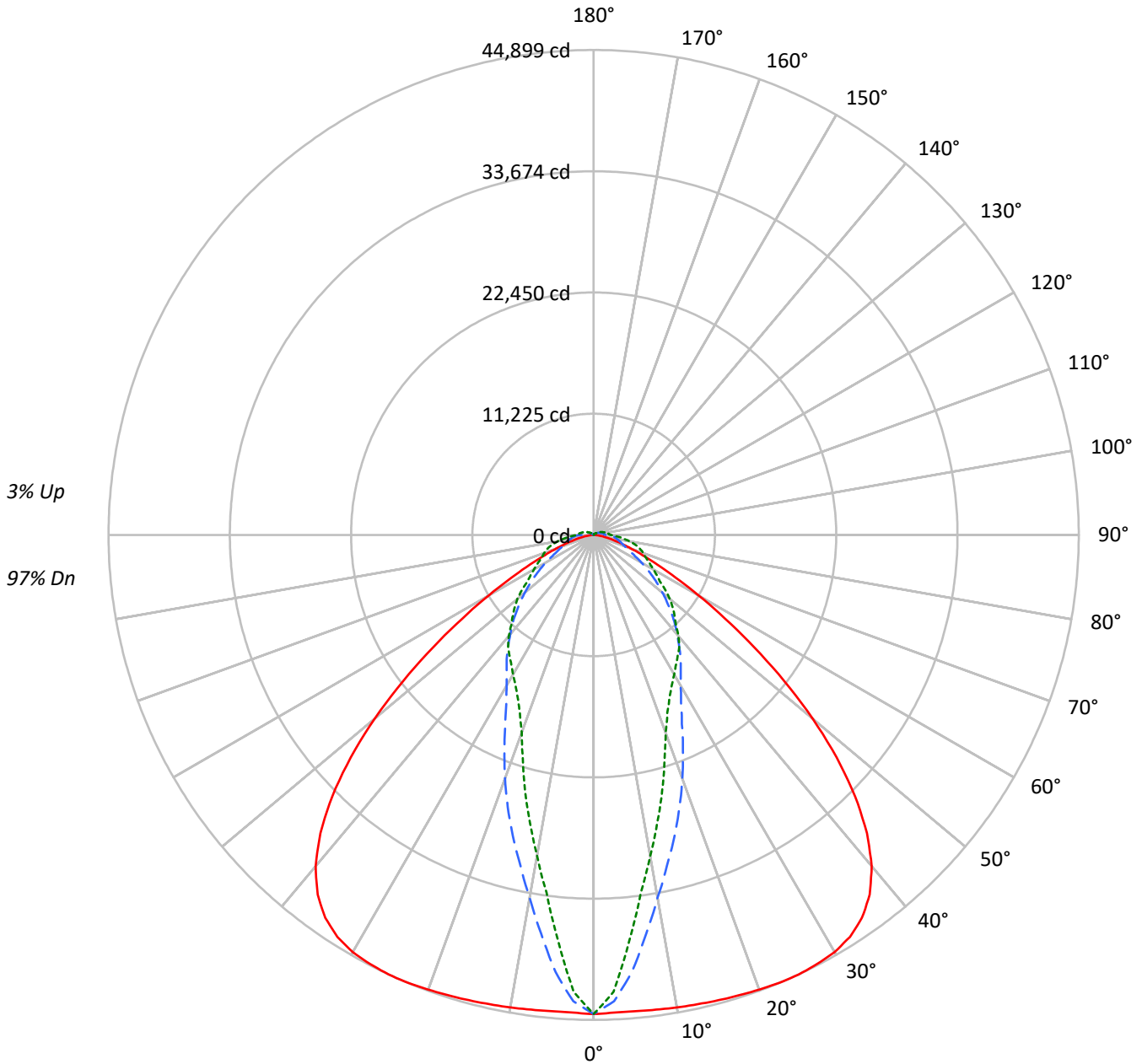
Lumens per Lamp: N/A
Luminaire Lumens: 65463.0 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830779

CATALOG NUMBER: OHBL-72SE-N-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830779

CATALOG NUMBER: OHBL-72SE-N-UNV-L830-CD

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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	70146	70146	70146
5°	70003	63909	59431
10°	70793	53857	47685
15°	72175	46082	39164
20°	74203	38982	31698
25°	76769	32282	27793
30°	79423	27826	25839
35°	81076	25373	24637
40°	79688	22934	23395
45°	73310	20740	21681
50°	61851	18338	20373
55°	46997	16078	18154
60°	32935	13805	17409
65°	22154	11907	17081
70°	15130	11198	17972
75°	10499	11582	19284
80°	7227	12888	19989
85°	4228	16268	21247



TEST NUMBER: P830779

CATALOG NUMBER: OHBL-72SE-N-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3733.7	5.7
10°-20°	8783.4	13.4
20°-30°	11009.9	16.8
30°-40°	11682.7	17.8
40°-50°	10563.0	16.1
50°-60°	7658.9	11.7
60°-70°	4806.3	7.3
70°-80°	3180.7	4.9
80°-90°	1832.4	2.8
90°-100°	887.7	1.4
100°-110°	612.7	0.9
110°-120°	378.1	0.6
120°-130°	183.1	0.3
130°-140°	84.2	0.1
140°-150°	46.0	0.1
150°-160°	20.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	23527.0	35.9
0°-40°	35209.7	53.8
0°-60°	53431.7	81.6
0°-90°	63251.0	96.6
90°-120°	1878.6	2.9
90°-150°	2191.9	3.3
90°-180°	2212.0	3.4
0°-180°	65463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	44355	44355	44355	44355	44355	
5°	44266	43130	40598	38715	37740	###
15°	44604	36355	28875	25679	24514	12649
25°	44899	28111	19334	17160	16616	20743
35°	43291	18688	14032	13593	13589	26912
45°	34223	11837	10169	10414	10592	26071
55°	18118	7337	6636	7198	7455	16371
65°	6480	4255	3842	4922	5471	6743
75°	2001	2292	2579	4006	4247	2231
85°	350	950	1887	2626	2410	420
90°	0	397	1093	1541	1554	23
95°	17	279	962	1309	1368	15
105°	34	186	701	929	954	34
115°	46	131	473	591	604	45
125°	51	68	241	304	300	44
135°	42	51	106	165	165	33
145°	51	55	63	97	93	30
155°	51	63	68	72	63	16
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830779

CATALOG NUMBER: OHBL-72SE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	44354.7	44354.7	44354.7	44354.7	44354.7
2.5°	44261.8	44008.5	43219.1	42737.9	42332.6
5°	44266.0	43130.5	40597.6	38714.8	37739.7
7.5°	44329.3	41804.9	37241.5	34493.4	33421.1
10°	44426.4	40162.8	34109.2	31179.6	30179.1
12.5°	44498.2	38313.8	31352.6	28342.8	27245.2
15°	44603.7	36355.0	28874.7	25679.0	24513.9
17.5°	44700.8	34510.3	26426.2	23087.1	21791.1
20°	44797.9	32522.0	23977.8	20537.3	19469.3
22.5°	44890.8	30423.9	21588.4	18557.5	17827.1
25°	44899.2	28110.6	19334.2	17160.2	16615.6
27.5°	44789.5	25712.8	17506.3	15990.8	15653.1
30°	44599.5	23386.8	16087.9	15146.5	14905.9
32.5°	44126.7	21014.3	14990.3	14331.8	14192.5
35°	43290.9	18688.3	14032.1	13593.0	13588.8
37.5°	41973.8	16624.0	12993.6	12917.6	13010.5
40°	40027.7	14817.3	12010.0	12212.6	12212.6
42.5°	37431.5	13246.9	11119.3	11326.1	11271.2
45°	34223.2	11836.9	10169.4	10414.3	10591.6
47.5°	30504.1	10595.8	9198.5	9671.3	9916.2
50°	26460.0	9413.8	8312.0	8915.7	9194.3
52.5°	22221.7	8320.5	7446.6	8138.9	8362.7
55°	18118.4	7336.9	6636.1	7197.6	7455.1
57.5°	14403.6	6399.7	5842.5	6374.4	6906.3
60°	11207.9	5593.4	5095.3	5855.1	6387.0
62.5°	8561.1	4875.8	4394.5	5369.7	5901.6
65°	6479.9	4255.2	3841.5	4922.2	5471.0
67.5°	4884.2	3719.1	3410.9	4597.1	5133.3
70°	3668.4	3199.9	3064.8	4394.5	4875.8
72.5°	2710.2	2722.8	2790.4	4217.2	4584.5
75°	2001.0	2292.2	2579.3	4006.1	4246.8
77.5°	1431.1	1899.6	2389.3	3752.9	3837.3
80°	992.0	1549.3	2190.9	3419.4	3347.6
82.5°	620.6	1241.1	2013.6	3052.1	2853.7
85°	350.4	949.8	1887.0	2625.7	2410.4
87.5°	156.2	709.2	1650.6	2047.4	1912.3
90°	0.0	396.8	1093.4	1540.8	1553.5
92.5°	8.4	329.3	1008.9	1410.0	1452.2
95°	16.9	278.6	962.5	1308.6	1367.7
97.5°	21.1	244.8	903.4	1215.8	1266.4
100°	25.3	219.5	831.6	1118.7	1160.9
102.5°	29.6	202.6	764.1	1017.4	1051.1
105°	33.8	185.7	700.8	928.7	954.0



TEST NUMBER: P830779

CATALOG NUMBER: OHBL-72SE-N-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.2	143.5	527.7	667.0	688.1
115°	46.4	130.9	472.8	591.0	603.7
117.5°	50.7	114.0	413.7	519.2	523.5
120°	50.7	101.3	354.6	443.3	443.3
122.5°	50.7	84.4	295.5	367.3	363.0
125°	50.7	67.5	240.6	303.9	299.7
127.5°	46.4	54.9	194.2	253.3	249.1
130°	46.4	54.9	156.2	215.3	215.3
132.5°	42.2	50.7	126.6	185.7	185.7
135°	42.2	50.7	105.5	164.6	164.6
137.5°	42.2	54.9	88.7	143.5	143.5
140°	42.2	50.7	76.0	126.6	126.6
142.5°	46.4	50.7	67.5	109.8	109.8
145°	50.7	54.9	63.3	97.1	92.9
147.5°	50.7	59.1	63.3	84.4	80.2
150°	50.7	63.3	63.3	76.0	71.8
152.5°	50.7	63.3	63.3	71.8	67.5
155°	50.7	63.3	67.5	71.8	63.3
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°	33.8	173.1	641.7	831.6	861.2
110°	38.0	156.2	586.8	743.0	772.5



(END OF REPORT)