

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: P829770

Luminaire Tested: **OHBL-12SE-N-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829770
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-12SE-N-UNV-L750-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

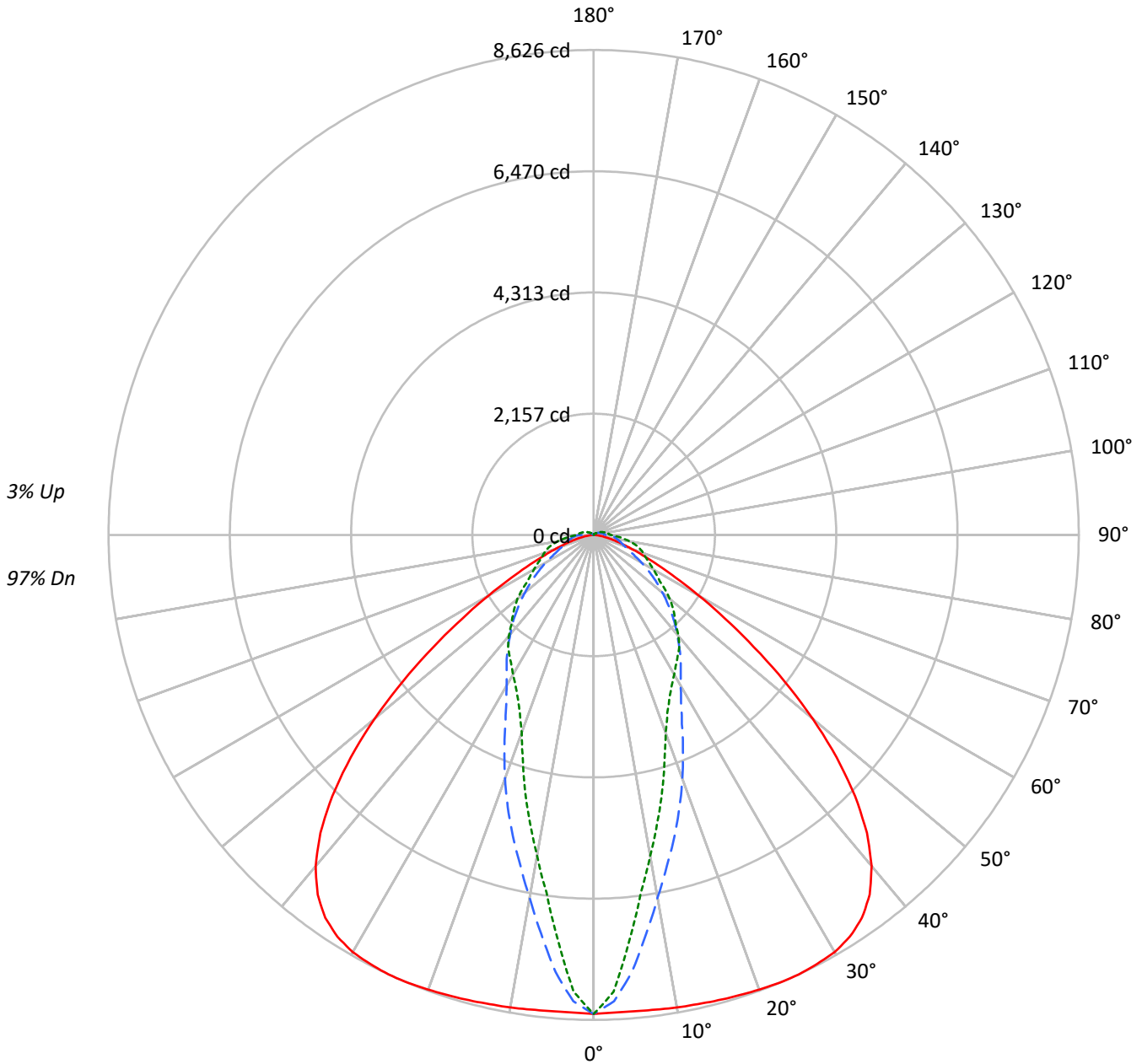
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12576.0 lumens
Efficiency: N/A
Efficacy: 179.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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: P829770
CATALOG NUMBER: OHBL-12SE-N-UNV-L750-CD

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	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°	27721	27721	27721
5°	27665	25106	23289
10°	27977	21032	18530
15°	28524	17888	15091
20°	29325	15039	12109
25°	30339	12376	10523
30°	31387	10595	9691
35°	32040	9592	9148
40°	31492	8601	8590
45°	28972	7709	7863
50°	24443	6748	7286
55°	18573	5846	6386
60°	13016	4947	6003
65°	8755	4190	5744
70°	5979	3847	5849
75°	4149	3847	5993
80°	2857	4063	5791
85°	1670	4672	5440



TEST NUMBER: P829770

CATALOG NUMBER: OHBL-12SE-N-UNV-L750-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.3	5.7
10°-20°	1687.4	13.4
20°-30°	2115.1	16.8
30°-40°	2244.3	17.8
40°-50°	2029.2	16.1
50°-60°	1471.3	11.7
60°-70°	923.3	7.3
70°-80°	611.0	4.9
80°-90°	352.0	2.8
90°-100°	170.5	1.4
100°-110°	117.7	0.9
110°-120°	72.6	0.6
120°-130°	35.2	0.3
130°-140°	16.2	0.1
140°-150°	8.8	0.1
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4519.7	35.9
0°-40°	6764.1	53.8
0°-60°	10264.7	81.6
0°-90°	12151.0	96.6
90°-120°	360.9	2.9
90°-150°	421.1	3.3
90°-180°	425.0	3.4
0°-180°	12576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8521	8521	8521	8521	8521	
5°	8504	8286	7799	7437	7250	813
15°	8569	6984	5547	4933	4709	2430
25°	8626	5400	3714	3297	3192	3985
35°	8316	3590	2696	2611	2610	5170
45°	6575	2274	1954	2001	2035	5008
55°	3481	1410	1275	1383	1432	3145
65°	1245	818	738	946	1051	1295
75°	384	440	496	770	816	428
85°	67	182	362	504	463	81
90°	0	76	210	296	298	4
95°	3	54	185	251	263	3
105°	6	36	135	178	183	7
115°	9	25	91	114	116	9
125°	10	13	46	58	58	8
135°	8	10	20	32	32	6
145°	10	10	12	19	18	6
155°	10	12	13	14	12	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829770

CATALOG NUMBER: OHBL-12SE-N-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8520.9	8520.9	8520.9	8520.9	8520.9
2.5°	8503.1	8454.4	8302.8	8210.3	8132.5
5°	8503.9	8285.7	7799.1	7437.4	7250.1
7.5°	8516.0	8031.1	7154.4	6626.5	6420.5
10°	8534.7	7715.6	6552.7	5989.9	5797.7
12.5°	8548.5	7360.4	6023.1	5444.9	5234.0
15°	8568.8	6984.1	5547.1	4933.2	4709.3
17.5°	8587.4	6629.7	5076.7	4435.2	4186.3
20°	8606.1	6247.7	4606.3	3945.4	3740.2
22.5°	8623.9	5844.7	4147.3	3565.0	3424.7
25°	8625.5	5400.3	3714.3	3296.6	3192.0
27.5°	8604.4	4939.6	3363.1	3072.0	3007.1
30°	8567.9	4492.8	3090.6	2909.8	2863.6
32.5°	8477.1	4037.0	2879.8	2753.3	2726.5
35°	8316.5	3590.2	2695.7	2611.3	2610.5
37.5°	8063.5	3193.6	2496.2	2481.6	2499.4
40°	7689.7	2846.5	2307.2	2346.1	2346.1
42.5°	7190.9	2544.8	2136.1	2175.8	2165.3
45°	6574.6	2274.0	1953.6	2000.7	2034.7
47.5°	5860.1	2035.5	1767.1	1857.9	1905.0
50°	5083.2	1808.5	1596.8	1712.8	1766.3
52.5°	4269.0	1598.4	1430.6	1563.6	1606.5
55°	3480.7	1409.5	1274.9	1382.7	1432.2
57.5°	2767.0	1229.4	1122.4	1224.6	1326.8
60°	2153.1	1074.5	978.8	1124.8	1227.0
62.5°	1644.7	936.7	844.2	1031.6	1133.7
65°	1244.8	817.5	738.0	945.6	1051.0
67.5°	938.3	714.5	655.3	883.2	986.1
70°	704.7	614.7	588.8	844.2	936.7
72.5°	520.6	523.1	536.1	810.2	880.7
75°	384.4	440.4	495.5	769.6	815.8
77.5°	274.9	364.9	459.0	721.0	737.2
80°	190.6	297.6	420.9	656.9	643.1
82.5°	119.2	238.4	386.8	586.3	548.2
85°	67.3	182.5	362.5	504.4	463.1
87.5°	30.0	136.2	317.1	393.3	367.4
90°	0.0	76.2	210.0	296.0	298.4
92.5°	1.6	63.3	193.8	270.9	279.0
95°	3.2	53.5	184.9	251.4	262.8
97.5°	4.1	47.0	173.5	233.6	243.3
100°	4.9	42.2	159.8	214.9	223.0
102.5°	5.7	38.9	146.8	195.4	201.9
105°	6.5	35.7	134.6	178.4	183.3



TEST NUMBER: P829770

CATALOG NUMBER: OHBL-12SE-N-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	27.6	101.4	128.1	132.2
115°	8.9	25.1	90.8	113.5	116.0
117.5°	9.7	21.9	79.5	99.7	100.6
120°	9.7	19.5	68.1	85.2	85.2
122.5°	9.7	16.2	56.8	70.6	69.7
125°	9.7	13.0	46.2	58.4	57.6
127.5°	8.9	10.5	37.3	48.7	47.8
130°	8.9	10.5	30.0	41.4	41.4
132.5°	8.1	9.7	24.3	35.7	35.7
135°	8.1	9.7	20.3	31.6	31.6
137.5°	8.1	10.5	17.0	27.6	27.6
140°	8.1	9.7	14.6	24.3	24.3
142.5°	8.9	9.7	13.0	21.1	21.1
145°	9.7	10.5	12.2	18.7	17.8
147.5°	9.7	11.4	12.2	16.2	15.4
150°	9.7	12.2	12.2	14.6	13.8
152.5°	9.7	12.2	12.2	13.8	13.0
155°	9.7	12.2	13.0	13.8	12.2
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°	6.5	33.2	123.3	159.8	165.4
110°	7.3	30.0	112.7	142.7	148.4



(END OF REPORT)