

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: P829798

Luminaire Tested: **OHBL-12SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829798
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-12SE-W-UNV-L850-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

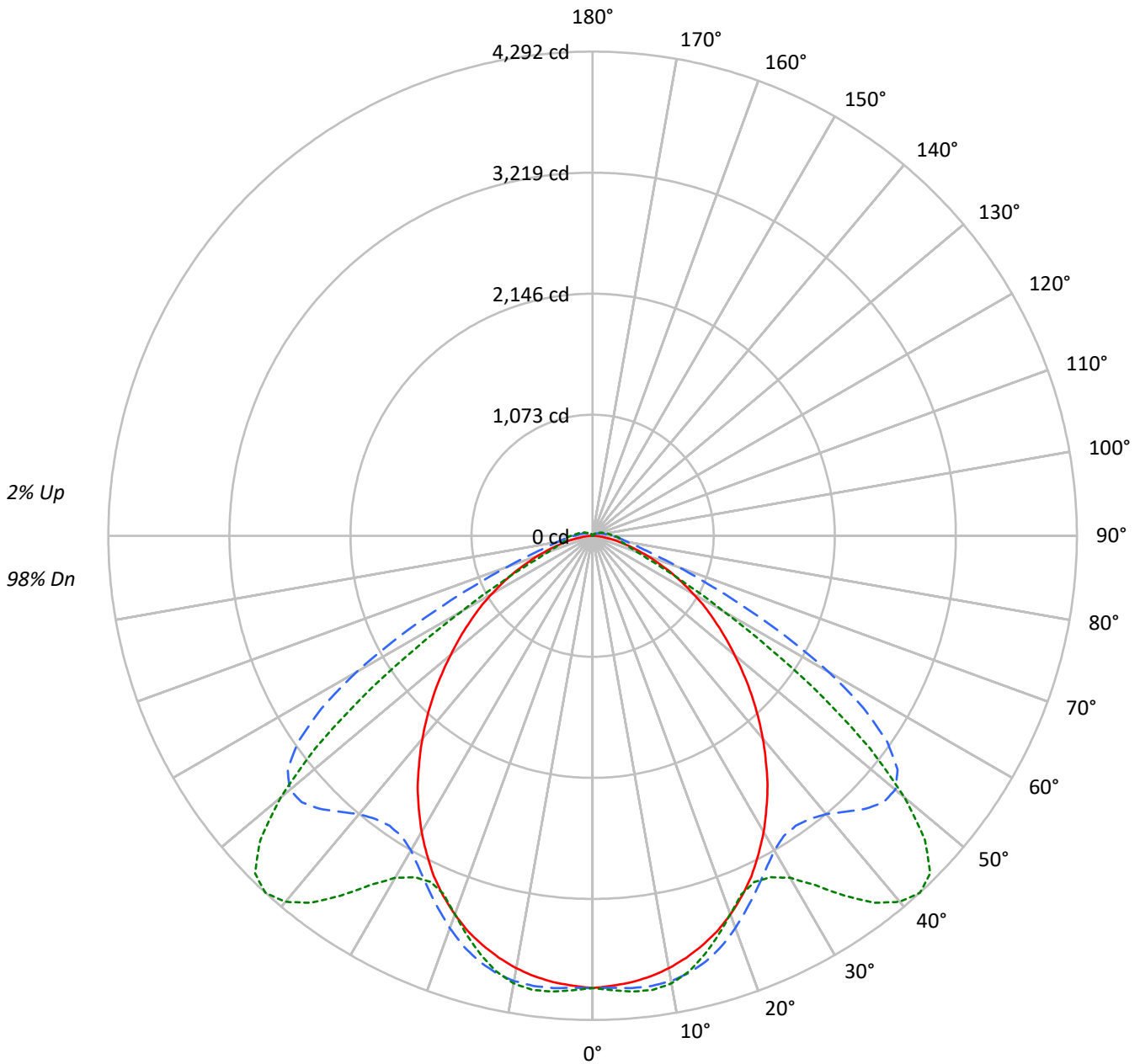
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12005.0 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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

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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	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°	13044	13044	13044
5°	12923	12954	13026
10°	12760	12863	12878
15°	12511	12581	12308
20°	12170	12080	11553
25°	11714	11491	11168
30°	11107	11038	11845
35°	10414	11167	13646
40°	9611	12006	15507
45°	8771	13508	16351
50°	7895	14798	14883
55°	7071	14618	11077
60°	6233	12203	6560
65°	5348	8286	3815
70°	4345	5240	2609
75°	3305	3640	2237
80°	2373	3048	2228
85°	1611	3078	2775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.1	3.2
10°-20°	1085.0	9.0
20°-30°	1587.7	13.2
30°-40°	2061.9	17.2
40°-50°	2517.8	21.0
50°-60°	2217.4	18.5
60°-70°	1155.5	9.6
70°-80°	495.5	4.1
80°-90°	238.0	2.0
90°-100°	111.8	0.9
100°-110°	69.5	0.6
110°-120°	41.1	0.3
120°-130°	22.3	0.2
130°-140°	11.2	0.1
140°-150°	5.4	0.0
150°-160°	1.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3055.8	25.5
0°-40°	5117.7	42.6
0°-60°	9852.9	82.1
0°-90°	11741.8	97.8
90°-120°	222.4	1.9
90°-150°	261.3	2.2
90°-180°	263.0	2.2
0°-180°	12005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4010	4010	4010	4010	4010	
5°	3972	4002	4024	4060	4055	377
15°	3759	3864	3901	3872	3841	1058
25°	3330	3509	3449	3384	3388	1528
35°	2703	2989	3138	3660	3894	1685
45°	1990	2504	3423	4144	4231	1535
55°	1325	2194	3188	2795	2484	1189
65°	760	1520	1459	811	698	752
75°	306	711	469	321	304	334
85°	65	254	239	234	236	72
90°	1	92	157	180	184	5
95°	2	54	125	147	151	1
105°	4	30	81	98	100	4
115°	5	17	50	61	63	5
125°	6	9	29	38	39	5
135°	5	5	14	23	24	4
145°	7	5	6	11	13	4
155°	7	7	5	5	5	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-12SE-W-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4009.5	4009.5	4009.5	4009.5	4009.5
2.5°	3992.2	4009.5	4010.3	4034.5	4031.9
5°	3972.3	4002.5	4024.2	4059.6	4055.3
7.5°	3939.4	3987.0	4025.0	4063.9	4060.5
10°	3892.7	3957.5	4007.7	4039.7	4029.3
12.5°	3832.1	3917.8	3967.1	3974.0	3954.1
15°	3758.6	3864.1	3901.3	3871.9	3840.8
17.5°	3675.5	3799.2	3812.2	3748.2	3709.3
20°	3571.7	3712.7	3699.8	3611.5	3568.3
22.5°	3456.7	3617.6	3576.1	3483.5	3442.0
25°	3330.4	3508.6	3448.9	3384.0	3387.5
27.5°	3182.5	3384.9	3326.9	3356.3	3411.7
30°	3032.0	3255.1	3219.7	3390.9	3499.9
32.5°	2866.7	3121.9	3153.9	3492.2	3670.4
35°	2703.2	2988.7	3138.4	3660.0	3894.4
37.5°	2522.5	2853.8	3163.4	3853.7	4099.4
40°	2346.8	2722.3	3220.5	4027.6	4235.2
42.5°	2167.8	2604.6	3316.6	4130.6	4292.3
45°	1990.5	2504.3	3423.0	4144.4	4230.9
47.5°	1813.1	2419.5	3496.5	4034.5	3994.7
50°	1641.8	2344.3	3501.7	3770.7	3608.1
52.5°	1481.8	2275.0	3406.5	3350.3	3097.7
55°	1325.2	2193.7	3187.7	2794.9	2484.4
57.5°	1182.5	2081.3	2850.3	2198.1	1859.0
60°	1031.1	1929.0	2414.3	1608.1	1340.8
62.5°	891.9	1739.6	1925.6	1119.4	963.7
65°	760.4	1519.9	1459.3	811.4	698.1
67.5°	621.1	1292.4	1077.0	591.7	519.0
70°	512.1	1081.3	801.9	460.2	417.8
72.5°	400.5	880.6	599.5	373.7	350.3
75°	306.2	711.1	468.9	320.9	304.5
77.5°	225.8	562.3	377.2	283.7	268.2
80°	158.3	442.9	315.7	253.5	247.4
82.5°	106.4	342.6	269.0	241.3	242.2
85°	64.9	253.5	238.8	233.6	236.2
87.5°	31.1	179.9	205.0	212.8	215.4
90°	0.9	91.7	157.4	179.9	184.3
92.5°	0.0	70.1	138.4	160.9	165.2
95°	1.7	53.6	125.4	147.1	151.4
97.5°	1.7	44.1	112.5	134.9	137.5
100°	2.6	38.1	100.3	122.0	124.6
102.5°	2.6	33.7	90.0	109.0	110.7
105°	3.5	30.3	81.3	97.7	99.5



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CATALOG NUMBER: OHBL-12SE-W-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	20.8	57.1	69.2	70.9
115°	5.2	17.3	50.2	61.4	63.1
117.5°	6.1	15.6	44.1	54.5	55.4
120°	6.1	13.0	38.1	48.4	49.3
122.5°	6.1	10.4	33.7	43.3	44.1
125°	6.1	8.7	29.4	38.1	38.9
127.5°	5.2	6.1	25.1	33.7	34.6
130°	5.2	5.2	20.8	29.4	31.1
132.5°	5.2	5.2	17.3	26.0	27.7
135°	5.2	5.2	13.8	23.4	24.2
137.5°	5.2	5.2	11.2	19.9	21.6
140°	5.2	5.2	8.7	17.3	18.2
142.5°	6.1	5.2	7.8	14.7	15.6
145°	6.9	5.2	6.1	11.2	13.0
147.5°	6.9	6.1	6.1	9.5	10.4
150°	6.9	6.9	5.2	6.9	8.7
152.5°	6.9	6.9	5.2	5.2	6.9
155°	6.9	6.9	5.2	5.2	5.2
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°	4.3	26.8	72.7	87.4	89.1
110°	4.3	23.4	64.0	77.9	79.6



(END OF REPORT)