

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: P828850

Luminaire Tested: **OHB-12SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-12SE-NL-UNV-L850-CD
Description: 12000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

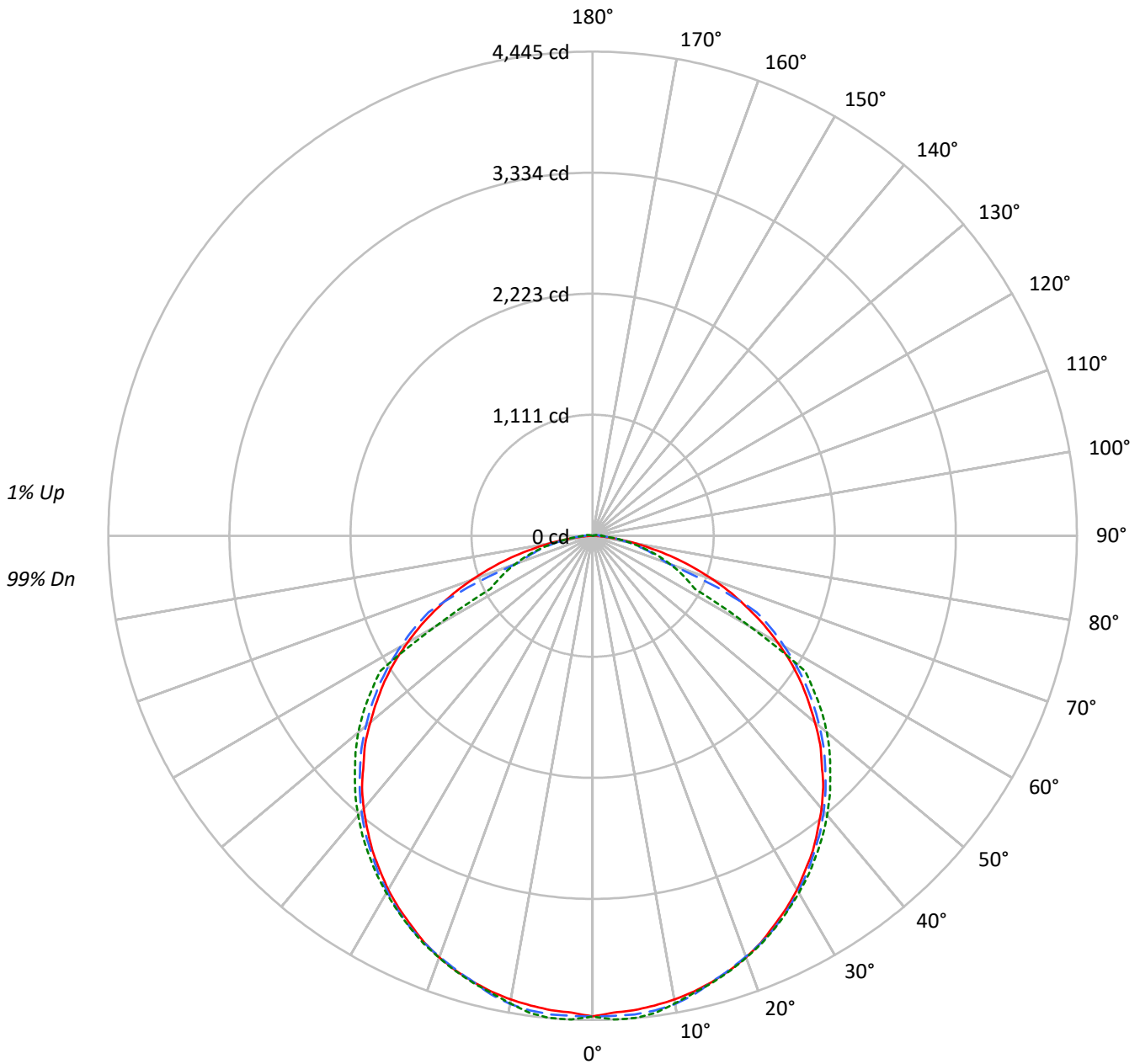
Lumens per Lamp: N/A
Luminaire Lumens: 12389.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 1.93' x H: 0')
CIE Type: Direct

Input Watts (W): 76
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28077	28077	28077
5°	27922	28175	28387
10°	27930	28195	28161
15°	27925	27920	27981
20°	27887	27845	27913
25°	27697	27838	27859
30°	27568	27710	27819
35°	27390	27540	27798
40°	27153	27410	27816
45°	26762	27166	27758
50°	26358	26895	27783
55°	25854	26524	27478
60°	24988	25874	21392
65°	23641	25017	14396
70°	21867	13279	13973
75°	19073	12619	13344
80°	14668	11575	12228
85°	7403	11703	11980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.2	3.4
10°-20°	1200.3	9.7
20°-30°	1826.4	14.7
30°-40°	2220.7	17.9
40°-50°	2334.9	18.8
50°-60°	2132.1	17.2
60°-70°	1366.7	11.0
70°-80°	645.6	5.2
80°-90°	179.0	1.4
90°-100°	47.4	0.4
100°-110°	13.0	0.1
110°-120°	3.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3446.0	27.8
0°-40°	5666.6	45.7
0°-60°	10133.6	81.8
0°-90°	12325.0	99.5
90°-120°	64.0	0.5
90°-150°	64.0	0.5
90°-180°	64.0	0.5
0°-180°	12389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4413	4413	4413	4413	4413	
5°	4372	4389	4411	4435	4444	416
15°	4239	4271	4238	4245	4248	1197
25°	3945	3951	3965	3971	3968	1820
35°	3526	3505	3545	3589	3579	2204
45°	2974	2969	3019	3090	3085	2299
55°	2331	2313	2391	2471	2477	2078
65°	1570	1570	1662	953	956	1557
75°	776	791	513	540	543	818
85°	101	128	160	174	164	150
90°	0	43	71	84	83	4
95°	2	22	51	69	69	1
105°	4	8	12	12	12	4
115°	4	5	8	5	1	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
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: OHB-12SE-NL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4412.6	4412.6	4412.6	4412.6	4412.6
2.5°	4381.7	4396.4	4412.6	4433.5	4445.1
5°	4371.6	4388.6	4411.1	4435.1	4444.4
7.5°	4349.9	4373.9	4395.6	4412.6	4418.1
10°	4322.8	4351.5	4363.9	4362.3	4358.5
12.5°	4286.4	4316.6	4312.8	4294.9	4298.0
15°	4239.2	4270.9	4238.4	4244.6	4247.7
17.5°	4183.4	4214.4	4176.5	4188.9	4189.7
20°	4118.4	4141.6	4112.2	4122.3	4122.3
22.5°	4040.2	4056.5	4044.1	4051.1	4052.6
25°	3945.0	3951.1	3965.1	3971.3	3968.2
27.5°	3853.7	3845.9	3873.0	3887.7	3879.9
30°	3752.2	3739.8	3771.5	3795.5	3786.3
32.5°	3636.0	3628.3	3664.7	3693.3	3687.9
35°	3526.1	3505.2	3545.4	3588.8	3578.7
37.5°	3396.0	3383.6	3429.3	3475.0	3469.6
40°	3269.0	3248.1	3300.0	3354.2	3348.8
42.5°	3132.8	3107.9	3164.5	3229.6	3223.3
45°	2974.0	2968.6	3018.9	3090.1	3084.7
47.5°	2833.1	2806.0	2876.4	2945.4	2951.6
50°	2662.7	2652.7	2717.0	2800.6	2806.7
52.5°	2496.3	2489.3	2556.6	2641.1	2651.9
55°	2330.6	2312.8	2391.0	2470.7	2477.0
57.5°	2153.3	2134.7	2214.5	2301.2	2314.3
60°	1963.6	1945.8	2033.2	2113.8	1681.0
62.5°	1773.9	1761.5	1852.9	1312.4	1057.7
65°	1570.2	1570.2	1661.6	953.1	956.2
67.5°	1379.8	1367.4	1238.9	856.3	856.3
70°	1175.4	1180.0	713.8	750.3	751.1
72.5°	970.2	987.2	616.4	645.7	647.3
75°	775.8	790.6	513.3	540.5	542.8
77.5°	569.9	438.2	412.7	433.6	434.4
80°	400.3	276.4	315.9	336.0	333.7
82.5°	233.8	193.5	231.5	246.3	245.4
85°	101.4	128.5	160.3	173.5	164.1
87.5°	32.5	79.8	99.8	107.6	106.8
90°	0.0	43.4	71.2	84.4	82.9
92.5°	0.0	34.0	62.0	77.5	78.2
95°	2.3	22.5	51.2	68.9	68.9
97.5°	1.6	16.2	36.4	54.2	55.7
100°	1.6	13.1	24.0	38.7	39.5
102.5°	3.9	10.8	14.7	24.8	25.6
105°	3.9	8.5	12.4	12.4	11.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	6.2	8.5	6.2	0.7
115°	3.9	5.4	7.7	5.4	0.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	3.9	7.7	10.8	7.0	2.3
110°	4.7	7.0	9.3	6.2	0.7



(END OF REPORT)