

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: P830002

Luminaire Tested: **OHBL-18SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830002
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: OHBL-18SE-NL-UNV-L850-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

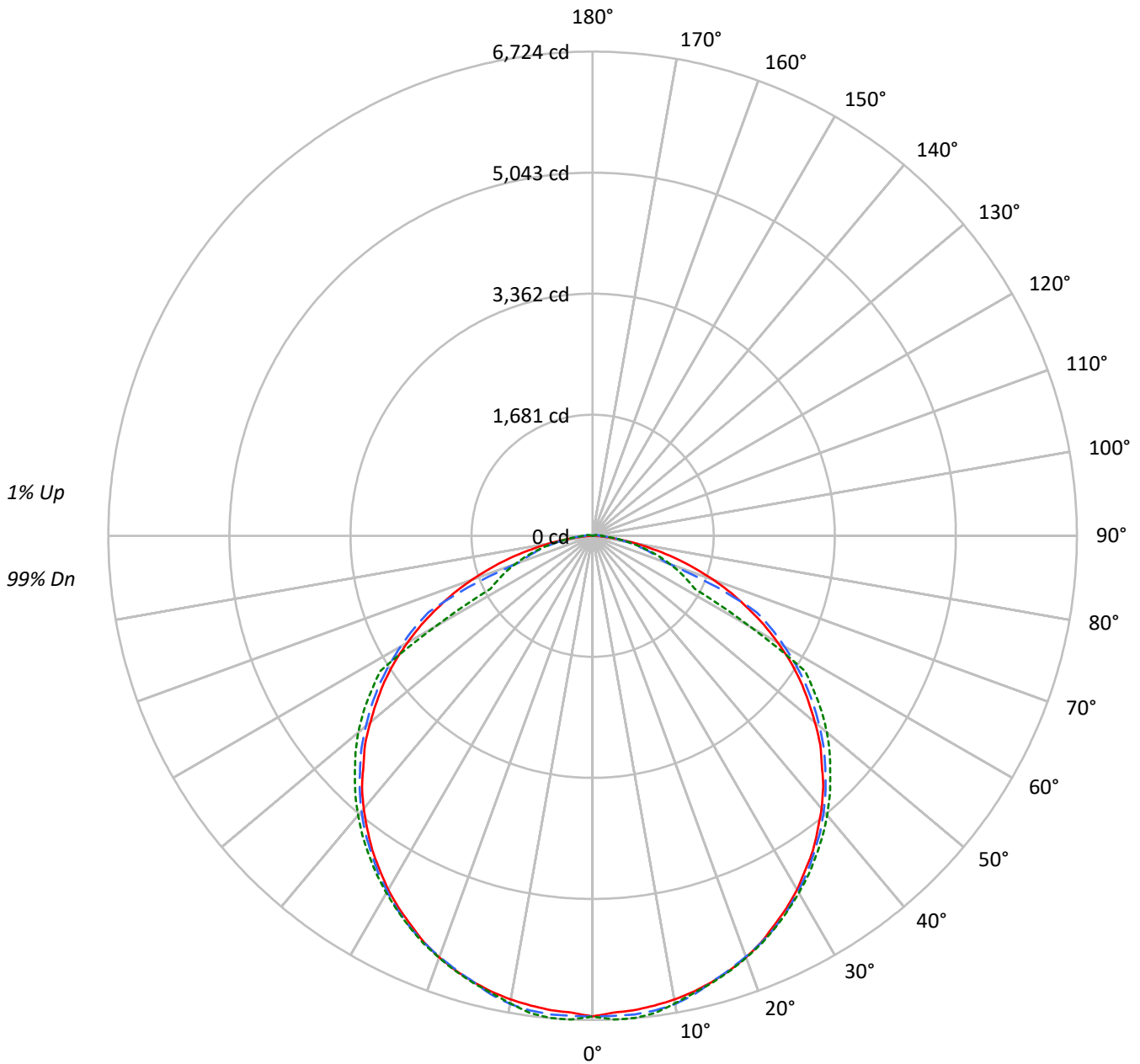
Lumens per Lamp: N/A
Luminaire Lumens: 18741.0 lumens
Efficiency: N/A
Efficacy: 178.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 105
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	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°	11401	11401	11401
5°	11338	11440	11527
10°	11341	11449	11435
15°	11339	11337	11362
20°	11324	11307	11334
25°	11246	11304	11312
30°	11194	11252	11296
35°	11122	11183	11288
40°	11026	11130	11295
45°	10867	11031	11271
50°	10703	10921	11282
55°	10498	10770	11157
60°	10146	10507	8686
65°	9600	10158	5846
70°	8879	5392	5673
75°	7745	5124	5418
80°	5956	4701	4965
85°	3006	4750	4866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.2	3.4
10°-20°	1815.8	9.7
20°-30°	2762.8	14.7
30°-40°	3359.2	17.9
40°-50°	3532.1	18.8
50°-60°	3225.2	17.2
60°-70°	2067.5	11.0
70°-80°	976.7	5.2
80°-90°	270.8	1.4
90°-100°	71.7	0.4
100°-110°	19.6	0.1
110°-120°	5.4	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°	5212.7	27.8
0°-40°	8572.0	45.7
0°-60°	15329.2	81.8
0°-90°	18644.2	99.5
90°-120°	96.8	0.5
90°-150°	96.8	0.5
90°-180°	97.0	0.5
0°-180°	18741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6675	6675	6675	6675	6675	
5°	6613	6639	6673	6709	6723	629
15°	6413	6461	6412	6421	6426	1810
25°	5968	5977	5998	6007	6003	2754
35°	5334	5302	5363	5429	5414	3333
45°	4499	4491	4567	4674	4666	3477
55°	3526	3499	3617	3738	3747	3144
65°	2375	2375	2514	1442	1446	2355
75°	1174	1196	776	818	821	1237
85°	153	194	242	262	248	227
90°	0	66	108	128	125	7
95°	4	34	77	104	104	2
105°	6	13	19	19	18	6
115°	6	8	12	8	1	4
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6675.1	6675.1	6675.1	6675.1	6675.1
2.5°	6628.2	6650.5	6675.1	6706.7	6724.2
5°	6612.9	6638.7	6672.7	6709.0	6723.1
7.5°	6580.2	6616.4	6649.3	6675.1	6683.2
10°	6539.2	6582.6	6601.3	6598.9	6593.1
12.5°	6484.1	6529.9	6524.0	6497.0	6501.7
15°	6412.7	6460.7	6411.6	6420.9	6425.6
17.5°	6328.3	6375.2	6317.8	6336.5	6337.8
20°	6230.0	6265.1	6220.6	6235.8	6235.8
22.5°	6111.7	6136.3	6117.5	6128.1	6130.4
25°	5967.6	5976.9	5998.0	6007.4	6002.7
27.5°	5829.5	5817.7	5858.7	5880.9	5869.2
30°	5676.0	5657.2	5705.2	5741.6	5727.5
32.5°	5500.2	5488.6	5543.6	5586.9	5578.7
35°	5333.9	5302.3	5363.2	5428.8	5413.6
37.5°	5137.2	5118.4	5187.5	5256.7	5248.5
40°	4945.1	4913.4	4991.9	5073.9	5065.7
42.5°	4739.0	4701.4	4787.0	4885.4	4876.0
45°	4498.8	4490.6	4566.7	4674.5	4666.3
47.5°	4285.7	4244.7	4351.2	4455.5	4464.9
50°	4027.9	4012.8	4110.0	4236.5	4245.8
52.5°	3776.2	3765.7	3867.5	3995.2	4011.6
55°	3525.5	3498.6	3616.9	3737.5	3746.9
57.5°	3257.4	3229.2	3349.9	3481.1	3500.9
60°	2970.3	2943.4	3075.7	3197.6	2542.8
62.5°	2683.3	2664.6	2802.9	1985.3	1600.0
65°	2375.3	2375.3	2513.5	1441.8	1446.5
67.5°	2087.3	2068.5	1874.1	1295.4	1295.4
70°	1778.0	1785.1	1079.8	1135.0	1136.1
72.5°	1467.6	1493.4	932.4	976.8	979.1
75°	1173.6	1195.9	776.5	817.6	821.0
77.5°	862.1	662.9	624.2	656.0	657.1
80°	605.5	418.1	477.9	508.3	504.8
82.5°	353.7	292.8	350.2	372.5	371.3
85°	153.4	194.4	242.4	262.4	248.3
87.5°	49.1	120.7	151.0	162.8	161.6
90°	0.0	65.6	107.8	127.6	125.4
92.5°	0.0	51.5	93.7	117.2	118.3
95°	3.5	34.0	77.4	104.3	104.3
97.5°	2.4	24.6	55.1	82.0	84.3
100°	2.4	19.8	36.3	58.5	59.8
102.5°	5.8	16.4	22.2	37.4	38.7
105°	5.8	12.9	18.7	18.7	17.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	9.4	12.9	9.4	1.1
115°	5.8	8.2	11.7	8.2	1.1
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°	5.8	11.7	16.4	10.5	3.5
110°	7.1	10.5	14.0	9.4	1.1



(END OF REPORT)