

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: P830000

Luminaire Tested: **OHBL-18SE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830000
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-L835-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

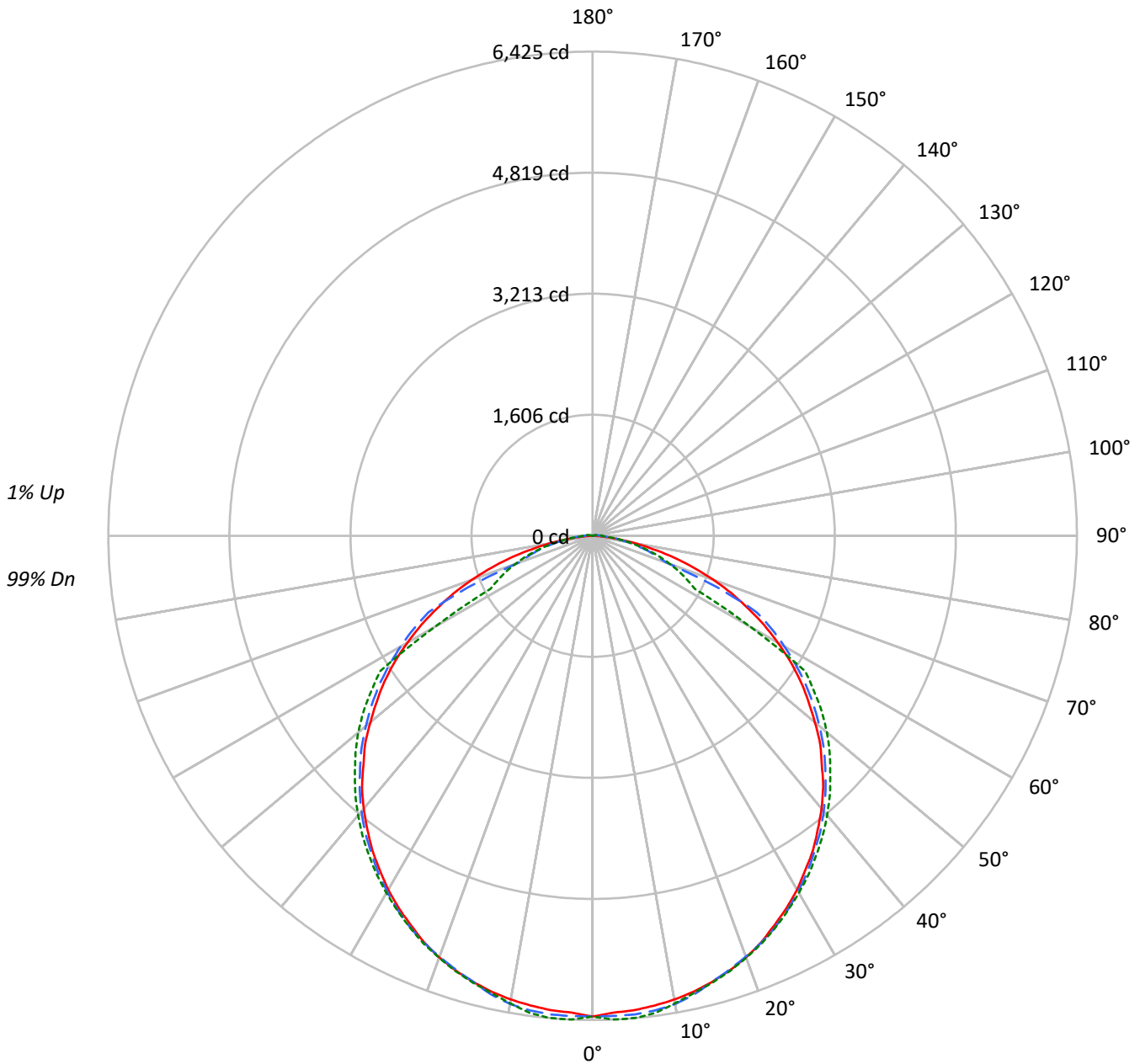
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17908.0 lumens
Efficiency: N/A
Efficacy: 170.6 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°	10894	10894	10894
5°	10834	10932	11014
10°	10837	10940	10926
15°	10835	10833	10857
20°	10820	10804	10831
25°	10747	10801	10810
30°	10697	10752	10794
35°	10627	10686	10786
40°	10536	10636	10793
45°	10384	10540	10770
50°	10227	10435	10780
55°	10032	10292	10662
60°	9696	10040	8300
65°	9173	9706	5586
70°	8485	5153	5421
75°	7400	4897	5177
80°	5691	4492	4745
85°	2873	4541	4648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.0	3.4
10°-20°	1735.1	9.7
20°-30°	2640.0	14.7
30°-40°	3209.9	17.9
40°-50°	3375.1	18.8
50°-60°	3081.8	17.2
60°-70°	1975.6	11.0
70°-80°	933.3	5.2
80°-90°	258.8	1.4
90°-100°	68.5	0.4
100°-110°	18.8	0.1
110°-120°	5.2	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°	4981.1	27.8
0°-40°	8191.0	45.7
0°-60°	14647.9	81.8
0°-90°	17815.5	99.5
90°-120°	92.5	0.5
90°-150°	92.5	0.5
90°-180°	93.0	0.5
0°-180°	17908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6378	6378	6378	6378	6378	
5°	6319	6344	6376	6411	6424	601
15°	6128	6174	6127	6136	6140	1730
25°	5702	5711	5731	5740	5736	2631
35°	5097	5067	5125	5188	5173	3185
45°	4299	4291	4364	4467	4459	3323
55°	3369	3343	3456	3571	3580	3004
65°	2270	2270	2402	1378	1382	2250
75°	1121	1143	742	781	784	1182
85°	147	186	232	251	237	217
90°	0	63	103	122	120	6
95°	3	32	74	100	100	2
105°	6	12	18	18	17	6
115°	6	8	11	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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CATALOG NUMBER: OHBL-18SE-NL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6378.4	6378.4	6378.4	6378.4	6378.4
2.5°	6333.6	6354.9	6378.4	6408.6	6425.3
5°	6319.0	6343.7	6376.1	6410.8	6424.2
7.5°	6287.7	6322.3	6353.7	6378.4	6386.2
10°	6248.5	6290.0	6307.9	6305.6	6300.0
12.5°	6195.9	6239.6	6234.0	6208.2	6212.7
15°	6127.6	6173.5	6126.6	6135.5	6140.0
17.5°	6047.1	6091.9	6037.0	6054.9	6056.1
20°	5953.1	5986.6	5944.1	5958.7	5958.7
22.5°	5840.1	5863.5	5845.6	5855.7	5857.9
25°	5702.4	5711.3	5731.4	5740.4	5735.9
27.5°	5570.4	5559.1	5598.3	5619.5	5608.3
30°	5423.7	5405.8	5451.6	5486.4	5473.0
32.5°	5255.8	5244.6	5297.2	5338.6	5330.8
35°	5096.9	5066.6	5124.8	5187.5	5172.9
37.5°	4908.8	4890.9	4956.9	5023.0	5015.2
40°	4725.3	4695.1	4770.1	4848.4	4840.6
42.5°	4528.3	4492.4	4574.2	4668.3	4659.3
45°	4298.8	4291.0	4363.7	4466.7	4458.9
47.5°	4095.2	4056.0	4157.8	4257.5	4266.5
50°	3848.9	3834.4	3927.3	4048.2	4057.1
52.5°	3608.4	3598.3	3695.6	3817.6	3833.3
55°	3368.8	3343.0	3456.1	3571.4	3580.4
57.5°	3112.6	3085.7	3201.0	3326.3	3345.3
60°	2838.3	2812.6	2939.0	3055.5	2429.8
62.5°	2564.1	2546.2	2678.3	1897.1	1528.9
65°	2269.7	2269.7	2401.7	1377.7	1382.2
67.5°	1994.5	1976.6	1790.8	1237.8	1237.8
70°	1699.0	1705.7	1031.8	1084.6	1085.6
72.5°	1402.4	1427.0	891.0	933.4	935.6
75°	1121.4	1142.7	742.0	781.2	784.5
77.5°	823.8	633.5	596.5	626.8	627.9
80°	578.6	399.6	456.7	485.7	482.4
82.5°	337.9	279.8	334.6	356.0	354.8
85°	146.6	185.8	231.7	250.7	237.2
87.5°	46.9	115.3	144.3	155.6	154.4
90°	0.0	62.7	103.0	121.9	119.8
92.5°	0.0	49.2	89.6	112.0	113.0
95°	3.3	32.5	73.9	99.7	99.7
97.5°	2.3	23.5	52.6	78.3	80.6
100°	2.3	19.0	34.7	55.9	57.1
102.5°	5.6	15.6	21.2	35.8	37.0
105°	5.6	12.3	17.9	17.9	16.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	9.0	12.3	9.0	1.1
115°	5.6	7.8	11.1	7.8	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°	5.6	11.1	15.6	10.1	3.3
110°	6.8	10.1	13.4	9.0	1.1



(END OF REPORT)