

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: P829964

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MCL-UNV-L835-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

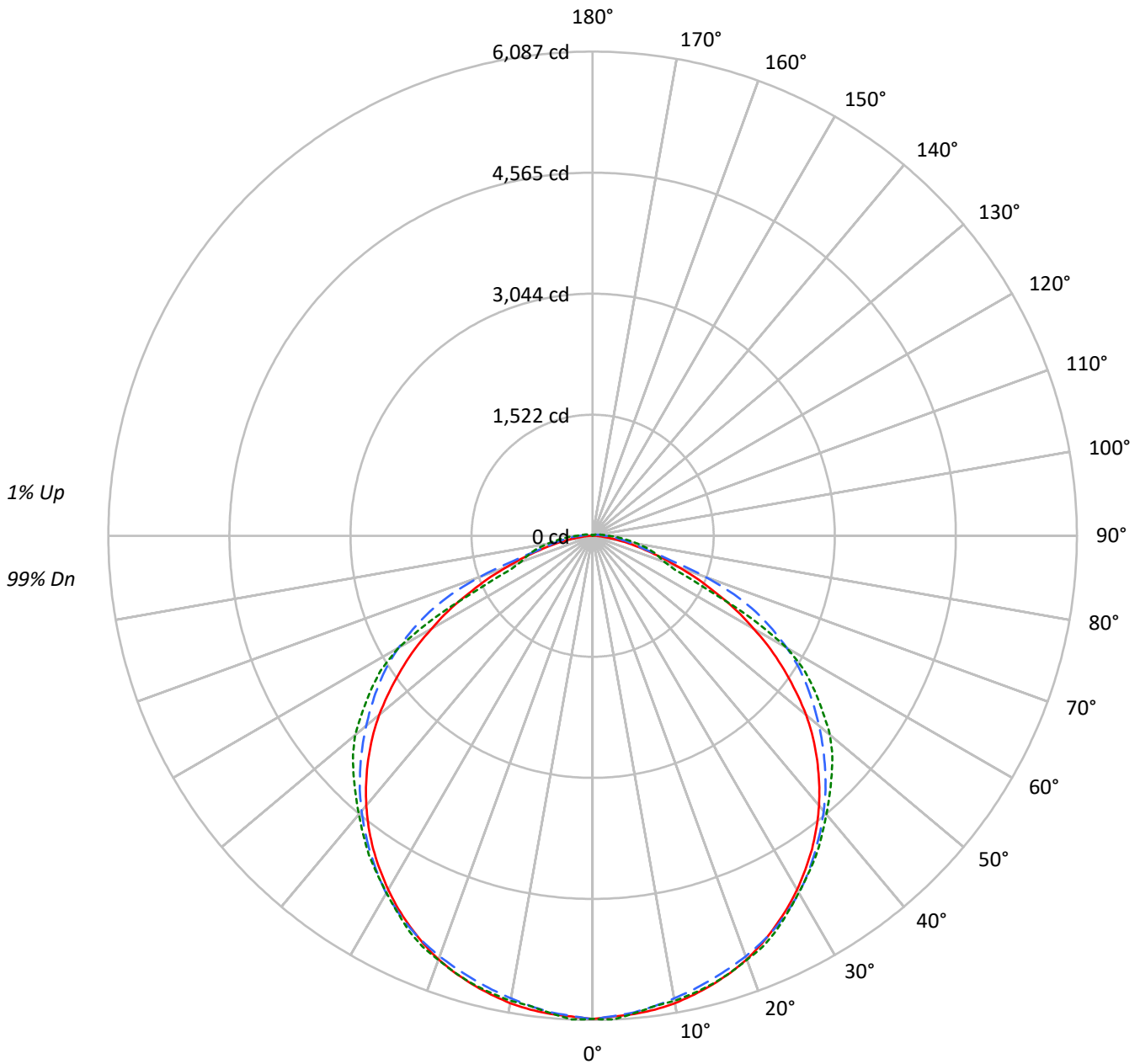
Lumens per Lamp: N/A
Luminaire Lumens: 17169.0 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P829964

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L835-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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10375	10375	10375
5°	10307	10220	10239
10°	10269	10060	10119
15°	10204	9940	10045
20°	10139	9862	9949
25°	10017	9784	9854
30°	9884	9664	9661
35°	9725	9475	9550
40°	9518	9280	9402
45°	9231	9055	9331
50°	8843	8799	9246
55°	8225	8546	8889
60°	7417	8178	8204
65°	6363	7504	5188
70°	5125	5846	3750
75°	3843	3460	3790
80°	2675	2864	3594
85°	1522	2600	3325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.8	3.3
10°-20°	1642.4	9.6
20°-30°	2508.5	14.6
30°-40°	3043.6	17.7
40°-50°	3190.0	18.6
50°-60°	2890.6	16.8
60°-70°	1938.1	11.3
70°-80°	870.3	5.1
80°-90°	315.8	1.8
90°-100°	95.1	0.6
100°-110°	44.8	0.3
110°-120°	22.5	0.1
120°-130°	12.4	0.1
130°-140°	8.5	0.0
140°-150°	5.7	0.0
150°-160°	4.3	0.0
160°-170°	2.7	0.0
170°-180°	0.9	0.0
0°-30°	4723.6	27.5
0°-40°	7767.3	45.2
0°-60°	13847.9	80.7
0°-90°	16972.1	98.9
90°-120°	162.4	0.9
90°-150°	189.1	1.1
90°-180°	197.0	1.1
0°-180°	17169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6074	6074	6074	6074	6074	
5°	6035	6056	6014	6032	6024	574
15°	5839	5816	5775	5826	5833	1649
25°	5424	5401	5438	5489	5473	2500
35°	4808	4819	4868	4920	4901	3005
45°	3990	4055	4131	4236	4249	3074
55°	2936	3078	3288	3419	3411	2621
65°	1723	1993	2262	1910	1559	1717
75°	678	984	724	740	789	741
85°	117	224	287	347	364	143
90°	1	75	148	186	195	7
95°	1	47	102	124	127	1
105°	4	20	50	61	63	4
115°	7	10	26	32	34	7
125°	6	7	16	18	19	6
135°	8	9	10	14	15	6
145°	8	9	9	10	10	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



TEST NUMBER: P829964

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6074.4	6074.4	6074.4	6074.4	6074.4
2.5°	6049.8	6075.3	6043.7	6077.9	6086.7
5°	6034.9	6056.0	6013.8	6032.2	6024.3
7.5°	6007.7	6014.7	5964.6	5979.5	5963.7
10°	5967.3	5963.7	5904.9	5933.9	5937.4
12.5°	5907.5	5897.0	5844.3	5888.2	5889.1
15°	5839.0	5816.2	5774.9	5825.8	5832.9
17.5°	5760.0	5730.1	5702.9	5768.8	5758.2
20°	5667.7	5632.6	5627.3	5699.4	5673.0
22.5°	5553.6	5526.3	5538.6	5607.1	5590.5
25°	5424.5	5400.7	5438.5	5488.6	5472.8
27.5°	5288.3	5274.3	5317.3	5355.9	5325.2
30°	5139.0	5131.1	5188.2	5219.8	5181.2
32.5°	4976.5	4979.2	5033.6	5076.6	5040.6
35°	4807.9	4819.3	4868.5	4920.3	4901.0
37.5°	4622.6	4648.0	4697.2	4756.1	4735.9
40°	4426.7	4463.6	4518.0	4589.2	4570.7
42.5°	4215.0	4261.6	4331.8	4410.9	4409.1
45°	3990.2	4055.2	4130.7	4236.1	4249.3
47.5°	3756.5	3829.4	3925.2	4065.7	4085.9
50°	3502.7	3594.1	3713.5	3882.1	3894.4
52.5°	3219.9	3344.6	3502.7	3664.3	3649.4
55°	2936.2	3077.6	3287.5	3419.3	3411.4
57.5°	2653.4	2812.4	3067.1	3161.0	3160.2
60°	2337.2	2538.3	2816.7	2887.9	2817.6
62.5°	2044.7	2260.8	2549.7	2497.9	2257.3
65°	1723.2	1992.9	2262.5	1909.5	1559.0
67.5°	1437.8	1718.9	1921.7	1307.8	1119.8
70°	1150.6	1460.6	1498.4	970.5	957.4
72.5°	895.9	1226.1	1033.8	830.9	873.0
75°	678.1	983.7	723.7	740.4	788.7
77.5°	494.5	755.3	563.0	649.1	688.6
80°	339.9	534.9	459.4	545.4	572.7
82.5°	213.4	353.1	368.0	439.2	467.3
85°	116.8	224.0	287.2	346.9	363.6
87.5°	48.3	135.3	219.6	267.9	281.9
90°	0.9	74.7	148.4	186.2	195.0
92.5°	0.9	57.1	121.2	150.2	156.3
95°	0.9	46.6	101.9	123.8	127.4
97.5°	1.8	36.9	85.2	102.8	106.3
100°	2.6	30.7	71.1	86.1	88.7
102.5°	3.5	24.6	59.7	72.0	74.7
105°	3.5	20.2	50.1	60.6	63.2



TEST NUMBER: P829964

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	12.3	29.9	37.8	39.5
115°	7.0	10.5	25.5	32.5	34.3
117.5°	7.0	8.8	22.0	27.2	29.0
120°	7.0	7.9	19.3	23.7	24.6
122.5°	7.0	7.0	16.7	21.1	22.0
125°	6.1	7.0	15.8	18.4	19.3
127.5°	7.0	7.0	14.1	16.7	17.6
130°	7.0	7.9	12.3	15.8	15.8
132.5°	7.9	8.8	11.4	14.9	14.9
135°	7.9	8.8	9.7	14.1	14.9
137.5°	8.8	8.8	8.8	13.2	14.1
140°	8.8	8.8	7.9	11.4	12.3
142.5°	7.9	8.8	7.9	10.5	11.4
145°	7.9	8.8	8.8	9.7	10.5
147.5°	8.8	8.8	8.8	8.8	9.7
150°	8.8	8.8	8.8	8.8	8.8
152.5°	8.8	8.8	8.8	8.8	8.8
155°	8.8	9.7	9.7	9.7	8.8
157.5°	8.8	9.7	9.7	9.7	9.7
160°	8.8	9.7	9.7	9.7	9.7
162.5°	9.7	9.7	9.7	9.7	9.7
165°	9.7	9.7	9.7	9.7	9.7
167.5°	9.7	10.5	9.7	9.7	9.7
170°	9.7	9.7	9.7	8.8	8.8
172.5°	9.7	9.7	9.7	8.8	8.8
175°	9.7	9.7	8.8	7.9	7.9
177.5°	10.5	9.7	8.8	7.9	7.0
180°	8.8	8.8	8.8	8.8	8.8



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	4.4	16.7	43.0	51.8	53.6
110°	5.3	14.1	36.0	43.9	45.7



(END OF REPORT)