

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: P829904

Luminaire Tested: **OHBL-18HE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-MFL-UNV-L835-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

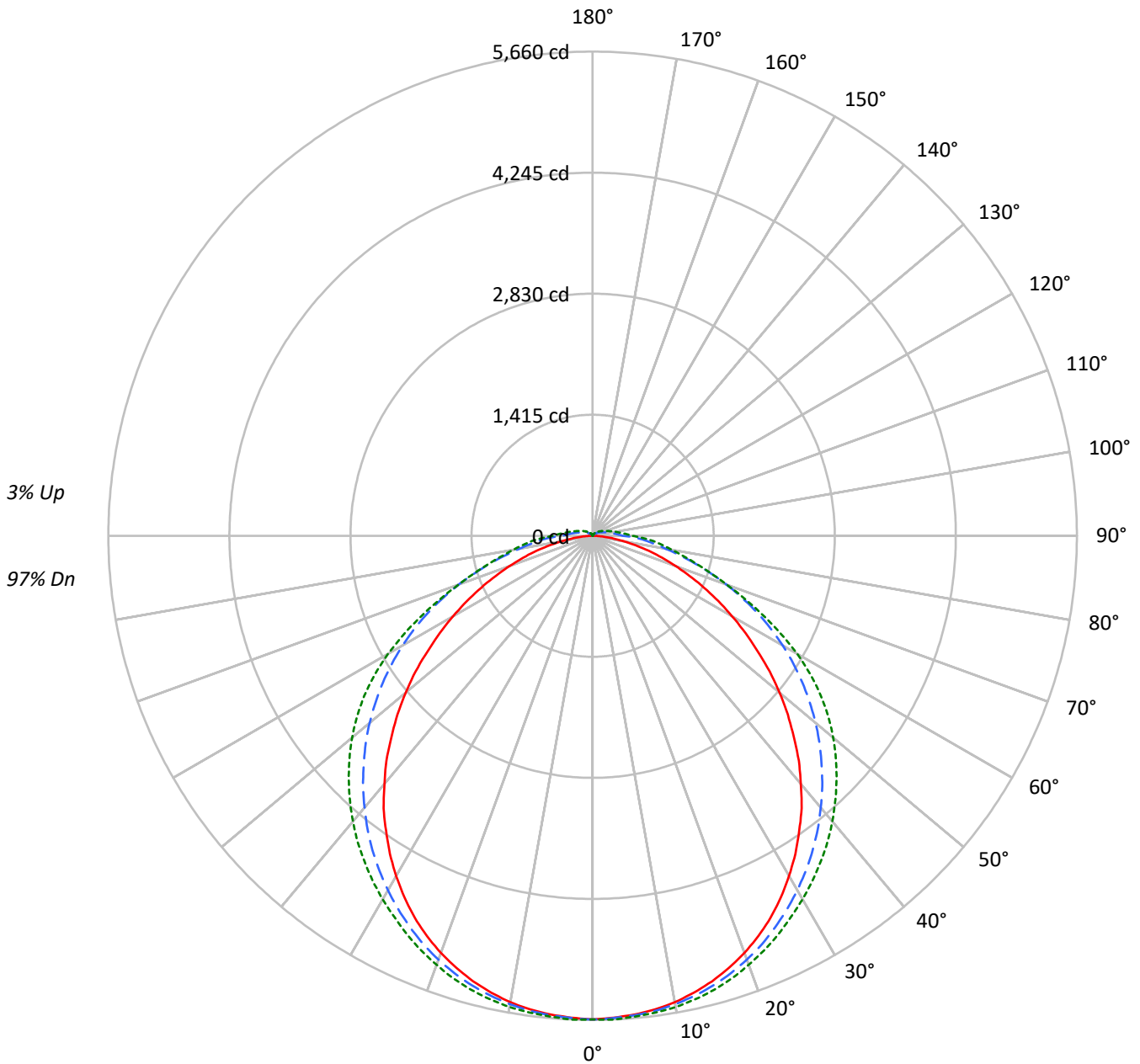
Lumens per Lamp: N/A
Luminaire Lumens: 16924.0 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	97	97	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	80	80	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	66	66	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	56	56	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	47	47	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	41	41	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	36	36	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	32	32	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	28	28	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	25	25	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9658	9658	9658
5°	9597	9563	9590
10°	9529	9474	9534
15°	9423	9369	9462
20°	9282	9241	9359
25°	9093	9083	9255
30°	8832	8911	9150
35°	8515	8730	9058
40°	8135	8519	8967
45°	7687	8291	8853
50°	7197	8060	8714
55°	6595	7778	8485
60°	5978	7446	8039
65°	5304	7023	7313
70°	4574	6485	6527
75°	3835	5862	5986
80°	2907	5401	5898
85°	1840	5563	6505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	3.2
10°-20°	1537.2	9.1
20°-30°	2324.8	13.7
30°-40°	2790.9	16.5
40°-50°	2882.5	17.0
50°-60°	2593.4	15.3
60°-70°	1953.5	11.5
70°-80°	1179.6	7.0
80°-90°	576.9	3.4
90°-100°	242.8	1.4
100°-110°	138.6	0.8
110°-120°	81.4	0.5
120°-130°	46.0	0.3
130°-140°	24.2	0.1
140°-150°	11.8	0.1
150°-160°	4.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4397.8	26.0
0°-40°	7188.7	42.5
0°-60°	12664.6	74.8
0°-90°	16374.7	96.8
90°-120°	462.8	2.7
90°-150°	544.9	3.2
90°-180°	549.0	3.2
0°-180°	16924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5655	5655	5655	5655	5655	
5°	5619	5634	5627	5649	5642	534
15°	5392	5418	5443	5489	5494	1520
25°	4924	4978	5049	5128	5140	2265
35°	4210	4308	4485	4621	4649	2632
45°	3323	3490	3782	3989	4032	2565
55°	2354	2598	2992	3218	3256	2111
65°	1436	1730	2118	2223	2198	1427
75°	677	972	1226	1258	1246	722
85°	141	372	614	699	711	163
90°	0	145	352	443	461	9
95°	7	98	263	335	347	6
105°	10	57	152	199	208	10
115°	11	32	94	126	132	11
125°	11	15	57	82	86	10
135°	10	12	29	50	55	8
145°	14	12	14	25	29	8
155°	14	15	14	12	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5654.8	5654.8	5654.8	5654.8	5654.8
2.5°	5638.2	5652.1	5643.8	5661.8	5660.4
5°	5618.9	5634.1	5627.2	5649.3	5642.4
7.5°	5585.6	5602.3	5600.9	5625.8	5623.0
10°	5537.2	5555.2	5560.7	5594.0	5594.0
12.5°	5470.8	5494.3	5508.1	5548.3	5549.7
15°	5391.9	5418.2	5443.1	5488.8	5494.3
17.5°	5296.4	5329.6	5364.2	5416.8	5423.7
20°	5188.5	5225.8	5272.9	5328.2	5336.5
22.5°	5063.9	5108.2	5169.1	5234.1	5243.8
25°	4924.1	4978.1	5048.7	5127.6	5140.0
27.5°	4765.0	4827.2	4922.7	5011.3	5022.4
30°	4592.0	4665.3	4784.3	4889.5	4907.5
32.5°	4409.3	4493.7	4640.4	4758.0	4783.0
35°	4210.0	4308.3	4485.4	4621.0	4648.7
37.5°	4013.5	4121.4	4322.1	4477.1	4510.3
40°	3783.7	3918.0	4147.7	4319.3	4359.5
42.5°	3567.8	3713.2	3973.3	4160.2	4198.9
45°	3322.9	3490.3	3782.4	3988.6	4031.5
47.5°	3093.1	3274.4	3598.3	3811.4	3855.7
50°	2851.0	3050.2	3401.8	3624.6	3670.3
52.5°	2608.8	2823.3	3198.3	3429.4	3472.3
55°	2354.1	2597.7	2992.1	3217.7	3256.5
57.5°	2117.5	2374.9	2780.4	2994.9	3018.4
60°	1883.6	2150.7	2564.5	2752.7	2761.0
62.5°	1655.2	1936.2	2343.0	2492.5	2481.4
65°	1436.5	1729.9	2117.5	2222.6	2197.7
67.5°	1226.2	1529.3	1886.3	1954.1	1920.9
70°	1026.9	1334.1	1662.1	1696.7	1666.3
72.5°	851.1	1148.7	1435.2	1464.2	1442.1
75°	676.8	971.5	1226.2	1258.0	1245.6
77.5°	513.4	799.9	1033.8	1075.3	1078.1
80°	369.5	643.5	866.4	931.4	939.7
82.5°	243.6	499.6	726.6	809.6	822.1
85°	141.2	372.3	614.5	698.9	711.4
87.5°	60.9	268.5	494.1	570.2	585.4
90°	0.0	145.3	351.5	442.9	460.9
92.5°	4.2	120.4	301.7	384.7	400.0
95°	6.9	98.3	263.0	334.9	347.4
97.5°	8.3	83.0	228.4	292.0	304.5
100°	8.3	72.0	197.9	256.0	267.1
102.5°	8.3	63.7	173.0	224.2	233.9
105°	9.7	56.7	152.2	199.3	207.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.1	37.4	105.2	141.2	146.7
115°	11.1	31.8	94.1	125.9	131.5
117.5°	12.5	27.7	83.0	113.5	117.6
120°	12.5	23.5	73.3	101.0	106.6
122.5°	12.5	19.4	65.0	91.3	95.5
125°	11.1	15.2	56.7	81.7	85.8
127.5°	9.7	12.5	48.4	73.3	77.5
130°	9.7	11.1	41.5	65.0	69.2
132.5°	9.7	12.5	34.6	56.7	62.3
135°	9.7	12.5	29.1	49.8	55.4
137.5°	9.7	12.5	23.5	42.9	48.4
140°	11.1	12.5	19.4	36.0	41.5
142.5°	12.5	12.5	15.2	30.4	34.6
145°	13.8	12.5	13.8	24.9	29.1
147.5°	13.8	13.8	13.8	19.4	23.5
150°	13.8	15.2	13.8	15.2	19.4
152.5°	13.8	15.2	13.8	12.5	15.2
155°	13.8	15.2	13.8	12.5	13.8
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°	9.7	49.8	134.2	177.1	184.1
110°	9.7	44.3	119.0	157.8	164.7



(END OF REPORT)