

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: P829903

Luminaire Tested: **OHBL-18HE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829903
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-L830-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

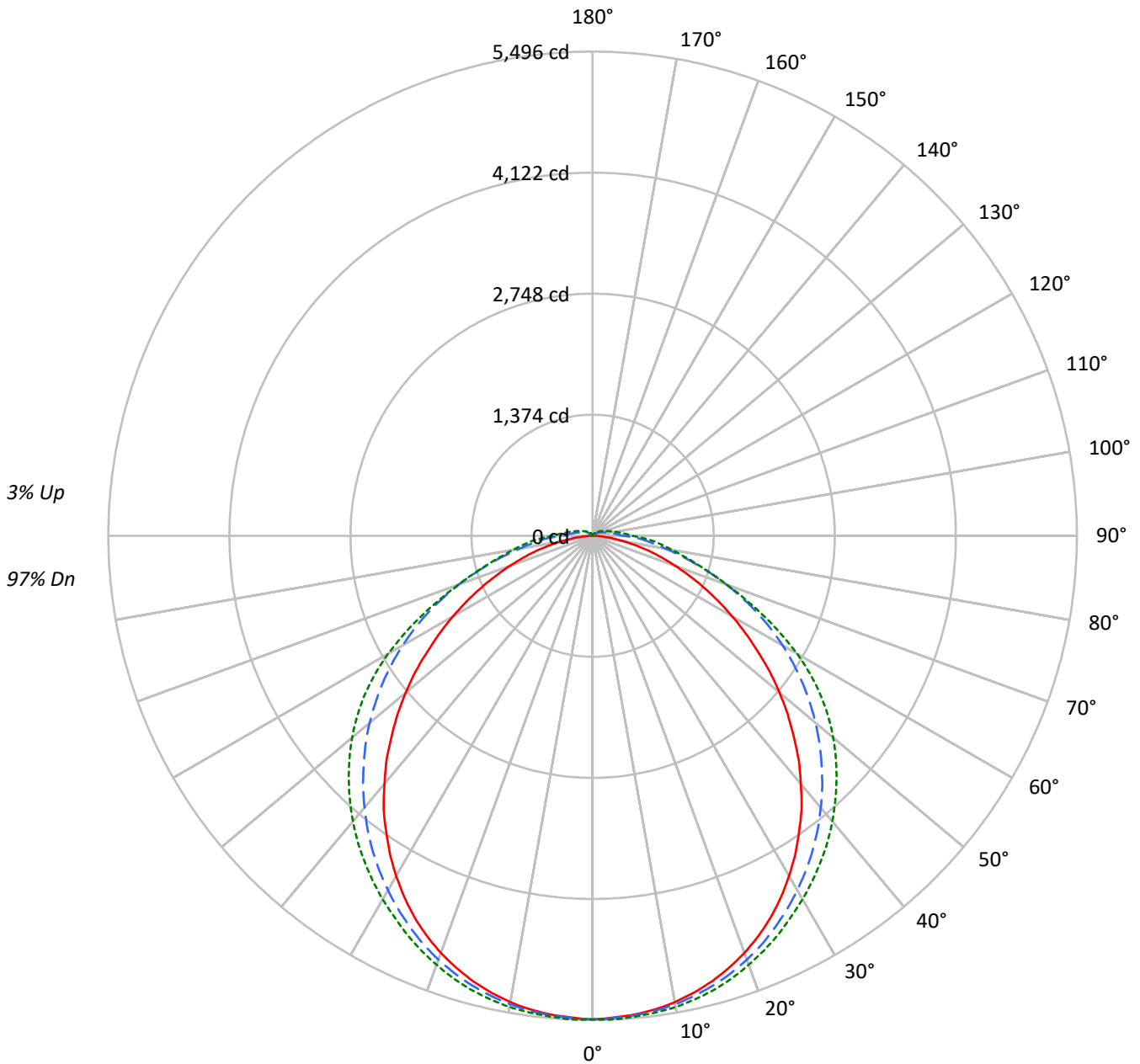
Lumens per Lamp: N/A
Luminaire Lumens: 16433.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	86	84	82	80		
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	75	72	68	66		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	59	54	50	47		
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	53	48	43	41		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	44	38	34	32		
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	41	35	30	28		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	37	32	27	25		
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9378	9378	9378
5°	9318	9285	9312
10°	9253	9199	9257
15°	9150	9097	9187
20°	9012	8973	9087
25°	8829	8819	8987
30°	8575	8653	8885
35°	8268	8476	8796
40°	7899	8272	8707
45°	7464	8051	8596
50°	6988	7826	8461
55°	6403	7552	8239
60°	5804	7230	7806
65°	5150	6819	7101
70°	4441	6297	6338
75°	3724	5692	5812
80°	2823	5244	5726
85°	1787	5401	6316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.3	3.2
10°-20°	1492.6	9.1
20°-30°	2257.3	13.7
30°-40°	2709.9	16.5
40°-50°	2798.9	17.0
50°-60°	2518.1	15.3
60°-70°	1896.9	11.5
70°-80°	1145.4	7.0
80°-90°	560.2	3.4
90°-100°	235.8	1.4
100°-110°	134.6	0.8
110°-120°	79.0	0.5
120°-130°	44.7	0.3
130°-140°	23.5	0.1
140°-150°	11.4	0.1
150°-160°	4.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4270.2	26.0
0°-40°	6980.1	42.5
0°-60°	12297.2	74.8
0°-90°	15899.7	96.8
90°-120°	449.4	2.7
90°-150°	529.1	3.2
90°-180°	533.0	3.2
0°-180°	16433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5491	5491	5491	5491	5491	
5°	5456	5471	5464	5485	5479	518
15°	5236	5261	5285	5330	5335	1476
25°	4781	4834	4902	4979	4991	2199
35°	4088	4183	4355	4487	4514	2556
45°	3226	3389	3673	3873	3914	2491
55°	2286	2522	2905	3124	3162	2049
65°	1395	1680	2056	2158	2134	1386
75°	657	943	1191	1222	1209	701
85°	137	362	597	679	691	158
90°	0	141	341	430	448	9
95°	7	95	255	325	337	6
105°	9	55	148	194	202	9
115°	11	31	91	122	128	11
125°	11	15	55	79	83	10
135°	9	12	28	48	54	7
145°	13	12	13	24	28	8
155°	13	15	13	12	13	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°	5490.8	5490.8	5490.8	5490.8	5490.8
2.5°	5474.7	5488.1	5480.0	5497.5	5496.2
5°	5455.8	5470.6	5463.9	5485.4	5478.7
7.5°	5423.6	5439.7	5438.4	5462.6	5459.9
10°	5376.6	5394.0	5399.4	5431.7	5431.7
12.5°	5312.1	5334.9	5348.3	5387.3	5388.7
15°	5235.5	5261.0	5285.2	5329.5	5334.9
17.5°	5142.7	5175.0	5208.6	5259.7	5266.4
20°	5037.9	5074.2	5119.9	5173.7	5181.7
22.5°	4917.0	4960.0	5019.1	5082.3	5091.7
25°	4781.3	4833.7	4902.2	4978.8	4990.9
27.5°	4626.7	4687.2	4779.9	4865.9	4876.7
30°	4458.7	4530.0	4645.5	4747.7	4765.1
32.5°	4281.4	4363.3	4505.8	4620.0	4644.2
35°	4087.9	4183.3	4355.3	4487.0	4513.8
37.5°	3897.0	4001.9	4196.7	4347.2	4379.5
40°	3674.0	3804.3	4027.4	4194.0	4233.0
42.5°	3464.3	3605.4	3858.1	4039.5	4077.1
45°	3226.5	3389.1	3672.6	3872.8	3914.5
47.5°	3003.4	3179.4	3493.9	3700.8	3743.8
50°	2768.2	2961.7	3303.1	3519.4	3563.8
52.5°	2533.1	2741.4	3105.5	3329.9	3371.6
55°	2285.8	2522.3	2905.3	3124.3	3162.0
57.5°	2056.0	2306.0	2699.7	2908.0	2930.8
60°	1828.9	2088.3	2490.1	2672.8	2680.9
62.5°	1607.2	1880.0	2275.1	2420.2	2409.4
65°	1394.9	1679.8	2056.0	2158.2	2134.0
67.5°	1190.6	1484.9	1831.6	1897.5	1865.2
70°	997.1	1295.4	1613.9	1647.5	1617.9
72.5°	826.4	1115.4	1393.5	1421.7	1400.2
75°	657.1	943.4	1190.6	1221.5	1209.4
77.5°	498.6	776.7	1003.8	1044.1	1046.8
80°	358.8	624.9	841.2	904.4	912.4
82.5°	236.5	485.1	705.5	786.1	798.2
85°	137.1	361.5	596.6	678.6	690.7
87.5°	59.1	260.7	479.7	553.6	568.4
90°	0.0	141.1	341.3	430.0	447.5
92.5°	4.0	116.9	292.9	373.6	388.4
95°	6.7	95.4	255.3	325.2	337.3
97.5°	8.1	80.6	221.7	283.5	295.6
100°	8.1	69.9	192.2	248.6	259.4
102.5°	8.1	61.8	168.0	217.7	227.1
105°	9.4	55.1	147.8	193.5	201.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.8	36.3	102.1	137.1	142.4
115°	10.8	30.9	91.4	122.3	127.7
117.5°	12.1	26.9	80.6	110.2	114.2
120°	12.1	22.8	71.2	98.1	103.5
122.5°	12.1	18.8	63.2	88.7	92.7
125°	10.8	14.8	55.1	79.3	83.3
127.5°	9.4	12.1	47.0	71.2	75.3
130°	9.4	10.8	40.3	63.2	67.2
132.5°	9.4	12.1	33.6	55.1	60.5
135°	9.4	12.1	28.2	48.4	53.8
137.5°	9.4	12.1	22.8	41.7	47.0
140°	10.8	12.1	18.8	34.9	40.3
142.5°	12.1	12.1	14.8	29.6	33.6
145°	13.4	12.1	13.4	24.2	28.2
147.5°	13.4	13.4	13.4	18.8	22.8
150°	13.4	14.8	13.4	14.8	18.8
152.5°	13.4	14.8	13.4	12.1	14.8
155°	13.4	14.8	13.4	12.1	13.4
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°	9.4	48.4	130.3	172.0	178.7
110°	9.4	43.0	115.6	153.2	159.9



(END OF REPORT)