

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: P829939

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-W-UNV-L830-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

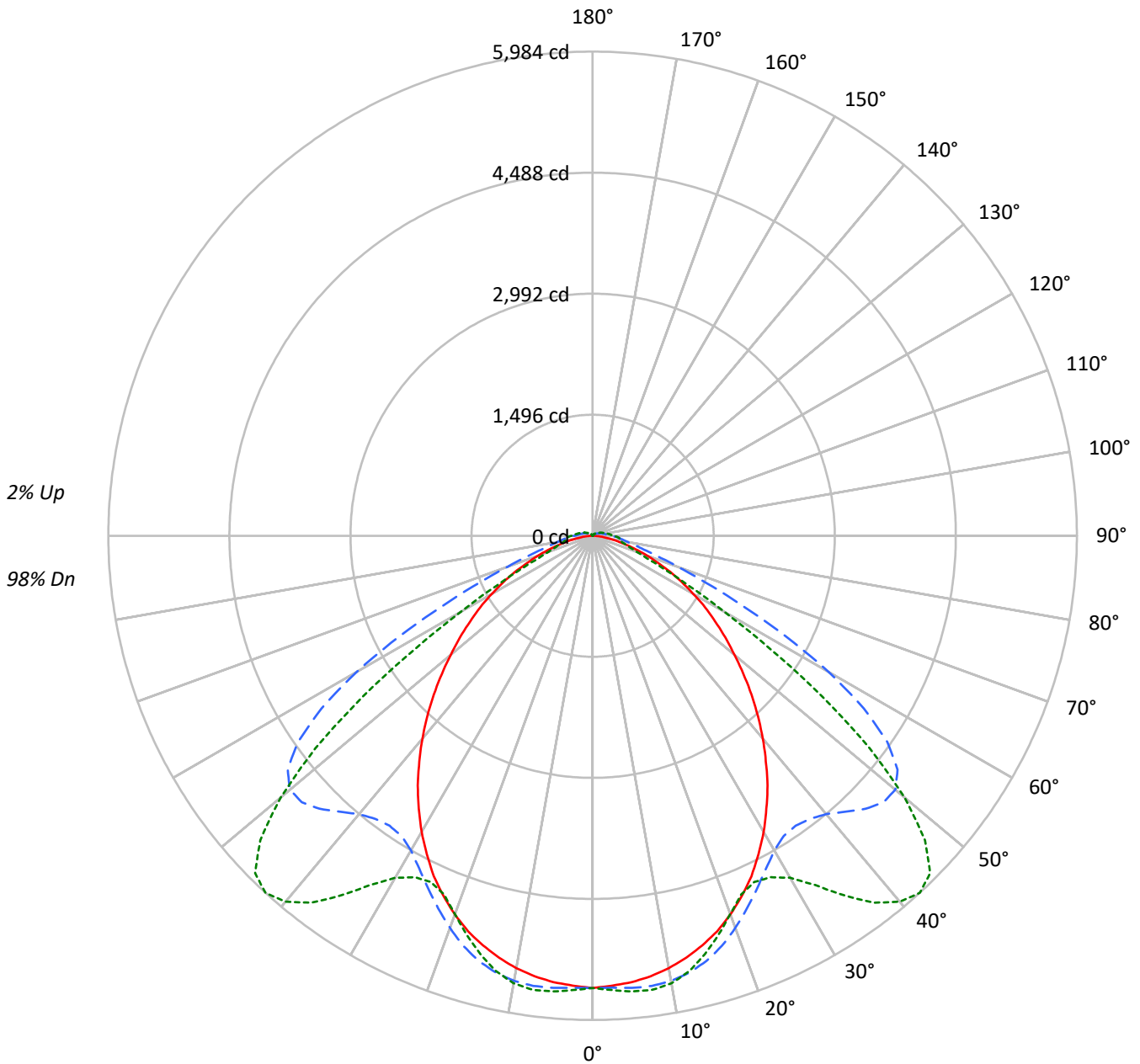
Lumens per Lamp: N/A
Luminaire Lumens: 16734.9 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9546	9546	9546
5°	9457	9533	9608
10°	9339	9518	9573
15°	9157	9361	9220
20°	8907	9039	8724
25°	8573	8650	8503
30°	8129	8360	9097
35°	7622	8514	10579
40°	7034	9221	12144
45°	6419	10460	12951
50°	5778	11566	11941
55°	5175	11551	9024
60°	4562	9772	5442
65°	3914	6747	3238
70°	3180	4361	2281
75°	2419	3125	2040
80°	1737	2743	2165
85°	1178	3013	3010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.1	3.2
10°-20°	1512.4	9.0
20°-30°	2213.2	13.2
30°-40°	2874.3	17.2
40°-50°	3509.9	21.0
50°-60°	3091.0	18.5
60°-70°	1610.7	9.6
70°-80°	690.7	4.1
80°-90°	331.7	2.0
90°-100°	155.9	0.9
100°-110°	96.9	0.6
110°-120°	57.3	0.3
120°-130°	31.1	0.2
130°-140°	15.6	0.1
140°-150°	7.5	0.0
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4259.7	25.5
0°-40°	7134.0	42.6
0°-60°	13734.9	82.1
0°-90°	16368.1	97.8
90°-120°	310.0	1.9
90°-150°	364.2	2.2
90°-180°	367.0	2.2
0°-180°	16734.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5589	5589	5589	5589	5589	
5°	5537	5580	5610	5659	5653	525
15°	5240	5387	5438	5398	5354	1475
25°	4643	4891	4808	4717	4722	2131
35°	3768	4166	4375	5102	5429	2349
45°	2775	3491	4772	5777	5898	2139
55°	1847	3058	4444	3896	3463	1658
65°	1060	2119	2034	1131	973	1049
75°	427	991	654	447	424	465
85°	90	353	333	326	329	101
90°	1	128	220	251	257	6
95°	2	75	175	205	211	2
105°	5	42	113	136	139	5
115°	7	24	70	86	88	7
125°	8	12	41	53	54	7
135°	7	7	19	33	34	6
145°	10	7	8	16	18	6
155°	10	10	7	7	7	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-18HE-W-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5589.2	5589.2	5589.2	5589.2	5589.2
2.5°	5565.1	5589.2	5590.4	5624.2	5620.5
5°	5537.3	5579.5	5609.7	5659.1	5653.1
7.5°	5491.5	5557.8	5610.9	5665.2	5660.3
10°	5426.4	5516.8	5586.8	5631.4	5616.9
12.5°	5342.0	5461.4	5530.1	5539.7	5512.0
15°	5239.5	5386.6	5438.5	5397.5	5354.0
17.5°	5123.7	5296.2	5314.2	5225.0	5170.7
20°	4979.0	5175.6	5157.5	5034.5	4974.2
22.5°	4818.6	5042.9	4985.0	4856.0	4798.1
25°	4642.6	4891.0	4807.8	4717.3	4722.2
27.5°	4436.4	4718.5	4637.8	4678.8	4755.9
30°	4226.6	4537.7	4488.2	4727.0	4878.9
32.5°	3996.2	4352.0	4396.6	4868.1	5116.5
35°	3768.3	4166.3	4374.9	5102.0	5428.8
37.5°	3516.3	3978.1	4409.8	5372.1	5714.6
40°	3271.5	3794.9	4489.4	5614.5	5903.9
42.5°	3021.9	3630.9	4623.3	5758.0	5983.5
45°	2774.7	3491.0	4771.6	5777.3	5897.9
47.5°	2527.5	3372.8	4874.1	5624.2	5568.7
50°	2288.7	3267.9	4881.3	5256.4	5029.7
52.5°	2065.6	3171.4	4748.7	4670.3	4318.2
55°	1847.4	3058.1	4443.6	3896.1	3463.2
57.5°	1648.4	2901.3	3973.3	3064.1	2591.4
60°	1437.4	2689.1	3365.6	2241.7	1869.1
62.5°	1243.2	2425.0	2684.3	1560.4	1343.3
65°	1060.0	2118.7	2034.3	1131.1	973.1
67.5°	865.8	1801.6	1501.3	824.8	723.5
70°	713.9	1507.3	1117.8	641.5	582.4
72.5°	558.3	1227.6	835.7	520.9	488.4
75°	426.9	991.2	653.6	447.4	424.5
77.5°	314.7	783.8	525.8	395.5	373.8
80°	220.7	617.4	440.1	353.3	344.9
82.5°	148.3	477.5	375.0	336.4	337.6
85°	90.4	353.3	332.8	325.6	329.2
87.5°	43.4	250.8	285.8	296.6	300.3
90°	1.2	127.8	219.5	250.8	256.8
92.5°	0.0	97.7	192.9	224.3	230.3
95°	2.4	74.8	174.9	205.0	211.0
97.5°	2.4	61.5	156.8	188.1	191.7
100°	3.6	53.1	139.9	170.0	173.6
102.5°	3.6	47.0	125.4	151.9	154.4
105°	4.8	42.2	113.4	136.3	138.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	28.9	79.6	96.5	98.9
115°	7.2	24.1	69.9	85.6	88.0
117.5°	8.4	21.7	61.5	76.0	77.2
120°	8.4	18.1	53.1	67.5	68.7
122.5°	8.4	14.5	47.0	60.3	61.5
125°	8.4	12.1	41.0	53.1	54.3
127.5°	7.2	8.4	35.0	47.0	48.2
130°	7.2	7.2	28.9	41.0	43.4
132.5°	7.2	7.2	24.1	36.2	38.6
135°	7.2	7.2	19.3	32.6	33.8
137.5°	7.2	7.2	15.7	27.7	30.1
140°	7.2	7.2	12.1	24.1	25.3
142.5°	8.4	7.2	10.9	20.5	21.7
145°	9.6	7.2	8.4	15.7	18.1
147.5°	9.6	8.4	8.4	13.3	14.5
150°	9.6	9.6	7.2	9.6	12.1
152.5°	9.6	9.6	7.2	7.2	9.6
155°	9.6	9.6	7.2	7.2	7.2
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°	6.0	37.4	101.3	121.8	124.2
110°	6.0	32.6	89.2	108.5	110.9



(END OF REPORT)