

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: P826507

Luminaire Tested: **OHBL-18HE-W-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826507
REPORT IS A COMBINATION OF REPORTS P826160 AND G3-2310-221-8
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-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

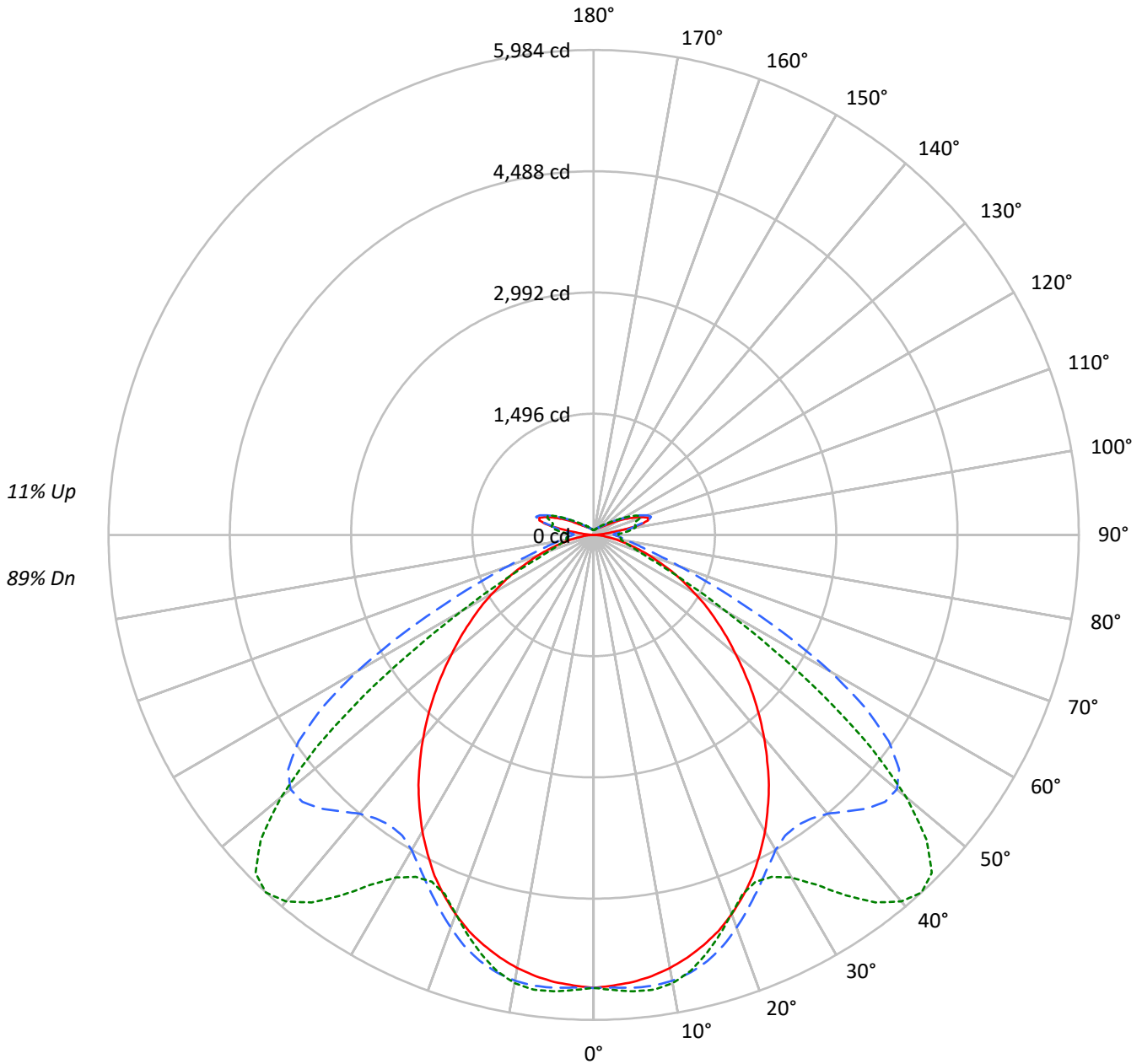
Lumens per Lamp: N/A
Luminaire Lumens: 18400.7 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 115.3
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	82	82	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	65	85	76	69	63	72	66	61	68	63	58	64	60	56	53																			
4	81	70	61	55	78	68	60	54	64	57	52	60	54	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	38	46	41	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	31	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9546	9546	9546
5°	9412	9533	9655
10°	9248	9518	9666
15°	9023	9361	9357
20°	8732	9039	8898
25°	8359	8650	8720
30°	7881	8360	9384
35°	7343	8514	10981
40°	6730	9221	12694
45°	6093	10460	13645
50°	5434	11566	12698
55°	4814	11551	9702
60°	4185	9772	5932
65°	3527	6747	3593
70°	2797	4362	2594
75°	2051	3125	2405
80°	1384	2744	2714
85°	827	3014	4290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.1	2.9
10°-20°	1512.4	8.2
20°-30°	2213.2	12.0
30°-40°	2874.3	15.6
40°-50°	3509.9	19.1
50°-60°	3091.0	16.8
60°-70°	1610.8	8.8
70°-80°	690.7	3.8
80°-90°	335.9	1.8
90°-100°	315.2	1.7
100°-110°	650.2	3.5
110°-120°	532.7	2.9
120°-130°	259.4	1.4
130°-140°	129.7	0.7
140°-150°	73.7	0.4
150°-160°	41.3	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	4259.8	23.2
0°-40°	7134.1	38.8
0°-60°	13735.0	74.6
0°-90°	16372.4	89.0
90°-120°	1498.1	8.1
90°-150°	1960.9	10.7
90°-180°	2028.0	11.0
0°-180°	18400.7	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°	5	151	251	293	303	9
95°	38	151	295	360	389	113
105°	694	725	696	547	517	659
115°	485	507	552	562	564	489
125°	241	256	291	302	302	226
135°	145	148	164	180	182	115
145°	110	110	114	122	124	69
155°	90	92	90	91	91	41
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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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	5620.6
5°	5537.4	5579.6	5609.8	5659.2	5653.1
7.5°	5491.6	5557.8	5611.0	5665.2	5660.4
10°	5426.4	5516.9	5586.8	5631.4	5616.9
12.5°	5342.0	5461.4	5530.1	5539.8	5512.1
15°	5239.5	5386.6	5438.4	5397.5	5354.0
17.5°	5123.7	5296.2	5314.3	5225.1	5170.8
20°	4979.0	5175.6	5157.5	5034.5	4974.2
22.5°	4818.7	5043.0	4985.1	4856.0	4798.1
25°	4642.6	4891.0	4807.8	4717.4	4722.2
27.5°	4436.4	4718.6	4637.8	4678.8	4756.0
30°	4226.6	4537.7	4488.3	4727.0	4879.0
32.5°	3996.3	4352.0	4396.6	4868.1	5116.5
35°	3768.4	4166.3	4374.9	5102.0	5428.9
37.5°	3516.3	3978.2	4409.9	5372.2	5714.6
40°	3271.6	3794.9	4489.5	5614.5	5903.9
42.5°	3021.9	3630.8	4623.3	5758.0	5983.6
45°	2774.7	3491.0	4771.6	5777.4	5898.0
47.5°	2527.5	3372.8	4874.2	5624.2	5568.7
50°	2288.7	3267.9	4881.4	5256.4	5029.7
52.5°	2065.6	3171.4	4748.7	4670.4	4318.2
55°	1847.4	3058.1	4443.7	3896.1	3463.2
57.5°	1648.4	2901.3	3973.4	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	1343.4
65°	1060.0	2118.7	2034.3	1131.1	973.2
67.5°	865.8	1801.6	1501.4	824.8	723.5
70°	713.9	1507.3	1117.9	641.5	582.4
72.5°	558.3	1227.6	835.6	520.9	488.4
75°	426.8	991.2	653.6	447.4	424.4
77.5°	314.7	783.8	525.8	395.5	373.8
80°	220.6	617.4	440.2	353.3	344.9
82.5°	148.3	477.6	375.0	336.4	337.6
85°	90.4	353.3	332.9	325.6	329.2
87.5°	43.5	250.8	285.8	296.7	300.3
90°	4.9	151.1	251.1	292.7	303.4
92.5°	12.1	128.4	244.1	295.0	308.5
95°	37.8	151.0	294.9	360.4	388.8
97.5°	183.9	259.7	378.3	450.6	469.0
100°	377.7	445.7	469.3	515.2	524.5
102.5°	588.9	631.4	547.9	533.5	530.3
105°	694.4	725.3	695.9	546.6	517.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	567.5	592.9	632.3	634.4	613.5
115°	484.6	507.1	552.0	562.1	563.5
117.5°	415.1	431.1	472.8	485.4	487.5
120°	348.1	364.2	402.9	414.7	414.0
122.5°	292.3	306.7	343.8	354.4	353.7
125°	241.1	255.9	291.4	302.4	301.8
127.5°	204.5	214.1	249.0	260.1	259.4
130°	178.5	185.0	212.3	225.3	228.6
132.5°	160.8	163.6	186.0	199.0	203.3
135°	145.0	147.8	164.4	179.6	181.7
137.5°	132.9	135.7	147.8	161.7	165.1
140°	122.6	125.4	133.1	146.9	149.1
142.5°	115.5	117.1	123.5	134.0	136.1
145°	110.2	109.6	113.6	121.7	124.1
147.5°	103.7	104.3	106.2	112.9	114.1
150°	98.1	99.9	99.4	102.7	106.1
152.5°	94.4	95.3	94.7	95.7	98.1
155°	89.7	91.6	90.1	91.0	91.0
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	702.1	733.5	743.4	620.6	542.0
110°	643.5	677.4	706.2	669.6	607.8



(END OF REPORT)