

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: P827107

Luminaire Tested: **OHBL-18HE-W-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827107
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-L840-CD-UPL18
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

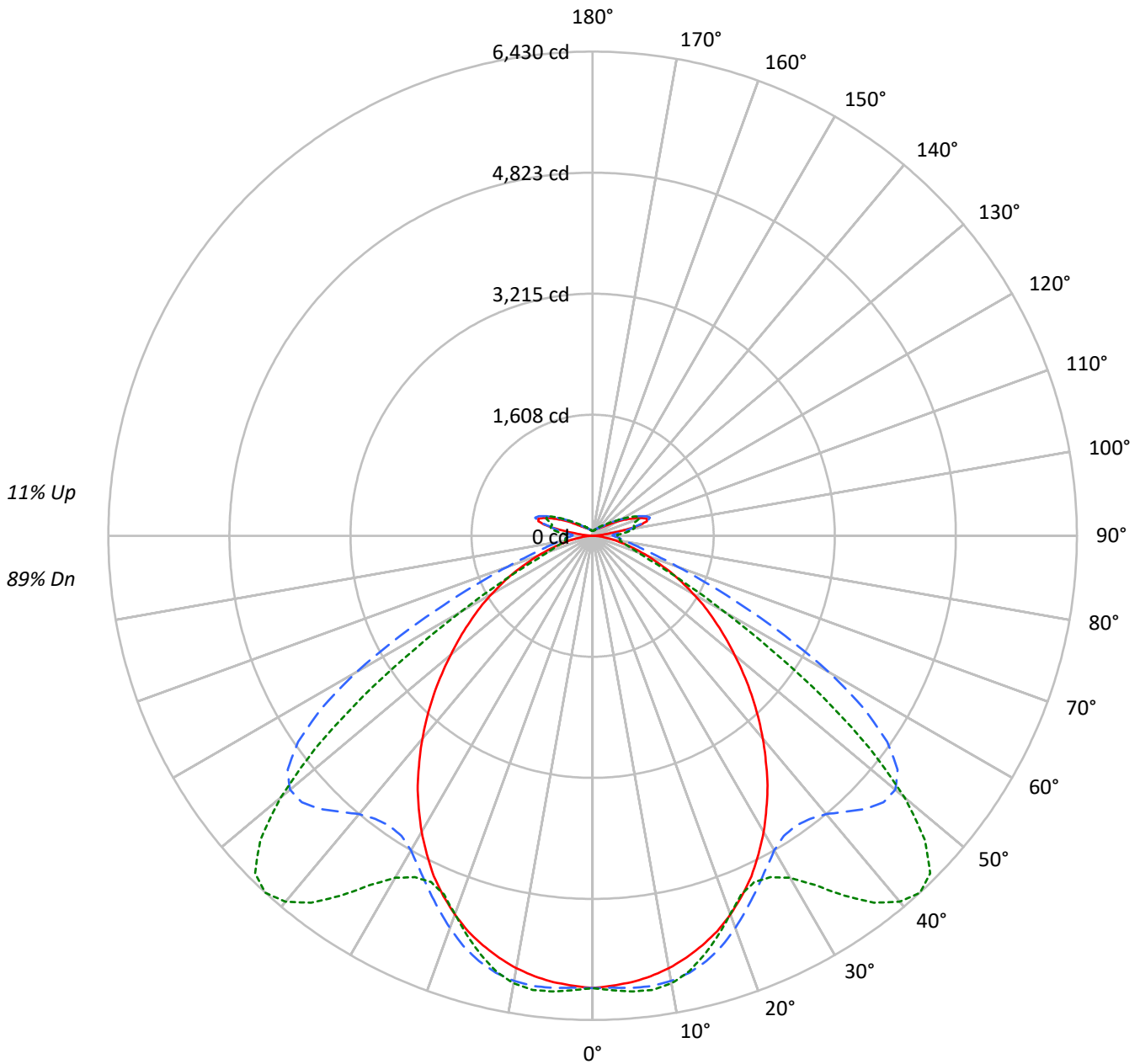
Lumens per Lamp: N/A
Luminaire Lumens: 19773.9 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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°	10259	10259	10259
5°	10114	10244	10376
10°	9938	10229	10388
15°	9696	10059	10055
20°	9384	9714	9562
25°	8983	9295	9371
30°	8469	8984	10084
35°	7891	9150	11800
40°	7232	9910	13641
45°	6548	11240	14663
50°	5839	12429	13645
55°	5173	12413	10426
60°	4498	10501	6375
65°	3791	7251	3861
70°	3005	4687	2788
75°	2204	3358	2585
80°	1488	2948	2916
85°	889	3238	4610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.0	2.9
10°-20°	1625.3	8.2
20°-30°	2378.4	12.0
30°-40°	3088.8	15.6
40°-50°	3771.8	19.1
50°-60°	3321.7	16.8
60°-70°	1731.0	8.8
70°-80°	742.3	3.8
80°-90°	361.0	1.8
90°-100°	338.7	1.7
100°-110°	698.7	3.5
110°-120°	572.4	2.9
120°-130°	278.8	1.4
130°-140°	139.3	0.7
140°-150°	79.2	0.4
150°-160°	44.4	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	4577.7	23.1
0°-40°	7666.5	38.8
0°-60°	14760.0	74.6
0°-90°	17594.2	89.0
90°-120°	1609.9	8.1
90°-150°	2107.3	10.7
90°-180°	2180.0	11.0
0°-180°	19773.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6006	6006	6006	6006	6006	
5°	5951	5996	6028	6082	6075	564
15°	5630	5789	5844	5800	5754	1585
25°	4989	5256	5167	5069	5075	2290
35°	4050	4477	4701	5483	5834	2524
45°	2982	3752	5128	6208	6338	2299
55°	1985	3286	4775	4187	3722	1782
65°	1139	2277	2186	1216	1046	1127
75°	459	1065	702	481	456	500
85°	97	380	358	350	354	108
90°	5	162	270	314	326	10
95°	41	162	317	387	418	122
105°	746	779	748	587	556	708
115°	521	545	593	604	606	526
125°	259	275	313	325	324	243
135°	156	159	177	193	195	123
145°	118	118	122	131	133	75
155°	96	98	97	98	98	44
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	5980.4	6006.3	6007.6	6043.9	6040.0
5°	5950.6	5996.0	6028.4	6081.5	6075.0
7.5°	5901.4	5972.6	6029.7	6088.0	6082.8
10°	5831.4	5928.6	6003.7	6051.7	6036.1
12.5°	5740.7	5869.0	5942.8	5953.2	5923.4
15°	5630.5	5788.6	5844.3	5800.3	5753.6
17.5°	5506.1	5691.4	5710.9	5615.0	5556.7
20°	5350.6	5561.8	5542.4	5410.2	5345.4
22.5°	5178.3	5419.3	5357.1	5218.4	5156.2
25°	4989.1	5256.0	5166.6	5069.4	5074.6
27.5°	4767.5	5070.7	4983.9	5028.0	5110.9
30°	4542.0	4876.3	4823.2	5079.8	5243.1
32.5°	4294.5	4676.8	4724.7	5231.4	5498.3
35°	4049.6	4477.2	4701.4	5482.8	5834.0
37.5°	3778.7	4275.1	4739.0	5773.1	6141.1
40°	3515.7	4078.1	4824.5	6033.5	6344.5
42.5°	3247.4	3901.8	4968.3	6187.7	6430.1
45°	2981.8	3751.5	5127.7	6208.5	6338.1
47.5°	2716.1	3624.5	5237.9	6043.9	5984.3
50°	2459.5	3511.8	5245.7	5648.7	5405.0
52.5°	2219.8	3408.1	5103.1	5018.9	4640.5
55°	1985.3	3286.3	4775.3	4186.9	3721.7
57.5°	1771.4	3117.8	4269.9	3292.8	2784.8
60°	1544.7	2889.8	3616.8	2409.0	2008.6
62.5°	1336.0	2606.0	2884.6	1676.8	1443.6
65°	1139.1	2276.8	2186.1	1215.5	1045.8
67.5°	930.4	1936.0	1613.4	886.4	777.5
70°	767.2	1619.8	1201.3	689.4	625.9
72.5°	600.0	1319.2	898.0	559.8	524.8
75°	458.7	1065.2	702.4	480.8	456.1
77.5°	338.2	842.3	565.0	425.0	401.7
80°	237.1	663.5	473.0	379.7	370.6
82.5°	159.4	513.2	403.0	361.5	362.8
85°	97.2	379.7	357.7	349.9	353.8
87.5°	46.7	269.5	307.1	318.8	322.7
90°	5.3	162.4	269.8	314.5	326.0
92.5°	13.0	138.0	262.3	317.0	331.5
95°	40.6	162.3	316.9	387.3	417.8
97.5°	197.6	279.1	406.5	484.2	504.0
100°	405.9	479.0	504.3	553.7	563.6
102.5°	632.9	678.5	588.8	573.3	569.9
105°	746.2	779.4	747.8	587.4	556.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.8	637.1	679.5	681.7	659.3
115°	520.8	544.9	593.2	604.0	605.6
117.5°	446.1	463.3	508.1	521.6	523.9
120°	374.1	391.4	433.0	445.6	444.9
122.5°	314.1	329.6	369.5	380.8	380.1
125°	259.1	275.0	313.1	325.0	324.3
127.5°	219.8	230.1	267.6	279.5	278.8
130°	191.8	198.8	228.1	242.1	245.7
132.5°	172.8	175.8	199.9	213.9	218.5
135°	155.8	158.8	176.7	193.0	195.3
137.5°	142.8	145.8	158.8	173.8	177.4
140°	131.8	134.8	143.0	157.9	160.2
142.5°	124.1	125.8	132.7	144.0	146.3
145°	118.4	117.8	122.1	130.8	133.4
147.5°	111.4	112.1	114.1	121.3	122.6
150°	105.4	107.4	106.8	110.4	114.0
152.5°	101.4	102.4	101.8	102.8	105.4
155°	96.4	98.4	96.8	97.8	97.8
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	754.5	788.2	798.9	666.9	582.5
110°	691.5	728.0	758.9	719.6	653.2



(END OF REPORT)