

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: P827095

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827095
REPORT IS A COMBINATION OF REPORTS P826156 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-MCL-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

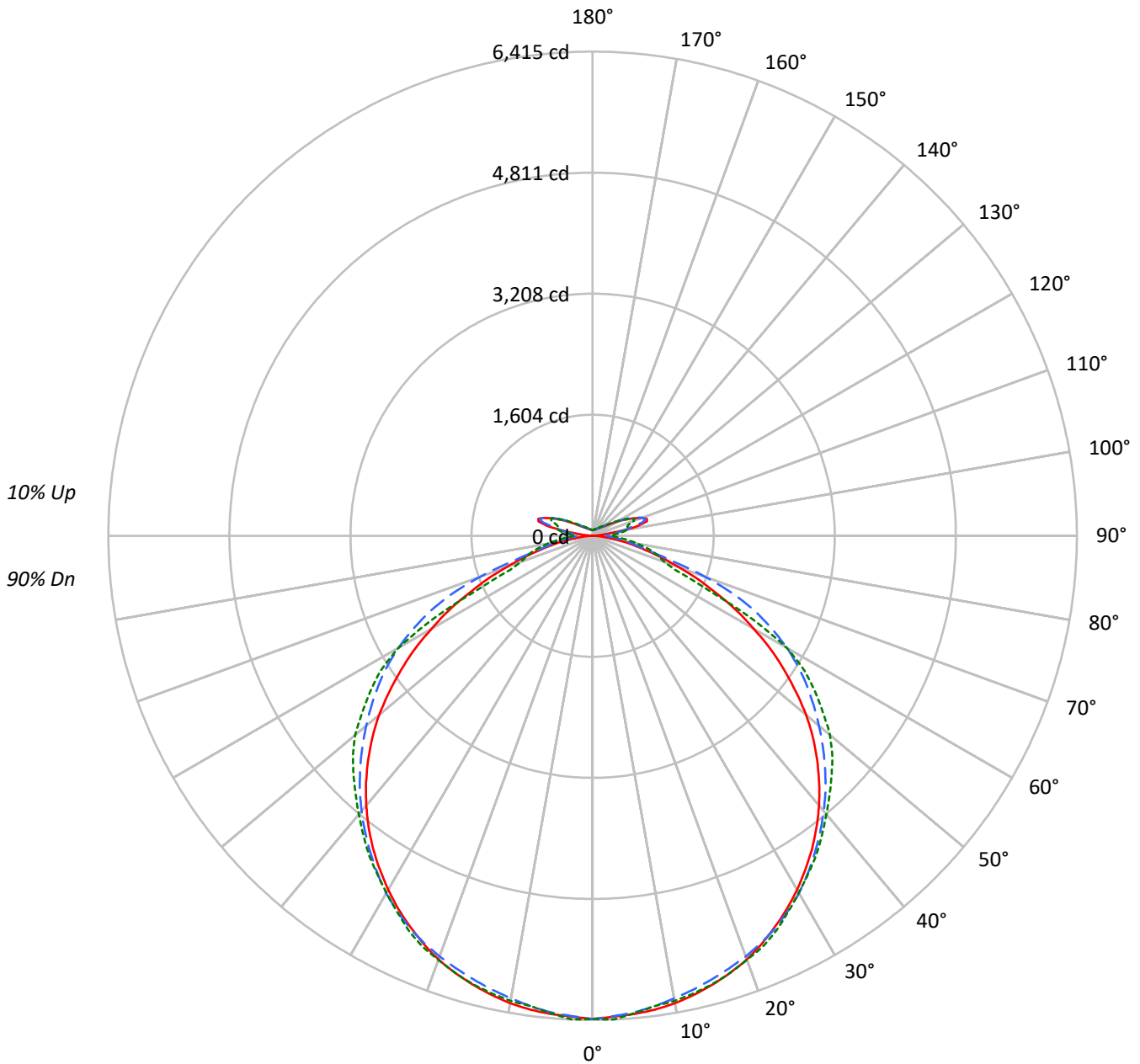
Lumens per Lamp: N/A
Luminaire Lumens: 19884.9 lumens
Efficiency: N/A
Efficacy: 172.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	61	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	43	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	54	41	34	28	39	33	28	38	32	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10935	10935	10935
5°	10810	10771	10844
10°	10718	10603	10769
15°	10598	10476	10743
20°	10476	10395	10696
25°	10294	10312	10651
30°	10099	10185	10502
35°	9874	9986	10448
40°	9597	9781	10358
45°	9234	9543	10361
50°	8764	9273	10362
55°	8063	9007	10072
60°	7172	8620	9424
65°	6044	7909	6067
70°	4750	6161	4494
75°	3434	3647	4711
80°	2248	3018	4749
85°	1126	2740	4993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.7	3.0
10°-20°	1731.0	8.7
20°-30°	2643.8	13.3
30°-40°	3207.8	16.1
40°-50°	3362.1	16.9
50°-60°	3046.5	15.3
60°-70°	2042.6	10.3
70°-80°	917.2	4.6
80°-90°	337.3	1.7
90°-100°	271.4	1.4
100°-110°	641.9	3.2
110°-120°	534.6	2.7
120°-130°	258.4	1.3
130°-140°	131.5	0.7
140°-150°	77.2	0.4
150°-160°	46.0	0.2
160°-170°	24.4	0.1
170°-180°	7.5	0.0
0°-30°	4978.4	25.0
0°-40°	8186.2	41.2
0°-60°	14594.8	73.4
0°-90°	17891.9	90.0
90°-120°	1447.9	7.3
90°-150°	1915.1	9.6
90°-180°	1993.0	10.0
0°-180°	19884.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6402	6402	6402	6402	6402	
5°	6360	6383	6338	6358	6349	605
15°	6154	6130	6086	6140	6148	1738
25°	5717	5692	5732	5785	5768	2635
35°	5067	5079	5131	5186	5165	3167
45°	4205	4274	4354	4465	4478	3240
55°	3095	3244	3465	3604	3595	2762
65°	1816	2100	2385	2012	1643	1810
75°	715	1037	763	780	831	781
85°	123	236	303	366	383	150
90°	5	104	190	241	256	10
95°	39	131	236	298	325	121
105°	745	755	679	505	474	707
115°	520	530	545	546	547	524
125°	256	269	286	287	286	242
135°	156	160	166	173	175	124
145°	116	119	122	124	125	74
155°	95	98	99	100	99	45
165°	84	85	85	86	86	24
175°	77	77	77	76	76	7
180°	76	76	76	76	76	



TEST NUMBER: P827095

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6402.0	6402.0	6402.0	6402.0	6402.0
2.5°	6376.1	6403.0	6369.6	6405.7	6415.0
5°	6360.4	6382.6	6338.2	6357.6	6349.3
7.5°	6331.7	6339.1	6286.3	6302.1	6285.4
10°	6289.1	6285.4	6223.4	6253.9	6257.6
12.5°	6226.1	6215.0	6159.5	6205.8	6206.7
15°	6153.9	6129.9	6086.4	6140.1	6147.5
17.5°	6070.6	6039.2	6010.5	6079.9	6068.8
20°	5973.4	5936.4	5930.9	6006.8	5979.0
22.5°	5853.1	5824.4	5837.4	5909.6	5892.0
25°	5717.0	5692.0	5731.8	5784.6	5767.9
27.5°	5573.5	5558.7	5604.1	5644.8	5612.4
30°	5416.2	5407.8	5468.0	5501.3	5460.6
32.5°	5244.9	5247.7	5305.1	5350.4	5312.5
35°	5067.2	5079.2	5131.1	5185.7	5165.3
37.5°	4871.9	4898.7	4950.6	5012.6	4991.3
40°	4665.4	4704.3	4761.7	4836.7	4817.3
42.5°	4442.4	4491.4	4565.5	4648.8	4646.9
45°	4205.4	4273.9	4353.5	4464.6	4478.5
47.5°	3959.1	4036.0	4136.9	4285.0	4306.3
50°	3691.6	3787.9	3913.8	4091.5	4104.5
52.5°	3393.6	3525.0	3691.6	3862.0	3846.2
55°	3094.6	3243.6	3464.8	3603.7	3595.4
57.5°	2796.5	2964.0	3232.5	3331.5	3330.6
60°	2463.2	2675.2	2968.7	3043.6	2969.6
62.5°	2155.0	2382.7	2687.3	2632.6	2379.0
65°	1816.2	2100.4	2384.6	2012.4	1643.1
67.5°	1515.3	1811.6	2025.4	1378.3	1180.2
70°	1212.6	1539.4	1579.2	1022.9	1009.0
72.5°	944.2	1292.3	1089.5	875.7	920.1
75°	714.6	1036.8	762.8	780.4	831.3
77.5°	521.2	796.1	593.4	684.1	725.7
80°	358.2	563.7	484.1	574.8	603.5
82.5°	224.9	372.1	387.9	462.8	492.5
85°	123.1	236.0	302.7	365.6	383.2
87.5°	50.9	142.6	231.4	282.3	297.1
90°	4.9	103.7	190.4	241.2	255.5
92.5°	13.9	93.2	182.7	234.3	248.8
95°	38.9	131.1	236.4	297.5	325.2
97.5°	196.9	251.9	327.8	390.3	410.0
100°	404.8	454.4	429.0	461.7	470.5
102.5°	632.7	653.9	516.9	485.9	482.7
105°	744.7	755.3	678.8	504.9	473.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	608.5	619.0	625.5	617.8	594.7
115°	520.4	530.1	544.8	546.3	547.1
117.5°	444.4	449.3	465.1	468.7	471.5
120°	372.4	380.3	396.4	398.0	396.9
122.5°	312.4	321.4	336.6	338.2	337.1
125°	256.5	269.4	285.7	287.4	286.4
127.5°	219.4	228.4	244.8	246.6	245.5
130°	191.4	199.3	210.0	214.7	215.7
132.5°	173.3	177.3	186.0	190.7	192.7
135°	156.3	160.3	166.2	172.8	174.7
137.5°	144.3	147.3	151.3	157.9	159.8
140°	133.3	136.3	138.3	144.0	146.0
142.5°	123.3	127.3	129.3	133.1	135.0
145°	116.3	119.3	122.3	124.2	125.1
147.5°	110.3	112.3	114.3	116.3	117.2
150°	104.3	106.3	108.3	109.3	110.3
152.5°	100.3	101.3	103.3	104.3	104.3
155°	95.3	98.2	99.2	100.2	99.3
157.5°	92.3	94.2	95.2	96.2	96.2
160°	89.3	90.2	91.2	92.2	92.2
162.5°	87.2	87.2	88.2	89.2	89.2
165°	84.2	85.2	85.2	86.2	86.2
167.5°	82.2	83.1	83.2	83.2	84.2
170°	80.2	80.2	81.2	80.3	80.3
172.5°	78.2	79.2	79.2	78.3	78.3
175°	77.2	77.2	77.3	76.3	76.3
177.5°	77.1	77.2	76.3	75.3	74.4
180°	76.3	76.3	76.3	76.3	76.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	752.6	765.6	735.4	590.6	505.5
110°	690.6	707.8	701.0	649.3	582.1



(END OF REPORT)