

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: P827094

Luminaire Tested: **OHBL-18HE-MCL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827094
REPORT IS A COMBINATION OF REPORTS P826060 AND G3-2310-221-12
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-UPL12
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

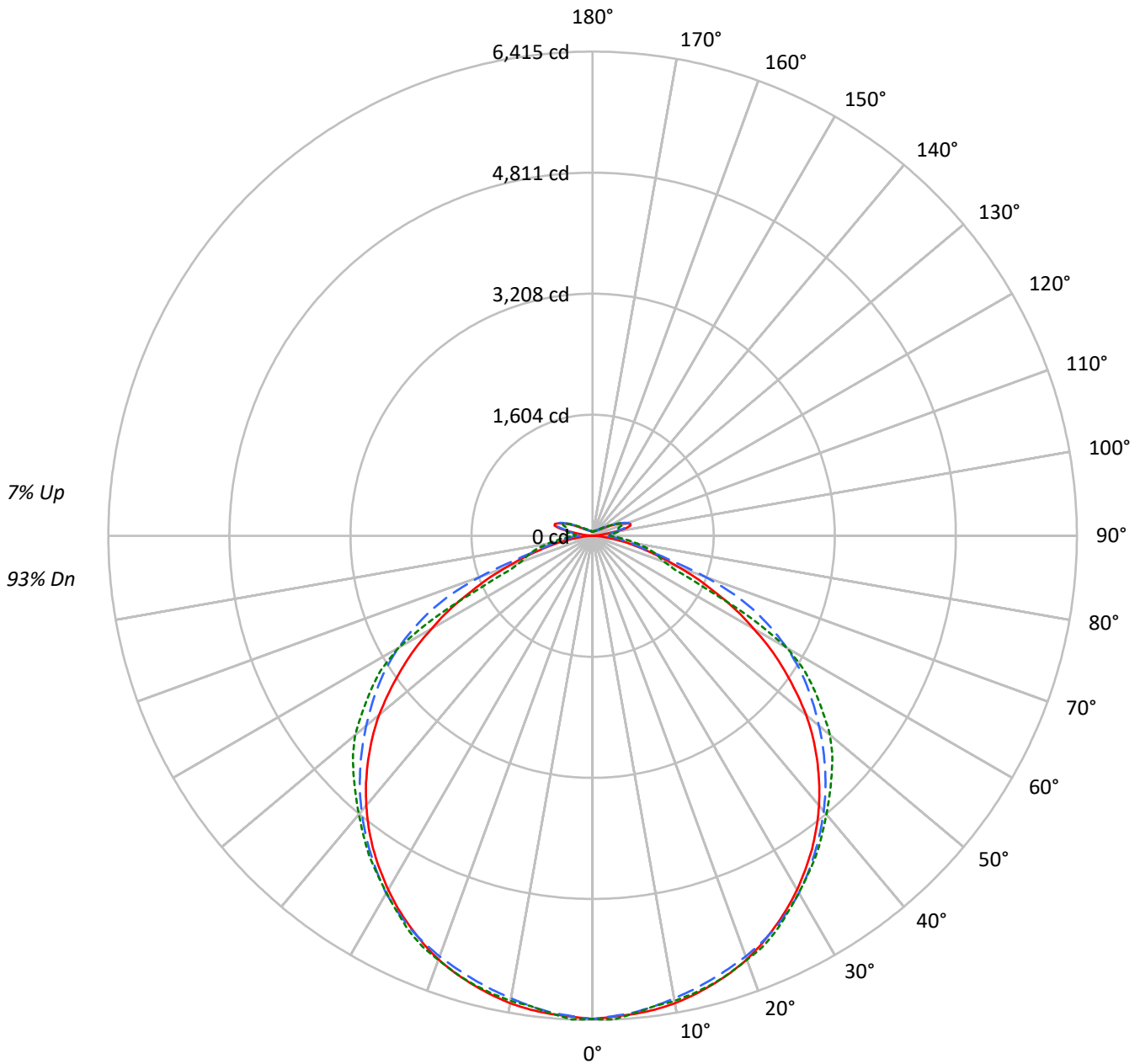
Lumens per Lamp: N/A
Luminaire Lumens: 19340.4 lumens
Efficiency: N/A
Efficacy: 173.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 111.4
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	114	114	114	114	107	107	107	101	101	101	95	95	95	93																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	48	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

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	3.1
10°-20°	1731.0	9.0
20°-30°	2643.8	13.7
30°-40°	3207.8	16.6
40°-50°	3362.1	17.4
50°-60°	3046.5	15.8
60°-70°	2042.6	10.6
70°-80°	917.2	4.7
80°-90°	336.0	1.7
90°-100°	219.2	1.1
100°-110°	461.2	2.4
110°-120°	379.2	2.0
120°-130°	183.5	0.9
130°-140°	94.2	0.5
140°-150°	55.6	0.3
150°-160°	33.4	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	4978.4	25.7
0°-40°	8186.2	42.3
0°-60°	14594.8	75.5
0°-90°	17890.6	92.5
90°-120°	1059.6	5.5
90°-150°	1392.9	7.2
90°-180°	1450.0	7.5
0°-180°	19340.4	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°	4	97	180	227	240	9
95°	26	107	193	246	268	83
105°	521	532	489	373	351	493
115°	367	371	388	392	388	367
125°	182	190	204	204	206	170
135°	110	114	119	125	126	88
145°	83	86	87	89	91	53
155°	69	71	72	73	72	32
165°	62	62	63	63	63	18
175°	57	57	56	55	55	6
180°	55	55	55	55	55	



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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°	3.9	96.7	180.4	227.2	240.5
92.5°	9.9	83.2	165.7	212.3	223.8
95°	25.9	107.1	193.4	246.5	268.2
97.5°	136.9	185.9	255.8	304.3	318.0
100°	278.8	329.4	322.0	348.7	356.5
102.5°	442.7	458.9	378.9	361.9	359.7
105°	520.7	532.3	488.8	372.9	350.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	424.5	434.0	449.5	441.8	426.7
115°	367.4	371.1	387.8	392.3	388.1
117.5°	309.4	315.3	332.1	334.7	334.5
120°	260.4	267.3	281.4	282.0	282.9
122.5°	220.4	225.4	238.6	240.2	242.1
125°	182.5	190.4	203.7	204.4	206.4
127.5°	154.4	160.4	174.8	176.6	177.5
130°	135.4	140.3	150.0	154.7	154.7
132.5°	122.3	126.3	133.0	137.7	138.7
135°	110.3	114.3	119.2	124.8	125.7
137.5°	103.3	105.3	108.3	113.9	115.8
140°	95.3	98.3	99.3	104.0	105.0
142.5°	88.3	91.3	92.3	96.1	98.0
145°	83.3	86.3	87.3	89.2	91.1
147.5°	79.3	81.3	83.3	83.3	85.2
150°	76.3	77.3	78.3	79.3	79.3
152.5°	72.3	73.3	74.3	75.3	75.3
155°	69.3	71.2	72.2	73.2	72.3
157.5°	66.3	69.2	69.2	70.2	70.2
160°	64.3	66.2	67.2	67.2	67.2
162.5°	63.2	64.2	64.2	65.2	65.2
165°	62.2	62.2	63.2	63.2	63.2
167.5°	60.2	61.1	61.2	61.2	61.2
170°	59.2	59.2	59.2	59.3	59.3
172.5°	58.2	58.2	58.2	57.3	57.3
175°	57.2	57.2	56.3	55.3	55.3
177.5°	57.1	57.2	56.3	55.3	54.4
180°	55.3	55.3	55.3	55.3	55.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	524.6	539.6	526.4	427.6	365.5
110°	481.6	497.8	499.0	466.3	417.1



(END OF REPORT)