

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: P827096

Luminaire Tested: **OHBL-18HE-MCL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827096
REPORT IS A COMBINATION OF REPORTS P826228 AND G3-2310-221-6
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-UPL24
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

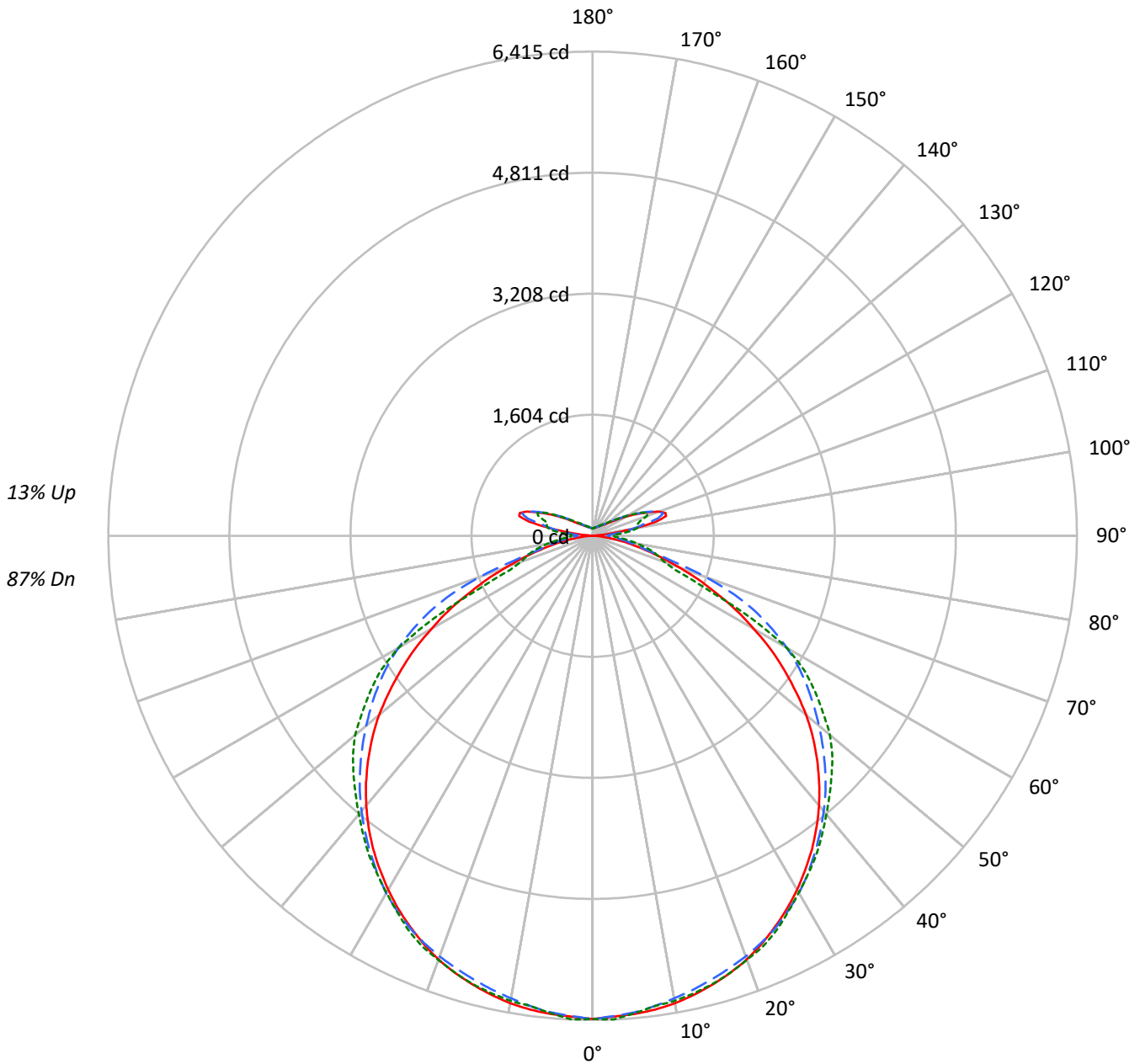
Lumens per Lamp: N/A
Luminaire Lumens: 20515.3 lumens
Efficiency: N/A
Efficacy: 170.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
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				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	102	98	94	102	98	94	91	92	89	86	86	83	81	80	78	77	74				74
2	97	89	82	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62				62
3	88	78	70	64	85	76	68	63	71	65	60	66	62	57	62	58	55	52				52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45				45
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39				39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34				34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30				30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	27				27
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				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	2.9
10°-20°	1731.0	8.4
20°-30°	2643.8	12.9
30°-40°	3207.8	15.6
40°-50°	3362.1	16.4
50°-60°	3046.5	14.9
60°-70°	2042.6	10.0
70°-80°	917.2	4.5
80°-90°	339.0	1.7
90°-100°	332.0	1.6
100°-110°	852.2	4.2
110°-120°	714.2	3.5
120°-130°	344.3	1.7
130°-140°	174.7	0.9
140°-150°	102.1	0.5
150°-160°	60.5	0.3
160°-170°	31.9	0.2
170°-180°	9.8	0.0
0°-30°	4978.4	24.3
0°-40°	8186.2	39.9
0°-60°	14594.8	71.1
0°-90°	17893.6	87.2
90°-120°	1898.4	9.3
90°-150°	2519.5	12.3
90°-180°	2622.0	12.8
0°-180°	20515.3	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°	6	113	203	258	274	11
95°	54	160	279	358	392	166
105°	1007	1013	897	665	619	956
115°	699	710	726	731	727	705
125°	344	363	380	381	379	324
135°	208	213	221	228	231	165
145°	153	158	161	163	165	98
155°	125	128	130	131	130	59
165°	110	111	112	112	112	31
175°	100	101	100	100	100	10
180°	99	99	99	99	99	



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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°	5.9	112.7	203.4	258.2	274.5
92.5°	17.9	105.2	199.7	260.3	279.8
95°	53.9	160.1	279.4	358.5	392.2
97.5°	270.9	329.9	402.8	487.3	524.0
100°	554.8	618.4	548.0	590.7	602.5
102.5°	856.7	873.9	680.9	629.9	624.7
105°	1006.7	1013.3	896.8	664.9	618.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	814.5	833.0	835.5	820.8	790.7
115°	699.4	710.1	725.8	731.3	727.1
117.5°	599.4	602.3	620.1	624.7	627.5
120°	497.4	509.3	530.4	530.0	524.9
122.5°	418.4	430.4	446.6	449.2	444.1
125°	344.5	363.4	379.7	381.4	379.4
127.5°	293.4	306.4	323.8	327.6	327.5
130°	256.4	265.3	280.0	284.7	285.7
132.5°	229.3	237.3	247.0	254.7	253.7
135°	208.3	213.3	221.2	227.8	230.7
137.5°	192.3	195.3	201.3	208.9	209.8
140°	177.3	181.3	185.3	191.0	193.0
142.5°	163.3	168.3	171.3	176.1	177.0
145°	153.3	158.3	161.3	163.2	165.1
147.5°	145.3	149.3	151.3	153.3	154.2
150°	138.3	140.3	143.3	144.3	145.3
152.5°	131.3	133.3	136.3	137.3	137.3
155°	125.3	128.2	130.2	131.2	130.3
157.5°	120.3	123.2	125.2	126.2	126.2
160°	116.3	118.2	120.2	121.2	121.2
162.5°	113.2	114.2	115.2	116.2	116.2
165°	110.2	111.2	112.2	112.2	112.2
167.5°	107.2	108.1	108.2	109.2	109.2
170°	104.2	105.2	105.2	105.3	105.3
172.5°	102.2	103.2	103.2	102.3	103.3
175°	100.2	101.2	100.3	100.3	100.3
177.5°	101.1	100.2	99.3	98.3	97.4
180°	99.3	99.3	99.3	99.3	99.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1011.6	1028.6	978.4	783.6	663.5
110°	934.6	952.8	931.0	862.3	766.1



(END OF REPORT)