

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: P827114

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827114
REPORT IS A COMBINATION OF REPORTS P826234 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-18SE-MCL-UNV-L840-CD-UPL24
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

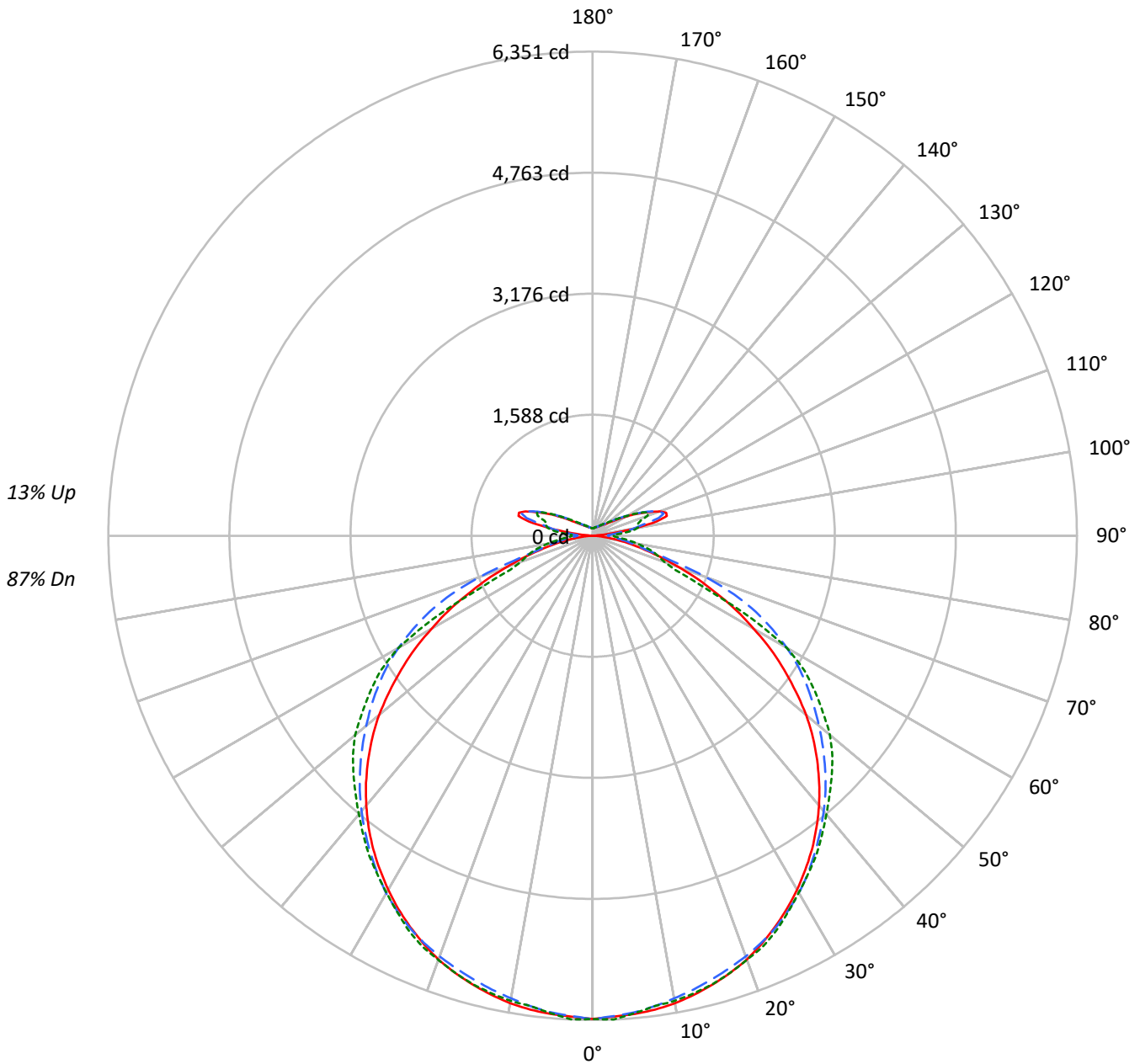
Lumens per Lamp: N/A
Luminaire Lumens: 20335.3 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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	85	83	81	80	78	76	74				74
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	62				62
3	88	78	70	64	85	76	68	63	71	65	60	66	61	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	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	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°	10826	10826	10826
5°	10703	10664	10736
10°	10612	10498	10662
15°	10492	10372	10636
20°	10372	10291	10589
25°	10192	10209	10545
30°	9998	10084	10398
35°	9776	9887	10344
40°	9501	9683	10254
45°	9142	9448	10258
50°	8677	9181	10259
55°	7983	8917	9972
60°	7100	8534	9331
65°	5984	7830	6006
70°	4703	6100	4450
75°	3400	3611	4664
80°	2226	2988	4701
85°	1115	2713	4944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.6	2.9
10°-20°	1713.8	8.4
20°-30°	2617.5	12.9
30°-40°	3175.9	15.6
40°-50°	3328.6	16.4
50°-60°	3016.2	14.8
60°-70°	2022.3	9.9
70°-80°	908.1	4.5
80°-90°	335.7	1.7
90°-100°	331.0	1.6
100°-110°	851.7	4.2
110°-120°	713.9	3.5
120°-130°	344.2	1.7
130°-140°	174.6	0.9
140°-150°	102.1	0.5
150°-160°	60.4	0.3
160°-170°	31.9	0.2
170°-180°	9.7	0.0
0°-30°	4928.9	24.2
0°-40°	8104.8	39.9
0°-60°	14449.6	71.1
0°-90°	17715.7	87.1
90°-120°	1896.7	9.3
90°-150°	2517.5	12.4
90°-180°	2620.0	12.9
0°-180°	20335.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6338	6338	6338	6338	6338	
5°	6297	6319	6275	6294	6286	599
15°	6093	6069	6026	6079	6086	1720
25°	5660	5635	5675	5727	5711	2609
35°	5017	5029	5080	5134	5114	3136
45°	4164	4231	4310	4420	4434	3207
55°	3064	3211	3430	3568	3560	2735
65°	1798	2080	2361	1992	1627	1792
75°	708	1026	755	773	823	773
85°	122	234	300	362	379	149
90°	6	112	202	256	272	11
95°	54	160	278	357	391	166
105°	1007	1013	896	664	618	956
115°	699	710	726	731	727	705
125°	344	363	380	381	379	323
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°	6338.3	6338.3	6338.3	6338.3	6338.3
2.5°	6312.7	6339.3	6306.3	6342.0	6351.2
5°	6297.1	6319.1	6275.1	6294.4	6286.1
7.5°	6268.7	6276.0	6223.8	6239.4	6222.9
10°	6226.5	6222.9	6161.5	6191.7	6195.4
12.5°	6164.2	6153.2	6098.2	6144.0	6145.0
15°	6092.7	6068.9	6025.8	6079.0	6086.3
17.5°	6010.2	5979.1	5950.7	6019.4	6008.4
20°	5914.0	5877.4	5871.9	5947.0	5919.5
22.5°	5794.9	5766.5	5779.3	5850.8	5833.4
25°	5660.2	5635.4	5674.8	5727.1	5710.6
27.5°	5518.1	5503.4	5548.3	5588.7	5556.6
30°	5362.3	5354.0	5413.6	5446.6	5406.3
32.5°	5192.7	5195.5	5252.3	5297.2	5259.7
35°	5016.8	5028.7	5080.0	5134.1	5113.9
37.5°	4823.4	4850.0	4901.3	4962.7	4941.6
40°	4619.0	4657.5	4714.3	4788.6	4769.3
42.5°	4398.2	4446.7	4520.1	4602.5	4600.7
45°	4163.5	4231.4	4310.2	4420.2	4433.9
47.5°	3919.8	3995.8	4095.7	4242.4	4263.4
50°	3654.9	3750.2	3874.9	4050.8	4063.7
52.5°	3359.8	3489.9	3654.9	3823.5	3808.0
55°	3063.8	3211.3	3430.4	3567.8	3559.6
57.5°	2768.7	2934.6	3200.3	3298.4	3297.5
60°	2438.7	2648.6	2939.1	3013.4	2940.1
62.5°	2133.6	2359.0	2660.5	2606.5	2355.3
65°	1798.1	2079.5	2360.8	1992.4	1626.7
67.5°	1500.3	1793.5	2005.2	1364.6	1168.5
70°	1200.6	1524.1	1563.5	1012.7	999.0
72.5°	934.8	1279.4	1078.7	867.0	911.0
75°	707.5	1026.5	755.2	772.6	823.0
77.5°	516.0	788.2	587.5	677.3	718.5
80°	354.7	558.1	479.3	569.1	597.5
82.5°	222.7	368.4	384.0	458.2	487.6
85°	121.9	233.7	299.7	362.0	379.4
87.5°	50.4	141.1	229.1	279.5	294.2
90°	5.9	111.9	201.9	256.3	272.5
92.5°	17.9	104.6	198.5	258.7	278.1
95°	53.9	159.6	278.3	357.2	390.9
97.5°	270.8	329.5	401.9	486.2	522.9
100°	554.7	618.1	547.2	589.8	601.6
102.5°	856.7	873.7	680.3	629.2	623.9
105°	1006.7	1013.1	896.2	664.2	618.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	814.4	832.8	835.2	820.4	790.2
115°	699.3	710.0	725.6	730.9	726.7
117.5°	599.3	602.2	619.9	624.4	627.2
120°	497.3	509.2	530.2	529.7	524.7
122.5°	418.3	430.3	446.4	449.0	443.9
125°	344.4	363.3	379.5	381.2	379.2
127.5°	293.3	306.3	323.7	327.4	327.3
130°	256.3	265.2	279.8	284.5	285.5
132.5°	229.2	237.2	246.9	254.6	253.6
135°	208.2	213.2	221.1	227.7	230.6
137.5°	192.2	195.2	201.2	208.7	209.7
140°	177.2	181.2	185.2	190.9	192.8
142.5°	163.2	168.2	171.2	176.0	176.9
145°	153.2	158.2	161.2	163.1	165.0
147.5°	145.2	149.2	151.2	153.2	154.1
150°	138.2	140.2	143.2	144.2	145.2
152.5°	131.2	133.2	136.2	137.2	137.2
155°	125.2	128.1	130.1	131.1	130.2
157.5°	120.2	123.1	125.1	126.1	126.1
160°	116.2	118.1	120.1	121.1	121.1
162.5°	113.1	114.1	115.1	116.1	116.1
165°	110.1	111.1	112.1	112.1	112.1
167.5°	107.1	108.0	108.1	109.1	109.1
170°	104.1	105.1	105.1	105.2	105.2
172.5°	102.1	103.1	103.1	102.2	103.2
175°	100.1	101.1	100.2	100.2	100.2
177.5°	101.0	100.1	99.2	98.2	97.3
180°	99.2	99.2	99.2	99.2	99.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1011.6	1028.4	977.9	783.1	662.9
110°	934.5	952.7	930.6	861.8	765.7



(END OF REPORT)