

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: P826973

Luminaire Tested: **OHB-18SE-MFL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826973
REPORT IS A COMBINATION OF REPORTS P826199 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: OHB-18SE-MFL-UNV-L840-CD-UPL24
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

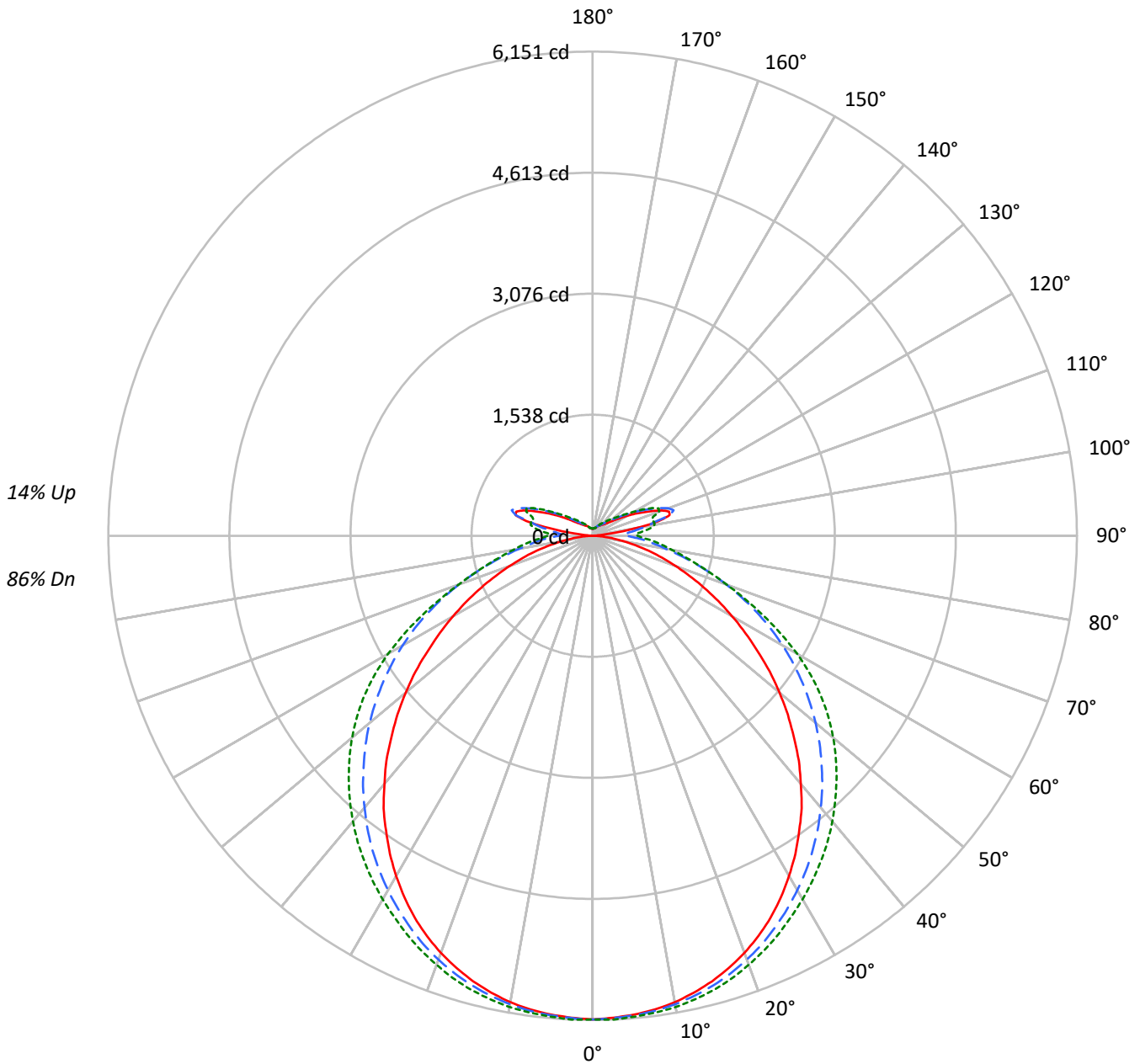
Lumens per Lamp: N/A
Luminaire Lumens: 20812.2 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 125
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				
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	111	111	111	111	103	103	103	96	96	96	89	89	89	86	86	86	86
1	105	100	96	92	101	96	92	89	89	86	83	83	81	78	77	75	73	70	70	70	70
2	95	87	80	74	91	84	78	72	78	73	69	73	68	65	68	64	61	58	58	58	58
3	87	76	68	62	83	74	66	60	69	62	57	64	59	55	60	55	52	49	49	49	49
4	79	68	59	52	76	65	57	51	61	54	49	57	51	47	53	48	44	42	42	42	42
5	73	60	51	45	70	58	50	44	55	48	42	51	45	40	48	43	39	36	36	36	36
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	32	32	32	32
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	34	30	28	28	28	28
8	58	45	36	31	56	43	35	30	41	34	29	39	32	28	36	31	27	25	25	25	25
9	54	41	33	27	52	40	32	27	38	31	26	35	29	25	34	28	24	22	22	22	22
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20529	20529	20529
5°	20298	20273	20408
10°	20058	20033	20312
15°	19736	19760	20183
20°	19340	19439	19989
25°	18845	19053	19793
30°	18198	18638	19596
35°	17437	18200	19429
40°	16543	17700	19266
45°	15508	17159	19055
50°	14386	16606	18797
55°	13037	15940	18351
60°	11656	15161	17442
65°	10161	14183	15933
70°	8550	12955	14299
75°	6913	11531	13217
80°	4929	10368	13193
85°	2743	10217	14924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.3	2.8
10°-20°	1670.5	8.0
20°-30°	2526.4	12.1
30°-40°	3033.0	14.6
40°-50°	3132.6	15.1
50°-60°	2818.3	13.5
60°-70°	2123.0	10.2
70°-80°	1281.9	6.2
80°-90°	633.1	3.0
90°-100°	495.7	2.4
100°-110°	955.5	4.6
110°-120°	778.9	3.7
120°-130°	381.2	1.8
130°-140°	192.1	0.9
140°-150°	108.9	0.5
150°-160°	60.7	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	4779.3	23.0
0°-40°	7812.2	37.5
0°-60°	13763.2	66.1
0°-90°	17801.2	85.5
90°-120°	2230.2	10.7
90°-150°	2912.4	14.0
90°-180°	3011.0	14.5
0°-180°	20812.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6145	6145	6145	6145	6145	
5°	6106	6123	6115	6139	6132	580
15°	5860	5888	5915	5965	5971	1652
25°	5351	5410	5487	5572	5586	2461
35°	4575	4682	4874	5022	5052	2860
45°	3611	3793	4110	4334	4381	2788
55°	2558	2823	3252	3497	3539	2294
65°	1561	1880	2301	2415	2388	1551
75°	736	1056	1332	1367	1354	785
85°	153	405	668	760	773	177
90°	5	192	429	543	570	13
95°	60	218	458	592	636	171
105°	1014	1054	1009	818	778	962
115°	704	734	801	834	834	710
125°	350	372	425	451	452	328
135°	210	218	243	267	275	166
145°	160	162	167	180	186	101
155°	131	134	135	134	136	59
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6145.4	6145.4	6145.4	<i>6145.4</i>	6145.4
2.5°	<i>6127.3</i>	<i>6142.3</i>	<i>6133.3</i>	<i>6152.9</i>	<i>6151.4</i>
5°	6106.2	6122.8	6115.3	<i>6139.3</i>	6131.8
7.5°	6070.2	6088.2	6086.7	<i>6113.8</i>	6110.8
10°	6017.5	6037.1	6043.1	<i>6079.2</i>	6079.2
12.5°	5945.3	5970.9	5985.9	<i>6029.5</i>	6031.0
15°	5859.6	5888.2	5915.2	<i>5964.9</i>	5970.9
17.5°	5755.8	5791.9	5829.5	<i>5886.7</i>	5894.2
20°	5638.5	5679.1	5730.2	<i>5790.4</i>	5799.4
22.5°	5503.1	5551.3	5617.4	<i>5688.1</i>	5698.7
25°	5351.2	5409.9	5486.6	<i>5572.3</i>	5585.9
27.5°	5178.3	5246.0	5349.7	<i>5446.0</i>	5458.0
30°	4990.3	5070.0	5199.3	<i>5313.6</i>	5333.2
32.5°	4791.8	4883.5	5042.9	<i>5170.8</i>	5197.8
35°	4575.2	4682.0	4874.5	<i>5021.9</i>	5051.9
37.5°	4361.6	4478.9	4697.0	<i>4865.4</i>	4901.5
40°	4111.9	4257.8	4507.5	<i>4694.0</i>	4737.6
42.5°	3877.3	4035.2	4318.0	<i>4521.0</i>	4563.1
45°	3611.1	3793.1	4110.4	<i>4334.5</i>	4381.2
47.5°	3361.4	3558.5	3910.4	<i>4142.0</i>	4190.1
50°	3098.2	3314.8	3696.8	<i>3939.0</i>	3988.6
52.5°	2835.0	3068.2	3475.7	<i>3726.9</i>	3773.5
55°	2558.3	2823.0	3251.7	<i>3496.8</i>	3538.9
57.5°	2301.1	2580.9	3021.5	<i>3254.7</i>	3280.2
60°	2046.9	2337.2	2786.9	<i>2991.5</i>	3000.5
62.5°	1798.8	2104.1	2546.3	<i>2708.7</i>	2696.7
65°	1561.2	1880.0	2301.1	<i>2415.4</i>	2388.4
67.5°	1332.5	1661.9	2050.0	<i>2123.7</i>	2087.6
70°	1116.0	1449.9	1806.3	<i>1843.9</i>	1810.8
72.5°	925.0	1248.3	1559.7	<i>1591.2</i>	1567.2
75°	735.5	1055.8	1332.5	<i>1367.1</i>	1353.6
77.5°	558.0	869.3	1123.5	<i>1168.6</i>	1171.6
80°	401.6	699.4	941.5	<i>1012.2</i>	1021.2
82.5°	264.7	542.9	789.6	<i>879.8</i>	893.4
85°	153.4	404.6	667.8	<i>759.5</i>	773.1
87.5°	66.2	291.8	536.9	<i>619.6</i>	636.2
90°	5.0	191.9	429.0	<i>543.3</i>	569.8
92.5°	21.5	175.8	399.9	<i>520.1</i>	549.7
95°	60.5	217.8	457.8	<i>592.0</i>	635.5
97.5°	278.0	381.2	561.2	<i>696.3</i>	742.9
100°	561.0	664.2	688.1	<i>778.2</i>	799.3
102.5°	862.0	917.2	806.0	<i>797.6</i>	800.2
105°	1013.5	1053.7	1009.4	<i>817.6</i>	777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	820.0	860.6	918.3	934.4	908.4
115°	704.0	733.6	801.3	833.9	833.9
117.5°	605.5	623.1	687.2	719.3	724.8
120°	503.5	526.6	589.7	614.8	614.8
122.5°	424.5	444.1	499.7	526.3	524.8
125°	350.0	372.5	424.7	450.7	452.2
127.5°	296.5	312.5	361.6	389.7	393.2
130°	259.5	269.0	312.1	338.7	344.2
132.5°	231.5	241.5	272.6	300.7	305.7
135°	210.5	217.5	242.6	267.1	275.2
137.5°	193.5	199.5	217.6	241.6	247.6
140°	180.0	185.5	198.1	218.1	225.1
142.5°	168.5	172.5	179.5	198.1	202.6
145°	160.0	162.5	167.0	180.1	185.6
147.5°	151.0	155.0	157.0	165.1	169.6
150°	144.0	147.5	149.0	151.5	157.1
152.5°	137.0	140.5	142.0	141.5	144.5
155°	131.0	134.5	135.0	134.5	136.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1017.5	1065.1	1078.9	921.5	807.0
110°	939.5	986.1	1022.3	987.5	897.0



(END OF REPORT)