

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: P826972

Luminaire Tested: **OHB-18SE-MFL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826972  
REPORT IS A COMBINATION OF REPORTS P826139 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: OHB-18SE-MFL-UNV-L840-CD-UPL18  
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENSAND 1800 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

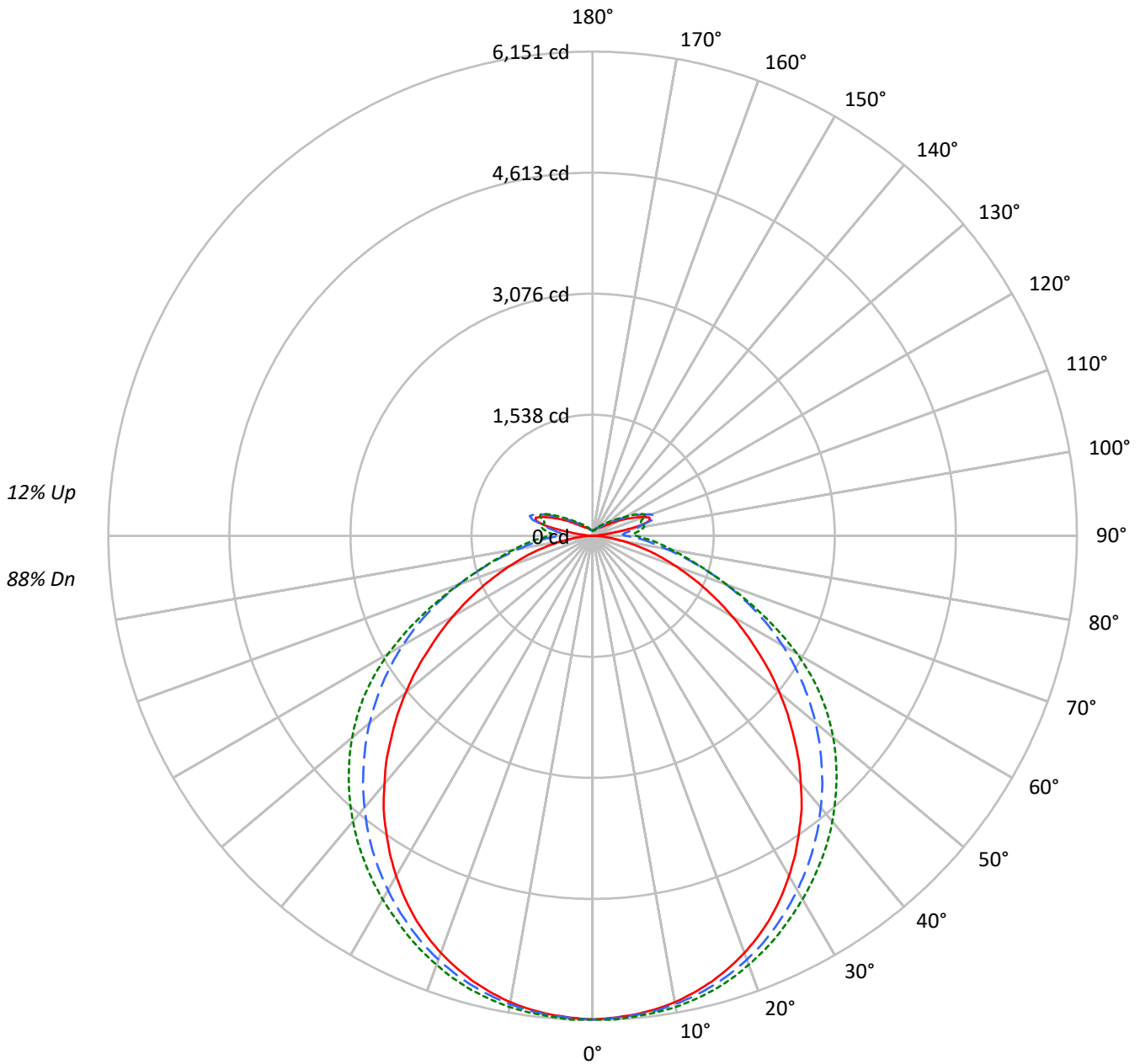
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20181.8 lumens  
Efficiency: N/A  
Efficacy: 168.3 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): 119.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	105	105	105	98	98	98	91	91	91	88				88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73				73
2	96	87	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60				60
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51				51
4	80	68	59	52	77	66	58	51	62	55	49	58	52	48	55	50	46	43				43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37				37
6	68	55	46	39	65	53	45	39	50	43	37	47	41	36	45	39	35	33				33
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	41	35	31	29				29
8	58	45	37	31	56	44	36	30	41	34	29	39	33	29	37	32	28	26				26
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23				23
10	51	38	30	25	49	37	30	25	35	29	24	34	28	23	32	27	23	21				21

**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	2.9
10°-20°	1670.5	8.3
20°-30°	2526.4	12.5
30°-40°	3033.0	15.0
40°-50°	3132.6	15.5
50°-60°	2818.3	14.0
60°-70°	2123.0	10.5
70°-80°	1281.9	6.4
80°-90°	631.5	3.1
90°-100°	435.1	2.2
100°-110°	745.3	3.7
110°-120°	599.3	3.0
120°-130°	295.4	1.5
130°-140°	148.9	0.7
140°-150°	84.0	0.4
150°-160°	46.3	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	4779.3	23.7
0°-40°	7812.2	38.7
0°-60°	13763.2	68.2
0°-90°	17799.6	88.2
90°-120°	1779.7	8.8
90°-150°	2307.9	11.4
90°-180°	2382.0	11.8
0°-180°	20181.8	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°	4	183	416	526	551	13
95°	46	189	415	531	568	126
105°	752	796	791	658	633	713
115°	525	554	620	649	654	530
125°	262	278	331	357	359	246
135°	158	164	188	212	219	125
145°	123	124	128	141	146	77
155°	101	104	104	104	105	45
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P826972

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6145.4	6145.4	6145.4	6145.4	6145.4
2.5°	6127.3	6142.3	6133.3	6152.9	6151.4
5°	6106.2	6122.8	6115.3	6139.3	6131.8
7.5°	6070.2	6088.2	6086.7	6113.8	6110.8
10°	6017.5	6037.1	6043.1	6079.2	6079.2
12.5°	5945.3	5970.9	5985.9	6029.5	6031.0
15°	5859.6	5888.2	5915.2	5964.9	5970.9
17.5°	5755.8	5791.9	5829.5	5886.7	5894.2
20°	5638.5	5679.1	5730.2	5790.4	5799.4
22.5°	5503.1	5551.3	5617.4	5688.1	5698.7
25°	5351.2	5409.9	5486.6	5572.3	5585.9
27.5°	5178.3	5246.0	5349.7	5446.0	5458.0
30°	4990.3	5070.0	5199.3	5313.6	5333.2
32.5°	4791.8	4883.5	5042.9	5170.8	5197.8
35°	4575.2	4682.0	4874.5	5021.9	5051.9
37.5°	4361.6	4478.9	4697.0	4865.4	4901.5
40°	4111.9	4257.8	4507.5	4694.0	4737.6
42.5°	3877.3	4035.2	4318.0	4521.0	4563.1
45°	3611.1	3793.1	4110.4	4334.5	4381.2
47.5°	3361.4	3558.5	3910.4	4142.0	4190.1
50°	3098.2	3314.8	3696.8	3939.0	3988.6
52.5°	2835.0	3068.2	3475.7	3726.9	3773.5
55°	2558.3	2823.0	3251.7	3496.8	3538.9
57.5°	2301.1	2580.9	3021.5	3254.7	3280.2
60°	2046.9	2337.2	2786.9	2991.5	3000.5
62.5°	1798.8	2104.1	2546.3	2708.7	2696.7
65°	1561.2	1880.0	2301.1	2415.4	2388.4
67.5°	1332.5	1661.9	2050.0	2123.7	2087.6
70°	1116.0	1449.9	1806.3	1843.9	1810.8
72.5°	925.0	1248.3	1559.7	1591.2	1567.2
75°	735.5	1055.8	1332.5	1367.1	1353.6
77.5°	558.0	869.3	1123.5	1168.6	1171.6
80°	401.6	699.4	941.5	1012.2	1021.2
82.5°	264.7	542.9	789.6	879.8	893.4
85°	153.4	404.6	667.8	759.5	773.1
87.5°	66.2	291.8	536.9	619.6	636.2
90°	4.0	182.9	416.0	526.3	550.8
92.5°	17.5	163.8	382.9	494.1	518.7
95°	45.5	188.8	414.8	531.0	568.5
97.5°	204.0	303.2	486.2	599.3	628.9
100°	411.0	500.2	569.1	649.2	667.3
102.5°	638.0	697.2	642.0	653.6	658.2
105°	751.5	795.7	791.4	657.6	632.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	614.0	646.6	708.3	731.4	712.4
115°	525.0	553.6	620.3	648.9	653.9
117.5°	450.5	470.1	532.2	563.3	568.8
120°	378.5	397.6	455.7	482.8	486.8
122.5°	318.5	335.1	389.7	415.3	417.8
125°	262.0	278.5	330.7	356.7	359.2
127.5°	222.5	234.5	282.6	308.7	311.2
130°	194.5	203.0	242.1	268.7	274.2
132.5°	175.5	181.5	211.6	236.7	244.7
135°	158.5	164.5	187.6	212.1	219.2
137.5°	145.5	151.5	167.6	190.6	197.6
140°	136.0	140.5	151.1	171.1	178.1
142.5°	128.5	131.5	137.5	155.1	160.6
145°	123.0	123.5	128.0	141.1	145.6
147.5°	116.0	118.0	120.0	128.1	132.6
150°	110.0	113.5	114.0	116.5	122.1
152.5°	106.0	108.5	109.0	108.5	111.5
155°	101.0	104.5	104.0	103.5	105.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	758.5	802.1	835.9	728.5	649.0
110°	695.5	741.1	792.3	774.5	713.0



(END OF REPORT)