

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: P826939

Luminaire Tested: **OHB-15SE-MFL-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826939  
REPORT IS A COMBINATION OF REPORTS P826091 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-15SE-MFL-UNV-L840-CD-UPL15  
Description: 15000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

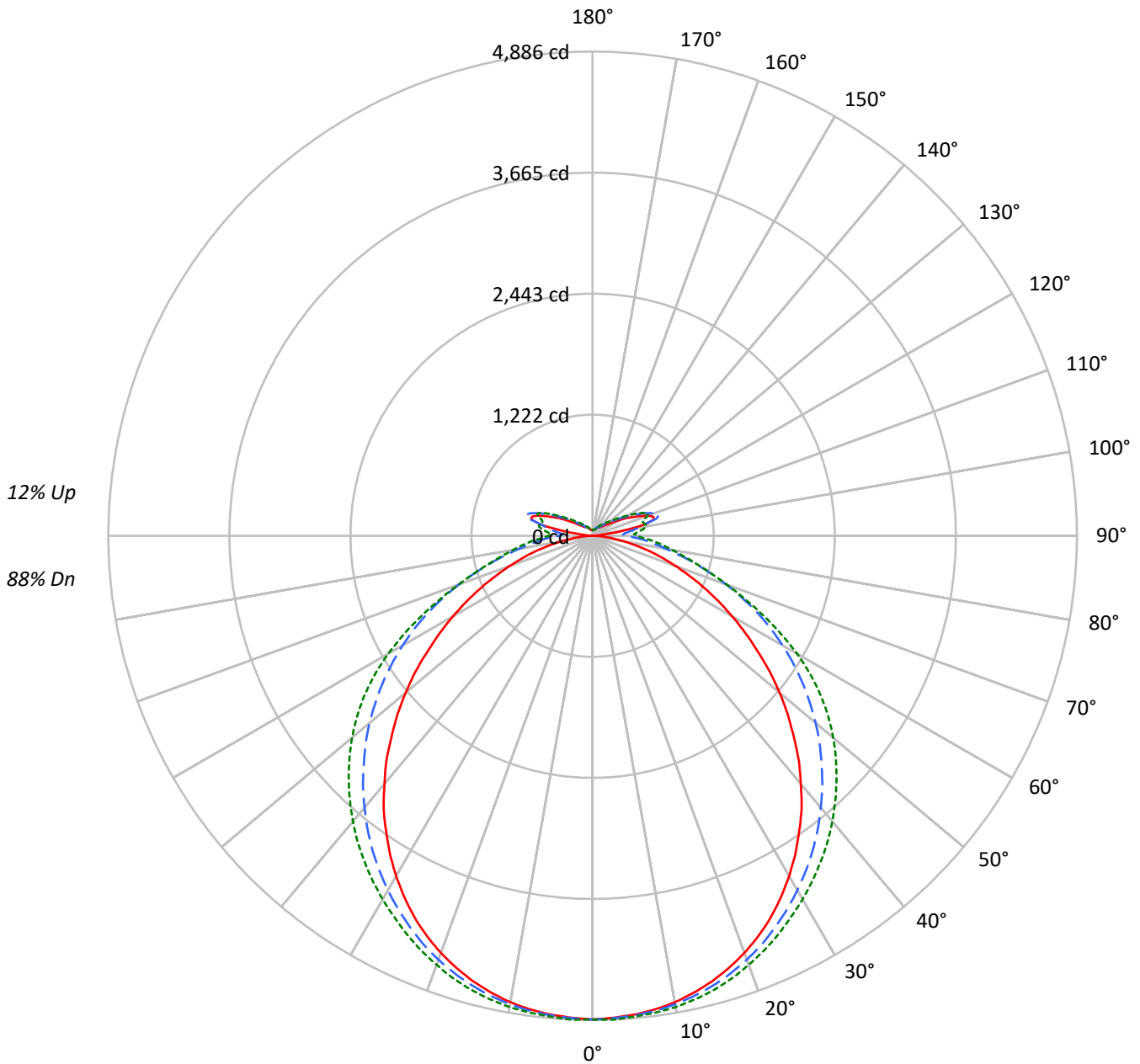
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16129.2 lumens  
Efficiency: N/A  
Efficacy: 150.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 107.4  
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									
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72																			
2	96	87	81	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	31062	31062	31062
5°	30474	30506	30879
10°	29881	29981	30734
15°	29173	29411	30539
20°	28362	28773	30245
25°	27409	28040	29948
30°	26239	27265	29651
35°	24908	26453	29398
40°	23392	25546	29150
45°	21682	24573	28831
50°	19854	23572	28441
55°	17722	22395	27767
60°	15558	21041	26391
65°	13255	19386	24107
70°	10826	17361	21636
75°	8394	15039	20000
80°	5618	12989	19963
85°	2801	11966	22580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.6	2.9
10°-20°	1327.0	8.2
20°-30°	2006.9	12.4
30°-40°	2409.3	14.9
40°-50°	2488.4	15.4
50°-60°	2238.8	13.9
60°-70°	1686.4	10.5
70°-80°	1018.3	6.3
80°-90°	501.9	3.1
90°-100°	355.3	2.2
100°-110°	624.3	3.9
110°-120°	503.8	3.1
120°-130°	247.8	1.5
130°-140°	125.0	0.8
140°-150°	70.6	0.4
150°-160°	39.0	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	3796.5	23.5
0°-40°	6205.8	38.5
0°-60°	10933.0	67.8
0°-90°	14139.7	87.7
90°-120°	1483.4	9.2
90°-150°	1926.7	11.9
90°-180°	1990.0	12.3
0°-180°	16129.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4882	4882	4882	4882	4882	
5°	4851	4864	4858	4877	4871	461
15°	4655	4677	4699	4738	4743	1312
25°	4251	4297	4358	4426	4437	1955
35°	3634	3719	3872	3989	4013	2272
45°	2868	3013	3265	3443	3480	2215
55°	2032	2242	2583	2778	2811	1822
65°	1240	1493	1828	1919	1897	1232
75°	584	839	1058	1086	1075	623
85°	122	321	530	603	614	141
90°	3	147	332	420	441	10
95°	34	157	334	431	465	105
105°	641	673	663	548	524	608
115°	446	464	521	547	542	450
125°	221	236	278	298	300	208
135°	133	140	157	177	183	106
145°	103	104	107	118	122	65
155°	85	87	88	87	89	38
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4881.7	4881.7	4881.7	4881.7	4881.7
2.5°	4867.3	4879.3	4872.1	4887.6	4886.4
5°	4850.6	4863.7	4857.8	4876.9	4870.9
7.5°	4821.9	4836.3	4835.1	4856.6	4854.2
10°	4780.1	4795.6	4800.4	4829.1	4829.1
12.5°	4722.8	4743.1	4755.0	4789.7	4790.9
15°	4654.7	4677.4	4698.9	4738.3	4743.1
17.5°	4572.2	4600.9	4630.8	4676.2	4682.1
20°	4479.0	4511.3	4551.9	4599.7	4606.9
22.5°	4371.5	4409.7	4462.3	4518.5	4526.8
25°	4250.8	4297.4	4358.4	4426.5	4437.2
27.5°	4113.5	4167.2	4249.7	4326.1	4335.7
30°	3964.1	4027.4	4130.2	4221.0	4236.5
32.5°	3806.4	3879.3	4005.9	4107.5	4129.0
35°	3634.4	3719.2	3872.1	3989.2	4013.1
37.5°	3464.7	3557.9	3731.1	3865.0	3893.6
40°	3266.4	3382.3	3580.6	3728.8	3763.4
42.5°	3080.0	3205.5	3430.1	3591.4	3624.8
45°	2868.5	3013.1	3265.2	3443.2	3480.2
47.5°	2670.2	2826.7	3106.3	3290.3	3328.5
50°	2461.1	2633.2	2936.6	3129.0	3168.4
52.5°	2252.1	2437.2	2761.0	2960.5	2997.6
55°	2032.2	2242.5	2583.0	2777.7	2811.2
57.5°	1827.9	2050.2	2400.2	2585.4	2605.7
60°	1626.0	1856.6	2213.8	2376.3	2383.5
62.5°	1428.9	1671.4	2022.7	2151.7	2142.2
65°	1240.1	1493.4	1827.9	1918.7	1897.2
67.5°	1058.5	1320.2	1628.4	1687.0	1658.3
70°	886.5	1151.7	1434.9	1464.7	1438.5
72.5°	734.8	991.6	1238.9	1264.0	1244.9
75°	584.2	838.7	1058.5	1086.0	1075.3
77.5°	443.2	690.6	892.5	928.3	930.7
80°	319.0	555.5	747.9	804.1	811.2
82.5°	210.3	431.3	627.2	698.9	709.7
85°	121.9	321.4	530.5	603.3	614.1
87.5°	52.6	231.8	426.5	492.2	505.4
90°	3.0	147.4	332.5	420.3	440.8
92.5°	13.6	131.9	306.5	396.1	419.3
95°	34.0	156.8	334.0	431.1	464.9
97.5°	173.2	258.7	401.1	487.1	515.8
100°	344.2	426.1	469.8	535.0	551.6
102.5°	549.2	579.0	536.3	541.5	543.9
105°	641.4	673.0	663.4	548.0	524.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	518.6	548.3	597.8	610.9	597.6
115°	445.6	463.5	521.2	546.7	542.5
117.5°	384.8	395.9	447.7	472.0	473.6
120°	322.8	336.3	380.3	402.2	406.0
122.5°	268.8	282.7	327.2	346.9	349.4
125°	220.6	236.1	278.0	297.5	300.1
127.5°	188.4	197.8	236.8	258.3	259.9
130°	164.4	170.6	202.8	224.2	227.7
132.5°	147.4	153.8	177.9	198.0	203.8
135°	133.4	139.8	157.1	177.0	182.8
137.5°	123.4	127.8	141.3	159.0	164.8
140°	114.6	118.8	127.7	143.1	148.8
142.5°	108.8	110.8	115.1	130.3	133.9
145°	102.9	103.8	106.9	118.5	122.1
147.5°	97.9	99.9	101.9	106.7	111.3
150°	92.9	96.1	95.9	98.1	101.7
152.5°	88.9	91.1	91.9	90.8	94.1
155°	84.9	87.1	87.9	86.8	88.9
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	641.4	677.0	702.9	604.9	537.9
110°	592.4	627.2	665.7	648.2	592.2



(END OF REPORT)