

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: P827175

Luminaire Tested: **OHBL-30SE-A-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827175
REPORT IS A COMBINATION OF REPORTS P826125 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: OHBL-30SE-A-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

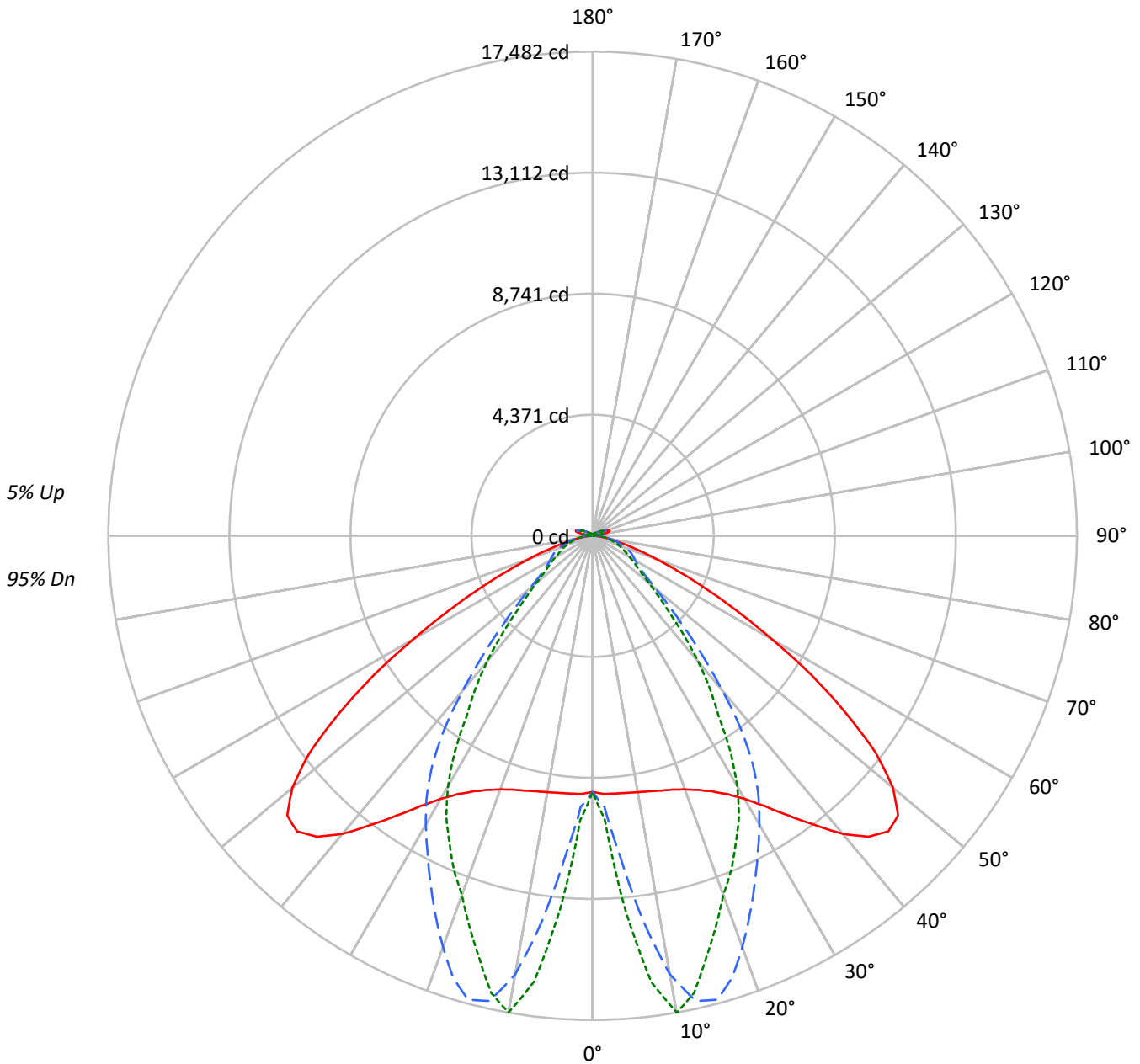
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31206.2 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 184.3
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

TEST NUMBER: P827175
CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P827175

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL15

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	81	69	61	55	78	68	61	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15801	15801	15801
5°	15882	19873	23163
10°	16023	27399	30086
15°	16405	29847	27614
20°	17083	27694	24678
25°	18329	24906	22573
30°	20438	22426	20072
35°	24027	19629	15995
40°	28891	14948	12730
45°	33140	10184	9060
50°	33597	6986	6701
55°	29081	5498	5475
60°	21723	5144	4925
65°	14890	5160	4665
70°	9520	4978	4518
75°	5725	4607	4323
80°	3368	4048	4461
85°	1621	3476	4136



TEST NUMBER: P827175

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL15

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.8	3.9
10°-20°	4262.8	13.7
20°-30°	6281.4	20.1
30°-40°	6600.8	21.2
40°-50°	5050.8	16.2
50°-60°	3049.9	9.8
60°-70°	1861.1	6.0
70°-80°	1015.8	3.3
80°-90°	360.4	1.2
90°-100°	145.6	0.5
100°-110°	504.6	1.6
110°-120°	433.6	1.4
120°-130°	208.1	0.7
130°-140°	104.0	0.3
140°-150°	60.4	0.2
150°-160°	35.2	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	11752.0	37.7
0°-40°	18352.8	58.8
0°-60°	26453.5	84.8
0°-90°	29690.8	95.1
90°-120°	1083.8	3.5
90°-150°	1456.3	4.7
90°-180°	1515.0	4.9
0°-180°	31206.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9251	9251	9251	9251	9251	
5°	9344	10025	11695	13058	13562	893
15°	9526	14837	17341	16181	15801	2709
25°	10180	17220	13844	12534	12224	4758
35°	12330	13790	10086	8399	7908	7822
45°	15092	7869	4646	4088	3916	11403
55°	11161	2668	2115	1960	1954	9862
65°	4474	1689	1556	1331	1264	4585
75°	1191	1050	964	795	763	1371
85°	177	326	384	350	317	219
90°	3	22	29	38	43	12
95°	28	72	107	142	165	100
105°	633	624	532	376	345	599
115°	436	436	440	438	429	440
125°	211	223	229	227	226	199
135°	125	129	132	134	135	99
145°	91	93	95	97	97	58
155°	73	74	76	76	77	34
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



TEST NUMBER: P827175

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9251.3	9251.3	9251.3	9251.3	9251.3
2.5°	9327.0	9422.3	9797.5	10187.1	10281.9
5°	9344.1	10024.9	11694.6	13058.1	13561.9
7.5°	9363.9	11001.2	14045.1	15714.5	16248.8
10°	9401.6	12235.7	16081.8	17280.3	17482.2
12.5°	9448.4	13543.7	17202.5	17158.9	16904.2
15°	9526.2	14837.3	17340.6	16181.4	15801.0
17.5°	9607.9	15931.9	16738.4	15117.4	14786.2
20°	9740.8	16744.3	15801.8	14171.7	13795.2
22.5°	9932.4	17191.0	14819.5	13316.4	13070.8
25°	10179.6	17220.0	13844.0	12533.7	12224.2
27.5°	10510.8	16820.5	12908.9	11766.8	11439.9
30°	10961.5	16055.6	12040.1	10842.1	10436.6
32.5°	11573.6	14954.8	11144.4	9725.7	9271.1
35°	12330.5	13790.0	10085.6	8399.1	7908.0
37.5°	13156.5	12496.8	8800.6	7224.5	6938.5
40°	14045.1	11164.2	7277.6	6125.2	5920.5
42.5°	14738.6	9715.4	5863.0	5090.2	4872.4
45°	15092.0	7868.7	4645.9	4088.1	3916.3
47.5°	14954.4	6108.1	3683.1	3248.3	3196.7
50°	14151.0	4510.2	2948.3	2675.8	2654.4
52.5°	12895.1	3361.7	2435.4	2266.8	2229.9
55°	11161.0	2668.3	2114.9	1960.1	1954.2
57.5°	9370.7	2266.8	1919.7	1799.9	1758.2
60°	7460.9	2021.2	1771.7	1636.4	1551.9
62.5°	5848.3	1849.5	1663.0	1479.3	1400.4
65°	4474.5	1689.2	1555.9	1331.4	1263.5
67.5°	3335.5	1536.5	1425.0	1175.8	1136.2
70°	2430.2	1379.8	1275.8	1045.7	1014.4
72.5°	1732.0	1223.5	1126.7	923.5	889.0
75°	1191.3	1050.5	963.6	795.0	762.9
77.5°	803.7	874.0	802.9	678.8	665.3
80°	536.7	693.1	649.4	575.2	566.9
82.5°	325.7	503.0	512.5	467.7	445.1
85°	177.3	325.7	384.0	349.9	317.4
87.5°	69.4	180.5	264.6	237.6	223.7
90°	3.0	22.0	29.0	38.0	43.0
92.5°	10.0	28.0	46.0	64.0	74.0
95°	28.0	72.0	107.0	142.0	165.0
97.5°	166.0	187.0	204.0	235.0	253.0
100°	337.0	364.0	299.0	314.0	321.0
102.5°	542.0	524.0	387.0	348.0	342.0
105°	633.0	624.0	532.0	376.0	345.0



TEST NUMBER: P827175

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL15

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	509.0	516.0	507.0	489.0	471.0
115°	436.0	436.0	440.0	438.0	429.0
117.5°	374.0	372.0	376.0	374.0	372.0
120°	312.0	316.0	317.0	315.0	314.0
122.5°	258.0	266.0	271.0	268.0	267.0
125°	211.0	223.0	229.0	227.0	226.0
127.5°	180.0	187.0	195.0	195.0	193.0
130°	156.0	161.0	167.0	168.0	168.0
132.5°	139.0	143.0	148.0	149.0	150.0
135°	125.0	129.0	132.0	134.0	135.0
137.5°	115.0	117.0	121.0	122.0	123.0
140°	105.0	108.0	111.0	112.0	113.0
142.5°	98.0	100.0	102.0	104.0	104.0
145°	91.0	93.0	95.0	97.0	97.0
147.5°	86.0	88.0	90.0	90.0	91.0
150°	81.0	83.0	84.0	85.0	85.0
152.5°	77.0	78.0	80.0	80.0	81.0
155°	73.0	74.0	76.0	76.0	77.0
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°	633.0	634.0	587.0	452.0	379.0
110°	584.0	589.0	563.0	512.0	450.0



(END OF REPORT)