

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: P827185

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827185
REPORT IS A COMBINATION OF REPORTS P826130 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-W-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

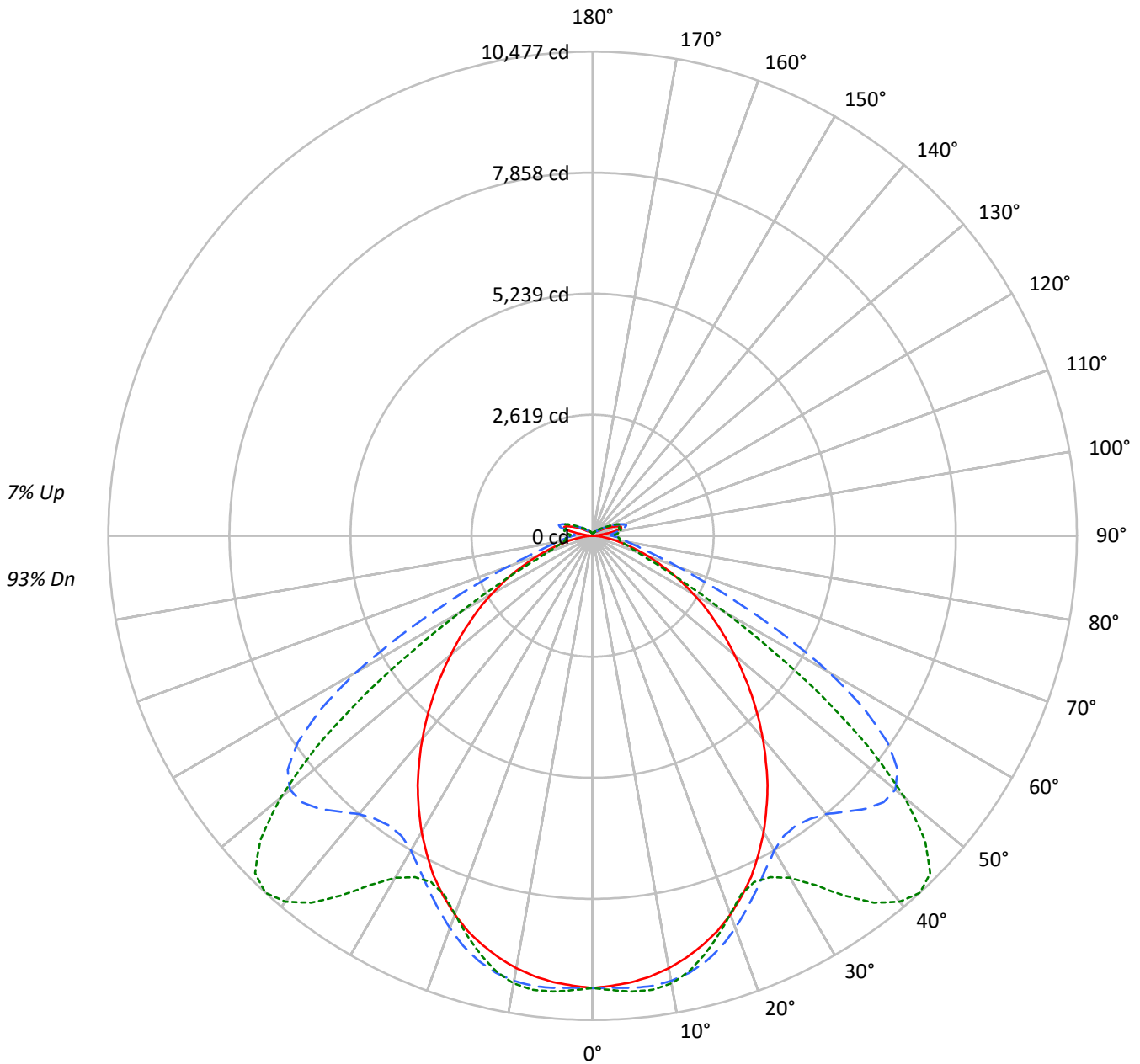
Lumens per Lamp: N/A
Luminaire Lumens: 30821.2 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16715	16715	16715
5°	16479	16691	16905
10°	16193	16666	16925
15°	15798	16390	16383
20°	15289	15827	15580
25°	14637	15145	15268
30°	13799	14638	16430
35°	12857	14908	19226
40°	11783	16146	22226
45°	10668	18314	23891
50°	9514	20251	22232
55°	8428	20225	16987
60°	7328	17110	10386
65°	6176	11814	6291
70°	4896	7636	4542
75°	3592	5471	4212
80°	2425	4804	4752
85°	1448	5275	7511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.2	3.0
10°-20°	2648.2	8.6
20°-30°	3875.2	12.6
30°-40°	5032.7	16.3
40°-50°	6145.6	19.9
50°-60°	5412.1	17.6
60°-70°	2820.3	9.2
70°-80°	1209.4	3.9
80°-90°	584.7	1.9
90°-100°	418.5	1.4
100°-110°	674.2	2.2
110°-120°	533.9	1.7
120°-130°	262.6	0.9
130°-140°	131.4	0.4
140°-150°	73.5	0.2
150°-160°	39.8	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	7458.6	24.2
0°-40°	12491.3	40.5
0°-60°	24049.0	78.0
0°-90°	28663.4	93.0
90°-120°	1626.6	5.3
90°-150°	2094.1	6.8
90°-180°	2158.0	7.0
0°-180°	30821.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9786	9786	9786	9786	9786	
5°	9696	9769	9822	9909	9898	919
15°	9174	9432	9522	9451	9375	2583
25°	8129	8564	8418	8260	8268	3730
35°	6598	7295	7660	8933	9506	4112
45°	4858	6112	8355	10116	10327	3746
55°	3235	5354	7780	6822	6064	2903
65°	1856	3710	3562	1980	1704	1836
75°	747	1736	1144	783	743	815
85°	158	619	583	570	576	177
90°	5	246	413	477	493	13
95°	32	203	413	501	534	103
105°	641	698	730	615	588	608
115°	449	478	562	588	583	453
125°	226	244	301	320	321	212
135°	138	142	166	191	194	109
145°	108	106	110	124	129	68
155°	90	91	89	89	90	39
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°	9786.3	9786.3	9786.3	9786.3	9786.3
2.5°	9744.1	9786.3	9788.4	9847.6	9841.2
5°	9695.5	9769.4	9822.2	9908.8	9898.2
7.5°	9615.3	9731.4	9824.3	9919.4	9910.9
10°	9501.3	9659.6	9782.1	9860.2	9834.9
12.5°	9353.5	9562.5	9682.9	9699.8	9651.2
15°	9174.0	9431.6	9522.4	9450.6	9374.6
17.5°	8971.3	9273.3	9304.9	9148.7	9053.7
20°	8718.0	9062.1	9030.5	8815.1	8709.5
22.5°	8437.1	8829.9	8728.5	8502.6	8401.3
25°	8128.9	8563.8	8418.1	8259.8	8268.2
27.5°	7767.8	8261.9	8120.4	8192.2	8327.4
30°	7400.5	7945.2	7858.6	8276.7	8542.7
32.5°	6997.2	7620.0	7698.2	8523.7	8958.7
35°	6598.1	7294.9	7660.2	8933.3	9505.5
37.5°	6156.8	6965.5	7721.4	9406.3	10005.9
40°	5728.2	6644.6	7860.7	9830.7	10337.4
42.5°	5291.2	6357.4	8095.1	10081.9	10476.8
45°	4858.3	6112.5	8354.8	10115.7	10326.9
47.5°	4425.5	5905.6	8534.3	9847.6	9750.4
50°	4007.4	5721.9	8546.9	9203.6	8806.6
52.5°	3616.8	5553.0	8314.7	8177.4	7560.9
55°	3234.7	5354.5	7780.5	6821.9	6063.9
57.5°	2886.3	5080.0	6957.1	5365.1	4537.4
60°	2516.8	4708.4	5892.9	3925.1	3272.7
62.5°	2176.9	4246.0	4700.0	2732.1	2352.1
65°	1855.9	3709.7	3561.9	1980.5	1703.9
67.5°	1516.0	3154.4	2628.7	1444.2	1266.8
70°	1249.9	2639.2	1957.3	1123.3	1019.8
72.5°	977.6	2149.4	1463.2	912.1	855.1
75°	747.4	1735.6	1144.4	783.3	743.2
77.5°	551.1	1372.4	920.6	692.5	654.5
80°	386.4	1081.0	770.7	618.6	603.9
82.5°	259.7	836.1	656.6	589.1	591.2
85°	158.4	618.6	582.7	570.1	576.4
87.5°	76.0	439.2	500.4	519.4	525.7
90°	5.1	245.8	413.3	477.2	492.7
92.5°	10.0	199.0	383.8	456.7	477.3
95°	32.2	202.9	413.2	500.9	534.5
97.5°	170.2	294.7	478.5	564.4	588.7
100°	343.3	456.9	543.9	611.7	625.0
102.5°	548.3	606.3	606.6	614.0	612.3
105°	641.4	697.9	730.5	614.6	587.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.7	566.7	646.4	657.9	644.1
115°	448.7	478.2	562.5	587.9	583.1
117.5°	388.8	410.0	483.7	507.0	507.1
120°	326.8	347.7	409.9	433.2	434.3
122.5°	272.8	291.3	353.3	373.6	374.7
125°	225.8	244.1	300.8	319.9	321.0
127.5°	192.7	201.8	256.2	277.3	277.5
130°	168.7	173.7	217.7	239.8	244.0
132.5°	151.7	155.7	190.2	212.3	217.6
135°	137.7	141.7	165.8	191.0	194.1
137.5°	127.7	129.7	148.4	170.6	175.8
140°	117.7	120.7	132.1	154.2	157.3
142.5°	112.8	112.7	121.0	139.9	142.0
145°	107.9	105.7	109.8	124.4	128.7
147.5°	102.9	102.8	104.8	113.2	116.3
150°	97.9	99.9	96.7	101.9	106.1
152.5°	93.9	94.9	92.7	92.7	97.9
155°	89.9	90.9	88.7	88.7	89.7
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°	643.6	699.5	764.4	665.3	596.5
110°	594.6	646.0	719.2	702.0	644.2



(END OF REPORT)