

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: P827183

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827183
REPORT IS A COMBINATION OF REPORTS P826129 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-NL-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

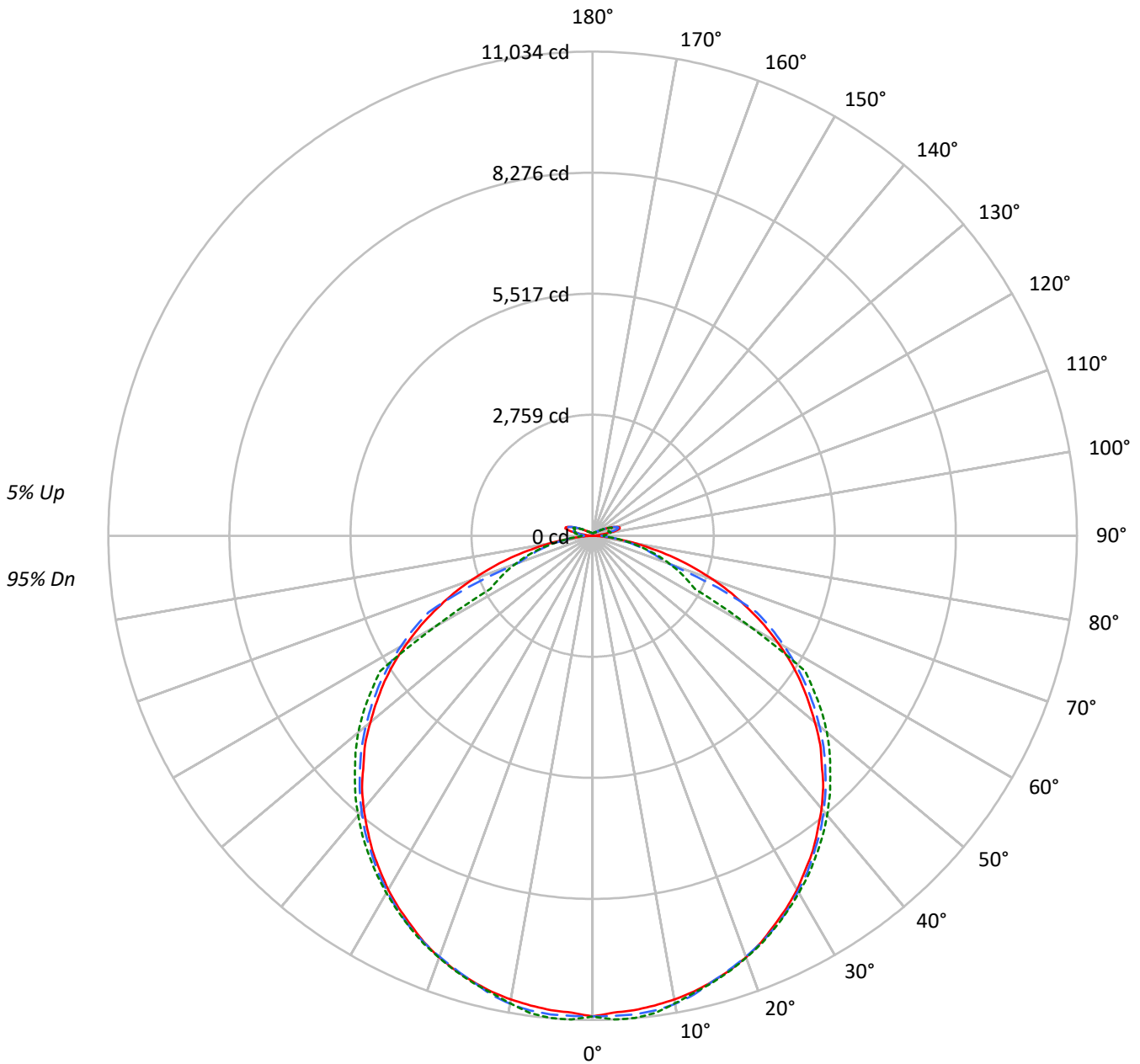
Lumens per Lamp: N/A
Luminaire Lumens: 32272.2 lumens
Efficiency: N/A
Efficacy: 175.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18708	18708	18708
5°	18508	18673	18871
10°	18415	18587	18677
15°	18313	18304	18513
20°	18184	18150	18422
25°	17952	18035	18337
30°	17754	17834	18257
35°	17514	17597	18186
40°	17225	17373	18132
45°	16822	17058	18019
50°	16391	16704	17947
55°	15867	16254	17643
60°	15082	15590	13630
65°	13957	14737	9078
70°	12508	7577	8679
75°	10384	6847	8092
80°	7292	5728	7085
85°	2926	4589	6131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.6	3.2
10°-20°	2979.6	9.2
20°-30°	4533.7	14.0
30°-40°	5512.3	17.1
40°-50°	5795.9	18.0
50°-60°	5292.4	16.4
60°-70°	3392.7	10.5
70°-80°	1602.6	5.0
80°-90°	448.2	1.4
90°-100°	263.3	0.8
100°-110°	536.8	1.7
110°-120°	442.5	1.4
120°-130°	208.1	0.6
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°	8553.9	26.5
0°-40°	14066.2	43.6
0°-60°	25154.4	77.9
0°-90°	30598.0	94.8
90°-120°	1242.7	3.9
90°-150°	1615.2	5.0
90°-180°	1674.0	5.2
0°-180°	32272.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10953	10953	10953	10953	10953	
5°	10852	10894	10950	11009	11032	###
15°	10523	10602	10521	10536	10544	2971
25°	9792	9808	9842	9858	9850	4519
35°	8753	8701	8801	8908	8883	5470
45°	7382	7369	7494	7671	7657	5706
55°	5785	5741	5935	6133	6148	5159
65°	3898	3898	4124	2366	2374	3864
75°	1926	1962	1274	1342	1347	2030
85°	252	319	398	431	407	372
90°	3	130	206	247	249	13
95°	34	128	234	313	336	103
105°	643	645	563	407	374	609
115°	446	449	459	451	431	447
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10953.4	10953.4	10953.4	10953.4	10953.4
2.5°	10876.5	10913.1	10953.4	11005.3	11034.0
5°	10851.5	10893.8	10949.6	11009.2	11032.2
7.5°	10797.8	10857.2	10911.1	10953.4	10966.9
10°	10730.4	10801.6	10832.4	10828.5	10818.9
12.5°	10640.1	10715.1	10705.6	10661.2	10669.0
15°	10522.9	10601.6	10521.0	10536.3	10544.0
17.5°	10384.5	10461.4	10367.2	10397.9	10399.9
20°	10223.1	10280.7	10207.7	10232.7	10232.7
22.5°	10029.0	10069.3	10038.6	10055.9	10059.7
25°	9792.5	9807.8	9842.4	9857.9	9850.1
27.5°	9565.9	9546.5	9613.9	9650.3	9631.0
30°	9313.9	9283.2	9362.0	9421.6	9398.6
32.5°	9025.6	9006.5	9096.8	9167.8	9154.4
35°	8752.7	8700.8	8800.8	8908.4	8883.4
37.5°	8429.8	8399.1	8512.4	8626.0	8612.5
40°	8114.6	8062.7	8191.5	8326.0	8312.6
42.5°	7776.4	7714.8	7855.2	8016.7	8001.3
45°	7382.3	7368.8	7493.8	7670.6	7657.2
47.5°	7032.7	6965.3	7140.1	7311.2	7326.7
50°	6609.6	6584.8	6744.3	6951.9	6967.1
52.5°	6196.5	6179.2	6346.3	6555.9	6582.8
55°	5785.1	5740.9	5935.1	6133.1	6148.5
57.5°	5345.2	5299.0	5497.0	5712.2	5744.8
60°	4874.1	4829.9	5047.1	5247.1	4172.7
62.5°	4403.2	4372.5	4599.4	3257.8	2625.6
65°	3897.8	3897.8	4124.4	2365.9	2373.7
67.5°	3425.1	3394.3	3075.3	2125.6	2125.6
70°	2917.6	2929.2	1772.0	1862.5	1864.3
72.5°	2408.3	2450.6	1530.0	1602.9	1606.7
75°	1925.8	1962.4	1274.2	1341.6	1347.3
77.5°	1414.6	1087.8	1024.3	1076.4	1078.3
80°	993.6	686.2	784.2	834.1	828.4
82.5°	580.3	480.4	574.6	611.3	609.2
85°	251.7	319.1	397.8	430.6	407.4
87.5°	80.6	198.0	247.8	267.2	265.1
90°	3.0	129.6	205.8	247.4	248.7
92.5°	10.0	112.4	199.8	256.3	268.1
95°	33.7	127.8	234.0	313.1	336.1
97.5°	169.9	227.3	294.3	369.5	391.4
100°	340.9	396.6	358.6	410.0	419.1
102.5°	551.6	550.9	423.4	409.5	405.5
105°	642.6	645.2	562.7	406.7	373.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	520.6	531.5	528.2	504.5	472.8
115°	445.6	449.4	459.1	451.4	430.8
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°	642.6	653.1	613.9	469.3	384.7
110°	595.6	606.3	586.0	527.5	451.8



(END OF REPORT)