

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: P830302

Luminaire Tested: **OHBL-30SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30SE-W-UNV-L850-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

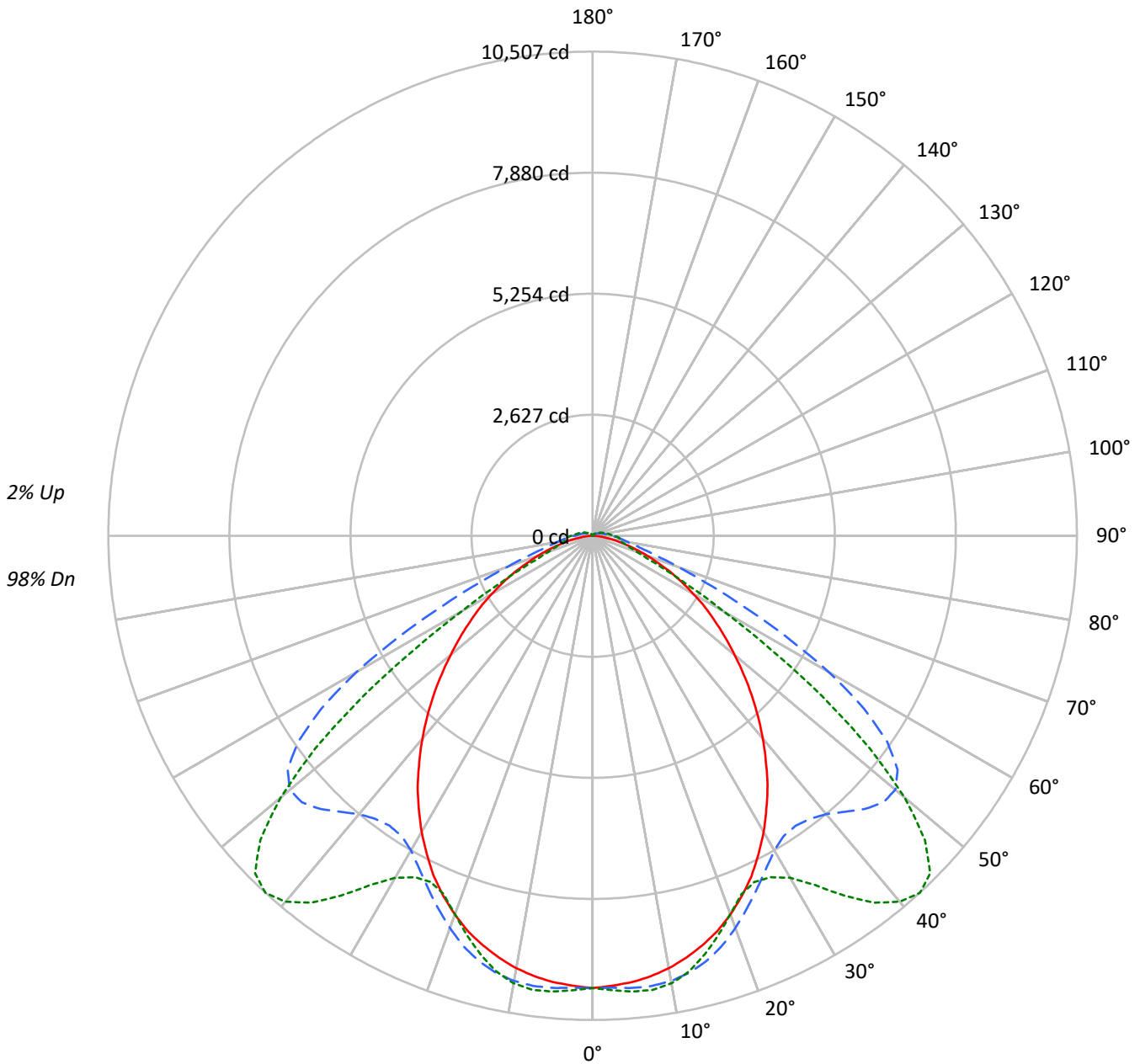
Lumens per Lamp: N/A
Luminaire Lumens: 29387.0 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16763	16763	16763
5°	16607	16740	16872
10°	16399	16714	16810
15°	16079	16438	16191
20°	15641	15873	15319
25°	15054	15189	14931
30°	14274	14680	15974
35°	13384	14952	18576
40°	12352	16193	21326
45°	11272	18368	22742
50°	10146	20310	20969
55°	9088	20284	15846
60°	8011	17160	9556
65°	6873	11848	5686
70°	5584	7658	4007
75°	4248	5487	3582
80°	3049	4818	3801
85°	2069	5291	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.9	3.2
10°-20°	2655.9	9.0
20°-30°	3886.4	13.2
30°-40°	5047.3	17.2
40°-50°	6163.4	21.0
50°-60°	5427.9	18.5
60°-70°	2828.5	9.6
70°-80°	1212.9	4.1
80°-90°	582.5	2.0
90°-100°	273.7	0.9
100°-110°	170.1	0.6
110°-120°	100.6	0.3
120°-130°	54.7	0.2
130°-140°	27.4	0.1
140°-150°	13.2	0.0
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7480.2	25.5
0°-40°	12527.5	42.6
0°-60°	24118.8	82.1
0°-90°	28742.7	97.8
90°-120°	544.4	1.9
90°-150°	639.7	2.2
90°-180°	644.0	2.2
0°-180°	29387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9815	9815	9815	9815	9815	
5°	9724	9798	9851	9938	9927	922
15°	9201	9459	9550	9478	9402	2591
25°	8152	8589	8443	8284	8292	3741
35°	6617	7316	7682	8959	9533	4124
45°	4872	6130	8379	10145	10357	3757
55°	3244	5370	7803	6842	6082	2911
65°	1861	3720	3572	1986	1709	1842
75°	750	1741	1148	786	745	817
85°	159	620	584	572	578	177
90°	2	224	385	440	451	11
95°	4	131	307	360	371	3
105°	8	74	199	239	244	9
115°	13	42	123	150	155	13
125°	15	21	72	93	95	13
135°	13	13	34	57	59	10
145°	17	13	15	28	32	10
155°	17	17	13	13	13	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9814.7	9814.7	9814.7	9814.7	9814.7
2.5°	9772.4	9814.7	9816.8	9876.1	9869.8
5°	9723.7	9797.8	9850.7	9937.5	9927.0
7.5°	9643.2	9759.7	9852.8	9948.1	9939.7
10°	9528.9	9687.7	9810.5	9888.8	9863.4
12.5°	9380.6	9590.3	9711.0	9727.9	9679.2
15°	9200.6	9459.0	9550.0	9478.0	9401.8
17.5°	8997.4	9300.2	9331.9	9175.2	9079.9
20°	8743.3	9088.4	9056.6	8840.7	8734.8
22.5°	8461.6	8855.5	8753.8	8527.3	8425.6
25°	8152.5	8588.7	8442.6	8283.8	8292.2
27.5°	7790.4	8285.9	8144.0	8216.0	8351.5
30°	7421.9	7968.2	7881.4	8300.7	8567.5
32.5°	7017.5	7642.1	7720.5	8548.4	8984.7
35°	6617.3	7316.0	7682.4	8959.2	9533.1
37.5°	6174.7	6985.7	7743.8	9433.6	10034.9
40°	5744.8	6663.8	7883.5	9859.2	10367.4
42.5°	5306.5	6375.9	8118.6	10111.2	10507.2
45°	4872.4	6130.2	8379.0	10145.1	10356.8
47.5°	4438.3	5922.7	8559.0	9876.1	9778.7
50°	4019.1	5738.5	8571.7	9230.3	8832.2
52.5°	3627.3	5569.1	8338.8	8201.2	7582.9
55°	3244.0	5370.0	7803.1	6841.7	6081.5
57.5°	2894.7	5094.8	6977.2	5380.6	4550.6
60°	2524.1	4722.1	5910.0	3936.5	3282.2
62.5°	2183.2	4258.3	4713.6	2740.1	2358.9
65°	1861.3	3720.5	3572.3	1986.2	1708.8
67.5°	1520.4	3163.6	2636.3	1448.4	1270.5
70°	1253.6	2646.9	1962.9	1126.5	1022.8
72.5°	980.4	2155.6	1467.4	914.8	857.6
75°	749.6	1740.6	1147.7	785.6	745.4
77.5°	552.7	1376.4	923.2	694.5	656.4
80°	387.5	1084.2	772.9	620.4	605.6
82.5°	260.5	838.5	658.5	590.8	592.9
85°	158.8	620.4	584.4	571.7	578.1
87.5°	76.2	440.4	501.9	520.9	527.3
90°	2.1	224.5	385.4	440.4	451.0
92.5°	0.0	171.5	338.8	393.9	404.4
95°	4.2	131.3	307.0	360.0	370.6
97.5°	4.2	108.0	275.3	330.3	336.7
100°	6.4	93.2	245.6	298.6	304.9
102.5°	6.4	82.6	220.2	266.8	271.0
105°	8.5	74.1	199.0	239.3	243.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.7	50.8	139.8	169.4	173.6
115°	12.7	42.4	122.8	150.3	154.6
117.5°	14.8	38.1	108.0	133.4	135.5
120°	14.8	31.8	93.2	118.6	120.7
122.5°	14.8	25.4	82.6	105.9	108.0
125°	14.8	21.2	72.0	93.2	95.3
127.5°	12.7	14.8	61.4	82.6	84.7
130°	12.7	12.7	50.8	72.0	76.2
132.5°	12.7	12.7	42.4	63.5	67.8
135°	12.7	12.7	33.9	57.2	59.3
137.5°	12.7	12.7	27.5	48.7	52.9
140°	12.7	12.7	21.2	42.4	44.5
142.5°	14.8	12.7	19.1	36.0	38.1
145°	16.9	12.7	14.8	27.5	31.8
147.5°	16.9	14.8	14.8	23.3	25.4
150°	16.9	16.9	12.7	16.9	21.2
152.5°	16.9	16.9	12.7	12.7	16.9
155°	16.9	16.9	12.7	12.7	12.7
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10.6	65.6	177.9	213.9	<i>218.1</i>
110°	10.6	57.2	156.7	190.6	<i>194.8</i>



(END OF REPORT)