

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: P830011

Luminaire Tested: **OHBL-18SE-W-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830011
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-18SE-W-UNV-L830-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

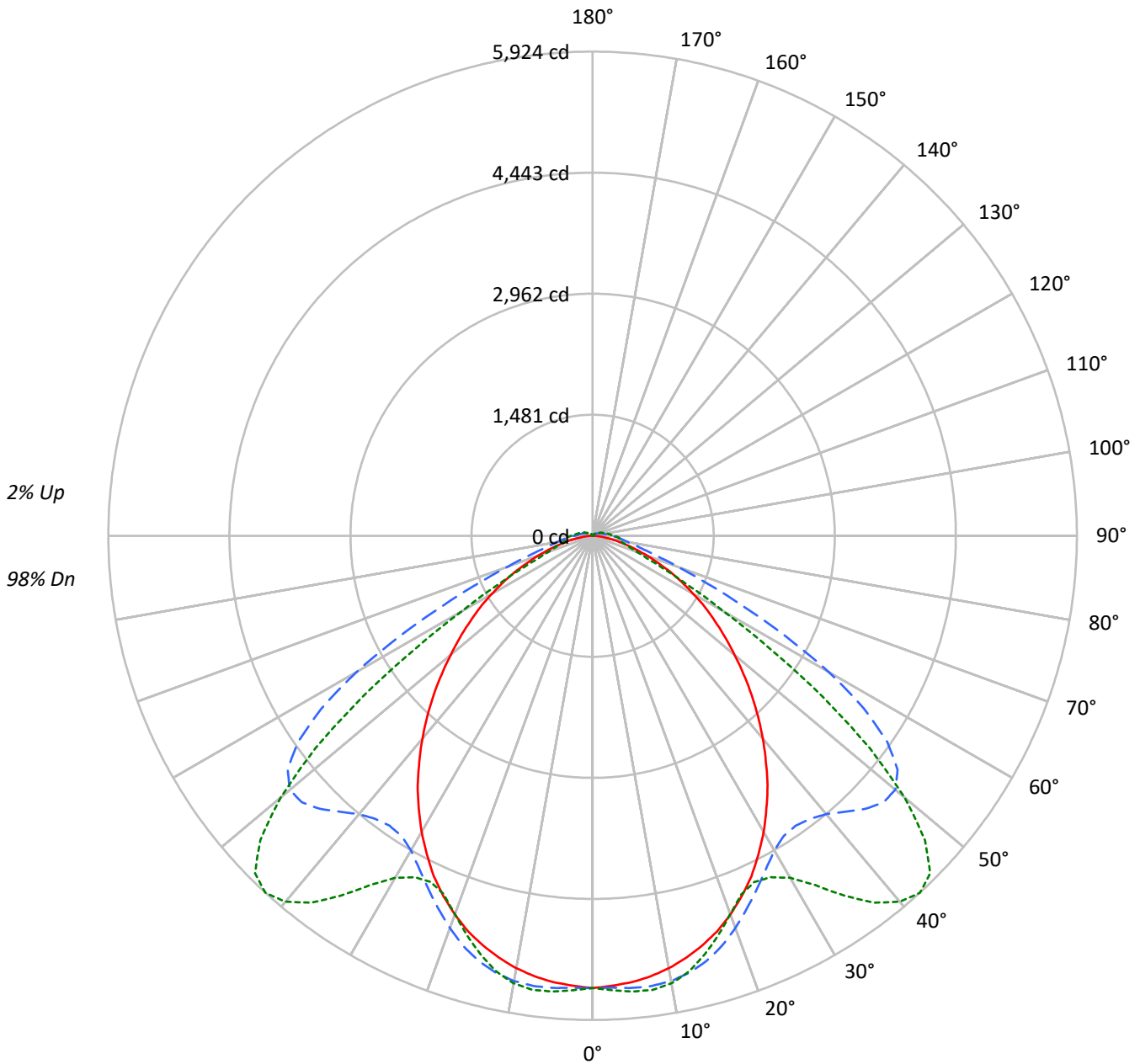
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16569.0 lumens
Efficiency: N/A
Efficacy: 157.8 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): 105
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°	9452	9452	9452
5°	9364	9438	9513
10°	9246	9424	9478
15°	9066	9268	9129
20°	8819	8949	8637
25°	8488	8564	8418
30°	8048	8277	9007
35°	7546	8430	10474
40°	6964	9130	12024
45°	6356	10356	12822
50°	5721	11451	11823
55°	5124	11436	8934
60°	4516	9675	5388
65°	3875	6680	3206
70°	3148	4318	2259
75°	2395	3094	2020
80°	1719	2717	2143
85°	1166	2983	2980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.8	3.2
10°-20°	1497.4	9.0
20°-30°	2191.2	13.2
30°-40°	2845.8	17.2
40°-50°	3475.1	21.0
50°-60°	3060.3	18.5
60°-70°	1594.8	9.6
70°-80°	683.9	4.1
80°-90°	328.4	2.0
90°-100°	154.3	0.9
100°-110°	95.9	0.6
110°-120°	56.7	0.3
120°-130°	30.8	0.2
130°-140°	15.5	0.1
140°-150°	7.4	0.0
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4217.5	25.5
0°-40°	7063.3	42.6
0°-60°	13598.7	82.1
0°-90°	16205.7	97.8
90°-120°	306.9	1.9
90°-150°	360.7	2.2
90°-180°	363.0	2.2
0°-180°	16569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5534	5534	5534	5534	5534	
5°	5482	5524	5554	5603	5597	520
15°	5188	5333	5384	5344	5301	1461
25°	4596	4842	4760	4671	4675	2109
35°	3731	4125	4332	5051	5375	2325
45°	2747	3456	4724	5720	5839	2118
55°	1829	3028	4400	3858	3429	1642
65°	1049	2098	2014	1120	964	1038
75°	423	981	647	443	420	461
85°	90	350	330	322	326	100
90°	1	127	217	248	254	6
95°	2	74	173	203	209	2
105°	5	42	112	135	137	5
115°	7	24	69	85	87	7
125°	8	12	41	52	54	7
135°	7	7	19	32	33	6
145°	10	7	8	16	18	6
155°	10	10	7	7	7	3
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°	5533.7	5533.7	5533.7	5533.7	5533.7
2.5°	5509.9	5533.7	5534.9	5568.4	5564.8
5°	5482.4	5524.2	5554.0	5603.0	5597.0
7.5°	5437.0	5502.7	5555.2	5609.0	5604.2
10°	5372.6	5462.1	5531.4	5575.5	5561.2
12.5°	5289.0	5407.2	5475.2	5484.8	5457.3
15°	5187.5	5333.2	5384.5	5343.9	5300.9
17.5°	5072.9	5243.6	5261.5	5173.2	5119.5
20°	4929.6	5124.2	5106.3	4984.5	4924.9
22.5°	4770.8	4992.9	4935.6	4807.9	4750.5
25°	4596.5	4842.5	4760.1	4670.6	4675.3
27.5°	4392.4	4671.7	4591.8	4632.3	4708.8
30°	4184.6	4492.7	4443.7	4680.1	4830.5
32.5°	3956.6	4308.8	4353.0	4819.8	5065.7
35°	3730.9	4124.9	4331.5	5051.4	5375.0
37.5°	3481.4	3938.7	4366.1	5318.8	5657.9
40°	3239.1	3757.2	4444.9	5558.8	5845.4
42.5°	2991.9	3594.8	4577.4	5700.9	5924.1
45°	2747.2	3456.4	4724.3	5720.0	5839.4
47.5°	2502.4	3339.3	4825.8	5568.4	5513.4
50°	2266.0	3235.5	4832.9	5204.2	4979.8
52.5°	2045.2	3140.0	4701.6	4624.0	4275.4
55°	1829.1	3027.7	4399.5	3857.5	3428.9
57.5°	1632.1	2872.5	3933.9	3033.7	2565.7
60°	1423.1	2662.4	3332.2	2219.5	1850.6
62.5°	1230.9	2400.9	2657.6	1544.9	1330.0
65°	1049.4	2097.7	2014.1	1119.9	963.5
67.5°	857.2	1783.7	1486.4	816.6	716.3
70°	706.8	1492.4	1106.7	635.2	576.7
72.5°	552.8	1215.4	827.4	515.8	483.5
75°	422.6	981.4	647.1	442.9	420.3
77.5°	311.6	776.0	520.5	391.6	370.1
80°	218.5	611.3	435.8	349.8	341.5
82.5°	146.9	472.8	371.3	333.1	334.3
85°	89.5	349.8	329.5	322.4	325.9
87.5°	43.0	248.3	283.0	293.7	297.3
90°	1.2	126.6	217.3	248.3	254.3
92.5°	0.0	96.7	191.0	222.1	228.0
95°	2.4	74.0	173.1	203.0	208.9
97.5°	2.4	60.9	155.2	186.2	189.8
100°	3.6	52.5	138.5	168.3	171.9
102.5°	3.6	46.6	124.2	150.4	152.8
105°	4.8	41.8	112.2	134.9	137.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	28.7	78.8	95.5	97.9
115°	7.2	23.9	69.2	84.8	87.2
117.5°	8.4	21.5	60.9	75.2	76.4
120°	8.4	17.9	52.5	66.9	68.1
122.5°	8.4	14.3	46.6	59.7	60.9
125°	8.4	11.9	40.6	52.5	53.7
127.5°	7.2	8.4	34.6	46.6	47.8
130°	7.2	7.2	28.7	40.6	43.0
132.5°	7.2	7.2	23.9	35.8	38.2
135°	7.2	7.2	19.1	32.2	33.4
137.5°	7.2	7.2	15.5	27.5	29.8
140°	7.2	7.2	11.9	23.9	25.1
142.5°	8.4	7.2	10.7	20.3	21.5
145°	9.6	7.2	8.4	15.5	17.9
147.5°	9.6	8.4	8.4	13.1	14.3
150°	9.6	9.6	7.2	9.6	11.9
152.5°	9.6	9.6	7.2	7.2	9.6
155°	9.6	9.6	7.2	7.2	7.2
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°	6.0	37.0	100.3	120.6	123.0
110°	6.0	32.2	88.3	107.5	109.8



(END OF REPORT)