

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: P830008

Luminaire Tested: **OHBL-18SE-W-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830008
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-L735-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

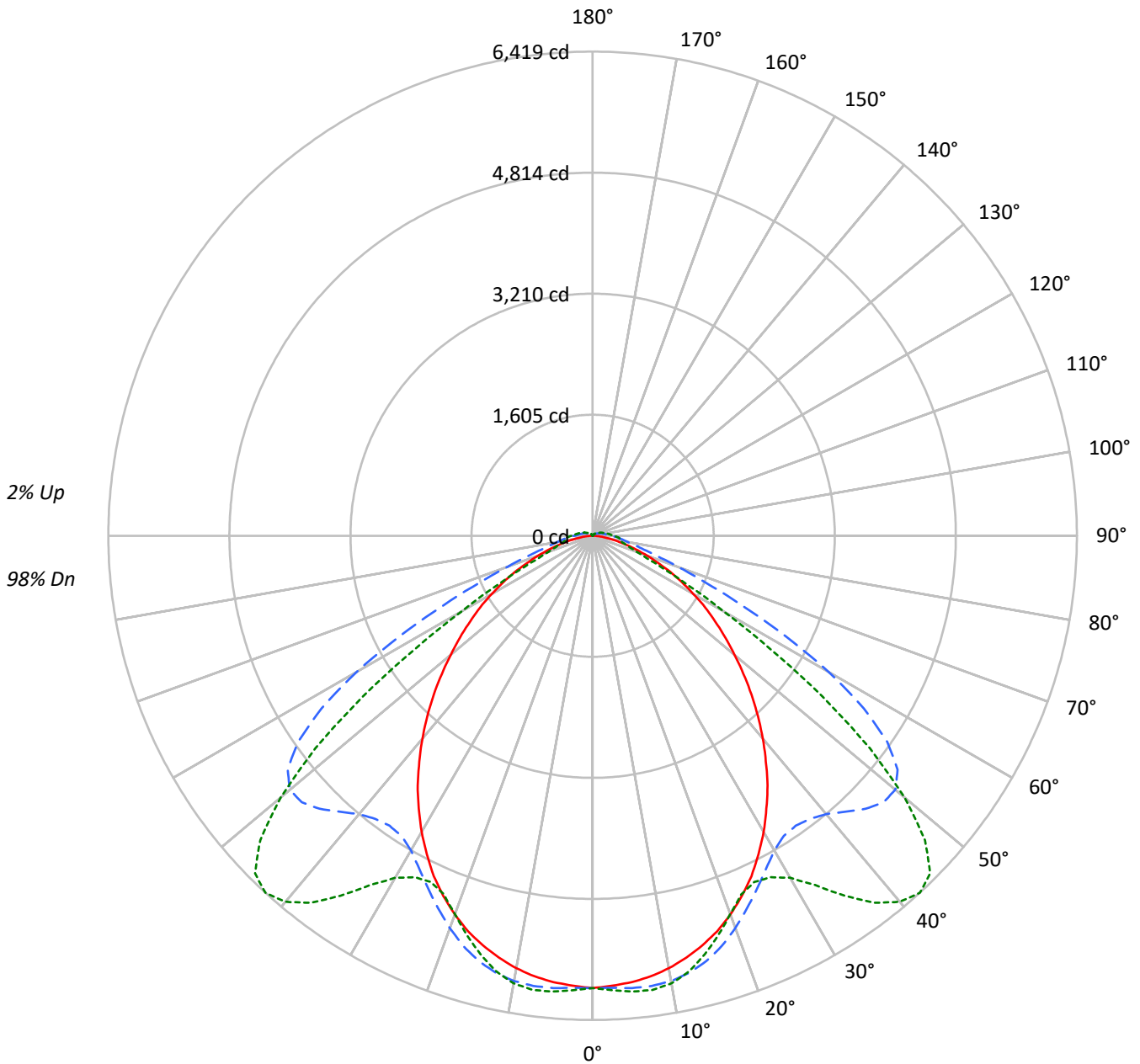
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17954.0 lumens
Efficiency: N/A
Efficacy: 171.0 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				20				20
RC	80				70				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	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10242	10242	10242
5°	10146	10227	10308
10°	10019	10212	10270
15°	9823	10043	9892
20°	9556	9698	9359
25°	9198	9280	9122
30°	8721	8969	9760
35°	8177	9135	11349
40°	7546	9893	13029
45°	6887	11222	13894
50°	6199	12408	12811
55°	5552	12393	9681
60°	4894	10484	5838
65°	4199	7239	3474
70°	3412	4679	2448
75°	2595	3352	2188
80°	1862	2943	2322
85°	1264	3233	3230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.0	3.2
10°-20°	1622.6	9.0
20°-30°	2374.4	13.2
30°-40°	3083.7	17.2
40°-50°	3765.5	21.0
50°-60°	3316.1	18.5
60°-70°	1728.1	9.6
70°-80°	741.1	4.1
80°-90°	355.9	2.0
90°-100°	167.2	0.9
100°-110°	103.9	0.6
110°-120°	61.4	0.3
120°-130°	33.4	0.2
130°-140°	16.8	0.1
140°-150°	8.1	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4570.0	25.5
0°-40°	7653.7	42.6
0°-60°	14735.4	82.1
0°-90°	17560.4	97.8
90°-120°	332.6	1.9
90°-150°	390.8	2.2
90°-180°	394.0	2.2
0°-180°	17954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5996	5996	5996	5996	5996	
5°	5941	5986	6018	6071	6065	563
15°	5621	5779	5835	5791	5744	1583
25°	4981	5247	5158	5061	5066	2286
35°	4043	4470	4694	5474	5824	2520
45°	2977	3745	5119	6198	6328	2295
55°	1982	3281	4767	4180	3716	1779
65°	1137	2273	2182	1214	1044	1125
75°	458	1063	701	480	455	499
85°	97	379	357	349	353	108
90°	1	137	236	269	276	7
95°	3	80	188	220	226	2
105°	5	45	122	146	149	5
115°	8	26	75	92	94	8
125°	9	13	44	57	58	8
135°	8	8	21	35	36	6
145°	10	8	9	17	19	6
155°	10	10	8	8	8	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°	5996.3	5996.3	5996.3	5996.3	5996.3
2.5°	5970.4	5996.3	5997.6	6033.8	6029.9
5°	5940.7	5986.0	6018.3	6071.3	6064.9
7.5°	5891.5	5962.7	6019.6	6077.8	6072.6
10°	5821.7	5918.7	5993.7	6041.6	6026.1
12.5°	5731.1	5859.2	5932.9	5943.3	5913.5
15°	5621.1	5779.0	5834.6	5790.6	5744.0
17.5°	5496.9	5681.9	5701.3	5605.6	5547.4
20°	5341.7	5552.6	5533.2	5401.2	5336.5
22.5°	5169.6	5410.3	5348.2	5209.7	5147.6
25°	4980.8	5247.3	5158.0	5061.0	5066.1
27.5°	4759.5	5062.3	4975.6	5019.6	5102.4
30°	4534.4	4868.2	4815.2	5071.3	5234.3
32.5°	4287.3	4669.0	4716.8	5222.7	5489.2
35°	4042.8	4469.7	4693.6	5473.7	5824.2
37.5°	3772.4	4267.9	4731.1	5763.4	6130.9
40°	3509.8	4071.3	4816.5	6023.5	6334.0
42.5°	3242.0	3895.3	4960.1	6177.4	6419.3
45°	2976.8	3745.3	5119.2	6198.1	6327.5
47.5°	2711.6	3618.5	5229.1	6033.8	5974.3
50°	2455.4	3505.9	5236.9	5639.2	5396.0
52.5°	2216.1	3402.4	5094.6	5010.5	4632.7
55°	1982.0	3280.8	4767.3	4180.0	3715.5
57.5°	1768.5	3112.6	4262.7	3287.3	2780.2
60°	1542.1	2885.0	3610.7	2405.0	2005.2
62.5°	1333.8	2601.6	2879.8	1674.1	1441.2
65°	1137.2	2273.0	2182.5	1213.5	1044.0
67.5°	928.9	1932.8	1610.7	884.9	776.2
70°	765.9	1617.1	1199.3	688.2	624.9
72.5°	599.0	1317.0	896.5	558.9	523.9
75°	458.0	1063.4	701.2	480.0	455.4
77.5°	337.7	840.9	564.1	424.3	401.0
80°	236.7	662.4	472.2	379.1	370.0
82.5°	159.1	512.3	402.3	360.9	362.2
85°	97.0	379.1	357.1	349.3	353.2
87.5°	46.6	269.1	306.6	318.3	322.1
90°	1.3	137.1	235.5	269.1	275.6
92.5°	0.0	104.8	207.0	240.6	247.1
95°	2.6	80.2	187.6	219.9	226.4
97.5°	2.6	66.0	168.2	201.8	205.7
100°	3.9	56.9	150.1	182.4	186.3
102.5°	3.9	50.5	134.5	163.0	165.6
105°	5.2	45.3	121.6	146.2	148.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	31.0	85.4	103.5	106.1
115°	7.8	25.9	75.0	91.9	94.4
117.5°	9.1	23.3	66.0	81.5	82.8
120°	9.1	19.4	56.9	72.4	73.7
122.5°	9.1	15.5	50.5	64.7	66.0
125°	9.1	12.9	44.0	56.9	58.2
127.5°	7.8	9.1	37.5	50.5	51.7
130°	7.8	7.8	31.0	44.0	46.6
132.5°	7.8	7.8	25.9	38.8	41.4
135°	7.8	7.8	20.7	34.9	36.2
137.5°	7.8	7.8	16.8	29.8	32.3
140°	7.8	7.8	12.9	25.9	27.2
142.5°	9.1	7.8	11.6	22.0	23.3
145°	10.3	7.8	9.1	16.8	19.4
147.5°	10.3	9.1	9.1	14.2	15.5
150°	10.3	10.3	7.8	10.3	12.9
152.5°	10.3	10.3	7.8	7.8	10.3
155°	10.3	10.3	7.8	7.8	7.8
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°	6.5	40.1	108.7	130.7	133.3
110°	6.5	34.9	95.7	116.4	119.0



(END OF REPORT)