

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: P830009

Luminaire Tested: **OHBL-18SE-W-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830009
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-L740-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

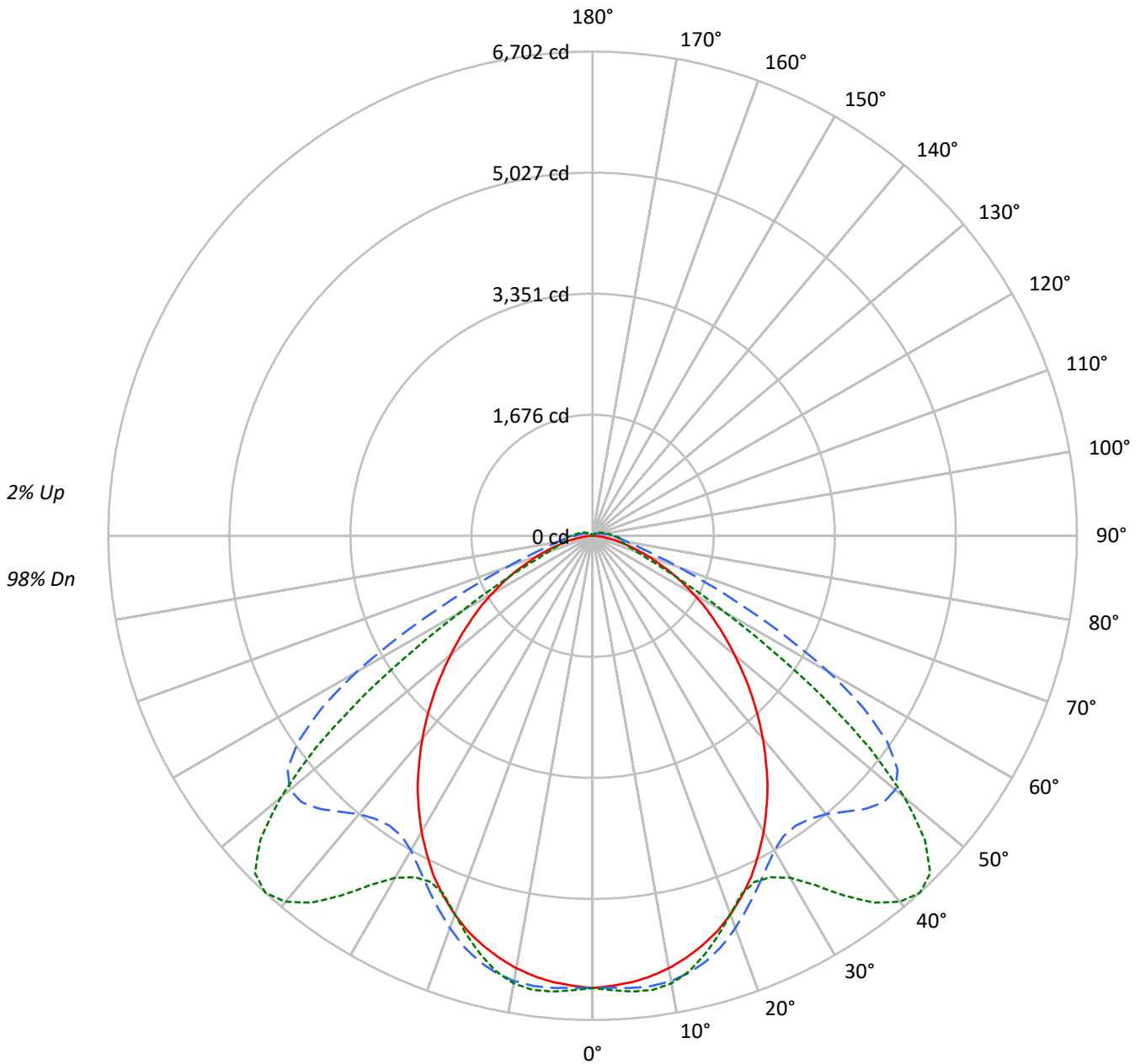
Lumens per Lamp: N/A
Luminaire Lumens: 18745.1 lumens
Efficiency: N/A
Efficacy: 178.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	10693	10693	10693
5°	10593	10678	10762
10°	10460	10662	10723
15°	10256	10485	10328
20°	9977	10125	9771
25°	9603	9688	9524
30°	9105	9364	10190
35°	8537	9537	11849
40°	7879	10329	13603
45°	7190	11716	14506
50°	6472	12955	13376
55°	5797	12938	10108
60°	5110	10946	6096
65°	4384	7557	3627
70°	3562	4885	2556
75°	2709	3500	2284
80°	1945	3073	2424
85°	1320	3375	3371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	3.2
10°-20°	1694.1	9.0
20°-30°	2479.0	13.2
30°-40°	3219.5	17.2
40°-50°	3931.4	21.0
50°-60°	3462.3	18.5
60°-70°	1804.2	9.6
70°-80°	773.7	4.1
80°-90°	371.6	2.0
90°-100°	174.6	0.9
100°-110°	108.5	0.6
110°-120°	64.2	0.3
120°-130°	34.9	0.2
130°-140°	17.5	0.1
140°-150°	8.4	0.0
150°-160°	2.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4771.4	25.5
0°-40°	7990.9	42.6
0°-60°	15384.6	82.1
0°-90°	18334.1	97.8
90°-120°	347.2	1.9
90°-150°	408.0	2.2
90°-180°	411.0	2.2
0°-180°	18745.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6260	6260	6260	6260	6260	
5°	6202	6250	6283	6339	6332	588
15°	5869	6034	6092	6046	5997	1652
25°	5200	5478	5385	5284	5289	2386
35°	4221	4667	4900	5715	6081	2631
45°	3108	3910	5345	6471	6606	2396
55°	2069	3425	4977	4364	3879	1857
65°	1187	2373	2279	1267	1090	1175
75°	478	1110	732	501	475	521
85°	101	396	373	365	369	113
90°	1	143	246	281	288	7
95°	3	84	196	230	236	2
105°	5	47	127	153	155	6
115°	8	27	78	96	99	8
125°	10	14	46	59	61	8
135°	8	8	22	36	38	6
145°	11	8	10	18	20	6
155°	11	11	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°	6260.5	6260.5	6260.5	6260.5	6260.5
2.5°	6233.5	6260.5	6261.8	6299.7	6295.6
5°	6202.4	6249.7	6283.4	6338.8	6332.1
7.5°	6151.1	6225.4	6284.8	6345.6	6340.2
10°	6078.1	6179.4	6257.8	6307.8	6291.6
12.5°	5983.6	6117.3	6194.3	6205.1	6174.0
15°	5868.8	6033.6	6091.7	6045.7	5997.1
17.5°	5739.1	5932.3	5952.5	5852.6	5791.8
20°	5577.0	5797.2	5776.9	5639.2	5571.6
22.5°	5397.4	5648.6	5583.8	5439.3	5374.4
25°	5200.2	5478.4	5385.2	5283.9	5289.3
27.5°	4969.2	5285.3	5194.8	5240.7	5327.2
30°	4734.2	5082.7	5027.3	5294.7	5464.9
32.5°	4476.2	4874.7	4924.6	5452.8	5731.0
35°	4220.9	4666.7	4900.3	5714.8	6080.8
37.5°	3938.6	4456.0	4939.5	6017.4	6401.0
40°	3664.4	4250.6	5028.7	6288.9	6613.0
42.5°	3384.9	4067.0	5178.6	6449.6	6702.2
45°	3108.0	3910.3	5344.7	6471.2	6606.3
47.5°	2831.1	3777.9	5459.5	6299.7	6237.5
50°	2563.6	3660.4	5467.6	5887.7	5633.8
52.5°	2313.7	3552.3	5319.1	5231.3	4836.9
55°	2069.3	3425.4	4977.3	4364.1	3879.2
57.5°	1846.4	3249.8	4450.6	3432.1	2902.7
60°	1610.0	3012.1	3769.8	2510.9	2093.6
62.5°	1392.6	2716.3	3006.7	1747.8	1504.7
65°	1187.3	2373.2	2278.6	1267.0	1090.0
67.5°	969.8	2017.9	1681.6	923.9	810.4
70°	799.6	1688.4	1252.1	718.6	652.4
72.5°	625.4	1375.0	936.0	583.5	547.0
75°	478.1	1110.3	732.1	501.1	475.4
77.5°	352.5	878.0	588.9	443.0	418.7
80°	247.2	691.6	493.0	395.8	386.3
82.5°	166.1	534.9	420.1	376.8	378.2
85°	101.3	395.8	372.8	364.7	368.7
87.5°	48.6	280.9	320.1	332.3	336.3
90°	1.4	143.2	245.8	280.9	287.7
92.5°	0.0	109.4	216.1	251.2	258.0
95°	2.7	83.7	195.9	229.6	236.4
97.5°	2.7	68.9	175.6	210.7	214.8
100°	4.1	59.4	156.7	190.4	194.5
102.5°	4.1	52.7	140.5	170.2	172.9
105°	5.4	47.3	127.0	152.6	155.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	32.4	89.1	108.1	110.8
115°	8.1	27.0	78.3	95.9	98.6
117.5°	9.5	24.3	68.9	85.1	86.4
120°	9.5	20.3	59.4	75.6	77.0
122.5°	9.5	16.2	52.7	67.5	68.9
125°	9.5	13.5	45.9	59.4	60.8
127.5°	8.1	9.5	39.2	52.7	54.0
130°	8.1	8.1	32.4	45.9	48.6
132.5°	8.1	8.1	27.0	40.5	43.2
135°	8.1	8.1	21.6	36.5	37.8
137.5°	8.1	8.1	17.6	31.1	33.8
140°	8.1	8.1	13.5	27.0	28.4
142.5°	9.5	8.1	12.2	23.0	24.3
145°	10.8	8.1	9.5	17.6	20.3
147.5°	10.8	9.5	9.5	14.9	16.2
150°	10.8	10.8	8.1	10.8	13.5
152.5°	10.8	10.8	8.1	8.1	10.8
155°	10.8	10.8	8.1	8.1	8.1
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°	6.8	41.9	113.5	136.4	<i>139.1</i>
110°	6.8	36.5	100.0	121.6	<i>124.3</i>



(END OF REPORT)