

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: P829876

Luminaire Tested: **OHBL-18HE-A-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L735-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

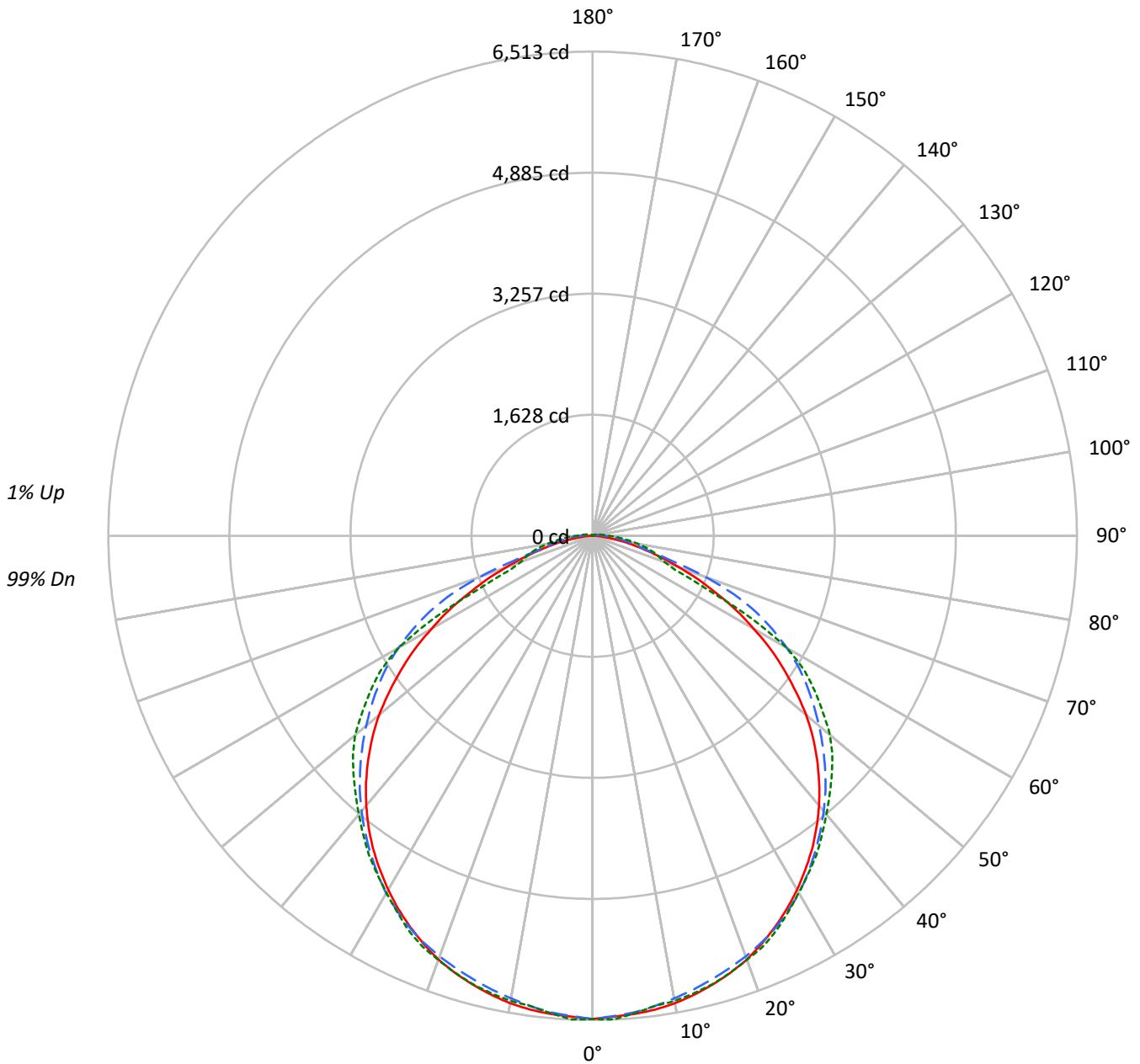
Lumens per Lamp: N/A
Luminaire Lumens: 18372.0 lumens
Efficiency: N/A
Efficacy: 178.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11102	11102	11102
5°	11029	10936	10957
10°	10989	10765	10828
15°	10919	10636	10749
20°	10849	10553	10646
25°	10719	10470	10545
30°	10576	10341	10337
35°	10406	10139	10219
40°	10185	9930	10061
45°	9878	9689	9984
50°	9462	9415	9894
55°	8802	9145	9511
60°	7937	8752	8779
65°	6809	8030	5551
70°	5484	6256	4013
75°	4112	3702	4056
80°	2862	3064	3846
85°	1629	2782	3558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.9	3.3
10°-20°	1757.5	9.6
20°-30°	2684.2	14.6
30°-40°	3256.9	17.7
40°-50°	3413.5	18.6
50°-60°	3093.2	16.8
60°-70°	2073.8	11.3
70°-80°	931.2	5.1
80°-90°	337.9	1.8
90°-100°	101.7	0.6
100°-110°	48.0	0.3
110°-120°	24.1	0.1
120°-130°	13.3	0.1
130°-140°	9.1	0.0
140°-150°	6.1	0.0
150°-160°	4.6	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	5054.6	27.5
0°-40°	8311.5	45.2
0°-60°	14818.2	80.7
0°-90°	18161.3	98.9
90°-120°	173.8	0.9
90°-150°	202.3	1.1
90°-180°	211.0	1.1
0°-180°	18372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6500	6500	6500	6500	6500	
5°	6458	6480	6435	6455	6446	614
15°	6248	6224	6180	6234	6242	1764
25°	5804	5779	5820	5873	5856	2676
35°	5145	5157	5210	5265	5244	3216
45°	4270	4339	4420	4533	4547	3289
55°	3142	3293	3518	3659	3650	2805
65°	1844	2132	2421	2043	1668	1837
75°	726	1053	774	792	844	793
85°	125	240	307	371	389	153
90°	1	80	159	199	209	7
95°	1	50	109	132	136	1
105°	4	22	54	65	68	4
115°	8	11	27	35	37	7
125°	7	8	17	20	21	7
135°	8	9	10	15	16	7
145°	8	9	9	10	11	6
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6500.0	6500.0	6500.0	6500.0	6500.0
2.5°	6473.7	6501.0	6467.1	6503.8	6513.2
5°	6457.7	6480.3	6435.2	6454.9	6446.5
7.5°	6428.6	6436.1	6382.5	6398.5	6381.6
10°	6385.4	6381.6	6318.6	6349.7	6353.4
12.5°	6321.5	6310.2	6253.8	6300.8	6301.7
15°	6248.1	6223.7	6179.5	6234.1	6241.6
17.5°	6163.6	6131.6	6102.5	6173.0	6161.7
20°	6064.9	6027.3	6021.6	6098.7	6070.5
22.5°	5942.7	5913.6	5926.7	6000.0	5982.2
25°	5804.5	5779.2	5819.6	5873.1	5856.2
27.5°	5658.9	5643.8	5689.9	5731.2	5698.3
30°	5499.1	5490.6	5551.7	5585.6	5544.2
32.5°	5325.2	5328.0	5386.3	5432.4	5393.8
35°	5144.8	5157.0	5209.6	5265.1	5244.4
37.5°	4946.5	4973.7	5026.3	5089.3	5067.7
40°	4736.9	4776.3	4834.6	4910.7	4891.0
42.5°	4510.4	4560.2	4635.4	4719.9	4718.1
45°	4269.8	4339.3	4420.1	4532.9	4547.0
47.5°	4019.8	4097.8	4200.2	4350.6	4372.2
50°	3748.1	3845.9	3973.7	4154.2	4167.3
52.5°	3445.5	3579.0	3748.1	3921.1	3905.1
55°	3141.9	3293.2	3517.9	3658.9	3650.4
57.5°	2839.3	3009.4	3282.0	3382.5	3381.6
60°	2501.0	2716.2	3014.1	3090.2	3015.1
62.5°	2188.0	2419.2	2728.4	2672.9	2415.4
65°	1844.0	2132.5	2421.1	2043.2	1668.2
67.5°	1538.5	1839.3	2056.4	1399.4	1198.3
70°	1231.2	1563.0	1603.4	1038.5	1024.4
72.5°	958.7	1312.0	1106.2	889.1	934.2
75°	725.6	1052.6	774.4	792.3	844.0
77.5°	529.1	808.3	602.4	694.6	736.8
80°	363.7	572.4	491.5	583.6	612.8
82.5°	228.4	377.8	393.8	469.9	500.0
85°	125.0	239.7	307.3	371.2	389.1
87.5°	51.7	144.7	235.0	286.7	301.7
90°	0.9	79.9	158.8	199.2	208.6
92.5°	0.9	61.1	129.7	160.7	167.3
95°	0.9	49.8	109.0	132.5	136.3
97.5°	1.9	39.5	91.2	110.0	113.7
100°	2.8	32.9	76.1	92.1	94.9
102.5°	3.8	26.3	63.9	77.1	79.9
105°	3.8	21.6	53.6	64.8	67.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.6	13.2	32.0	40.4	42.3
115°	7.5	11.3	27.3	34.8	36.7
117.5°	7.5	9.4	23.5	29.1	31.0
120°	7.5	8.5	20.7	25.4	26.3
122.5°	7.5	7.5	17.9	22.6	23.5
125°	6.6	7.5	16.9	19.7	20.7
127.5°	7.5	7.5	15.0	17.9	18.8
130°	7.5	8.5	13.2	16.9	16.9
132.5°	8.5	9.4	12.2	16.0	16.0
135°	8.5	9.4	10.3	15.0	16.0
137.5°	9.4	9.4	9.4	14.1	15.0
140°	9.4	9.4	8.5	12.2	13.2
142.5°	8.5	9.4	8.5	11.3	12.2
145°	8.5	9.4	9.4	10.3	11.3
147.5°	9.4	9.4	9.4	9.4	10.3
150°	9.4	9.4	9.4	9.4	9.4
152.5°	9.4	9.4	9.4	9.4	9.4
155°	9.4	10.3	10.3	10.3	9.4
157.5°	9.4	10.3	10.3	10.3	10.3
160°	9.4	10.3	10.3	10.3	10.3
162.5°	10.3	10.3	10.3	10.3	10.3
165°	10.3	10.3	10.3	10.3	10.3
167.5°	10.3	11.3	10.3	10.3	10.3
170°	10.3	10.3	10.3	9.4	9.4
172.5°	10.3	10.3	10.3	9.4	9.4
175°	10.3	10.3	9.4	8.5	8.5
177.5°	11.3	10.3	9.4	8.5	7.5
180°	9.4	9.4	9.4	9.4	9.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.7	17.9	46.1	55.5	57.3
110°	5.6	15.0	38.5	47.0	48.9



(END OF REPORT)