

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: P829878

Luminaire Tested: **OHBL-18HE-A-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829878
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-L750-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

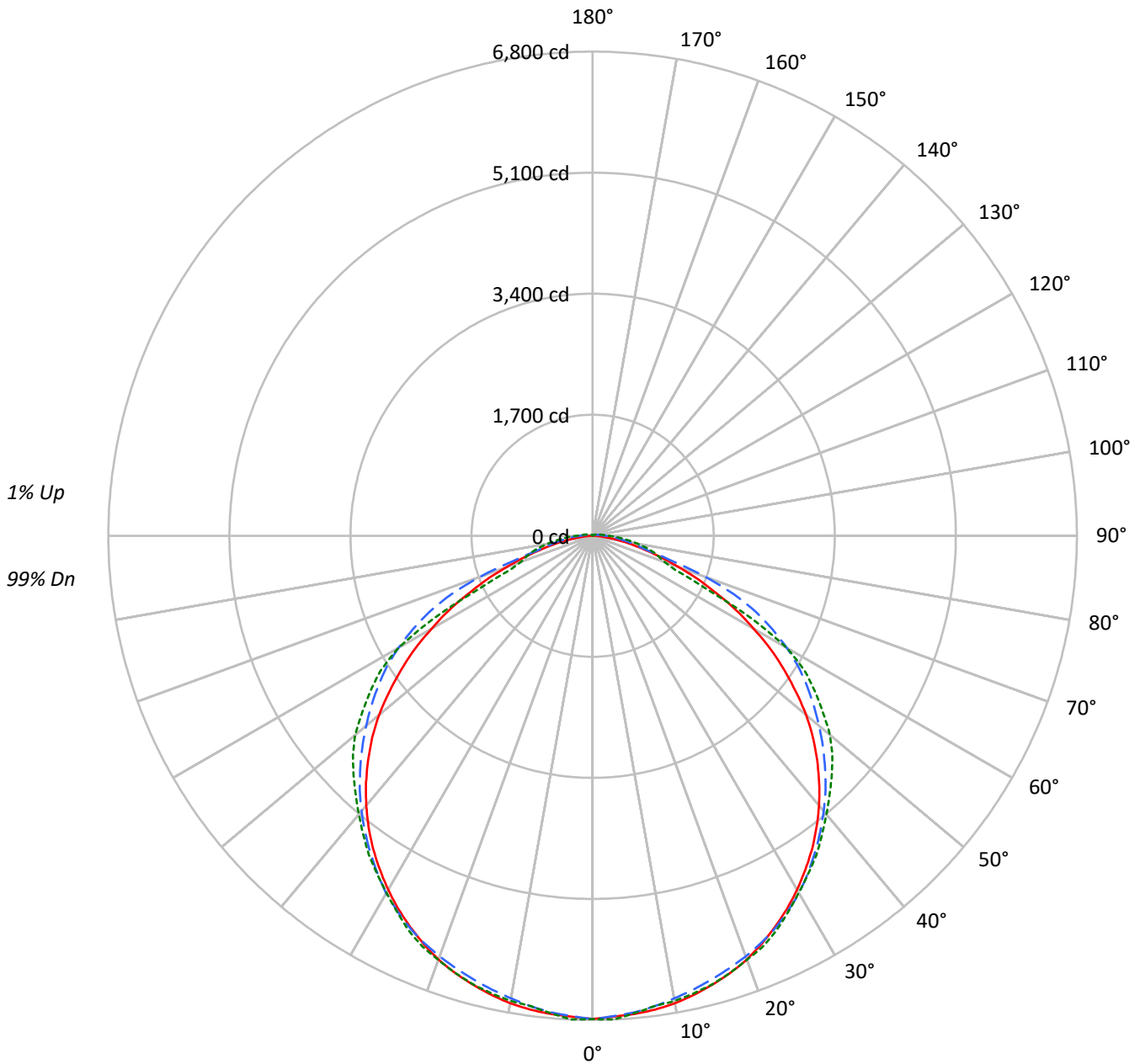
Lumens per Lamp: N/A
Luminaire Lumens: 19182.0 lumens
Efficiency: N/A
Efficacy: 186.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	11591	11591	11591
5°	11516	11418	11440
10°	11473	11240	11305
15°	11401	11105	11223
20°	11328	11019	11116
25°	11191	10932	11009
30°	11042	10797	10793
35°	10865	10586	10670
40°	10634	10368	10504
45°	10313	10117	10425
50°	9879	9831	10330
55°	9190	9548	9931
60°	8287	9137	9166
65°	7109	8384	5796
70°	5726	6532	4190
75°	4293	3866	4235
80°	2988	3199	4015
85°	1701	2905	3715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.9	3.3
10°-20°	1835.0	9.6
20°-30°	2802.6	14.6
30°-40°	3400.5	17.7
40°-50°	3564.0	18.6
50°-60°	3229.6	16.8
60°-70°	2165.3	11.3
70°-80°	972.3	5.1
80°-90°	352.8	1.8
90°-100°	106.2	0.6
100°-110°	50.1	0.3
110°-120°	25.1	0.1
120°-130°	13.9	0.1
130°-140°	9.5	0.0
140°-150°	6.4	0.0
150°-160°	4.8	0.0
160°-170°	3.1	0.0
170°-180°	1.0	0.0
0°-30°	5277.5	27.5
0°-40°	8678.0	45.2
0°-60°	15471.5	80.7
0°-90°	18962.0	98.9
90°-120°	181.4	0.9
90°-150°	211.2	1.1
90°-180°	220.0	1.1
0°-180°	19182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6787	6787	6787	6787	6787	
5°	6742	6766	6719	6740	6731	641
15°	6524	6498	6452	6509	6517	1842
25°	6060	6034	6076	6132	6114	2794
35°	5372	5384	5439	5497	5476	3357
45°	4458	4531	4615	4733	4748	3434
55°	3280	3438	3673	3820	3811	2928
65°	1925	2226	2528	2133	1742	1918
75°	758	1099	809	827	881	828
85°	130	250	321	388	406	159
90°	1	83	166	208	218	8
95°	1	52	114	138	142	1
105°	4	23	56	68	71	5
115°	8	12	28	36	38	7
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6786.6	6786.6	6786.6	6786.6	6786.6
2.5°	6759.1	6787.6	6752.3	6790.5	6800.3
5°	6742.4	6766.0	6718.9	6739.5	6730.7
7.5°	6712.0	6719.9	6663.9	6680.6	6663.0
10°	6666.9	6663.0	6597.2	6629.6	6633.5
12.5°	6600.2	6588.4	6529.5	6578.6	6579.6
15°	6523.6	6498.1	6452.0	6508.9	6516.8
17.5°	6435.3	6401.9	6371.5	6445.1	6433.3
20°	6332.3	6293.0	6287.1	6367.6	6338.2
22.5°	6204.7	6174.3	6188.0	6264.6	6245.9
25°	6060.5	6034.0	6076.2	6132.1	6114.4
27.5°	5908.4	5892.7	5940.7	5983.9	5949.6
30°	5741.5	5732.7	5796.5	5831.8	5788.6
32.5°	5560.0	5562.9	5623.8	5671.9	5631.6
35°	5371.6	5384.3	5439.3	5497.2	5475.6
37.5°	5164.5	5193.0	5247.9	5313.7	5291.1
40°	4945.7	4986.9	5047.8	5127.2	5106.6
42.5°	4709.2	4761.2	4839.7	4928.0	4926.1
45°	4458.0	4530.6	4615.0	4732.8	4747.5
47.5°	4197.0	4278.4	4385.4	4542.4	4565.0
50°	3913.4	4015.4	4148.9	4337.3	4351.0
52.5°	3597.4	3736.8	3913.4	4093.9	4077.3
55°	3280.5	3438.4	3673.0	3820.2	3811.3
57.5°	2964.5	3142.1	3426.7	3531.7	3530.7
60°	2611.2	2835.9	3147.0	3226.5	3148.0
62.5°	2284.4	2525.8	2848.7	2790.8	2521.9
65°	1925.3	2226.5	2527.8	2133.3	1741.8
67.5°	1606.4	1920.4	2147.1	1461.1	1251.1
70°	1285.5	1631.9	1674.1	1084.3	1069.6
72.5°	1000.9	1369.9	1155.0	928.3	975.4
75°	757.6	1099.0	808.6	827.2	881.2
77.5°	552.5	843.9	629.0	725.2	769.3
80°	379.8	597.6	513.2	609.4	639.8
82.5°	238.5	394.5	411.2	490.6	522.0
85°	130.5	250.2	320.9	387.6	406.3
87.5°	54.0	151.1	245.3	299.3	315.0
90°	1.0	83.4	165.8	208.0	217.8
92.5°	1.0	63.8	135.4	167.8	174.7
95°	1.0	52.0	113.8	138.4	142.3
97.5°	2.0	41.2	95.2	114.8	118.7
100°	2.9	34.3	79.5	96.2	99.1
102.5°	3.9	27.5	66.7	80.5	83.4
105°	3.9	22.6	55.9	67.7	70.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.9	13.7	33.4	42.2	44.2
115°	7.9	11.8	28.5	36.3	38.3
117.5°	7.9	9.8	24.5	30.4	32.4
120°	7.9	8.8	21.6	26.5	27.5
122.5°	7.9	7.9	18.6	23.6	24.5
125°	6.9	7.9	17.7	20.6	21.6
127.5°	7.9	7.9	15.7	18.6	19.6
130°	7.9	8.8	13.7	17.7	17.7
132.5°	8.8	9.8	12.8	16.7	16.7
135°	8.8	9.8	10.8	15.7	16.7
137.5°	9.8	9.8	9.8	14.7	15.7
140°	9.8	9.8	8.8	12.8	13.7
142.5°	8.8	9.8	8.8	11.8	12.8
145°	8.8	9.8	9.8	10.8	11.8
147.5°	9.8	9.8	9.8	9.8	10.8
150°	9.8	9.8	9.8	9.8	9.8
152.5°	9.8	9.8	9.8	9.8	9.8
155°	9.8	10.8	10.8	10.8	9.8
157.5°	9.8	10.8	10.8	10.8	10.8
160°	9.8	10.8	10.8	10.8	10.8
162.5°	10.8	10.8	10.8	10.8	10.8
165°	10.8	10.8	10.8	10.8	10.8
167.5°	10.8	11.8	10.8	10.8	10.8
170°	10.8	10.8	10.8	9.8	9.8
172.5°	10.8	10.8	10.8	9.8	9.8
175°	10.8	10.8	9.8	8.8	8.8
177.5°	11.8	10.8	9.8	8.8	7.9
180°	9.8	9.8	9.8	9.8	9.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.9	18.6	48.1	57.9	59.9
110°	5.9	15.7	40.2	49.1	51.0



(END OF REPORT)