

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: P829881

Luminaire Tested: **OHBL-18HE-A-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829881
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-L840-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

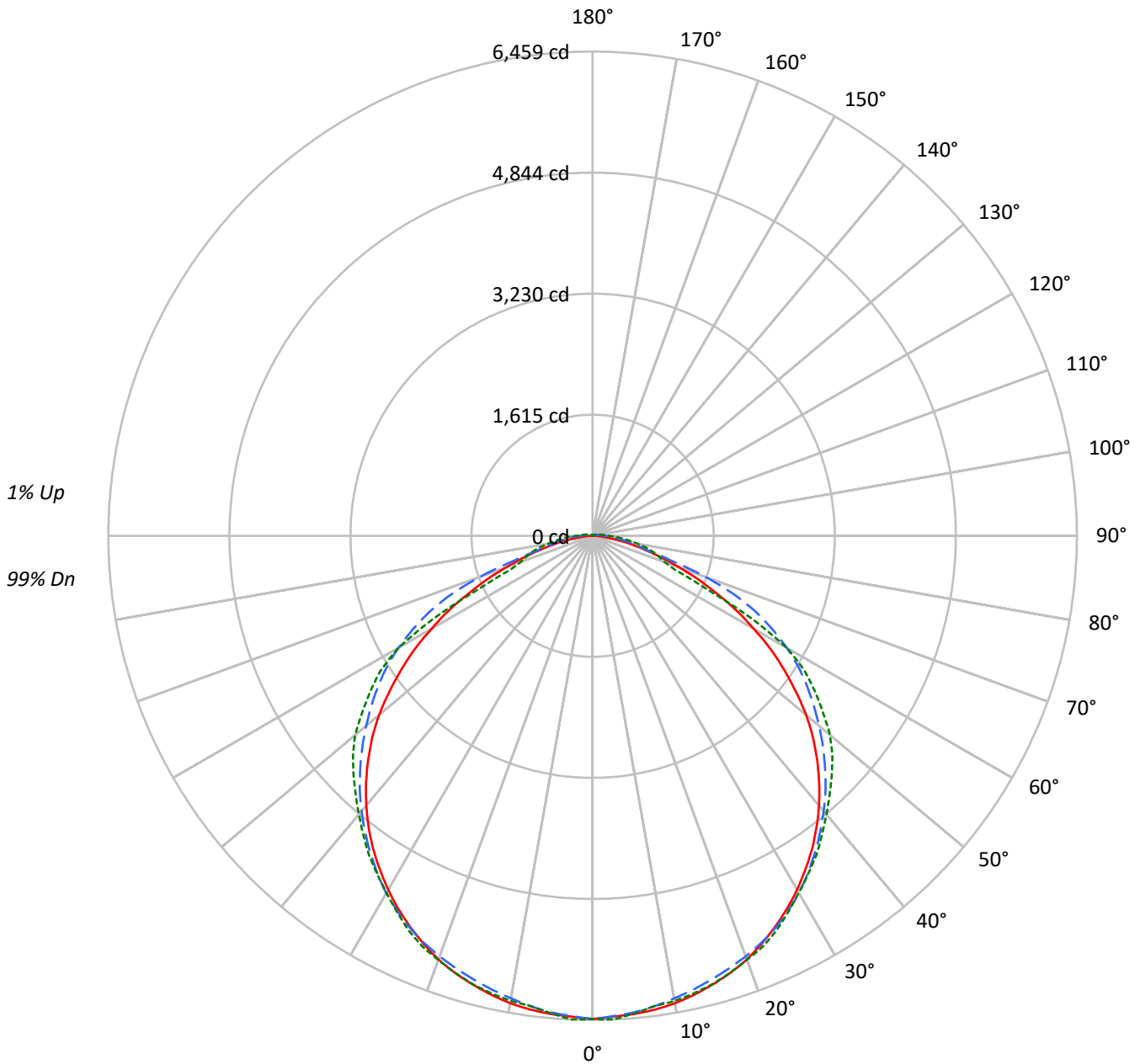
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18220.0 lumens
Efficiency: N/A
Efficacy: 176.9 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 (Ain): 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	106	106	106	101	101	101	99				99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83				83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70				70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59				59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51				51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30				30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11010	11010	11010
5°	10938	10845	10866
10°	10898	10676	10738
15°	10829	10548	10660
20°	10760	10466	10558
25°	10630	10383	10457
30°	10489	10255	10252
35°	10320	10055	10135
40°	10100	9848	9977
45°	9796	9609	9902
50°	9384	9337	9812
55°	8729	9069	9433
60°	7872	8679	8706
65°	6752	7963	5505
70°	5439	6204	3980
75°	4078	3672	4022
80°	2838	3039	3814
85°	1616	2759	3529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.8	3.3
10°-20°	1742.9	9.6
20°-30°	2662.0	14.6
30°-40°	3230.0	17.7
40°-50°	3385.3	18.6
50°-60°	3067.6	16.8
60°-70°	2056.7	11.3
70°-80°	923.5	5.1
80°-90°	335.1	1.8
90°-100°	100.9	0.6
100°-110°	47.6	0.3
110°-120°	23.9	0.1
120°-130°	13.2	0.1
130°-140°	9.0	0.0
140°-150°	6.1	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	5012.8	27.5
0°-40°	8242.7	45.2
0°-60°	14695.6	80.7
0°-90°	18011.0	98.9
90°-120°	172.3	0.9
90°-150°	200.6	1.1
90°-180°	209.0	1.1
0°-180°	18220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6446	6446	6446	6446	6446	
5°	6404	6427	6382	6402	6393	609
15°	6196	6172	6128	6182	6190	1750
25°	5756	5731	5771	5825	5808	2653
35°	5102	5114	5166	5222	5201	3189
45°	4234	4303	4384	4495	4509	3262
55°	3116	3266	3489	3629	3620	2781
65°	1829	2115	2401	2026	1654	1822
75°	720	1044	768	786	837	786
85°	124	238	305	368	386	151
90°	1	79	158	198	207	7
95°	1	49	108	131	135	1
105°	4	21	53	64	67	4
115°	8	11	27	34	36	7
125°	6	8	17	20	20	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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CATALOG NUMBER: OHBL-18HE-A-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6446.3	6446.3	6446.3	6446.3	6446.3
2.5°	6420.2	6447.2	6413.6	6450.0	6459.3
5°	6404.3	6426.7	6381.9	6401.5	6393.1
7.5°	6375.4	6382.9	6329.7	6345.6	6328.8
10°	6332.5	6328.8	6266.4	6297.1	6300.8
12.5°	6269.2	6258.0	6202.0	6248.7	6249.6
15°	6196.5	6172.2	6128.4	6182.5	6189.9
17.5°	6112.6	6080.9	6052.0	6121.9	6110.7
20°	6014.7	5977.4	5971.8	6048.3	6020.3
22.5°	5893.5	5864.6	5877.7	5950.4	5932.7
25°	5756.5	5731.3	5771.4	5824.6	5807.8
27.5°	5612.0	5597.1	5642.8	5683.8	5651.2
30°	5453.6	5445.2	5505.8	5539.3	5498.3
32.5°	5281.2	5284.0	5341.7	5387.4	5349.2
35°	5102.2	5114.3	5166.5	5221.5	5201.0
37.5°	4905.5	4932.6	4984.8	5047.2	5025.8
40°	4697.7	4736.8	4794.6	4870.1	4850.5
42.5°	4473.0	4522.4	4597.0	4680.9	4679.0
45°	4234.4	4303.4	4383.6	4495.4	4509.4
47.5°	3986.5	4063.9	4165.5	4314.6	4336.0
50°	3717.1	3814.1	3940.8	4119.8	4132.8
52.5°	3417.0	3549.4	3717.1	3888.6	3872.8
55°	3115.9	3266.0	3488.8	3628.6	3620.2
57.5°	2815.8	2984.5	3254.8	3354.5	3353.6
60°	2480.3	2693.7	2989.2	3064.7	2990.1
62.5°	2169.9	2399.2	2705.8	2650.8	2395.4
65°	1828.7	2114.9	2401.0	2026.3	1654.4
67.5°	1525.8	1824.1	2039.4	1387.9	1188.4
70°	1221.0	1550.0	1590.1	1029.9	1016.0
72.5°	950.7	1301.2	1097.1	881.7	926.5
75°	719.6	1043.9	768.0	785.7	837.0
77.5°	524.8	801.6	597.5	688.8	730.7
80°	360.7	567.6	487.5	578.8	607.7
82.5°	226.5	374.7	390.5	466.0	495.9
85°	124.0	237.7	304.8	368.2	385.9
87.5°	51.3	143.5	233.0	284.3	299.2
90°	0.9	79.2	157.5	197.6	206.9
92.5°	0.9	60.6	128.6	159.4	165.9
95°	0.9	49.4	108.1	131.4	135.2
97.5°	1.9	39.1	90.4	109.1	112.8
100°	2.8	32.6	75.5	91.3	94.1
102.5°	3.7	26.1	63.4	76.4	79.2
105°	3.7	21.4	53.1	64.3	67.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	13.0	31.7	40.1	41.9
115°	7.5	11.2	27.0	34.5	36.4
117.5°	7.5	9.3	23.3	28.9	30.8
120°	7.5	8.4	20.5	25.2	26.1
122.5°	7.5	7.5	17.7	22.4	23.3
125°	6.5	7.5	16.8	19.6	20.5
127.5°	7.5	7.5	14.9	17.7	18.6
130°	7.5	8.4	13.0	16.8	16.8
132.5°	8.4	9.3	12.1	15.8	15.8
135°	8.4	9.3	10.3	14.9	15.8
137.5°	9.3	9.3	9.3	14.0	14.9
140°	9.3	9.3	8.4	12.1	13.0
142.5°	8.4	9.3	8.4	11.2	12.1
145°	8.4	9.3	9.3	10.3	11.2
147.5°	9.3	9.3	9.3	9.3	10.3
150°	9.3	9.3	9.3	9.3	9.3
152.5°	9.3	9.3	9.3	9.3	9.3
155°	9.3	10.3	10.3	10.3	9.3
157.5°	9.3	10.3	10.3	10.3	10.3
160°	9.3	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	11.2	10.3	10.3	10.3
170°	10.3	10.3	10.3	9.3	9.3
172.5°	10.3	10.3	10.3	9.3	9.3
175°	10.3	10.3	9.3	8.4	8.4
177.5°	11.2	10.3	9.3	8.4	7.5
180°	9.3	9.3	9.3	9.3	9.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.7	17.7	45.7	55.0	56.9
110°	5.6	14.9	38.2	46.6	48.5



(END OF REPORT)