

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: P829917

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-N-UNV-L840-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

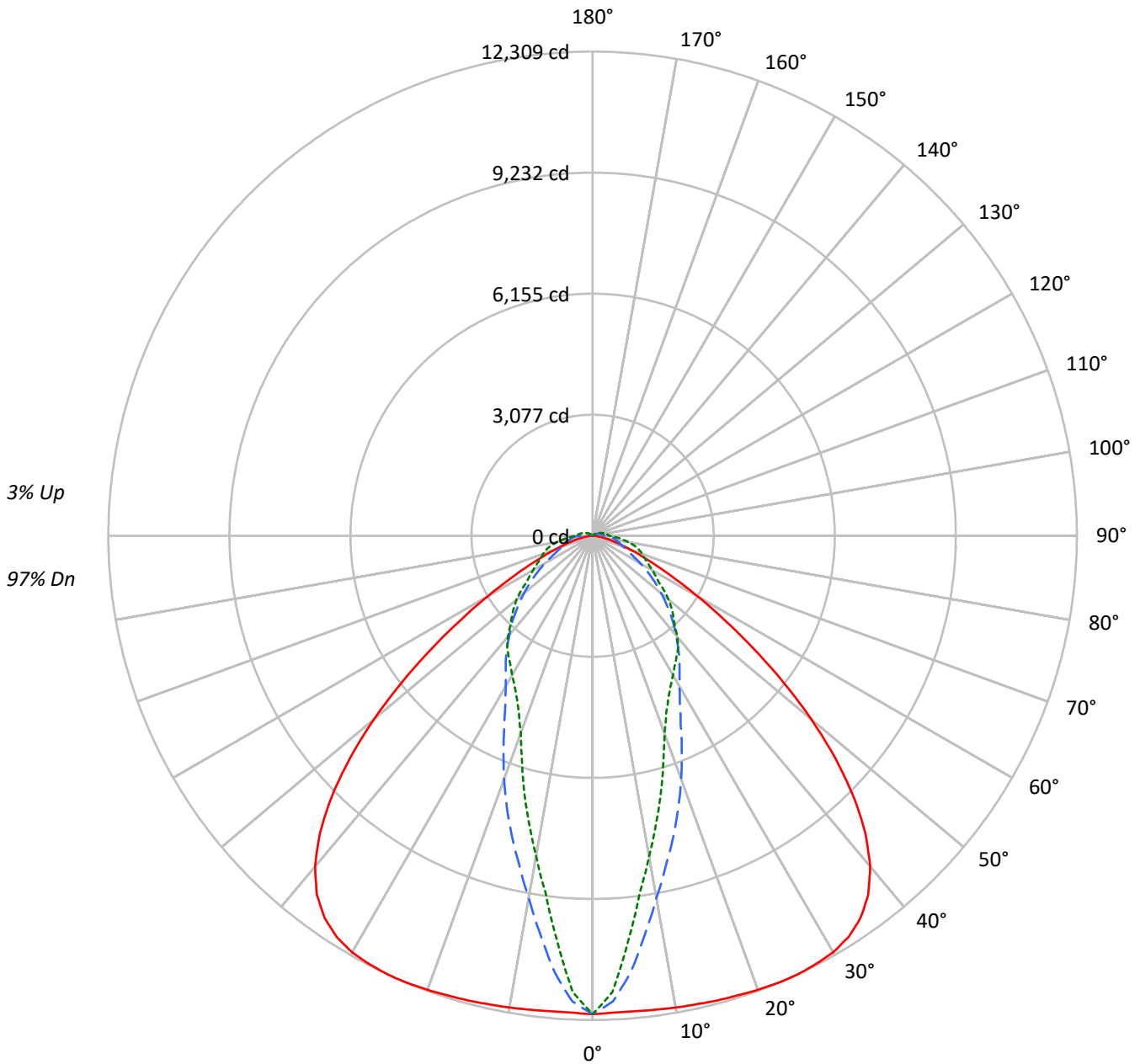
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17947.0 lumens
Efficiency: N/A
Efficacy: 174.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20769	20769	20769
5°	20727	18914	17585
10°	20961	15932	14101
15°	21370	13626	11573
20°	21971	11521	9361
25°	22730	9536	8202
30°	23516	8215	7619
35°	24005	7487	7259
40°	23595	6763	6887
45°	21706	6112	6376
50°	18313	5399	5985
55°	13915	4729	5325
60°	9752	4056	5098
65°	6559	3493	4991
70°	4480	3278	5236
75°	3109	3381	5595
80°	2140	3745	5760
85°	1252	4683	6042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.6	5.7
10°-20°	2408.0	13.4
20°-30°	3018.4	16.8
30°-40°	3202.9	17.8
40°-50°	2895.9	16.1
50°-60°	2099.7	11.7
60°-70°	1317.7	7.3
70°-80°	872.0	4.9
80°-90°	502.4	2.8
90°-100°	243.4	1.4
100°-110°	168.0	0.9
110°-120°	103.7	0.6
120°-130°	50.2	0.3
130°-140°	23.1	0.1
140°-150°	12.6	0.1
150°-160°	5.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6450.0	35.9
0°-40°	9652.9	53.8
0°-60°	14648.5	81.6
0°-90°	17340.6	96.6
90°-120°	515.0	2.9
90°-150°	600.9	3.3
90°-180°	606.0	3.4
0°-180°	17947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12160	12160	12160	12160	12160	
5°	12136	11824	11130	10614	10346	###
15°	12228	9967	7916	7040	6721	3468
25°	12309	7707	5301	4704	4555	5687
35°	11868	5124	3847	3727	3725	7378
45°	9382	3245	2788	2855	2904	7148
55°	4967	2011	1819	1973	2044	4488
65°	1776	1167	1053	1349	1500	1849
75°	549	628	707	1098	1164	612
85°	96	260	517	720	661	115
90°	0	109	300	422	426	6
95°	5	76	264	359	375	4
105°	9	51	192	255	262	9
115°	13	36	130	162	166	12
125°	14	18	66	83	82	12
135°	12	14	29	45	45	9
145°	14	15	17	27	26	8
155°	14	17	18	20	17	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829917

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12160.0	12160.0	12160.0	12160.0	12160.0
2.5°	12134.6	12065.1	11848.7	11716.8	11605.7
5°	12135.7	11824.4	11130.0	10613.9	10346.5
7.5°	12153.1	11461.0	10210.0	9456.5	9162.6
10°	12179.7	11010.8	9351.2	8548.0	8273.7
12.5°	12199.4	10503.9	8595.5	7770.3	7469.4
15°	12228.3	9966.9	7916.1	7040.0	6720.6
17.5°	12255.0	9461.2	7244.9	6329.4	5974.1
20°	12281.6	8916.1	6573.6	5630.4	5337.6
22.5°	12307.0	8340.9	5918.6	5087.6	4887.4
25°	12309.3	7706.6	5300.6	4704.5	4555.2
27.5°	12279.3	7049.3	4799.4	4384.0	4291.4
30°	12227.2	6411.6	4410.6	4152.5	4086.5
32.5°	12097.6	5761.2	4109.7	3929.1	3890.9
35°	11868.4	5123.5	3847.0	3726.6	3725.4
37.5°	11507.3	4557.6	3562.3	3541.4	3566.9
40°	10973.8	4062.2	3292.6	3348.2	3348.2
42.5°	10262.0	3631.7	3048.4	3105.1	3090.1
45°	9382.5	3245.1	2788.0	2855.1	2903.7
47.5°	8362.9	2904.9	2521.8	2651.4	2718.6
50°	7254.1	2580.8	2278.8	2444.3	2520.7
52.5°	6092.2	2281.1	2041.5	2231.3	2292.7
55°	4967.3	2011.4	1819.3	1973.2	2043.8
57.5°	3948.8	1754.5	1601.7	1747.6	1893.4
60°	3072.7	1533.5	1396.9	1605.2	1751.0
62.5°	2347.1	1336.7	1204.8	1472.1	1617.9
65°	1776.5	1166.6	1053.2	1349.4	1499.9
67.5°	1339.0	1019.6	935.1	1260.3	1407.3
70°	1005.7	877.3	840.2	1204.8	1336.7
72.5°	743.0	746.5	765.0	1156.2	1256.9
75°	548.6	628.4	707.1	1098.3	1164.3
77.5°	392.3	520.8	655.0	1028.9	1052.0
80°	272.0	424.7	600.7	937.4	917.8
82.5°	170.1	340.3	552.0	836.7	782.4
85°	96.1	260.4	517.3	719.9	660.8
87.5°	42.8	194.4	452.5	561.3	524.3
90°	0.0	108.8	299.7	422.4	425.9
92.5°	2.3	90.3	276.6	386.5	398.1
95°	4.6	76.4	263.9	358.8	375.0
97.5°	5.8	67.1	247.7	333.3	347.2
100°	6.9	60.2	228.0	306.7	318.3
102.5°	8.1	55.6	209.5	278.9	288.2
105°	9.3	50.9	192.1	254.6	261.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	39.3	144.7	182.9	188.6
115°	12.7	35.9	129.6	162.0	165.5
117.5°	13.9	31.2	113.4	142.4	143.5
120°	13.9	27.8	97.2	121.5	121.5
122.5°	13.9	23.1	81.0	100.7	99.5
125°	13.9	18.5	66.0	83.3	82.2
127.5°	12.7	15.0	53.2	69.4	68.3
130°	12.7	15.0	42.8	59.0	59.0
132.5°	11.6	13.9	34.7	50.9	50.9
135°	11.6	13.9	28.9	45.1	45.1
137.5°	11.6	15.0	24.3	39.3	39.3
140°	11.6	13.9	20.8	34.7	34.7
142.5°	12.7	13.9	18.5	30.1	30.1
145°	13.9	15.0	17.4	26.6	25.5
147.5°	13.9	16.2	17.4	23.1	22.0
150°	13.9	17.4	17.4	20.8	19.7
152.5°	13.9	17.4	17.4	19.7	18.5
155°	13.9	17.4	18.5	19.7	17.4
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°	9.3	47.5	175.9	228.0	236.1
110°	10.4	42.8	160.9	203.7	211.8



(END OF REPORT)