

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: P827101

Luminaire Tested: **OHBL-18HE-N-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827101
REPORT IS A COMBINATION OF REPORTS P826158 AND G3-2310-221-8
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-UPL18
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

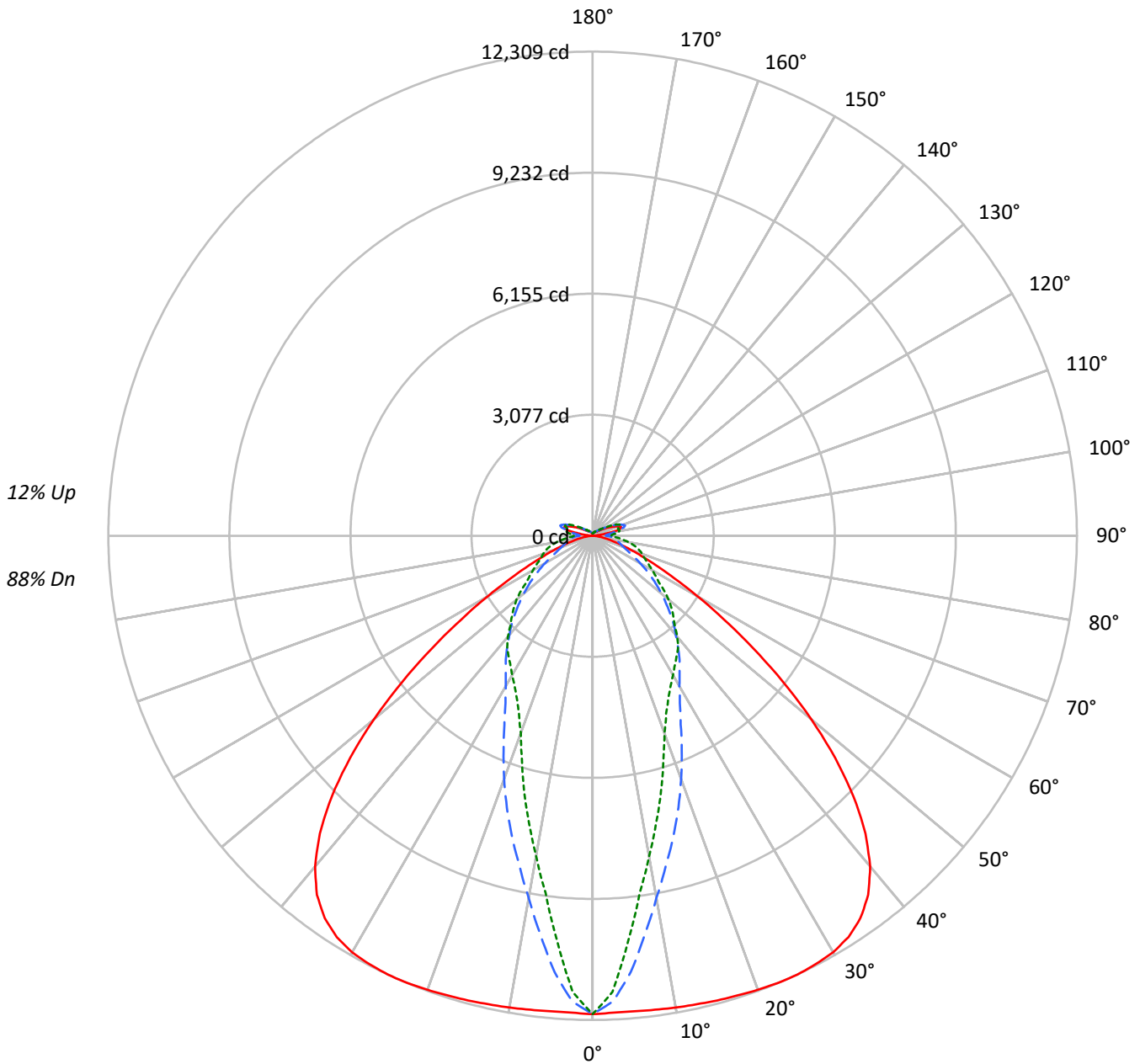
Lumens per Lamp: N/A
Luminaire Lumens: 19736.9 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 115.3
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	65																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	55	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	49	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	39	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20769	20769	20769
5°	20626	18914	17671
10°	20758	15932	14239
15°	21058	13626	11745
20°	21539	11521	9548
25°	22164	9536	8412
30°	22798	8215	7859
35°	23127	7487	7535
40°	22573	6763	7199
45°	20602	6112	6718
50°	17222	5399	6364
55°	12943	4729	5726
60°	8946	4056	5557
65°	5912	3493	5538
70°	3940	3278	5954
75°	2636	3381	6598
80°	1707	3745	7222
85°	879	4683	8611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.6	5.2
10°-20°	2408.0	12.2
20°-30°	3018.4	15.3
30°-40°	3202.9	16.2
40°-50°	2895.9	14.7
50°-60°	2099.7	10.6
60°-70°	1317.7	6.7
70°-80°	872.0	4.4
80°-90°	506.8	2.6
90°-100°	414.6	2.1
100°-110°	762.6	3.9
110°-120°	614.5	3.1
120°-130°	295.5	1.5
130°-140°	145.6	0.7
140°-150°	83.8	0.4
150°-160°	47.0	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	6450.0	32.7
0°-40°	9652.9	48.9
0°-60°	14648.5	74.2
0°-90°	17345.1	87.9
90°-120°	1791.8	9.1
90°-150°	2316.7	11.7
90°-180°	2392.0	12.1
0°-180°	19736.9	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°	4	134	334	467	476	9
95°	43	158	393	526	566	124
105°	750	785	818	696	669	712
115°	526	555	648	674	676	530
125°	264	280	335	351	348	247
135°	160	165	185	203	204	126
145°	122	125	130	141	140	77
155°	100	105	108	110	107	45
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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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°	4.0	133.8	333.7	467.4	475.9
92.5°	15.3	123.3	331.6	462.5	482.1
95°	42.6	158.4	392.9	525.8	566.0
97.5°	200.8	280.1	485.7	615.3	645.2
100°	408.9	482.2	582.0	677.7	695.3
102.5°	637.1	683.6	663.5	688.9	692.2
105°	750.3	784.9	818.1	695.6	668.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	613.6	645.3	738.7	760.9	741.6
115°	525.7	554.9	647.6	674.0	676.5
117.5°	450.9	471.2	555.4	582.4	584.5
120°	378.9	399.8	473.2	494.5	492.5
122.5°	318.9	337.1	400.0	416.7	413.5
125°	263.9	280.5	335.0	351.3	348.2
127.5°	224.7	236.0	283.2	298.4	295.3
130°	196.7	206.0	239.8	257.0	258.0
132.5°	176.6	181.9	208.7	225.9	227.9
135°	159.6	164.9	184.9	203.1	204.1
137.5°	146.6	153.0	166.3	183.3	184.3
140°	135.6	140.9	150.8	166.7	167.7
142.5°	127.7	131.9	139.5	152.1	153.1
145°	121.9	125.0	130.4	140.6	139.5
147.5°	114.9	119.2	122.4	130.1	129.0
150°	108.9	114.4	116.4	120.8	120.7
152.5°	104.9	109.4	111.4	114.7	113.5
155°	99.9	105.4	107.5	109.7	107.4
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	757.3	795.5	865.9	764.0	685.1
110°	695.4	735.8	823.9	806.7	745.8



(END OF REPORT)