

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: P827100

Luminaire Tested: **OHBL-18HE-N-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827100
REPORT IS A COMBINATION OF REPORTS P826062 AND G3-2310-221-12
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-UPL12
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

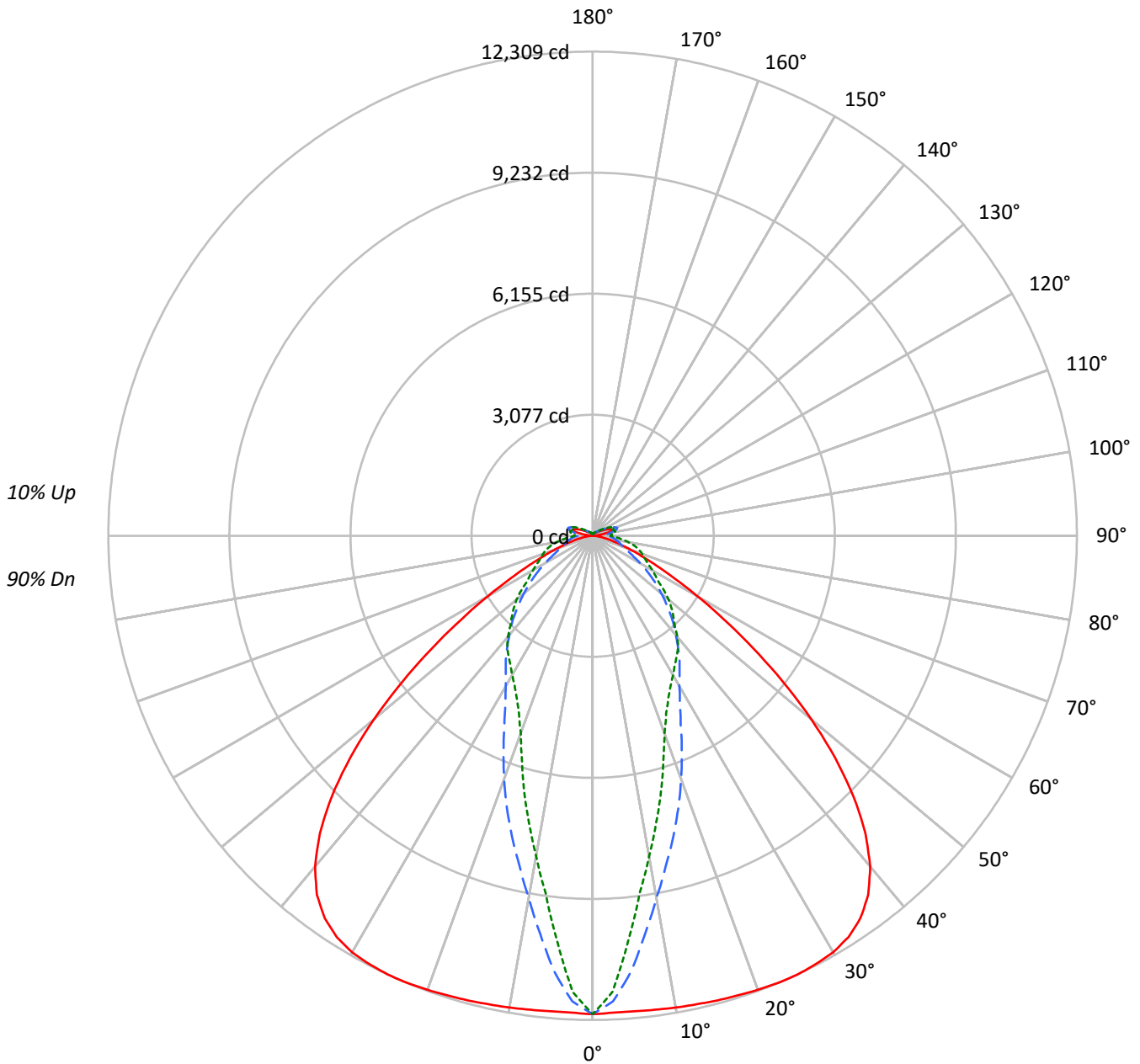
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19192.3 lumens
Efficiency: N/A
Efficacy: 172.3 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: Direct

Input Watts (W): 111.4
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

TEST NUMBER: P827100
CATALOG NUMBER: OHBL-18HE-N-UNV-L840-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827100

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	84	79	75	79	75	72	75	72	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	57	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	62	55	50	59	53	49	56	51	47	45																			
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	47	41	52	45	40	50	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

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	5.3
10°-20°	2408.0	12.5
20°-30°	3018.4	15.7
30°-40°	3202.9	16.7
40°-50°	2895.9	15.1
50°-60°	2099.7	10.9
60°-70°	1317.7	6.9
70°-80°	872.0	4.5
80°-90°	505.5	2.6
90°-100°	362.4	1.9
100°-110°	581.9	3.0
110°-120°	459.2	2.4
120°-130°	220.6	1.1
130°-140°	108.3	0.6
140°-150°	62.2	0.3
150°-160°	34.4	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
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0°-30°	6450.0	33.6
0°-40°	9652.9	50.3
0°-60°	14648.5	76.3
0°-90°	17343.7	90.4
90°-120°	1403.5	7.3
90°-150°	1794.6	9.4
90°-180°	1849.0	9.6
0°-180°	19192.3	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°	3	127	324	453	461	8
95°	30	134	350	475	509	86
105°	526	562	628	564	546	498
115°	373	396	491	520	518	372
125°	190	202	253	268	268	176
135°	114	119	138	155	155	90
145°	89	92	95	106	106	56
155°	74	78	80	83	80	32
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827100

CATALOG NUMBER: OHBL-18HE-N-UNV-L840-CD-UPL12

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°	3.0	126.8	323.7	453.4	460.9
92.5°	11.3	113.3	314.6	440.5	457.1
95°	29.6	134.4	349.9	474.8	509.0
97.5°	140.8	214.1	413.7	529.3	553.2
100°	282.9	357.2	475.0	564.7	581.3
102.5°	447.1	488.6	525.5	564.9	569.2
105°	526.3	561.9	628.1	563.6	545.6



TEST NUMBER: P827100

CATALOG NUMBER: OHBL-18HE-N-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	429.6	460.3	562.7	584.9	573.6
115°	372.7	395.9	490.6	520.0	517.5
117.5°	315.9	337.2	422.4	448.4	447.5
120°	266.9	286.8	358.2	378.5	378.5
122.5°	226.9	241.1	302.0	318.7	318.5
125°	189.9	201.5	253.0	268.3	268.2
127.5°	159.7	168.0	213.2	228.4	227.3
130°	140.7	147.0	179.8	197.0	197.0
132.5°	125.6	130.9	155.7	172.9	173.9
135°	113.6	118.9	137.9	155.1	155.1
137.5°	105.6	111.0	123.3	139.3	140.3
140°	97.6	102.9	111.8	126.7	126.7
142.5°	92.7	95.9	102.5	115.1	116.1
145°	88.9	92.0	95.4	105.6	105.5
147.5°	83.9	88.2	91.4	97.1	97.0
150°	80.9	85.4	86.4	90.8	89.7
152.5°	76.9	81.4	82.4	85.7	84.5
155°	73.9	78.4	80.5	82.7	80.4
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	529.3	569.5	656.9	601.0	545.1
110°	486.4	525.8	621.9	623.7	580.8



(END OF REPORT)