

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: P827103

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827103
REPORT IS A COMBINATION OF REPORTS P826063 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-NL-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

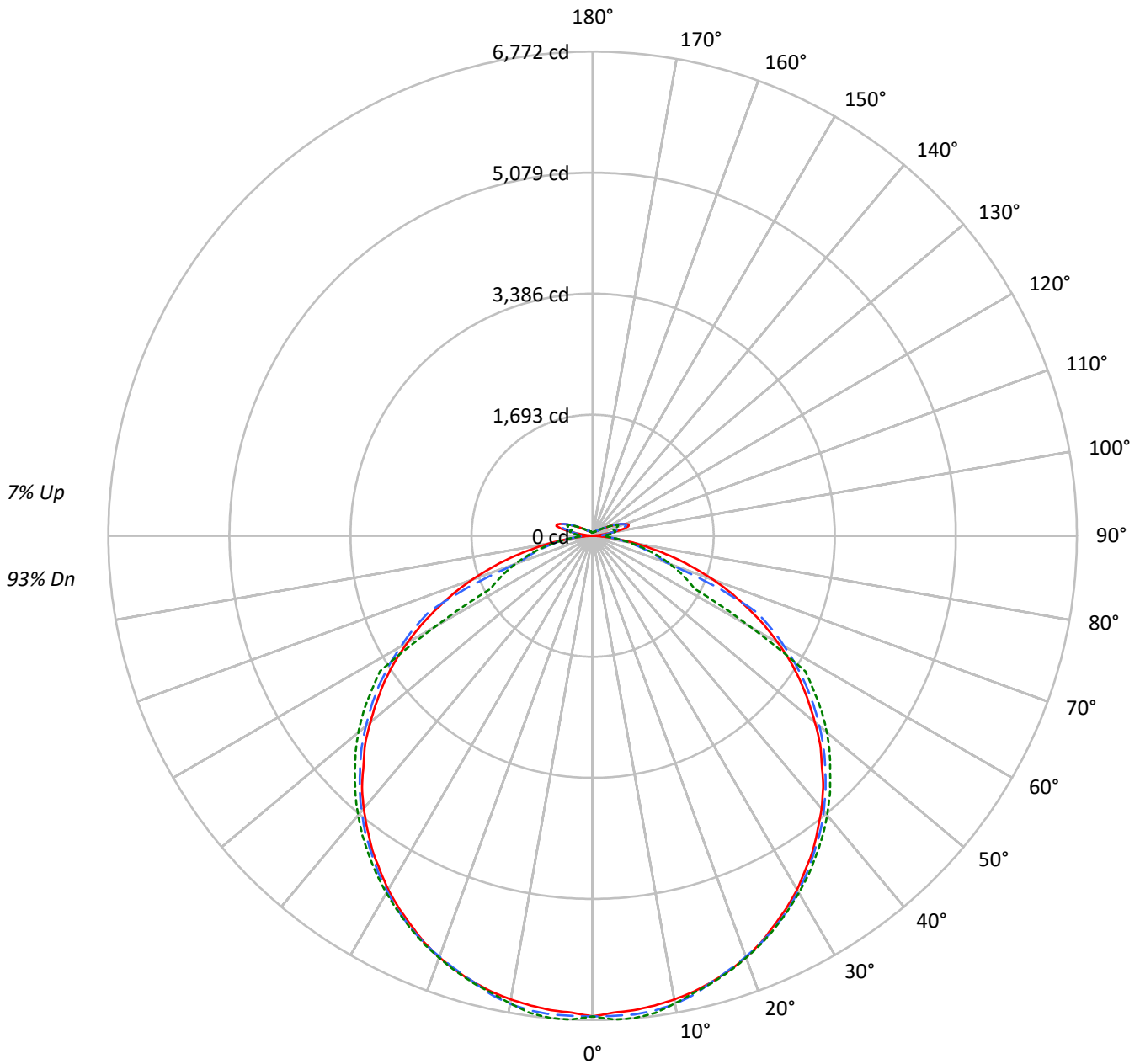
Lumens per Lamp: N/A
Luminaire Lumens: 20119.3 lumens
Efficiency: N/A
Efficacy: 180.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	53	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11482	11482	11482
5°	11359	11460	11582
10°	11302	11407	11462
15°	11239	11234	11362
20°	11160	11139	11306
25°	11018	11068	11254
30°	10896	10945	11205
35°	10749	10800	11161
40°	10572	10662	11128
45°	10324	10469	11059
50°	10059	10252	11015
55°	9738	9976	10828
60°	9257	9568	8365
65°	8566	9045	5572
70°	7676	4650	5327
75°	6373	4202	4967
80°	4475	3515	4348
85°	1796	2817	3762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	3.2
10°-20°	1828.6	9.1
20°-30°	2782.4	13.8
30°-40°	3383.1	16.8
40°-50°	3557.1	17.7
50°-60°	3248.1	16.1
60°-70°	2082.2	10.3
70°-80°	983.6	4.9
80°-90°	275.9	1.4
90°-100°	191.2	1.0
100°-110°	433.7	2.2
110°-120°	361.0	1.8
120°-130°	170.4	0.8
130°-140°	85.2	0.4
140°-150°	49.6	0.2
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	5249.7	26.1
0°-40°	8632.8	42.9
0°-60°	15438.0	76.7
0°-90°	18779.7	93.3
90°-120°	985.9	4.9
90°-150°	1291.1	6.4
90°-180°	1340.0	6.7
0°-180°	20119.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6722	6722	6722	6722	6722	
5°	6660	6686	6720	6757	6771	633
15°	6458	6506	6457	6466	6471	1823
25°	6010	6019	6041	6050	6045	2773
35°	5372	5340	5401	5467	5452	3357
45°	4531	4522	4599	4708	4699	3502
55°	3550	3523	3642	3764	3774	3166
65°	2392	2392	2531	1452	1457	2372
75°	1182	1204	782	823	827	1246
85°	154	196	244	264	250	228
90°	3	84	132	160	161	9
95°	28	92	164	221	239	84
105°	523	524	455	328	302	495
115°	366	368	373	366	353	364
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6722.4	6722.4	6722.4	6722.4	6722.4
2.5°	6675.2	6697.7	6722.4	6754.3	6771.9
5°	6659.9	6685.8	6720.1	6756.7	6770.8
7.5°	6626.9	6663.4	6696.5	6722.4	6730.7
10°	6585.6	6629.3	6648.1	6645.8	6639.9
12.5°	6530.1	6576.2	6570.3	6543.1	6547.8
15°	6458.2	6506.5	6457.1	6466.4	6471.2
17.5°	6373.3	6420.5	6362.6	6381.5	6382.7
20°	6274.2	6309.6	6264.7	6280.1	6280.1
22.5°	6155.1	6179.8	6161.0	6171.6	6173.9
25°	6010.0	6019.3	6040.6	6050.1	6045.3
27.5°	5870.8	5859.0	5900.3	5922.7	5910.8
30°	5716.2	5697.4	5745.7	5782.3	5768.2
32.5°	5539.3	5527.5	5583.0	5626.6	5618.3
35°	5371.8	5340.0	5401.3	5467.3	5452.0
37.5°	5173.6	5154.8	5224.3	5294.0	5285.8
40°	4980.2	4948.3	5027.4	5109.9	5101.7
42.5°	4772.6	4734.8	4820.9	4920.1	4910.6
45°	4530.7	4522.5	4599.1	4707.7	4699.4
47.5°	4316.1	4274.8	4382.1	4487.1	4496.6
50°	4056.5	4041.3	4139.2	4266.6	4275.9
52.5°	3803.0	3792.4	3894.9	4023.5	4040.0
55°	3550.5	3523.4	3642.5	3764.0	3773.5
57.5°	3280.5	3252.1	3373.6	3505.8	3525.8
60°	2991.4	2964.3	3097.5	3220.3	2560.9
62.5°	2702.4	2683.5	2822.8	1999.4	1611.4
65°	2392.2	2392.2	2531.3	1452.0	1456.8
67.5°	2102.1	2083.2	1887.4	1304.5	1304.5
70°	1790.6	1797.7	1087.5	1143.1	1144.2
72.5°	1478.0	1504.0	939.0	983.7	986.1
75°	1181.9	1204.4	782.0	823.4	826.9
77.5°	868.2	667.6	628.7	660.6	661.8
80°	609.8	421.1	481.3	511.9	508.4
82.5°	356.2	294.9	352.7	375.2	373.9
85°	154.5	195.8	244.2	264.3	250.0
87.5°	49.5	121.5	152.1	164.0	162.7
90°	3.0	84.1	132.5	159.5	161.3
92.5°	9.0	74.8	132.4	172.0	178.1
95°	28.5	92.2	163.9	221.0	239.0
97.5°	137.4	171.7	221.4	278.5	290.9
100°	278.4	317.0	283.6	316.9	323.2
102.5°	444.9	449.5	338.4	323.7	320.0
105°	522.9	524.0	454.9	327.9	301.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.1	430.5	431.0	411.5	386.1
115°	365.9	368.2	372.7	366.2	353.1
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
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°	525.9	533.7	497.5	383.6	312.5
110°	483.1	493.6	475.1	429.5	370.1



(END OF REPORT)