

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: P827097

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827097  
REPORT IS A COMBINATION OF REPORTS P826061 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-MFL-UNV-L840-CD-UPL12  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1200 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

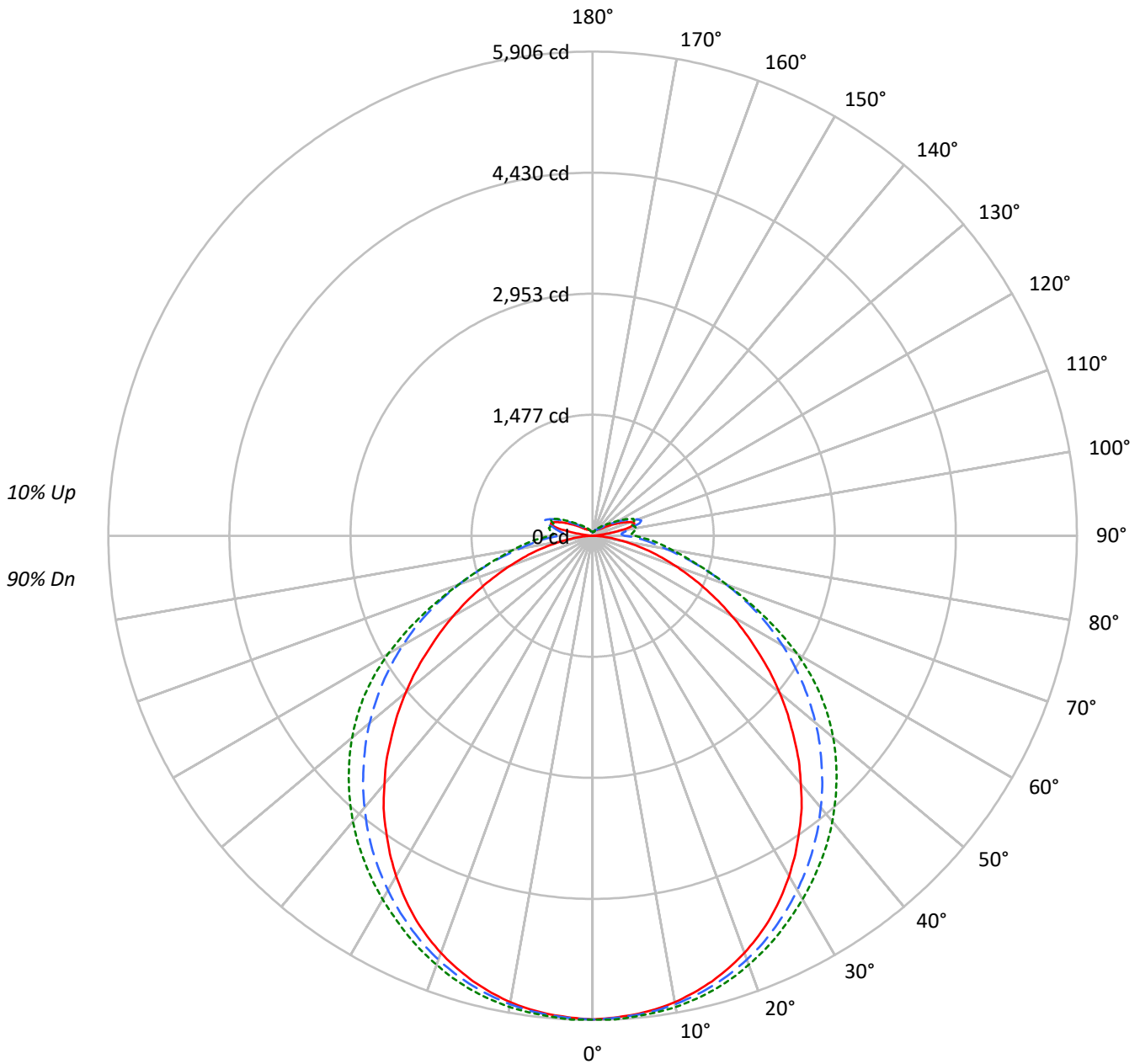
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18905.3 lumens  
Efficiency: N/A  
Efficacy: 169.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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<sub>in</sub>): 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	106	101	97	93	102	98	94	90	92	89	86	86	84	81	81	79	77	77	77	77	74
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	68	64	64	64	64	62
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	54	54	54	52
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	47	47	47	44
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	41	41	41	38
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	40	36	36	36	36	33
7	63	50	41	35	61	48	40	34	46	39	33	44	37	33	42	36	32	32	32	32	30
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	28	28	28	26
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	26	26	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	23	23	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10079	10079	10079
5°	9965	9978	10056
10°	9847	9886	10046
15°	9689	9776	10019
20°	9495	9643	9962
25°	9252	9478	9904
30°	8934	9299	9849
35°	8560	9109	9812
40°	8122	8890	9781
45°	7614	8652	9732
50°	7063	8411	9669
55°	6401	8116	9519
60°	5723	7770	9144
65°	4988	7328	8468
70°	4198	6767	7745
75°	3394	6117	7365
80°	2420	5635	7716
85°	1347	5805	9673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.1	3.0
10°-20°	1604.1	8.5
20°-30°	2425.9	12.8
30°-40°	2912.3	15.4
40°-50°	3007.9	15.9
50°-60°	2706.2	14.3
60°-70°	2038.5	10.8
70°-80°	1230.9	6.5
80°-90°	605.2	3.2
90°-100°	372.4	2.0
100°-110°	558.6	3.0
110°-120°	440.4	2.3
120°-130°	218.4	1.2
130°-140°	110.5	0.6
140°-150°	61.9	0.3
150°-160°	33.5	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	4589.0	24.3
0°-40°	7501.3	39.7
0°-60°	13215.4	69.9
0°-90°	17090.0	90.4
90°-120°	1371.4	7.3
90°-150°	1762.2	9.3
90°-180°	1815.0	9.6
0°-180°	18905.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5901	5901	5901	5901	5901	
5°	5863	5879	5872	5895	5888	557
15°	5626	5654	5680	5728	5733	1586
25°	5138	5195	5268	5350	5364	2363
35°	4393	4496	4680	4822	4851	2746
45°	3467	3642	3947	4162	4207	2677
55°	2456	2711	3122	3358	3398	2202
65°	1499	1805	2210	2319	2293	1489
75°	706	1014	1280	1313	1300	753
85°	147	388	641	729	742	170
90°	3	170	391	493	516	11
95°	32	160	360	466	496	88
105°	527	570	595	517	501	499
115°	372	393	459	489	489	372
125°	188	199	246	270	276	174
135°	112	118	139	162	168	89
145°	89	90	92	105	110	56
155°	74	77	76	76	77	32
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°	5900.8	5900.8	5900.8	5900.8	5900.8
2.5°	5883.4	5897.9	5889.2	5908.0	5906.5
5°	5863.2	5879.1	5871.9	5895.0	5887.8
7.5°	5828.6	5845.9	5844.4	5870.4	5867.6
10°	5778.0	5796.8	5802.6	5837.2	5837.2
12.5°	5708.7	5733.2	5747.7	5789.6	5791.0
15°	5626.4	5653.8	5679.8	5727.5	5733.2
17.5°	5526.7	5561.4	5597.5	5652.4	5659.6
20°	5414.1	5453.1	5502.2	5560.0	5568.6
22.5°	5284.1	5330.3	5393.9	5461.7	5471.9
25°	5138.3	5194.6	5268.2	5350.5	5363.5
27.5°	4972.2	5037.2	5136.8	5229.2	5240.8
30°	4791.7	4868.2	4992.4	5102.2	5120.9
32.5°	4601.0	4689.1	4842.2	4965.0	4991.0
35°	4393.1	4495.6	4680.5	4822.0	4850.9
37.5°	4188.0	4300.7	4510.1	4671.8	4706.5
40°	3948.3	4088.4	4328.1	4507.2	4549.1
42.5°	3723.0	3874.6	4146.1	4341.1	4381.5
45°	3467.4	3642.1	3946.8	4162.0	4206.8
47.5°	3227.7	3416.8	3754.8	3977.2	4023.4
50°	2974.9	3182.9	3549.7	3782.2	3829.9
52.5°	2722.2	2946.1	3337.4	3578.6	3623.4
55°	2456.5	2710.7	3122.2	3357.6	3398.1
57.5°	2209.5	2478.1	2901.3	3125.1	3149.7
60°	1965.5	2244.2	2676.0	2872.4	2881.1
62.5°	1727.2	2020.4	2444.9	2600.9	2589.3
65°	1499.0	1805.2	2209.5	2319.3	2293.3
67.5°	1279.5	1595.8	1968.4	2039.1	2004.5
70°	1071.6	1392.2	1734.4	1770.5	1738.7
72.5°	888.1	1198.6	1497.6	1527.9	1504.8
75°	706.2	1013.8	1279.5	1312.7	1299.7
77.5°	535.8	834.7	1078.8	1122.1	1125.0
80°	385.6	671.5	904.0	971.9	980.6
82.5°	254.2	521.3	758.2	844.8	857.8
85°	147.3	388.5	641.2	729.3	742.3
87.5°	63.5	280.2	515.6	595.0	610.9
90°	3.0	169.6	390.8	493.1	515.9
92.5°	13.3	148.6	352.8	455.5	476.4
95°	32.2	160.5	360.4	465.5	496.5
97.5°	143.7	233.6	404.3	500.7	523.7
100°	284.7	372.1	453.5	525.2	541.7
102.5°	447.7	499.4	496.5	520.0	525.1
105°	527.1	570.2	594.9	517.0	500.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	429.6	460.0	527.8	549.3	538.1
115°	371.6	393.2	459.2	489.4	489.2
117.5°	315.0	334.9	395.6	424.4	426.8
120°	266.0	283.6	337.5	362.4	368.2
122.5°	226.0	238.2	288.9	313.3	318.6
125°	187.6	198.9	246.2	270.2	275.5
127.5°	157.1	166.0	210.5	235.5	239.9
130°	138.1	143.6	180.3	205.9	210.2
132.5°	124.1	130.0	157.1	181.2	188.0
135°	112.1	118.0	139.3	162.0	167.8
137.5°	104.1	109.0	123.6	144.8	151.5
140°	97.6	102.0	111.2	129.5	135.3
142.5°	93.0	95.0	99.9	116.8	122.1
145°	89.4	90.0	92.4	105.0	110.3
147.5°	84.4	86.4	88.4	94.2	99.6
150°	81.4	83.9	83.4	85.9	90.2
152.5°	77.4	79.9	79.4	79.0	81.9
155°	74.4	76.9	76.4	76.0	77.4
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°	530.1	574.0	621.1	557.9	501.1
110°	486.1	529.2	585.2	584.6	540.9



(END OF REPORT)