

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: P827105

Luminaire Tested: **OHBL-18HE-NL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827105  
REPORT IS A COMBINATION OF REPORTS P826231 AND G3-2310-221-6  
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-UPL24  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 2400 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

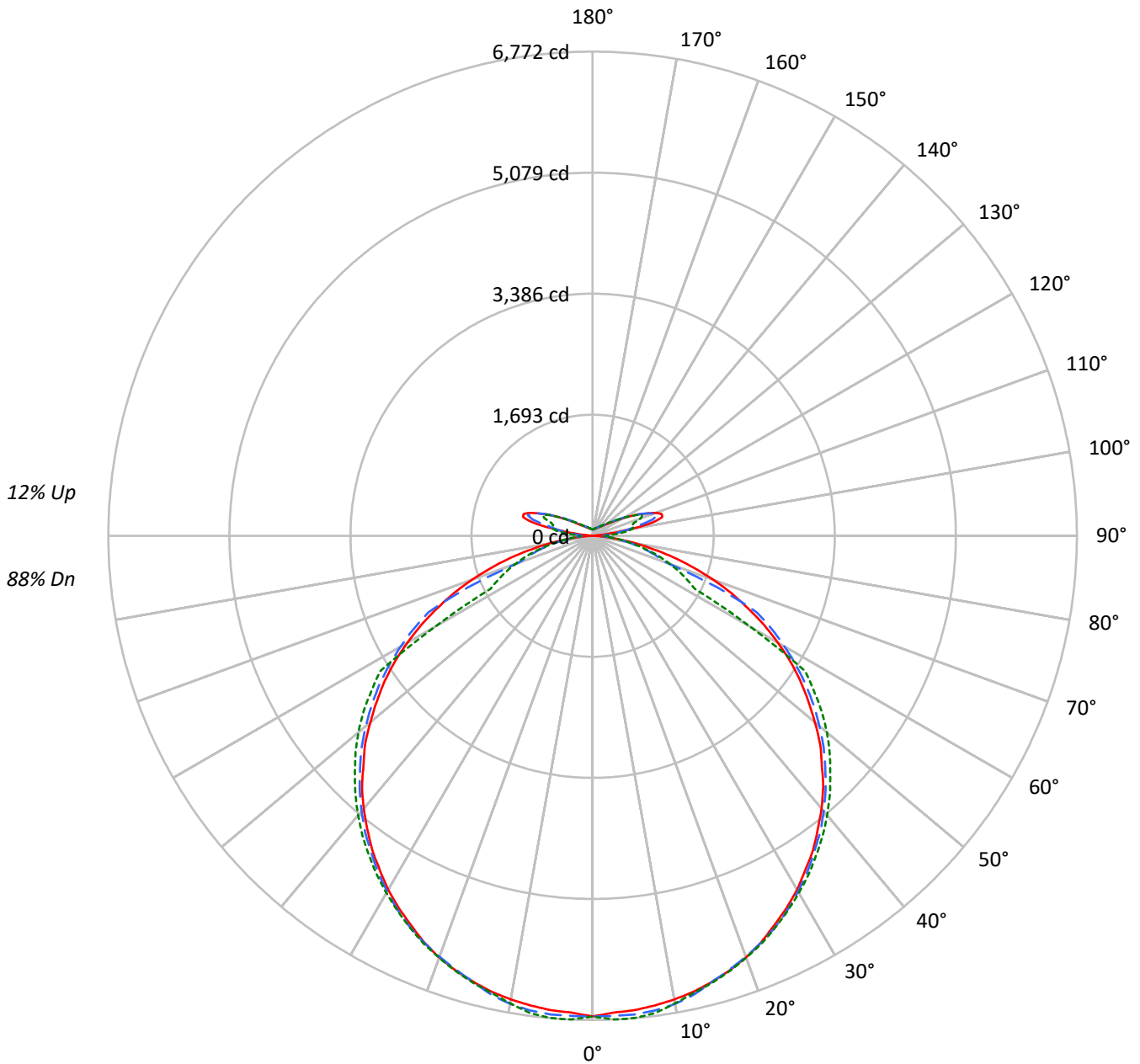
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21294.3 lumens  
Efficiency: N/A  
Efficacy: 176.9 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: Semi-Direct  
  
Input Watts (W): 120.4  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	107	102	98	94	103	99	95	92	92	89	87	86	84	82	81	79	78	75			75
2	97	89	83	77	93	86	81	75	81	76	72	76	72	69	71	68	65	63			63
3	89	79	71	64	85	76	69	63	71	65	61	67	62	58	63	59	56	53			53
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	56	52	48	45			45
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	39			39
6	69	56	47	41	66	54	46	40	51	44	39	49	42	38	46	41	37	34			34
7	64	51	42	36	61	49	41	36	47	40	34	44	38	33	42	37	32	30			30
8	59	46	38	32	57	45	37	32	43	36	31	40	34	30	38	33	29	27			27
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24			24
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22			22

**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	3.0
10°-20°	1828.6	8.6
20°-30°	2782.4	13.1
30°-40°	3383.1	15.9
40°-50°	3557.1	16.7
50°-60°	3248.1	15.3
60°-70°	2082.2	9.8
70°-80°	983.6	4.6
80°-90°	278.9	1.3
90°-100°	304.1	1.4
100°-110°	824.7	3.9
110°-120°	695.9	3.3
120°-130°	331.2	1.6
130°-140°	165.7	0.8
140°-150°	96.1	0.5
150°-160°	56.0	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	5249.7	24.7
0°-40°	8632.8	40.5
0°-60°	15438.0	72.5
0°-90°	18782.7	88.2
90°-120°	1824.7	8.6
90°-150°	2417.7	11.4
90°-180°	2512.0	11.8
0°-180°	21294.3	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°	5	100	156	190	195	10
95°	56	145	250	333	363	167
105°	1009	1005	863	620	570	958
115°	698	707	711	705	692	702
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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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°	5.0	100.1	155.5	190.5	195.3
92.5°	17.0	96.8	166.4	220.0	234.1
95°	56.5	145.2	249.9	333.0	363.0
97.5°	271.4	315.7	368.4	461.5	496.9
100°	554.4	606.0	509.6	558.9	569.2
102.5°	858.9	864.5	640.4	591.7	585.0
105°	1008.9	1005.0	862.9	619.9	569.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	815.1	829.5	817.0	790.5	750.1
115°	697.9	707.2	710.7	705.2	692.1
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1012.9	1022.7	949.5	739.6	610.5
110°	936.1	948.6	907.1	825.5	719.1



(END OF REPORT)