

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: P827993

Luminaire Tested: **OHBL-18HE-A-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827993  
REPORT IS A COMBINATION OF REPORTS P826227 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-A-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

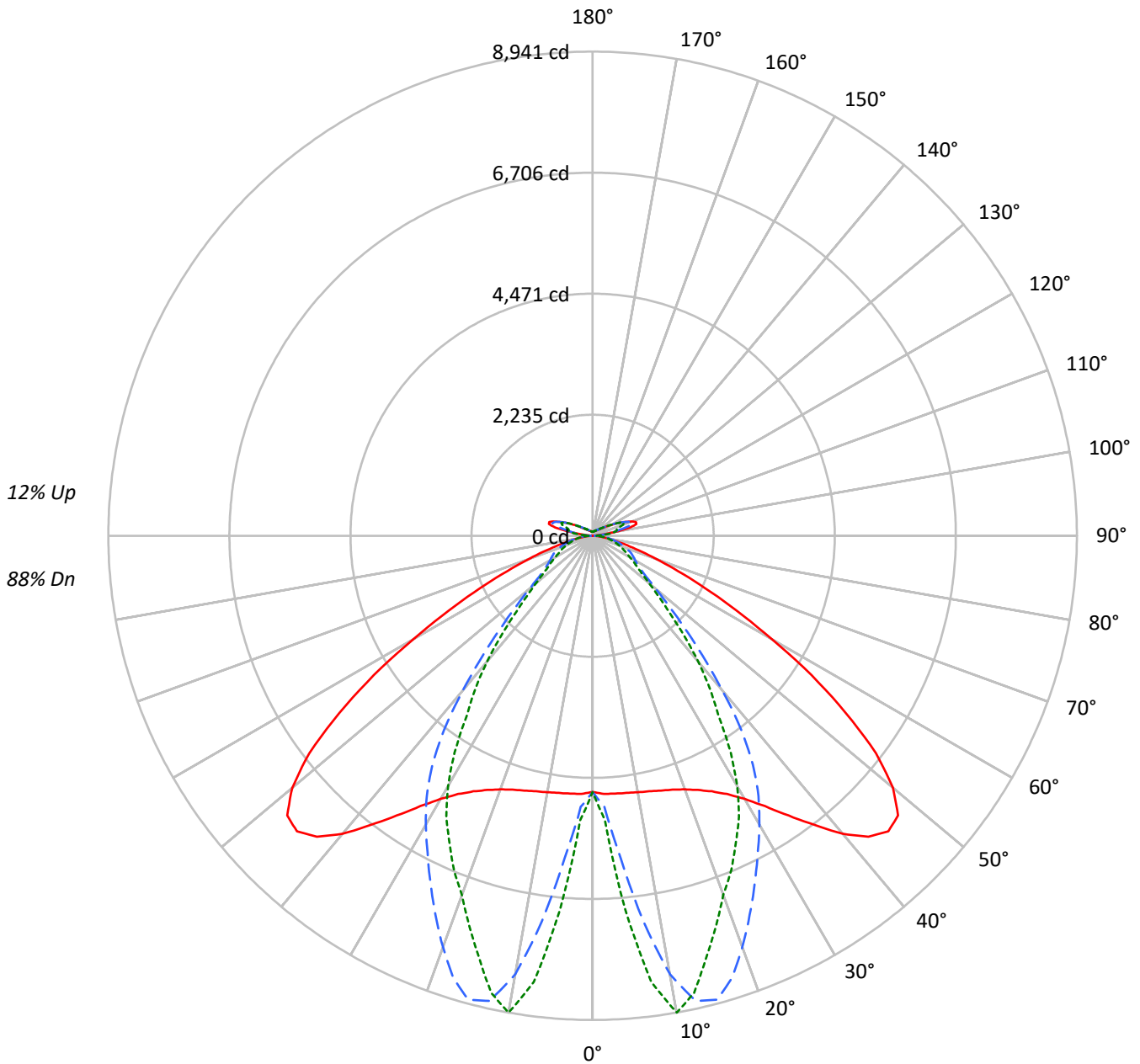
Lumens per Lamp: N/A  
Luminaire Lumens: 17200.2 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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									
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	105	105	105	98	98	98	91	91	91	88																			
1	108	104	100	97	104	100	97	94	94	92	89	88	86	85	83	81	80	77																			
2	100	93	87	82	96	90	85	80	85	80	77	80	76	73	75	72	70	67																			
3	92	83	76	71	89	81	74	69	76	71	67	72	68	64	68	65	62	59																			
4	85	75	67	61	82	73	66	60	69	63	58	65	60	56	62	58	55	52																			
5	79	68	60	54	76	66	59	53	63	56	52	60	54	50	57	52	49	46																			
6	73	62	54	48	71	60	53	47	57	51	46	55	49	45	52	47	44	42																			
7	68	56	49	43	66	55	48	43	53	46	42	50	45	40	48	43	39	37																			
8	64	52	44	39	62	51	43	38	48	42	38	46	41	37	44	40	36	34																			
9	60	48	40	35	58	47	40	35	45	39	34	43	37	33	41	36	33	31																			
10	56	44	37	32	55	43	37	32	42	36	31	40	35	31	39	34	30	28																			

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

	0°	45°	90°
0°	8081	8081	8081
5°	8123	10164	11847
10°	8195	14013	15387
15°	8390	15265	14123
20°	8737	14164	12622
25°	9374	12738	11545
30°	10453	11470	10266
35°	12289	10039	8181
40°	14776	7645	6510
45°	16949	5209	4634
50°	17183	3573	3427
55°	14873	2812	2800
60°	11110	2631	2519
65°	7615	2639	2386
70°	4869	2546	2311
75°	2928	2356	2211
80°	1723	2071	2281
85°	829	1778	2115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.7	3.6
10°-20°	2180.2	12.7
20°-30°	3212.6	18.7
30°-40°	3376.0	19.6
40°-50°	2583.2	15.0
50°-60°	1559.9	9.1
60°-70°	951.9	5.5
70°-80°	519.6	3.0
80°-90°	187.5	1.1
90°-100°	193.2	1.1
100°-110°	670.8	3.9
110°-120°	575.4	3.3
120°-130°	276.0	1.6
130°-140°	138.1	0.8
140°-150°	80.1	0.5
150°-160°	46.7	0.3
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	6010.5	34.9
0°-40°	9386.5	54.6
0°-60°	13529.5	78.7
0°-90°	15188.5	88.3
90°-120°	1439.3	8.4
90°-150°	1933.5	11.2
90°-180°	2012.0	11.7
0°-180°	17200.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4732	4732	4732	4732	4732	
5°	4779	5127	5981	6678	6936	457
15°	4872	7588	8869	8276	8081	1385
25°	5206	8807	7080	6410	6252	2433
35°	6306	7053	5158	4296	4044	4001
45°	7719	4024	2376	2091	2003	5832
55°	5708	1365	1082	1002	1000	5044
65°	2288	864	796	681	646	2345
75°	609	537	493	407	390	701
85°	91	167	196	179	162	112
90°	4	28	39	52	58	8
95°	44	92	143	190	215	137
105°	836	827	703	501	460	793
115°	577	582	582	581	576	582
125°	282	297	302	302	299	264
135°	167	170	176	178	179	132
145°	121	124	127	128	128	77
155°	97	98	100	101	101	45
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4731.5	4731.5	4731.5	4731.5	4731.5
2.5°	4770.3	4819.0	5010.9	5210.2	5258.7
5°	4779.0	5127.2	5981.2	6678.5	6936.2
7.5°	4789.2	5626.5	7183.3	8037.1	8310.4
10°	4808.4	6257.9	8225.0	8837.9	8941.2
12.5°	4832.4	6926.9	8798.2	8775.8	8645.6
15°	4872.2	7588.5	8868.8	8275.9	8081.3
17.5°	4913.9	8148.3	8560.8	7731.8	7562.3
20°	4981.9	8563.8	8081.8	7248.1	7055.5
22.5°	5079.9	8792.3	7579.4	6810.6	6685.0
25°	5206.3	8807.1	7080.5	6410.3	6252.1
27.5°	5375.8	8602.8	6602.2	6018.1	5850.9
30°	5606.2	8211.6	6157.9	5545.2	5337.8
32.5°	5919.3	7648.6	5699.8	4974.2	4741.7
35°	6306.4	7052.8	5158.2	4295.8	4044.5
37.5°	6728.8	6391.4	4501.1	3694.9	3548.7
40°	7183.3	5709.9	3722.2	3132.8	3028.0
42.5°	7538.0	4968.9	2998.6	2603.3	2492.0
45°	7718.8	4024.4	2376.1	2090.8	2003.0
47.5°	7648.3	3124.0	1883.7	1661.3	1634.9
50°	7237.5	2306.8	1507.9	1368.5	1357.6
52.5°	6595.2	1719.3	1245.6	1159.3	1140.5
55°	5708.2	1364.7	1081.7	1002.5	999.5
57.5°	4792.6	1159.3	981.8	920.5	899.2
60°	3815.8	1033.8	906.2	836.9	793.8
62.5°	2991.1	945.9	850.5	756.6	716.2
65°	2288.5	863.9	795.8	680.9	646.2
67.5°	1705.9	785.8	728.8	601.4	581.1
70°	1242.9	705.7	652.5	534.8	518.8
72.5°	885.8	625.8	576.2	472.3	454.7
75°	609.3	537.3	492.8	406.6	390.2
77.5°	411.1	447.0	410.7	347.2	340.2
80°	274.5	354.5	332.2	294.2	289.9
82.5°	166.6	257.2	262.2	239.3	227.7
85°	90.7	166.6	196.4	178.9	162.3
87.5°	35.5	92.3	135.3	121.5	114.4
90°	4.2	28.3	39.2	51.7	57.5
92.5°	14.2	37.5	60.0	85.0	95.8
95°	44.2	92.5	143.3	190.0	215.0
97.5°	224.2	242.5	260.8	315.8	343.3
100°	460.0	488.3	394.2	416.7	424.2
102.5°	710.8	706.7	515.0	461.7	455.0
105°	835.8	826.7	703.3	500.8	460.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	673.3	683.3	670.0	650.8	624.2
115°	576.7	582.5	582.5	580.8	575.8
117.5°	493.3	494.2	497.5	496.7	497.5
120°	408.3	417.5	425.0	420.8	415.8
122.5°	342.5	352.5	357.5	355.8	350.8
125°	281.7	296.7	302.5	301.7	299.2
127.5°	238.3	249.2	257.5	258.3	257.5
130°	207.5	214.2	222.5	223.3	224.2
132.5°	184.2	190.0	195.8	199.2	198.3
135°	166.7	170.0	175.8	177.5	179.2
137.5°	152.5	155.0	160.0	162.5	162.5
140°	140.0	143.3	147.5	149.2	150.0
142.5°	129.2	132.5	135.8	137.5	137.5
145°	120.8	124.2	126.7	127.5	128.3
147.5°	113.3	116.7	118.3	120.0	120.0
150°	107.5	109.2	111.7	112.5	113.3
152.5°	101.7	103.3	105.8	106.7	106.7
155°	96.7	98.3	100.0	100.8	100.8
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	839.2	842.5	777.5	607.5	505.8
110°	774.2	781.7	744.2	680.0	598.3



(END OF REPORT)