

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: P828002

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828002  
REPORT IS A COMBINATION OF REPORTS P826230 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-N-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

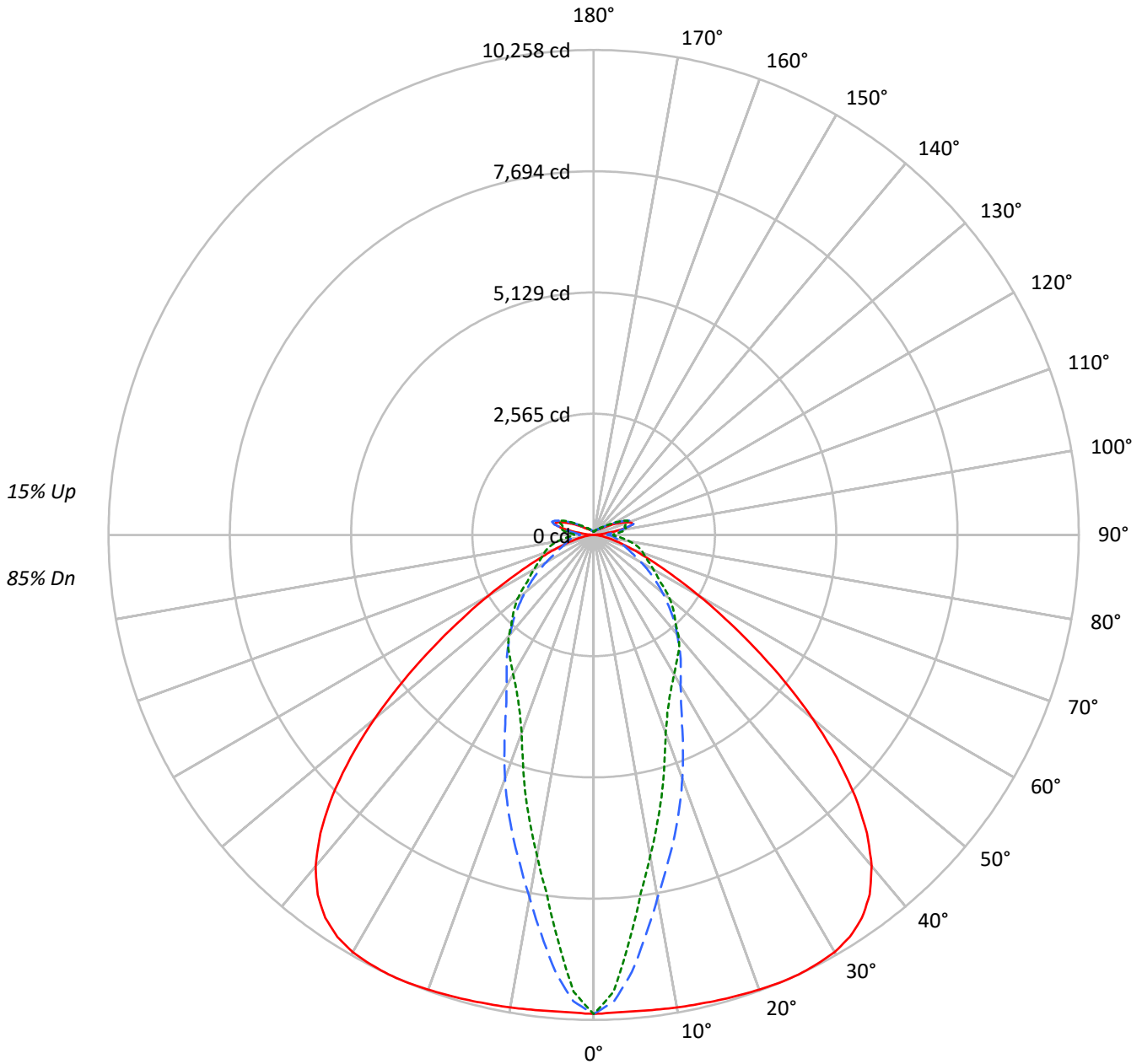
Lumens per Lamp: N/A  
Luminaire Lumens: 16972.8 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 120.4  
Input Voltage (V): NR  
Input Current (Ain): 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	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	102	98	94	102	98	95	91	91	88	86	85	83	81	79	77	76	73																			
2	98	90	84	79	94	87	81	77	81	77	73	76	72	69	71	68	65	63																			
3	90	80	73	67	86	78	71	66	73	67	63	68	64	60	64	60	57	54																			
4	83	72	64	58	80	70	63	57	66	60	55	62	57	53	58	54	50	48																			
5	77	65	57	51	74	63	56	50	60	53	48	56	51	47	53	48	45	42																			
6	71	59	51	45	69	58	50	45	55	48	43	52	46	42	49	44	40	38																			
7	67	54	46	41	64	53	45	40	50	44	39	47	42	38	45	40	36	34																			
8	62	50	42	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31																			
9	59	46	39	34	56	45	38	33	43	37	32	41	35	31	39	34	30	29																			
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	36	32	28	26																			

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

	0°	45°	90°
0°	17308	17308	17308
5°	17189	15762	14726
10°	17298	13277	11866
15°	17548	11355	9787
20°	17949	9601	7957
25°	18470	7947	7010
30°	18998	6846	6549
35°	19272	6239	6279
40°	18811	5636	5999
45°	17169	5093	5598
50°	14352	4500	5303
55°	10786	3941	4771
60°	7455	3380	4631
65°	4926	2911	4615
70°	3283	2732	4962
75°	2197	2817	5498
80°	1423	3121	6018
85°	732	3903	7176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.0	5.0
10°-20°	2006.7	11.8
20°-30°	2515.3	14.8
30°-40°	2669.1	15.7
40°-50°	2413.3	14.2
50°-60°	1749.8	10.3
60°-70°	1098.1	6.5
70°-80°	726.7	4.3
80°-90°	423.8	2.5
90°-100°	396.0	2.3
100°-110°	810.8	4.8
110°-120°	661.8	3.9
120°-130°	317.9	1.9
130°-140°	157.4	0.9
140°-150°	90.6	0.5
150°-160°	51.2	0.3
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	5375.0	31.7
0°-40°	8044.1	47.4
0°-60°	12207.1	71.9
0°-90°	14455.6	85.2
90°-120°	1868.6	11.0
90°-150°	2434.4	14.3
90°-180°	2517.0	14.8
0°-180°	16972.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10133	10133	10133	10133	10133	
5°	10113	9854	9275	8845	8622	967
15°	10190	8306	6597	5867	5600	2890
25°	10258	6422	4417	3920	3796	4739
35°	9890	4270	3206	3106	3104	6148
45°	7819	2704	2323	2379	2420	5956
55°	4139	1676	1516	1644	1703	3740
65°	1480	972	878	1124	1250	1541
75°	457	524	589	915	970	510
85°	80	217	431	600	551	96
90°	4	119	289	404	412	8
95°	48	156	363	489	528	141
105°	844	869	863	713	678	801
115°	587	612	690	716	714	592
125°	293	312	358	371	368	274
135°	176	182	200	215	217	139
145°	132	137	141	150	150	84
155°	108	113	115	117	115	49
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°	10133.3	10133.3	10133.3	10133.3	10133.3
2.5°	10112.2	10054.2	9873.9	9764.0	9671.4
5°	10113.1	9853.7	9275.0	8844.9	8622.1
7.5°	10127.6	9550.8	8508.3	7880.4	7635.5
10°	10149.8	9175.7	7792.7	7123.3	6894.8
12.5°	10166.2	8753.2	7162.9	6475.2	6224.5
15°	10190.2	8305.8	6596.8	5866.7	5600.5
17.5°	10212.5	7884.3	6037.4	5274.5	4978.4
20°	10234.7	7430.1	5478.0	4692.0	4448.0
22.5°	10255.8	6950.8	4932.2	4239.7	4072.8
25°	10257.8	6422.2	4417.2	3920.4	3796.0
27.5°	10232.8	5874.4	3999.5	3653.3	3576.2
30°	10189.3	5343.0	3675.5	3460.4	3405.4
32.5°	10081.3	4801.0	3424.8	3274.2	3242.4
35°	9890.3	4269.6	3205.8	3105.5	3104.5
37.5°	9589.4	3798.0	2968.6	2951.2	2972.4
40°	9144.8	3385.2	2743.8	2790.2	2790.2
42.5°	8551.7	3026.4	2540.3	2587.6	2575.1
45°	7818.8	2704.2	2323.3	2379.2	2419.8
47.5°	6969.1	2420.8	2101.5	2209.5	2265.5
50°	6045.1	2150.7	1899.0	2036.9	2100.6
52.5°	5076.8	1900.9	1701.2	1859.4	1910.6
55°	4139.4	1676.2	1516.1	1644.3	1703.2
57.5°	3290.7	1462.1	1334.8	1456.3	1577.8
60°	2560.6	1277.9	1164.1	1337.7	1459.2
62.5°	1955.9	1113.9	1004.0	1226.8	1348.3
65°	1480.4	972.2	877.7	1124.5	1249.9
67.5°	1115.8	849.7	779.2	1050.2	1172.8
70°	838.1	731.1	700.2	1004.0	1113.9
72.5°	619.2	622.1	637.5	963.5	1047.4
75°	457.2	523.7	589.2	915.2	970.2
77.5°	326.9	434.0	545.8	857.4	876.7
80°	226.7	353.9	500.6	781.2	764.8
82.5°	141.8	283.6	460.0	697.3	652.0
85°	80.1	217.0	431.1	599.9	550.7
87.5°	35.7	162.0	377.1	467.8	436.9
90°	4.2	119.0	288.9	403.7	412.4
92.5°	16.1	112.8	290.5	407.1	427.6
95°	48.0	156.2	363.2	489.0	527.5
97.5°	229.0	298.4	467.3	593.6	632.7
100°	465.8	538.5	584.2	672.3	689.4
102.5°	717.6	753.0	689.6	694.1	695.2
105°	843.6	869.1	863.4	713.0	678.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	683.0	716.1	790.6	803.2	781.3
115°	587.3	612.4	690.5	715.8	713.8
117.5°	504.9	520.2	592.0	615.3	617.1
120°	419.9	440.7	506.0	522.1	517.1
122.5°	354.1	371.8	425.0	439.8	433.8
125°	293.2	312.1	357.5	371.1	367.7
127.5°	248.9	261.7	301.8	316.2	314.4
130°	218.1	226.7	258.2	272.5	273.3
132.5°	193.8	201.6	224.8	241.6	240.8
135°	176.3	181.6	199.9	215.1	216.8
137.5°	162.2	167.5	180.3	195.3	195.3
140°	149.7	154.9	164.8	178.1	178.9
142.5°	139.8	144.1	151.2	162.6	162.6
145°	132.4	136.7	141.2	149.7	149.6
147.5°	124.9	130.2	132.8	139.2	138.3
150°	119.1	123.7	126.2	129.8	129.8
152.5°	113.3	117.8	120.3	123.1	122.1
155°	108.3	112.8	115.4	117.2	115.3
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°	846.9	882.1	924.1	797.5	702.6
110°	782.8	817.3	878.3	849.8	774.8



(END OF REPORT)