

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: P827995

Luminaire Tested: **OHBL-18HE-MCL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827995  
REPORT IS A COMBINATION OF REPORTS P826156 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-MCL-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

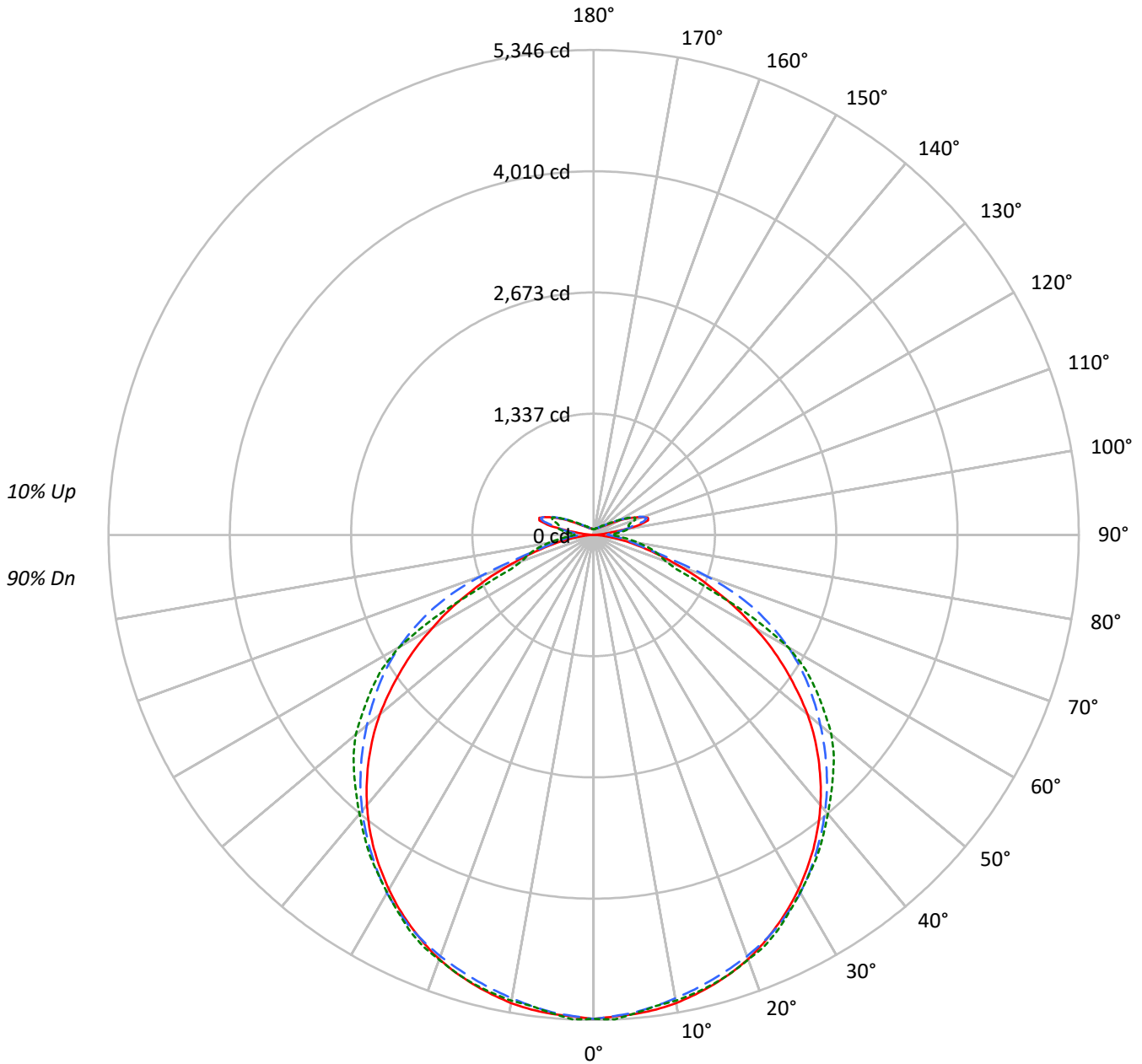
Lumens per Lamp: N/A  
Luminaire Lumens: 16570.8 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 115.3  
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

TEST NUMBER: P827995

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P827995

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL18

**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	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	79	79	79	76
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	66	66	66	64
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	61	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	43	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	54	41	34	28	39	33	28	38	32	27	36	30	26	26	26	26	25
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

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

	0°	45°	90°
0°	9112	9112	9112
5°	9009	8976	9037
10°	8932	8836	8974
15°	8831	8730	8953
20°	8730	8662	8913
25°	8578	8593	8876
30°	8416	8487	8752
35°	8228	8322	8706
40°	7997	8150	8631
45°	7695	7953	8634
50°	7304	7728	8635
55°	6719	7506	8394
60°	5977	7183	7854
65°	5036	6591	5056
70°	3958	5134	3745
75°	2862	3039	3926
80°	1873	2515	3957
85°	938	2283	4161



TEST NUMBER: P827995

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL18

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.0	3.0
10°-20°	1442.5	8.7
20°-30°	2203.1	13.3
30°-40°	2673.2	16.1
40°-50°	2801.7	16.9
50°-60°	2538.8	15.3
60°-70°	1702.1	10.3
70°-80°	764.4	4.6
80°-90°	281.1	1.7
90°-100°	226.2	1.4
100°-110°	534.9	3.2
110°-120°	445.5	2.7
120°-130°	215.3	1.3
130°-140°	109.6	0.7
140°-150°	64.3	0.4
150°-160°	38.4	0.2
160°-170°	20.4	0.1
170°-180°	6.2	0.0
<hr/>		
0°-30°	4148.7	25.0
0°-40°	6821.8	41.2
0°-60°	12162.3	73.4
0°-90°	14909.9	90.0
90°-120°	1206.6	7.3
90°-150°	1595.9	9.6
90°-180°	1661.0	10.0
0°-180°	16570.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5335	5335	5335	5335	5335	
5°	5300	5319	5282	5298	5291	504
15°	5128	5108	5072	5117	5123	1448
25°	4764	4743	4776	4820	4807	2196
35°	4223	4233	4276	4321	4304	2639
45°	3504	3562	3628	3720	3732	2700
55°	2579	2703	2887	3003	2996	2302
65°	1514	1750	1987	1677	1369	1508
75°	596	864	636	650	693	651
85°	103	197	252	305	319	125
90°	4	86	159	201	213	9
95°	32	109	197	248	271	101
105°	621	629	566	421	395	589
115°	434	442	454	455	456	437
125°	214	224	238	240	239	201
135°	130	134	138	144	146	103
145°	97	99	102	104	104	62
155°	79	82	83	84	83	37
165°	70	71	71	72	72	20
175°	64	64	64	64	64	6
180°	64	64	64	64	64	



TEST NUMBER: P827995

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5335.0	5335.0	5335.0	5335.0	5335.0
2.5°	5313.4	5335.8	5308.0	5338.1	5345.8
5°	5300.3	5318.8	5281.8	5298.0	5291.1
7.5°	5276.4	5282.6	5238.6	5251.8	5237.8
10°	5240.9	5237.8	5186.2	5211.6	5214.7
12.5°	5188.4	5179.2	5132.9	5171.5	5172.2
15°	5128.2	5108.2	5072.0	5116.8	5122.9
17.5°	5058.8	5032.7	5008.8	5066.6	5057.3
20°	4977.8	4947.0	4942.4	5005.7	4982.5
22.5°	4877.6	4853.7	4864.5	4924.7	4910.0
25°	4764.2	4743.3	4776.5	4820.5	4806.6
27.5°	4644.6	4632.2	4670.1	4704.0	4677.0
30°	4513.5	4506.5	4556.7	4584.4	4550.5
32.5°	4370.8	4373.1	4420.9	4458.7	4427.1
35°	4222.7	4232.7	4275.9	4321.4	4304.4
37.5°	4059.9	4082.2	4125.5	4177.2	4159.4
40°	3887.8	3920.3	3968.1	4030.6	4014.4
42.5°	3702.0	3742.8	3804.6	3874.0	3872.4
45°	3504.5	3561.6	3627.9	3720.5	3732.1
47.5°	3299.2	3363.3	3447.4	3570.8	3588.6
50°	3076.3	3156.6	3261.5	3409.6	3420.4
52.5°	2828.0	2937.5	3076.3	3218.3	3205.2
55°	2578.8	2703.0	2887.3	3003.1	2996.2
57.5°	2330.4	2470.0	2693.8	2776.2	2775.5
60°	2052.7	2229.3	2473.9	2536.3	2474.7
62.5°	1795.8	1985.6	2239.4	2193.8	1982.5
65°	1513.5	1750.3	1987.2	1677.0	1369.2
67.5°	1262.8	1509.7	1687.8	1148.6	983.5
70°	1010.5	1282.8	1316.0	852.4	840.8
72.5°	786.8	1076.9	907.9	729.8	766.8
75°	595.5	864.0	635.7	650.3	692.8
77.5°	434.3	663.4	494.5	570.1	604.8
80°	298.5	469.8	403.4	479.0	502.9
82.5°	187.4	310.1	323.2	385.7	410.4
85°	102.6	196.7	252.2	304.7	319.3
87.5°	42.4	118.8	192.8	235.3	247.6
90°	4.1	86.4	158.7	201.0	212.9
92.5°	11.6	77.7	152.2	195.3	207.3
95°	32.4	109.2	197.0	247.9	271.0
97.5°	164.1	209.9	273.2	325.2	341.7
100°	337.3	378.7	357.5	384.8	392.1
102.5°	527.3	544.9	430.8	404.9	402.2
105°	620.6	629.4	565.7	420.8	394.7



TEST NUMBER: P827995

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	507.1	515.8	521.2	514.8	495.6
115°	433.7	441.8	454.0	455.2	455.9
117.5°	370.3	374.4	387.6	390.6	392.9
120°	310.3	316.9	330.3	331.7	330.8
122.5°	260.3	267.8	280.5	281.8	280.9
125°	213.8	224.5	238.1	239.5	238.7
127.5°	182.8	190.3	204.0	205.5	204.6
130°	159.5	166.1	175.0	178.9	179.8
132.5°	144.4	147.8	155.0	158.9	160.6
135°	130.3	133.6	138.5	144.0	145.6
137.5°	120.3	122.8	126.1	131.6	133.2
140°	111.1	113.6	115.3	120.0	121.7
142.5°	102.8	106.1	107.8	110.9	112.5
145°	96.9	99.4	101.9	103.5	104.2
147.5°	91.9	93.6	95.2	96.9	97.7
150°	86.9	88.6	90.2	91.1	91.9
152.5°	83.6	84.4	86.1	86.9	86.9
155°	79.4	81.8	82.7	83.5	82.8
157.5°	76.9	78.5	79.3	80.2	80.2
160°	74.4	75.2	76.0	76.8	76.8
162.5°	72.7	72.7	73.5	74.3	74.3
165°	70.2	71.0	71.0	71.8	71.8
167.5°	68.5	69.2	69.3	69.3	70.2
170°	66.8	66.8	67.7	66.9	66.9
172.5°	65.2	66.0	66.0	65.2	65.2
175°	64.3	64.3	64.4	63.6	63.6
177.5°	64.2	64.3	63.6	62.8	62.0
180°	63.6	63.6	63.6	63.6	63.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	627.2	638.0	612.8	492.2	421.2
110°	575.5	589.8	584.2	541.1	485.1



(END OF REPORT)