

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: P827996

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827996
REPORT IS A COMBINATION OF REPORTS P826228 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-MCL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

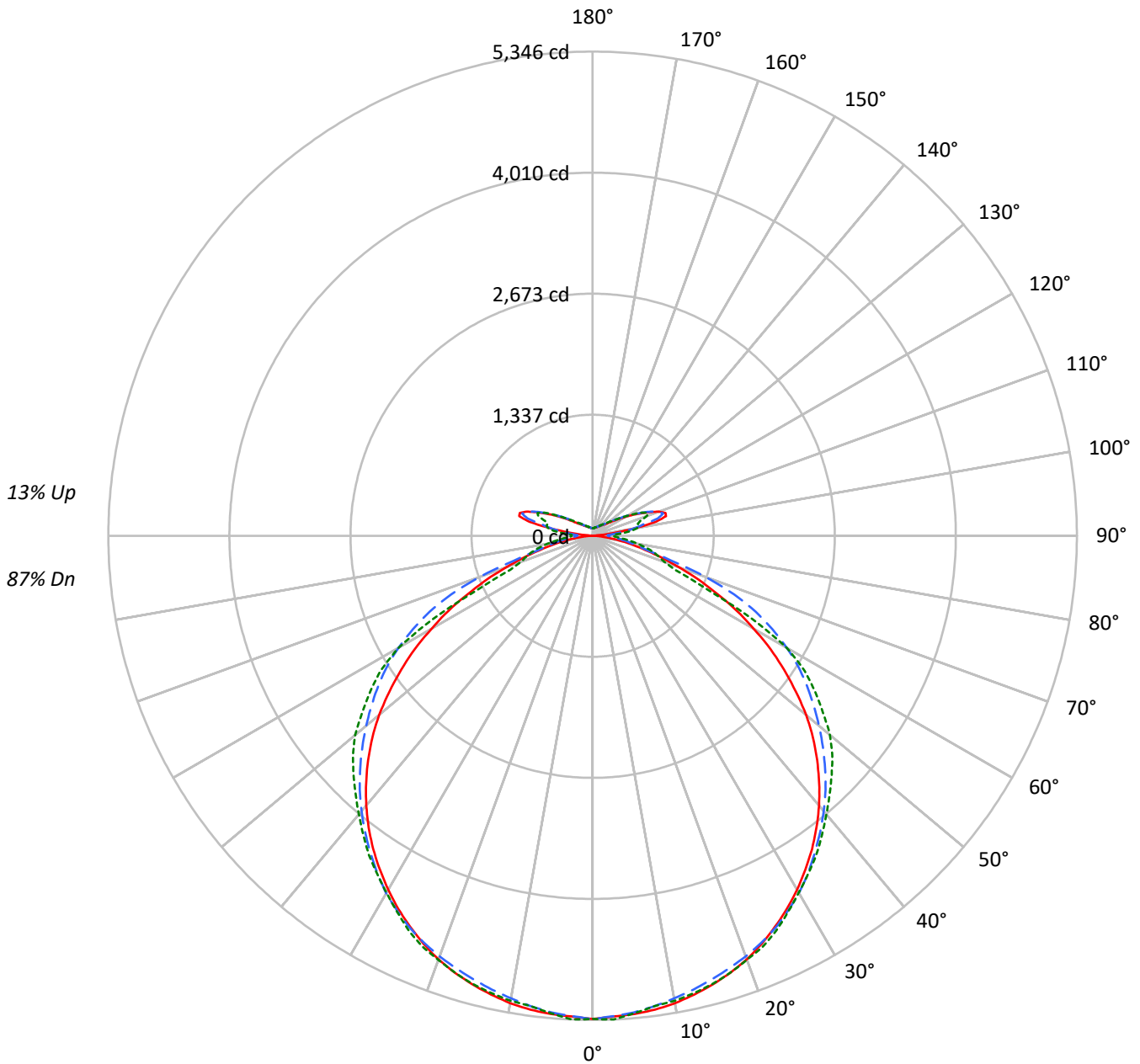
Lumens per Lamp: N/A
Luminaire Lumens: 17096.1 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P827996

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL24

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	104	104	104	97	97	97	90	90	90	87				87
1	106	102	98	94	102	98	94	91	92	89	86	86	83	81	80	78	77	74				74
2	97	89	82	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62				62
3	88	78	70	64	85	76	68	63	71	65	60	66	62	57	62	58	55	52				52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45				45
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39				39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34				34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30				30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	27				27
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	2.9
10°-20°	1442.5	8.4
20°-30°	2203.1	12.9
30°-40°	2673.2	15.6
40°-50°	2801.7	16.4
50°-60°	2538.8	14.9
60°-70°	1702.1	10.0
70°-80°	764.4	4.5
80°-90°	282.5	1.7
90°-100°	276.7	1.6
100°-110°	710.1	4.2
110°-120°	595.1	3.5
120°-130°	286.9	1.7
130°-140°	145.6	0.9
140°-150°	85.1	0.5
150°-160°	50.4	0.3
160°-170°	26.6	0.2
170°-180°	8.1	0.0
0°-30°	4148.7	24.3
0°-40°	6821.8	39.9
0°-60°	12162.3	71.1
0°-90°	14911.3	87.2
90°-120°	1582.0	9.3
90°-150°	2099.6	12.3
90°-180°	2185.0	12.8
0°-180°	17096.1	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°	5	94	170	215	229	9
95°	45	133	233	299	327	138
105°	839	844	747	554	516	797
115°	583	592	605	609	606	587
125°	287	303	316	318	316	270
135°	174	178	184	190	192	137
145°	128	132	134	136	138	82
155°	104	107	108	109	109	49
165°	92	93	94	94	94	26
175°	84	84	84	84	84	8
180°	83	83	83	83	83	



TEST NUMBER: P827996

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL24

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°	4.9	93.9	169.5	215.2	228.8
92.5°	14.9	87.7	166.4	216.9	233.2
95°	44.9	133.4	232.8	298.8	326.8
97.5°	225.8	274.9	335.7	406.1	436.7
100°	462.3	515.3	456.7	492.3	502.1
102.5°	713.9	728.2	567.4	524.9	520.6
105°	838.9	844.4	747.3	554.1	515.5



TEST NUMBER: P827996

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.8	694.2	696.2	684.0	658.9
115°	582.8	591.8	604.8	609.4	605.9
117.5°	499.5	501.9	516.8	520.6	522.9
120°	414.5	424.4	442.0	441.7	437.4
122.5°	348.7	358.7	372.2	374.3	370.1
125°	287.1	302.8	316.4	317.8	316.2
127.5°	244.5	255.3	269.8	273.0	272.9
130°	213.7	221.1	233.3	237.2	238.1
132.5°	191.1	197.8	205.8	212.2	211.4
135°	173.6	177.8	184.3	189.8	192.2
137.5°	160.3	162.8	167.8	174.1	174.8
140°	147.8	151.1	154.4	159.2	160.8
142.5°	136.1	140.3	142.8	146.8	147.5
145°	127.8	131.9	134.4	136.0	137.6
147.5°	121.1	124.4	126.1	127.8	128.5
150°	115.3	116.9	119.4	120.3	121.1
152.5°	109.4	111.1	113.6	114.4	114.4
155°	104.4	106.8	108.5	109.3	108.6
157.5°	100.2	102.7	104.3	105.2	105.2
160°	96.9	98.5	100.2	101.0	101.0
162.5°	94.3	95.2	96.0	96.8	96.8
165°	91.8	92.7	93.5	93.5	93.5
167.5°	89.3	90.1	90.2	91.0	91.0
170°	86.8	87.7	87.7	87.8	87.8
172.5°	85.2	86.0	86.0	85.2	86.1
175°	83.5	84.3	83.6	83.6	83.6
177.5°	84.2	83.5	82.8	81.9	81.2
180°	82.8	82.8	82.8	82.8	82.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	843.0	857.2	815.3	653.0	552.9
110°	778.8	794.0	775.8	718.6	638.4



(END OF REPORT)