

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: P827696

Luminaire Tested: **OHBL-18HE-MCL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827696
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-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

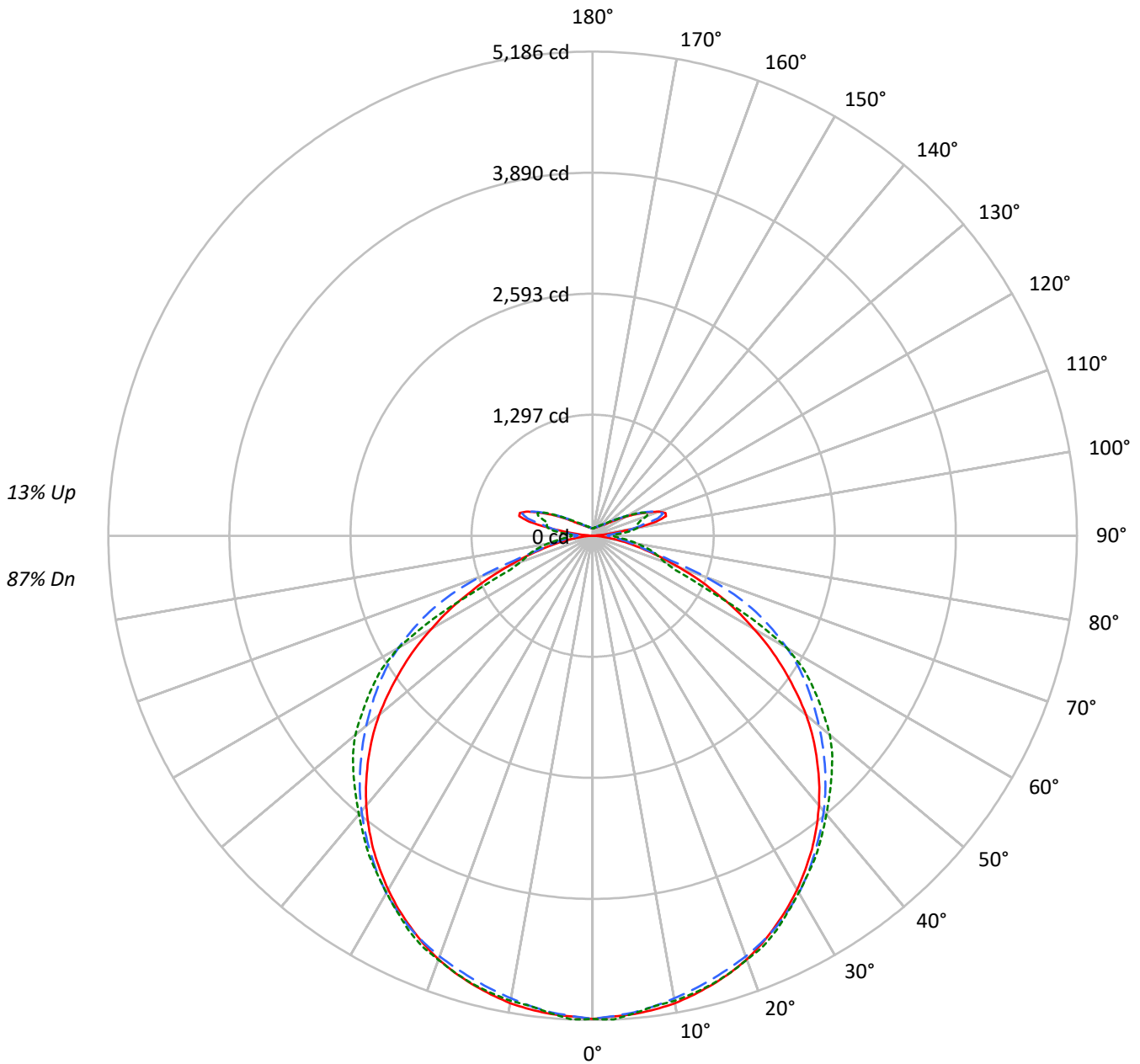
Lumens per Lamp: N/A
Luminaire Lumens: 16583.2 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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

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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°	8839	8839	8839
5°	8738	8707	8766
10°	8664	8571	8705
15°	8566	8468	8684
20°	8468	8402	8646
25°	8321	8335	8610
30°	8163	8233	8489
35°	7981	8072	8445
40°	7757	7906	8372
45°	7465	7714	8375
50°	7085	7496	8376
55°	6518	7280	8142
60°	5797	6968	7618
65°	4885	6393	4904
70°	3840	4980	3633
75°	2776	2948	3808
80°	1817	2439	3838
85°	910	2215	4037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.0	2.9
10°-20°	1399.2	8.4
20°-30°	2137.0	12.9
30°-40°	2593.0	15.6
40°-50°	2717.7	16.4
50°-60°	2462.6	14.9
60°-70°	1651.1	10.0
70°-80°	741.4	4.5
80°-90°	274.0	1.7
90°-100°	268.4	1.6
100°-110°	688.9	4.2
110°-120°	577.3	3.5
120°-130°	278.3	1.7
130°-140°	141.2	0.9
140°-150°	82.5	0.5
150°-160°	48.9	0.3
160°-170°	25.8	0.2
170°-180°	7.9	0.0
0°-30°	4024.2	24.3
0°-40°	6617.2	39.9
0°-60°	11797.5	71.1
0°-90°	14464.0	87.2
90°-120°	1534.5	9.3
90°-150°	2036.6	12.3
90°-180°	2119.0	12.8
0°-180°	16583.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5175	5175	5175	5175	5175	
5°	5141	5159	5123	5139	5132	489
15°	4974	4955	4920	4963	4969	1404
25°	4621	4601	4633	4676	4662	2130
35°	4096	4106	4148	4192	4175	2560
45°	3399	3455	3519	3609	3620	2619
55°	2502	2622	2801	2913	2906	2233
65°	1468	1698	1928	1627	1328	1463
75°	578	838	617	631	672	631
85°	100	191	245	296	310	121
90°	5	91	164	209	222	9
95°	44	129	226	290	317	134
105°	814	819	725	538	500	773
115°	565	574	587	591	588	570
125°	278	294	307	308	307	262
135°	168	172	179	184	186	133
145°	124	128	130	132	134	79
155°	101	104	105	106	105	47
165°	89	90	91	91	91	25
175°	81	82	81	81	81	8
180°	80	80	80	80	80	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5175.0	5175.0	5175.0	5175.0	<i>5175.0</i>
2.5°	<i>5154.0</i>	<i>5175.8</i>	<i>5148.8</i>	<i>5177.9</i>	<i>5185.5</i>
5°	5141.3	5159.3	5123.4	5139.1	<i>5132.4</i>
7.5°	5118.1	5124.1	5081.4	5094.2	<i>5080.7</i>
10°	5083.7	5080.7	5030.6	5055.2	<i>5058.2</i>
12.5°	5032.8	5023.8	4978.9	5016.4	<i>5017.1</i>
15°	4974.4	4955.0	4919.8	4963.2	<i>4969.2</i>
17.5°	4907.1	4881.7	4858.5	4914.6	<i>4905.6</i>
20°	4828.5	4798.6	4794.1	4855.5	<i>4833.0</i>
22.5°	4731.3	4708.1	4718.6	4776.9	<i>4762.7</i>
25°	4621.2	4601.0	4633.2	4675.9	<i>4662.4</i>
27.5°	4505.2	4493.3	4530.0	4562.9	<i>4536.7</i>
30°	4378.1	4371.3	4420.0	4446.9	<i>4414.0</i>
32.5°	4239.6	4241.9	4288.3	4324.9	<i>4294.3</i>
35°	4096.0	4105.7	4147.6	4191.8	<i>4175.3</i>
37.5°	3938.1	3959.8	4001.7	4051.9	<i>4034.6</i>
40°	3771.2	3802.6	3849.0	3909.7	<i>3894.0</i>
42.5°	3590.9	3630.5	3690.4	3757.8	<i>3756.2</i>
45°	3399.4	3454.7	3519.1	3608.9	<i>3620.1</i>
47.5°	3200.3	3262.4	3344.0	3463.7	<i>3480.9</i>
50°	2984.0	3061.9	3163.7	3307.3	<i>3317.8</i>
52.5°	2743.2	2849.4	2984.0	3121.8	<i>3109.0</i>
55°	2501.5	2621.9	2800.7	2913.0	<i>2906.3</i>
57.5°	2260.5	2395.9	2612.9	2693.0	<i>2692.2</i>
60°	1991.1	2162.5	2399.7	2460.2	<i>2400.4</i>
62.5°	1742.0	1926.0	2172.2	2128.0	<i>1923.0</i>
65°	1468.1	1697.8	1927.6	1626.7	<i>1328.2</i>
67.5°	1224.9	1464.4	1637.2	1114.1	<i>954.0</i>
70°	980.2	1244.3	1276.5	826.8	<i>815.6</i>
72.5°	763.2	1044.6	880.7	707.9	<i>743.7</i>
75°	577.6	838.1	616.6	630.8	<i>672.0</i>
77.5°	421.3	643.5	479.7	553.0	<i>586.6</i>
80°	289.5	455.7	391.3	464.6	<i>487.8</i>
82.5°	181.8	300.8	313.6	374.1	<i>398.1</i>
85°	99.5	190.8	244.7	295.5	<i>309.8</i>
87.5°	41.1	115.3	187.0	228.2	<i>240.2</i>
90°	4.8	91.1	164.4	208.7	<i>221.9</i>
92.5°	14.5	85.0	161.4	210.4	<i>226.2</i>
95°	43.6	129.4	225.8	289.8	<i>317.0</i>
97.5°	219.0	266.7	325.6	393.9	<i>423.6</i>
100°	448.5	499.9	443.0	477.5	<i>487.0</i>
102.5°	692.5	706.4	550.4	509.2	<i>505.0</i>
105°	813.7	819.1	724.9	537.5	<i>500.0</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	658.4	673.3	675.4	663.5	639.1
115°	565.3	574.0	586.7	591.1	587.7
117.5°	484.5	486.9	501.2	505.0	507.2
120°	402.1	411.7	428.7	428.4	424.3
122.5°	338.2	347.9	361.0	363.1	359.0
125°	278.5	293.7	306.9	308.3	306.7
127.5°	237.2	247.7	261.7	264.8	264.7
130°	207.3	214.5	226.3	230.1	230.9
132.5°	185.4	191.8	199.7	205.9	205.1
135°	168.4	172.4	178.8	184.1	186.5
137.5°	155.4	157.9	162.7	168.9	169.6
140°	143.3	146.6	149.8	154.4	156.0
142.5°	132.0	136.0	138.5	142.3	143.1
145°	123.9	128.0	130.4	131.9	133.5
147.5°	117.5	120.7	122.3	123.9	124.6
150°	111.8	113.4	115.8	116.6	117.5
152.5°	106.1	107.8	110.2	111.0	111.0
155°	101.3	103.6	105.2	106.1	105.3
157.5°	97.2	99.6	101.2	102.0	102.0
160°	94.0	95.5	97.2	98.0	98.0
162.5°	91.5	92.3	93.1	93.9	93.9
165°	89.1	89.9	90.7	90.7	90.7
167.5°	86.7	87.4	87.5	88.3	88.3
170°	84.2	85.0	85.0	85.1	85.1
172.5°	82.6	83.4	83.4	82.7	83.5
175°	81.0	81.8	81.1	81.1	81.1
177.5°	81.7	81.0	80.3	79.5	78.7
180°	80.3	80.3	80.3	80.3	80.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	817.7	831.5	790.9	633.4	536.3
110°	755.5	770.2	752.6	697.0	619.3



(END OF REPORT)