

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: P828314

Luminaire Tested: **OHBL-18SE-MCL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828314
REPORT IS A COMBINATION OF REPORTS P826234 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-18SE-MCL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

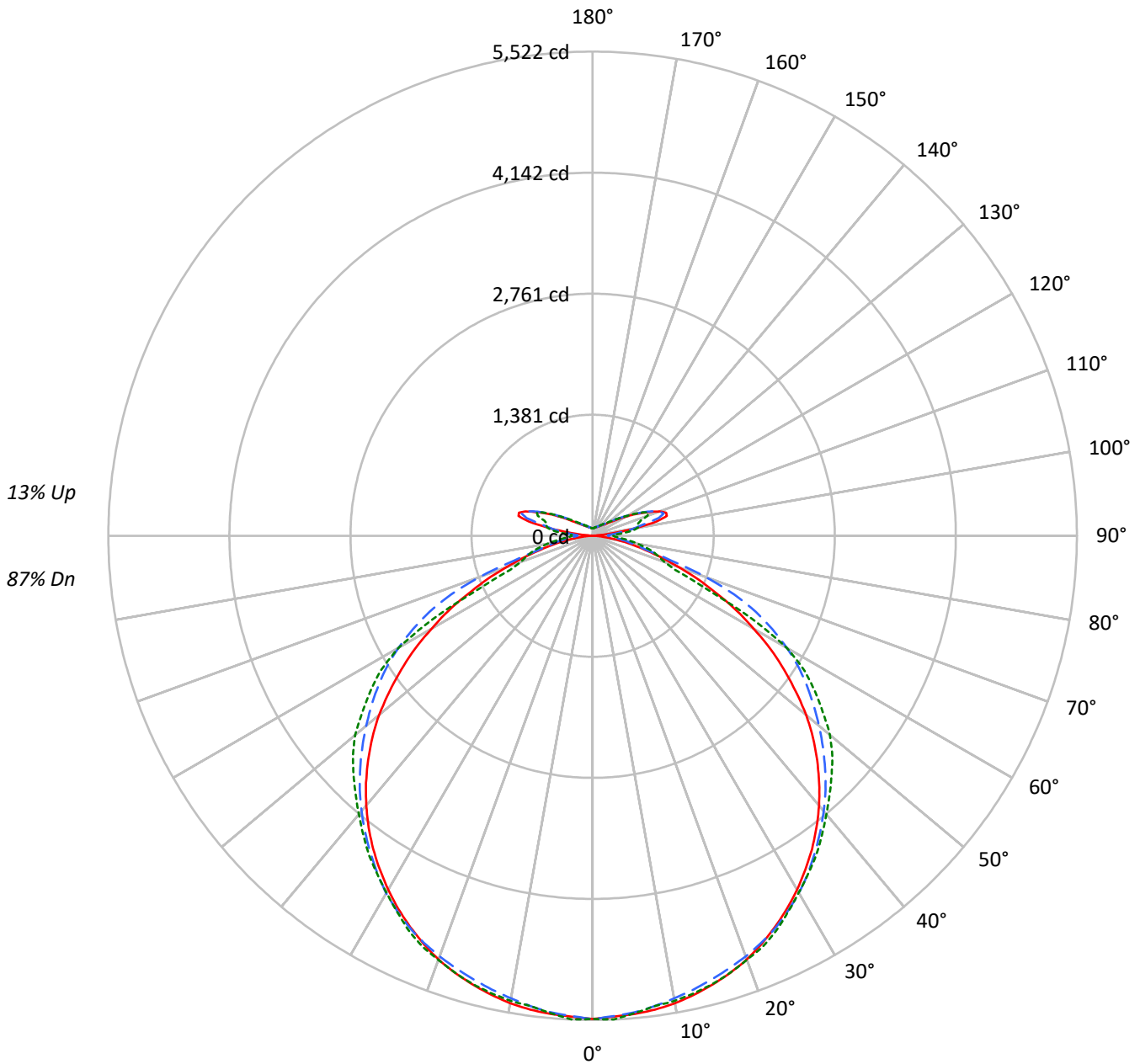
Lumens per Lamp: N/A
Luminaire Lumens: 17680.4 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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									
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	104	104	104	97	97	97	90	90	90	87																			
1	106	102	98	94	102	98	94	91	92	89	86	85	83	81	80	78	76	74																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	62																			
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	55	52																			
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30																			
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9412	9412	9412
5°	9306	9272	9335
10°	9226	9127	9270
15°	9122	9018	9248
20°	9018	8948	9207
25°	8861	8876	9168
30°	8693	8767	9040
35°	8499	8596	8993
40°	8261	8419	8916
45°	7949	8215	8918
50°	7544	7983	8920
55°	6941	7753	8670
60°	6173	7420	8113
65°	5202	6808	5222
70°	4089	5304	3869
75°	2956	3139	4055
80°	1936	2598	4088
85°	969	2359	4299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	2.9
10°-20°	1490.0	8.4
20°-30°	2275.7	12.9
30°-40°	2761.2	15.6
40°-50°	2894.1	16.4
50°-60°	2622.4	14.8
60°-70°	1758.2	9.9
70°-80°	789.5	4.5
80°-90°	291.9	1.7
90°-100°	287.8	1.6
100°-110°	740.5	4.2
110°-120°	620.7	3.5
120°-130°	299.2	1.7
130°-140°	151.8	0.9
140°-150°	88.7	0.5
150°-160°	52.6	0.3
160°-170°	27.7	0.2
170°-180°	8.5	0.0
0°-30°	4285.4	24.2
0°-40°	7046.6	39.9
0°-60°	12563.1	71.1
0°-90°	15402.8	87.1
90°-120°	1649.1	9.3
90°-150°	2188.9	12.4
90°-180°	2278.0	12.9
0°-180°	17680.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5511	5511	5511	5511	5511	
5°	5475	5494	5456	5473	5465	521
15°	5297	5277	5239	5285	5292	1496
25°	4921	4900	4934	4979	4965	2268
35°	4362	4372	4417	4464	4446	2726
45°	3620	3679	3748	3843	3855	2789
55°	2664	2792	2982	3102	3095	2378
65°	1563	1808	2053	1732	1414	1558
75°	615	892	657	672	716	672
85°	106	203	261	315	330	129
90°	5	97	176	223	237	10
95°	47	139	242	311	340	144
105°	875	881	779	578	537	831
115°	608	617	631	636	632	613
125°	299	316	330	331	330	281
135°	181	185	192	198	200	143
145°	133	138	140	142	144	85
155°	109	111	113	114	113	51
165°	96	97	98	98	98	27
175°	87	88	87	87	87	8
180°	86	86	86	86	86	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5510.8	5510.8	5510.8	5510.8	<i>5510.8</i>
2.5°	<i>5488.5</i>	<i>5511.7</i>	<i>5483.0</i>	<i>5514.0</i>	<i>5522.0</i>
5°	5475.0	5494.1	5455.9	5472.6	<i>5465.4</i>
7.5°	5450.3	5456.6	5411.2	5424.8	<i>5410.5</i>
10°	5413.6	5410.5	5357.1	5383.3	<i>5386.6</i>
12.5°	5359.4	5349.9	5302.0	5341.9	<i>5342.7</i>
15°	5297.3	5276.6	5239.1	5285.4	<i>5291.7</i>
17.5°	5225.5	5198.5	5173.8	5233.5	<i>5224.0</i>
20°	5141.9	5110.1	5105.3	5170.6	<i>5146.7</i>
22.5°	5038.3	5013.7	5024.8	5086.9	<i>5071.8</i>
25°	4921.2	4899.7	4933.9	4979.4	<i>4965.0</i>
27.5°	4797.7	4784.9	4823.9	4859.1	<i>4831.2</i>
30°	4662.2	4655.0	4706.8	4735.5	<i>4700.5</i>
32.5°	4514.8	4517.2	4566.6	4605.6	<i>4573.0</i>
35°	4361.8	4372.2	4416.8	4463.8	<i>4446.3</i>
37.5°	4193.7	4216.8	4261.4	4314.8	<i>4296.4</i>
40°	4016.0	4049.4	4098.8	4163.4	<i>4146.6</i>
42.5°	3824.0	3866.2	3930.0	4001.6	<i>4000.1</i>
45°	3619.9	3679.0	3747.5	3843.1	<i>3855.0</i>
47.5°	3408.0	3474.1	3561.0	3688.5	<i>3706.8</i>
50°	3177.7	3260.6	3369.0	3521.9	<i>3533.2</i>
52.5°	2921.2	3034.3	3177.7	3324.3	<i>3310.8</i>
55°	2663.8	2792.0	2982.5	3102.0	<i>3094.9</i>
57.5°	2407.2	2551.5	2782.5	2867.8	<i>2867.0</i>
60°	2120.3	2302.8	2555.4	2620.0	<i>2556.3</i>
62.5°	1855.0	2051.0	2313.2	2266.2	<i>2047.8</i>
65°	1563.3	1808.0	2052.6	1732.3	<i>1414.3</i>
67.5°	1304.4	1559.3	1743.4	1186.4	<i>1015.9</i>
70°	1043.9	1325.1	1359.4	880.5	<i>868.6</i>
72.5°	812.8	1112.4	937.9	753.8	<i>792.1</i>
75°	615.1	892.5	656.6	671.7	<i>715.6</i>
77.5°	448.6	685.3	510.8	588.9	<i>624.7</i>
80°	308.4	485.2	416.7	494.8	<i>519.5</i>
82.5°	193.6	320.3	333.9	398.4	<i>423.9</i>
85°	106.0	203.2	260.6	314.7	<i>329.9</i>
87.5°	43.8	122.7	199.2	243.0	<i>255.8</i>
90°	5.1	97.3	175.5	222.8	<i>236.9</i>
92.5°	15.6	90.9	172.6	224.9	<i>241.8</i>
95°	46.9	138.8	242.0	310.6	<i>339.9</i>
97.5°	235.4	286.5	349.4	422.7	<i>454.6</i>
100°	482.3	537.4	475.8	512.8	<i>523.1</i>
102.5°	744.9	759.6	591.5	547.1	<i>542.4</i>
105°	875.3	880.8	779.2	577.5	<i>537.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	708.1	724.1	726.2	713.3	687.0
115°	608.0	617.3	630.9	635.5	631.8
117.5°	521.1	523.6	539.0	542.9	545.3
120°	432.4	442.7	461.0	460.5	456.2
122.5°	363.7	374.1	388.1	390.4	385.9
125°	299.4	315.9	330.0	331.4	329.7
127.5°	255.0	266.3	281.4	284.7	284.6
130°	222.8	230.6	243.3	247.4	248.2
132.5°	199.3	206.2	214.7	221.4	220.5
135°	181.0	185.4	192.2	198.0	200.5
137.5°	167.1	169.7	174.9	181.5	182.3
140°	154.1	157.5	161.0	166.0	167.6
142.5°	141.9	146.2	148.8	153.0	153.8
145°	133.2	137.5	140.2	141.8	143.5
147.5°	126.2	129.7	131.5	133.2	134.0
150°	120.2	121.9	124.5	125.4	126.2
152.5°	114.1	115.8	118.4	119.3	119.3
155°	108.9	111.4	113.1	114.0	113.2
157.5°	104.5	107.0	108.8	109.6	109.6
160°	101.0	102.7	104.4	105.3	105.3
162.5°	98.3	99.2	100.1	100.9	100.9
165°	95.7	96.6	97.5	97.5	97.5
167.5°	93.1	93.9	94.0	94.9	94.9
170°	90.5	91.4	91.4	91.5	91.5
172.5°	88.8	89.6	89.6	88.9	89.7
175°	87.0	87.9	87.1	87.1	87.1
177.5°	87.8	87.0	86.2	85.4	84.6
180°	86.2	86.2	86.2	86.2	86.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	879.5	894.1	850.2	680.9	576.4
110°	812.5	828.3	809.1	749.3	665.7



(END OF REPORT)