

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: P827957

Luminaire Tested: **OHBL-12SE-MCL-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827957
REPORT IS A COMBINATION OF REPORTS P826054 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-MCL-UNV-L935-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

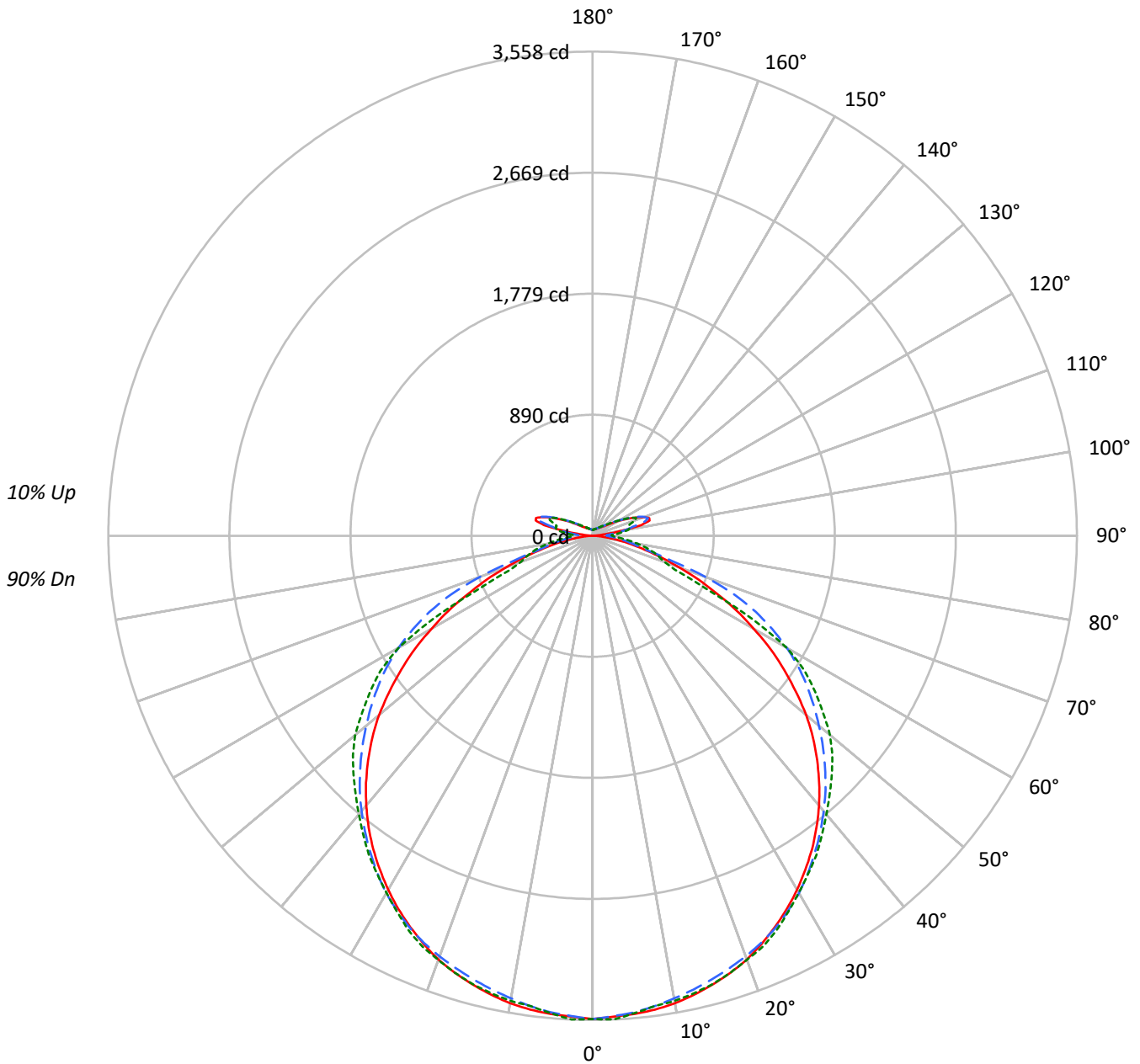
Lumens per Lamp: N/A
Luminaire Lumens: 11074.5 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 78.4
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11553	11553	11553
5°	11332	11317	11457
10°	11149	11079	11378
15°	10938	10886	11350
20°	10727	10741	11300
25°	10454	10593	11253
30°	10167	10398	11096
35°	9849	10127	11038
40°	9475	9846	10943
45°	9015	9529	10946
50°	8446	9173	10947
55°	7653	8813	10641
60°	6684	8323	9957
65°	5506	7510	6409
70°	4200	5723	4749
75°	2912	3285	4977
80°	1789	2592	5018
85°	802	2164	5277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	3.0
10°-20°	960.1	8.7
20°-30°	1466.4	13.2
30°-40°	1779.3	16.1
40°-50°	1864.8	16.8
50°-60°	1689.8	15.3
60°-70°	1132.9	10.2
70°-80°	508.7	4.6
80°-90°	187.3	1.7
90°-100°	154.7	1.4
100°-110°	371.2	3.4
110°-120°	309.4	2.8
120°-130°	149.2	1.3
130°-140°	76.0	0.7
140°-150°	44.7	0.4
150°-160°	26.6	0.2
160°-170°	14.1	0.1
170°-180°	4.3	0.0
0°-30°	2761.4	24.9
0°-40°	4540.6	41.0
0°-60°	8095.2	73.1
0°-90°	9924.2	89.6
90°-120°	835.3	7.5
90°-150°	1105.2	10.0
90°-180°	1150.0	10.4
0°-180°	11074.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3551	3551	3551	3551	3551	
5°	3528	3540	3516	3526	3522	336
15°	3413	3400	3376	3406	3410	964
25°	3171	3157	3179	3208	3199	1462
35°	2811	2817	2846	2876	2865	1757
45°	2333	2371	2415	2476	2484	1797
55°	1716	1799	1922	1999	1994	1532
65°	1007	1165	1323	1116	911	1004
75°	396	575	423	433	461	433
85°	68	131	168	203	213	83
90°	3	59	107	135	143	6
95°	21	76	131	169	186	69
105°	433	438	393	293	274	410
115°	304	306	316	317	313	304
125°	150	157	165	165	166	140
135°	90	93	96	100	100	71
145°	67	69	70	72	73	43
155°	55	56	57	58	58	26
165°	49	49	50	50	50	14
175°	45	45	44	44	44	4
180°	44	44	44	44	44	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3551.0	3551.0	3551.0	3551.0	<i>3551.0</i>
2.5°	<i>3536.6</i>	<i>3551.5</i>	<i>3533.0</i>	<i>3553.0</i>	<i>3558.2</i>
5°	3527.9	3540.2	3515.6	3526.3	<i>3521.8</i>
7.5°	3512.0	3516.1	3486.8	3495.5	<i>3486.2</i>
10°	3488.3	3486.2	3451.9	3468.8	<i>3470.9</i>
12.5°	3453.4	3447.2	3416.5	3442.2	<i>3442.7</i>
15°	3413.4	3400.0	3375.9	3405.7	<i>3409.8</i>
17.5°	3367.2	3349.8	3333.8	3372.3	<i>3366.2</i>
20°	3313.2	3292.8	3289.7	3331.8	<i>3316.3</i>
22.5°	3246.5	3230.6	3237.8	3277.8	<i>3268.1</i>
25°	3171.0	3157.2	3179.2	3208.5	<i>3199.2</i>
27.5°	3091.4	3083.2	3108.4	3131.0	<i>3113.0</i>
30°	3004.2	2999.6	3032.9	3051.4	<i>3028.8</i>
32.5°	2909.2	2910.8	2942.6	2967.8	<i>2946.7</i>
35°	2810.6	2817.2	2846.0	2876.3	<i>2865.0</i>
37.5°	2702.2	2717.2	2745.9	2780.3	<i>2768.5</i>
40°	2587.8	2609.3	2641.2	2682.8	<i>2672.0</i>
42.5°	2464.0	2491.2	2532.3	2578.5	<i>2577.5</i>
45°	2332.6	2370.6	2414.8	2476.3	<i>2484.1</i>
47.5°	2196.0	2238.6	2294.6	2376.8	<i>2388.6</i>
50°	2047.6	2101.0	2170.8	2269.4	<i>2276.6</i>
52.5°	1882.2	1955.2	2047.6	2142.1	<i>2133.3</i>
55°	1716.4	1799.1	1921.8	1998.8	<i>1994.2</i>
57.5°	1551.1	1644.1	1792.9	1847.9	<i>1847.3</i>
60°	1366.2	1483.8	1646.6	1688.2	<i>1647.2</i>
62.5°	1195.3	1321.6	1490.5	1460.2	<i>1319.6</i>
65°	1007.4	1165.0	1322.7	1116.2	<i>911.3</i>
67.5°	840.5	1004.8	1123.4	764.5	<i>654.7</i>
70°	672.6	853.8	875.9	567.3	<i>559.7</i>
72.5°	523.8	716.8	604.3	485.8	<i>510.3</i>
75°	396.4	575.1	423.1	432.8	<i>461.1</i>
77.5°	289.1	441.6	329.1	379.4	<i>402.5</i>
80°	198.7	312.7	268.5	318.8	<i>334.8</i>
82.5°	124.8	206.4	215.2	256.8	<i>273.2</i>
85°	68.3	130.9	167.9	202.8	<i>212.6</i>
87.5°	28.2	79.1	128.3	156.6	<i>164.8</i>
90°	3.0	58.7	106.8	134.7	<i>143.2</i>
92.5°	8.0	52.5	102.5	132.8	<i>140.6</i>
95°	21.3	75.6	131.2	169.1	<i>186.1</i>
97.5°	113.5	144.1	188.2	223.4	<i>233.8</i>
100°	231.5	265.5	247.4	265.3	<i>271.0</i>
102.5°	367.9	375.2	298.2	280.4	<i>277.8</i>
105°	432.9	437.7	392.6	292.9	<i>273.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	351.9	358.0	365.8	357.1	343.9
115°	304.1	306.2	315.8	317.3	313.3
117.5°	255.8	260.2	270.3	270.9	270.2
120°	214.9	220.4	228.8	228.0	228.6
122.5°	181.6	185.8	193.9	194.0	195.3
125°	150.3	156.6	165.1	164.9	166.3
127.5°	126.6	131.6	141.6	142.2	142.8
130°	110.8	114.6	121.3	124.2	124.2
132.5°	99.6	102.7	107.5	110.4	111.2
135°	89.6	92.7	96.5	99.9	100.4
137.5°	83.5	85.2	87.7	91.0	92.4
140°	76.8	79.3	80.4	83.3	83.8
142.5°	71.2	73.5	74.6	77.0	78.3
145°	67.1	69.3	70.2	71.5	72.8
147.5°	63.5	65.2	66.8	66.8	68.2
150°	61.0	61.8	62.7	63.5	63.5
152.5°	57.7	58.5	59.3	60.2	60.2
155°	55.2	56.5	57.3	58.2	57.7
157.5°	52.7	54.8	54.8	55.7	55.7
160°	51.0	52.3	53.2	53.2	53.2
162.5°	49.8	50.7	50.7	51.5	51.5
165°	49.0	49.0	49.8	49.8	49.8
167.5°	47.3	47.8	48.2	48.2	48.2
170°	46.5	46.5	46.5	46.8	46.8
172.5°	45.7	45.7	45.7	45.2	45.2
175°	44.8	44.8	44.3	43.8	43.8
177.5°	44.5	44.8	44.3	43.8	43.2
180°	43.5	43.5	43.5	43.5	43.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	435.9	444.8	426.0	341.2	288.8
110°	399.8	410.8	405.2	375.7	334.2



(END OF REPORT)