

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: P#

Luminaire Tested: **4ILED-LD5-11-W-FLWG-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-11-W-FLWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

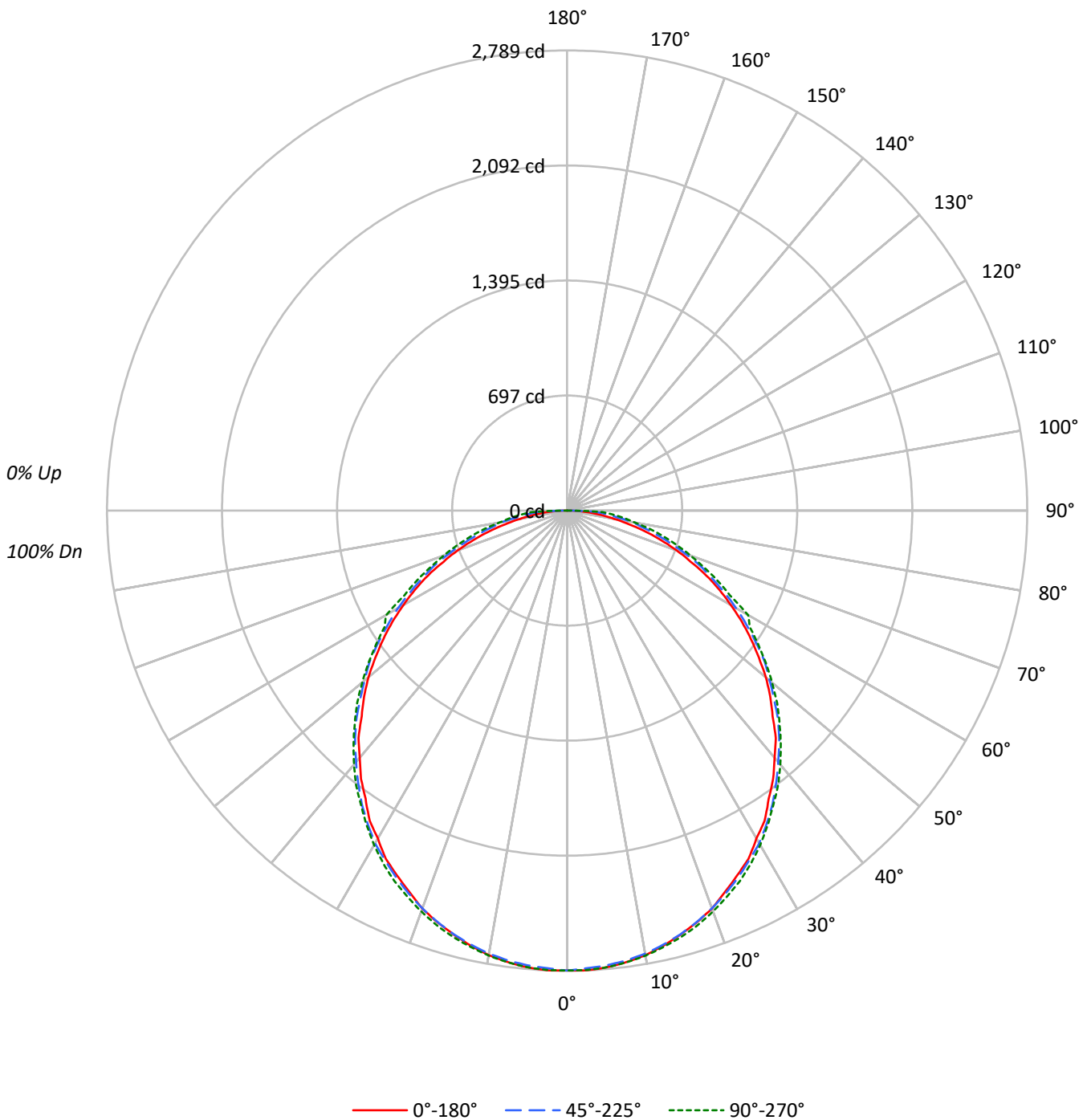
Lumens per Lamp: N/A
Luminaire Lumens: 7927.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8183	8183	8183
5°	8170	8084	8110
10°	8119	7994	8010
15°	8029	7879	7899
20°	7947	7747	7768
25°	7810	7609	7636
30°	7668	7482	7463
35°	7504	7293	7250
40°	7340	7066	7053
45°	7133	6862	6814
50°	6973	6577	6552
55°	6726	6307	6256
60°	6453	5966	6256
65°	6136	5583	5667
70°	5679	5178	5242
75°	5111	4676	4866
80°	4323	4396	4336
85°	3505	3736	4127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	3.3
10°-20°	751.8	9.5
20°-30°	1132.1	14.3
30°-40°	1353.9	17.1
40°-50°	1390.4	17.5
50°-60°	1248.7	15.8
60°-70°	960.8	12.1
70°-80°	592.2	7.5
80°-90°	233.5	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2147.4	27.1
0°-40°	3501.4	44.2
0°-60°	6140.5	77.5
0°-90°	7927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2788	2788	2788	2788	2788	
5°	2778	2777	2766	2777	2778	264
15°	2660	2664	2658	2669	2675	751
25°	2439	2442	2453	2471	2477	1125
35°	2130	2161	2170	2178	2178	1336
45°	1761	1788	1810	1817	1820	1364
55°	1361	1379	1399	1414	1413	1217
65°	931	940	967	1001	1007	918
75°	493	519	558	595	604	521
85°	134	178	231	265	275	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2787.5	2787.5	2787.5	2787.5	2787.5
2.5°	2789.0	2787.5	2776.8	2784.4	2787.5
5°	2778.4	2776.8	2766.2	2776.8	2778.4
7.5°	2760.1	2760.1	2749.5	2760.1	2761.6
10°	2735.8	2735.8	2726.7	2735.8	2738.8
12.5°	2700.8	2703.8	2694.7	2705.4	2708.4
15°	2659.7	2664.3	2658.2	2668.9	2674.9
17.5°	2615.6	2617.2	2614.1	2627.8	2633.9
20°	2567.0	2565.5	2565.5	2583.7	2585.2
22.5°	2501.6	2509.2	2510.7	2530.5	2532.0
25°	2439.2	2442.3	2452.9	2471.2	2477.3
27.5°	2379.9	2378.4	2389.1	2405.8	2411.9
30°	2294.8	2310.0	2328.2	2334.3	2340.4
32.5°	2227.9	2232.4	2250.7	2256.8	2261.3
35°	2130.5	2160.9	2170.1	2177.7	2177.7
37.5°	2051.5	2068.2	2080.3	2094.0	2100.1
40°	1955.6	1976.9	1990.6	2004.3	2008.9
42.5°	1872.0	1885.7	1902.4	1913.1	1916.1
45°	1761.0	1788.4	1809.7	1817.3	1820.3
47.5°	1669.8	1700.2	1703.2	1721.5	1726.0
50°	1572.4	1595.2	1602.8	1624.1	1621.1
52.5°	1464.5	1491.8	1510.1	1516.2	1517.7
55°	1361.0	1379.3	1399.1	1414.3	1412.8
57.5°	1256.1	1271.3	1288.1	1310.9	1312.4
60°	1146.6	1164.9	1183.1	1205.9	1266.8
62.5°	1040.2	1050.8	1072.1	1116.2	1111.6
65°	930.7	939.8	967.2	1000.6	1006.7
67.5°	812.1	830.3	871.4	892.7	895.7
70°	707.1	723.9	760.4	787.7	793.8
72.5°	596.1	615.9	655.4	690.4	699.5
75°	492.7	518.6	558.1	594.6	603.7
77.5°	386.3	419.7	466.9	555.1	512.5
80°	292.0	330.0	399.9	410.6	415.2
82.5°	208.3	249.4	299.6	336.1	348.2
85°	133.8	177.9	231.1	264.6	275.3
87.5°	74.5	117.1	173.4	206.8	215.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)