

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-L850-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-L850-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

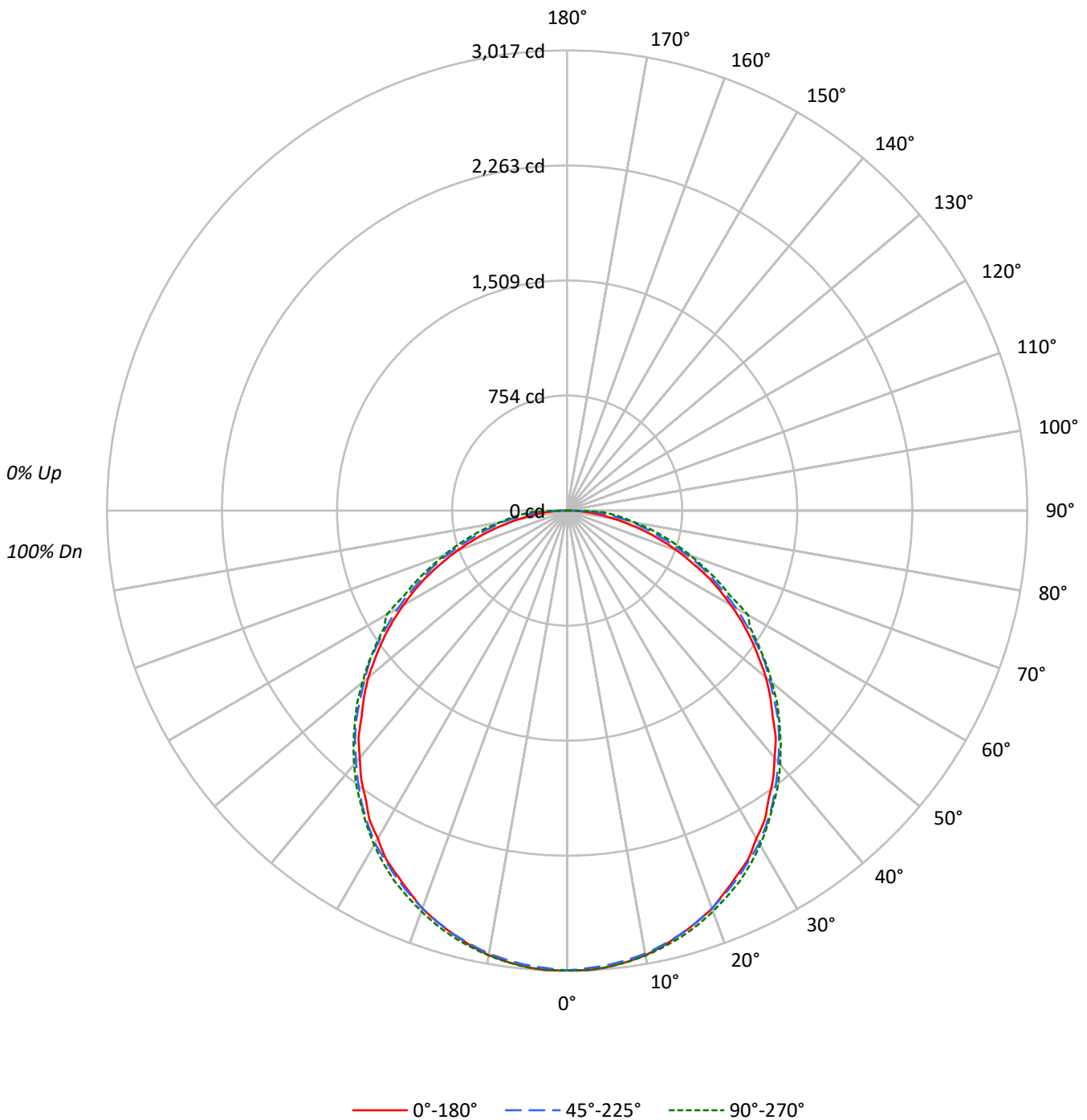
Lumens per Lamp: N/A
Luminaire Lumens: 8574.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	8851	8851	8851
5°	8836	8744	8772
10°	8782	8647	8664
15°	8685	8522	8543
20°	8596	8379	8402
25°	8447	8230	8259
30°	8294	8093	8072
35°	8116	7888	7842
40°	7940	7643	7628
45°	7715	7423	7370
50°	7543	7114	7086
55°	7275	6821	6767
60°	6979	6454	6766
65°	6636	6039	6130
70°	6143	5600	5670
75°	5529	5058	5264
80°	4676	4756	4689
85°	3791	4041	4463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	3.3
10°-20°	813.1	9.5
20°-30°	1224.5	14.3
30°-40°	1464.4	17.1
40°-50°	1503.9	17.5
50°-60°	1350.6	15.8
60°-70°	1039.2	12.1
70°-80°	640.5	7.5
80°-90°	252.6	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°	2322.7	27.1
0°-40°	3787.1	44.2
0°-60°	6641.6	77.5
0°-90°	8574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3015	3015	3015	3015	3015	
5°	3005	3004	2992	3004	3005	285
15°	2877	2882	2875	2887	2893	812
25°	2638	2642	2653	2673	2679	1217
35°	2304	2337	2347	2355	2355	1445
45°	1905	1934	1957	1966	1969	1475
55°	1472	1492	1513	1530	1528	1316
65°	1007	1016	1046	1082	1089	993
75°	533	561	604	643	653	563
85°	145	192	250	286	298	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3015.0	3015.0	3015.0	3015.0	3015.0
2.5°	3016.6	3015.0	3003.5	3011.7	3015.0
5°	3005.1	3003.5	2992.0	3003.5	3005.1
7.5°	2985.4	2985.4	2973.9	2985.4	2987.0
10°	2959.1	2959.1	2949.2	2959.1	2962.4
12.5°	2921.2	2924.5	2914.7	2926.2	2929.5
15°	2876.8	2881.8	2875.2	2886.7	2893.3
17.5°	2829.1	2830.8	2827.5	2842.3	2848.9
20°	2776.5	2774.8	2774.8	2794.6	2796.2
22.5°	2705.8	2714.0	2715.6	2737.0	2738.7
25°	2638.3	2641.6	2653.1	2672.9	2679.4
27.5°	2574.2	2572.5	2584.0	2602.1	2608.7
30°	2482.1	2498.5	2518.3	2524.8	2531.4
32.5°	2409.7	2414.6	2434.4	2440.9	2445.9
35°	2304.4	2337.3	2347.2	2355.4	2355.4
37.5°	2218.9	2237.0	2250.1	2264.9	2271.5
40°	2115.3	2138.3	2153.1	2167.9	2172.8
42.5°	2024.8	2039.6	2057.7	2069.2	2072.5
45°	1904.7	1934.3	1957.4	1965.6	1968.9
47.5°	1806.0	1838.9	1842.2	1862.0	1866.9
50°	1700.8	1725.4	1733.7	1756.7	1753.4
52.5°	1584.0	1613.6	1633.3	1639.9	1641.6
55°	1472.1	1491.9	1513.3	1529.7	1528.1
57.5°	1358.6	1375.1	1393.2	1417.9	1419.5
60°	1240.2	1259.9	1279.7	1304.4	1370.2
62.5°	1125.1	1136.6	1159.6	1207.3	1202.4
65°	1006.6	1016.5	1046.1	1082.3	1088.9
67.5°	878.3	898.1	942.5	965.5	968.8
70°	764.9	782.9	822.4	852.0	858.6
72.5°	644.8	666.2	708.9	746.8	756.6
75°	532.9	560.9	603.7	643.1	653.0
77.5°	417.8	454.0	505.0	600.4	554.3
80°	315.8	356.9	432.6	444.1	449.0
82.5°	225.3	269.8	324.0	363.5	376.7
85°	144.7	192.4	250.0	286.2	297.7
87.5°	80.6	126.7	187.5	223.7	233.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)