

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-L835-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-L835-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

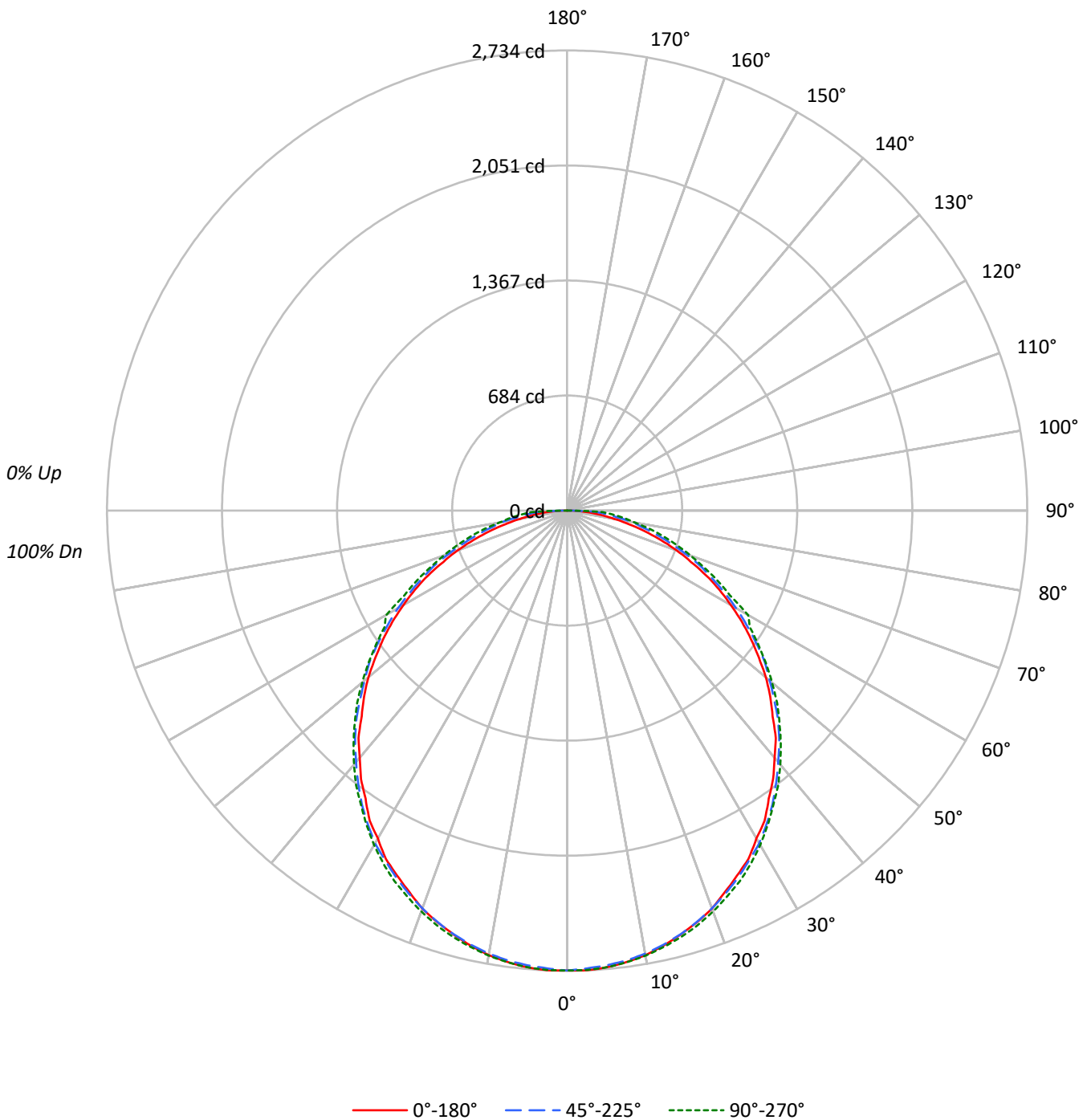
Lumens per Lamp: N/A
Luminaire Lumens: 7771.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	8022	8022	8022
5°	8009	7925	7950
10°	7959	7837	7852
15°	7872	7724	7743
20°	7791	7595	7615
25°	7656	7459	7485
30°	7517	7335	7316
35°	7356	7149	7108
40°	7196	6927	6914
45°	6992	6727	6680
50°	6836	6448	6423
55°	6594	6182	6133
60°	6326	5849	6132
65°	6015	5473	5556
70°	5567	5076	5139
75°	5011	4583	4770
80°	4238	4311	4251
85°	3437	3663	4044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.3
10°-20°	737.0	9.5
20°-30°	1109.8	14.3
30°-40°	1327.3	17.1
40°-50°	1363.1	17.5
50°-60°	1224.1	15.8
60°-70°	941.9	12.1
70°-80°	580.5	7.5
80°-90°	229.0	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°	2105.2	27.1
0°-40°	3432.4	44.2
0°-60°	6019.6	77.5
0°-90°	7771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2733	2733	2733	2733	2733	
5°	2724	2722	2712	2722	2724	259
15°	2607	2612	2606	2616	2622	736
25°	2391	2394	2405	2422	2428	1103
35°	2089	2118	2127	2135	2135	1310
45°	1726	1753	1774	1782	1784	1337
55°	1334	1352	1372	1386	1385	1193
65°	912	921	948	981	987	900
75°	483	508	547	583	592	510
85°	131	174	227	259	270	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2732.6	2732.6	2732.6	2732.6	2732.6
2.5°	2734.1	2732.6	2722.2	2729.6	2732.6
5°	2723.7	2722.2	2711.8	2722.2	2723.7
7.5°	2705.8	2705.8	2695.4	2705.8	2707.3
10°	2681.9	2681.9	2673.0	2681.9	2684.9
12.5°	2647.7	2650.6	2641.7	2652.1	2655.1
15°	2607.4	2611.9	2605.9	2616.3	2622.3
17.5°	2564.2	2565.7	2562.7	2576.1	2582.1
20°	2516.5	2515.0	2515.0	2532.9	2534.4
22.5°	2452.4	2459.8	2461.3	2480.7	2482.2
25°	2391.2	2394.2	2404.7	2422.5	2428.5
27.5°	2333.1	2331.6	2342.0	2358.4	2364.4
30°	2249.6	2264.5	2282.4	2288.4	2294.3
32.5°	2184.0	2188.5	2206.4	2212.3	2216.8
35°	2088.6	2118.4	2127.4	2134.8	2134.8
37.5°	2011.1	2027.5	2039.4	2052.8	2058.8
40°	1917.2	1938.0	1951.4	1964.9	1969.3
42.5°	1835.2	1848.6	1865.0	1875.4	1878.4
45°	1726.3	1753.2	1774.0	1781.5	1784.5
47.5°	1636.9	1666.7	1669.7	1687.6	1692.1
50°	1541.5	1563.8	1571.3	1592.2	1589.2
52.5°	1435.6	1462.5	1480.4	1486.3	1487.8
55°	1334.3	1352.2	1371.5	1386.4	1384.9
57.5°	1231.4	1246.3	1262.7	1285.1	1286.6
60°	1124.1	1141.9	1159.8	1182.2	1241.8
62.5°	1019.7	1030.1	1051.0	1094.2	1089.8
65°	912.4	921.3	948.1	980.9	986.9
67.5°	796.1	814.0	854.2	875.1	878.1
70°	693.2	709.6	745.4	772.2	778.2
72.5°	584.4	603.8	642.5	676.8	685.8
75°	483.0	508.4	547.1	582.9	591.8
77.5°	378.7	411.5	457.7	544.1	502.4
80°	286.2	323.5	392.1	402.5	407.0
82.5°	204.2	244.5	293.7	329.5	341.4
85°	131.2	174.4	226.6	259.4	269.8
87.5°	73.0	114.8	170.0	202.7	211.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)