

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-FL-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 (P34181)
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-FL-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

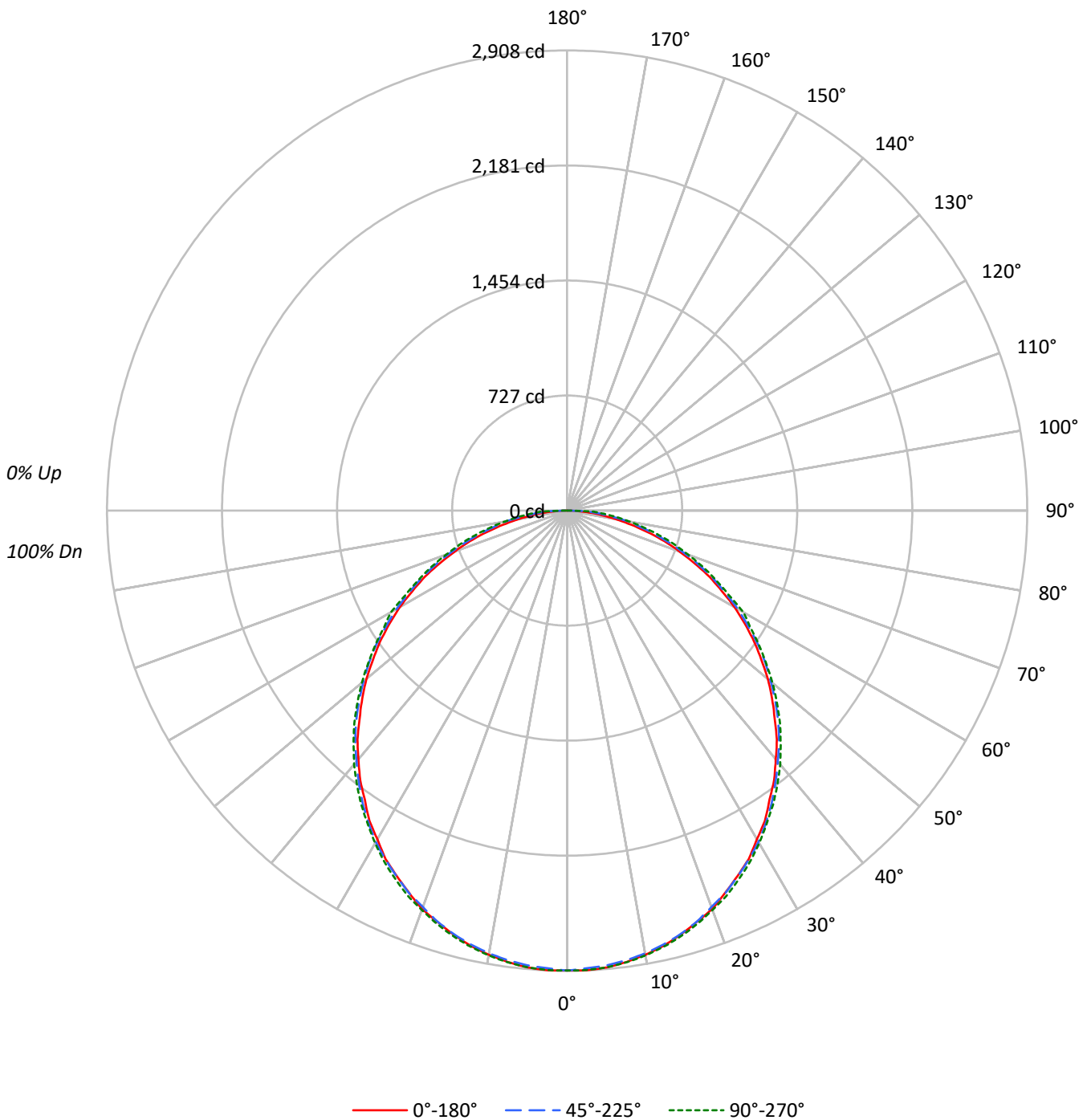
Lumens per Lamp: N/A
Luminaire Lumens: 8230.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49				49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43				43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8533	8533	8533
5°	8520	8429	8454
10°	8458	8329	8348
15°	8374	8213	8222
20°	8297	8053	8071
25°	8156	7911	7921
30°	8014	7770	7743
35°	7854	7574	7553
40°	7698	7349	7352
45°	7511	7150	7120
50°	7344	6893	6850
55°	7130	6632	6554
60°	6870	6284	6352
65°	6545	5885	5831
70°	6057	5369	5365
75°	5459	4795	4842
80°	4679	4260	4188
85°	3709	3157	3485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	3.3
10°-20°	783.1	9.5
20°-30°	1178.3	14.3
30°-40°	1409.7	17.1
40°-50°	1452.8	17.7
50°-60°	1309.8	15.9
60°-70°	1006.0	12.2
70°-80°	605.7	7.4
80°-90°	210.0	2.6
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°	2236.1	27.2
0°-40°	3645.9	44.3
0°-60°	6408.4	77.9
0°-90°	8230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2907	2907	2907	2907	2907	
5°	2898	2895	2884	2895	2896	275
15°	2774	2777	2771	2783	2784	783
25°	2547	2549	2550	2565	2570	1175
35°	2230	2252	2254	2267	2269	1398
45°	1854	1871	1886	1900	1902	1433
55°	1443	1455	1471	1480	1480	1288
65°	993	996	1020	1032	1036	978
75°	526	541	572	593	601	559
85°	142	164	195	222	232	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2906.6	2906.6	2906.6	2906.6	2906.6
2.5°	2908.1	2906.6	2894.7	2903.6	2906.6
5°	2897.7	2894.7	2884.2	2894.7	2896.2
7.5°	2876.8	2875.3	2866.4	2876.8	2879.8
10°	2850.0	2850.0	2841.0	2851.4	2854.4
12.5°	2817.2	2815.7	2808.2	2820.1	2823.1
15°	2773.9	2776.9	2771.0	2782.9	2784.4
17.5°	2726.2	2727.7	2723.3	2733.7	2738.2
20°	2680.0	2672.6	2666.6	2684.5	2686.0
22.5°	2613.0	2615.9	2614.4	2630.8	2633.8
25°	2547.4	2548.9	2550.4	2565.3	2569.7
27.5°	2483.3	2481.8	2486.3	2498.2	2502.7
30°	2398.3	2410.2	2417.7	2426.6	2428.1
32.5°	2325.3	2329.7	2338.7	2344.7	2346.1
35°	2229.9	2252.2	2253.7	2267.1	2268.6
37.5°	2147.9	2155.4	2162.8	2179.2	2182.2
40°	2051.0	2061.4	2070.4	2085.3	2094.2
42.5°	1961.6	1973.5	1982.4	1995.9	1997.4
45°	1854.3	1870.7	1885.6	1900.5	1902.0
47.5°	1755.9	1772.3	1784.2	1796.1	1797.6
50°	1656.0	1669.4	1679.9	1694.8	1694.8
52.5°	1545.7	1562.1	1578.5	1584.5	1584.5
55°	1442.9	1454.8	1471.2	1480.1	1480.1
57.5°	1331.1	1337.0	1354.9	1371.3	1371.3
60°	1220.8	1228.2	1246.1	1258.0	1286.4
62.5°	1103.0	1114.9	1126.9	1165.6	1149.2
65°	992.7	995.7	1019.5	1031.5	1035.9
67.5°	870.5	880.9	904.8	918.2	927.1
70°	754.2	767.6	788.5	804.9	812.4
72.5°	643.9	649.9	676.7	699.1	709.5
75°	526.2	541.1	572.4	593.2	600.7
77.5°	414.4	438.2	468.0	541.1	499.3
80°	316.0	333.9	387.5	390.5	401.0
82.5°	220.6	241.5	277.2	301.1	313.0
85°	141.6	164.0	195.3	222.1	232.5
87.5°	65.6	89.4	129.7	159.5	168.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)