

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-LD5-7-W-CLWG-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 (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-7-W-CLWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

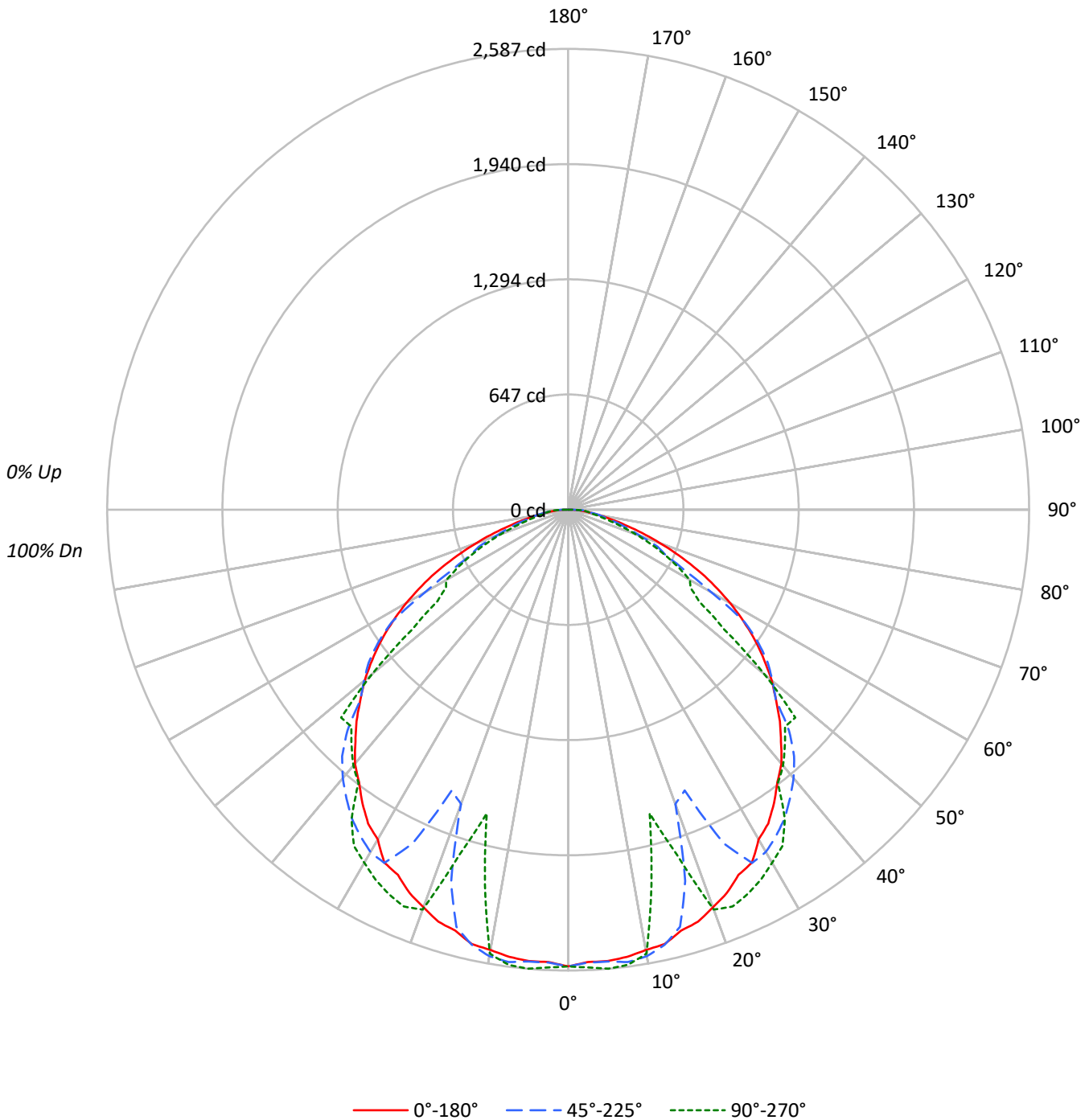
Lumens per Lamp: N/A
Luminaire Lumens: 6638.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (Ain): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7525	7525	7525
5°	7479	7439	7550
10°	7448	7463	7401
15°	7386	7185	5210
20°	7352	5309	7176
25°	7242	6412	7339
30°	7143	7131	7297
35°	7087	7113	7057
40°	6987	6986	6587
45°	6805	6643	6439
50°	6610	6137	5819
55°	6334	5873	3963
60°	5908	4688	3899
65°	5288	3480	3358
70°	4402	2957	2666
75°	3412	2358	1963
80°	2544	1993	1497
85°	2182	1670	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	3.7
10°-20°	645.1	9.7
20°-30°	1028.6	15.5
30°-40°	1234.5	18.6
40°-50°	1312.9	19.8
50°-60°	1074.1	16.2
60°-70°	681.0	10.3
70°-80°	314.6	4.7
80°-90°	103.8	1.6
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°	1917.0	28.9
0°-40°	3151.5	47.5
0°-60°	5538.6	83.4
0°-90°	6638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2563	2563	2563	2563	2563	
5°	2543	2544	2546	2566	2587	242
15°	2446	2484	2424	1910	1764	693
25°	2262	2268	2067	2360	2381	1048
35°	2012	1508	2116	2157	2120	1257
45°	1680	1688	1752	1709	1720	1294
55°	1282	1349	1303	1010	895	1141
65°	802	816	603	607	597	791
75°	329	312	281	260	244	360
85°	83	91	103	103	100	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2563.4	2563.4	2563.4	2563.4	2563.4
2.5°	2541.3	2545.5	2544.4	2563.4	2571.8
5°	2543.4	2544.4	2545.5	2565.5	2586.6
7.5°	2531.8	2553.9	2561.3	2553.9	2576.1
10°	2509.7	2529.7	2545.5	2523.4	2530.7
12.5°	2498.1	2527.6	2501.2	2392.7	2156.6
15°	2446.4	2484.4	2424.3	1909.9	1764.5
17.5°	2425.3	2450.6	2185.0	1756.0	2031.1
20°	2374.7	2409.5	1758.1	2257.7	2388.4
22.5°	2328.4	2353.7	1706.5	2374.7	2411.6
25°	2262.0	2268.3	2067.0	2360.0	2381.1
27.5°	2233.5	2138.6	2235.6	2329.4	2341.0
30°	2137.6	1942.6	2218.7	2287.3	2288.3
32.5°	2089.1	1691.7	2171.3	2226.1	2237.7
35°	2012.2	1508.3	2116.5	2156.6	2119.7
37.5°	1927.8	1482.0	2043.8	2022.7	1933.1
40°	1861.4	1616.9	1967.9	1837.2	1876.2
42.5°	1767.6	1699.1	1877.2	1791.9	1799.2
45°	1680.1	1687.5	1751.8	1708.6	1720.2
47.5°	1581.1	1629.5	1580.0	1636.9	1728.6
50°	1490.4	1542.1	1495.7	1589.5	1439.8
52.5°	1387.1	1451.4	1412.4	1278.5	1104.6
55°	1281.7	1349.2	1302.8	1009.8	894.9
57.5°	1166.8	1222.7	1174.2	827.4	812.7
60°	1049.8	1094.1	929.7	753.6	789.5
62.5°	926.5	953.9	733.6	694.6	692.5
65°	802.1	815.8	602.9	607.1	596.6
67.5°	672.5	678.8	542.8	514.4	498.6
70°	548.1	543.9	434.3	418.5	403.7
72.5°	434.3	414.2	353.1	332.0	314.1
75°	328.9	312.0	281.4	260.3	243.5
77.5°	244.5	235.1	220.3	222.4	186.6
80°	171.8	172.9	181.3	153.9	143.3
82.5°	119.1	125.4	129.6	127.5	124.4
85°	83.3	90.6	103.3	103.3	100.1
87.5°	42.2	62.2	83.3	88.5	86.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)