

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-CL-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 (P34177)
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-CL-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

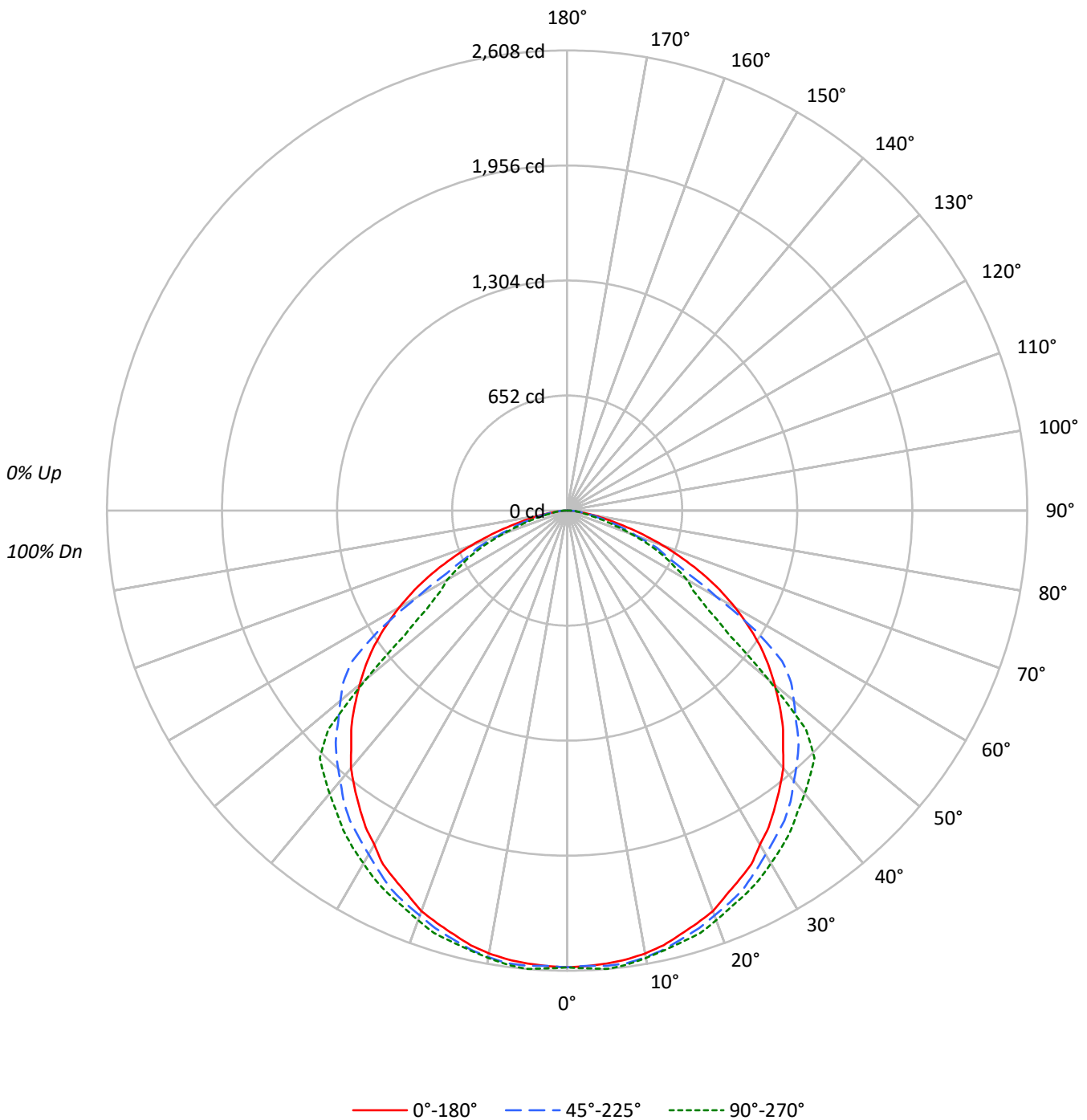
Lumens per Lamp: N/A
Luminaire Lumens: 7010.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7599	7599	7599
5°	7577	7568	7611
10°	7563	7534	7530
15°	7506	7447	7469
20°	7479	7374	7423
25°	7390	7336	7391
30°	7304	7232	7364
35°	7228	7212	7362
40°	7153	7097	7352
45°	7005	7034	7421
50°	6806	6885	6002
55°	6589	6703	4294
60°	6186	4943	3877
65°	5566	3620	3370
70°	4639	2835	2533
75°	3401	2093	1690
80°	2169	1460	1057
85°	1077	870	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	3.5
10°-20°	711.2	10.1
20°-30°	1088.8	15.5
30°-40°	1340.2	19.1
40°-50°	1420.5	20.3
50°-60°	1140.8	16.3
60°-70°	709.0	10.1
70°-80°	291.8	4.2
80°-90°	61.1	0.9
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°	2046.6	29.2
0°-40°	3386.8	48.3
0°-60°	5948.1	84.9
0°-90°	7010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2577	2583	2590	2603	2608	245
15°	2486	2521	2513	2530	2530	703
25°	2308	2332	2365	2391	2398	1065
35°	2052	2103	2146	2200	2211	1285
45°	1730	1768	1855	1944	1982	1330
55°	1333	1392	1487	1061	970	1187
65°	844	904	627	596	599	832
75°	328	301	250	223	210	359
85°	41	51	54	54	53	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2588.5	2588.5	2588.5	2588.5	2588.5
2.5°	2584.3	2587.5	2582.2	2593.8	2597.0
5°	2576.9	2583.3	2589.6	2603.3	2607.5
7.5°	2566.4	2580.1	2587.5	2595.9	2595.9
10°	2548.5	2569.6	2569.6	2572.7	2574.8
12.5°	2523.2	2551.6	2546.4	2548.5	2551.6
15°	2486.3	2521.1	2512.6	2529.5	2529.5
17.5°	2451.5	2481.0	2482.1	2503.2	2510.5
20°	2415.7	2439.9	2442.0	2472.6	2470.5
22.5°	2357.7	2394.6	2405.1	2422.0	2430.4
25°	2308.2	2332.4	2365.1	2391.4	2397.8
27.5°	2260.7	2280.8	2307.1	2352.4	2357.7
30°	2185.9	2228.1	2250.2	2310.3	2309.2
32.5°	2126.9	2164.8	2196.5	2254.4	2262.9
35°	2052.1	2102.7	2145.9	2199.6	2211.2
37.5°	1979.3	2025.7	2079.5	2132.2	2148.0
40°	1905.6	1947.7	1999.4	2062.6	2094.2
42.5°	1810.7	1862.3	1929.8	2002.5	2038.4
45°	1729.5	1767.5	1855.0	1943.5	1982.5
47.5°	1631.5	1681.1	1758.0	1870.8	1834.9
50°	1534.6	1591.5	1677.9	1694.8	1485.0
52.5°	1438.7	1495.6	1599.9	1340.6	1161.5
55°	1333.3	1392.3	1487.1	1061.3	969.6
57.5°	1218.4	1274.2	1265.8	881.1	849.5
60°	1099.3	1154.1	980.2	771.5	785.2
62.5°	976.0	1035.0	769.4	705.1	684.0
65°	844.2	904.3	627.1	595.5	598.6
67.5°	707.2	757.8	550.2	508.0	497.5
70°	577.6	592.3	416.3	404.7	383.6
72.5°	447.9	429.0	330.9	305.6	283.5
75°	327.8	301.4	249.8	223.4	209.7
77.5°	227.7	208.7	180.2	189.7	140.2
80°	146.5	136.0	132.8	105.4	101.2
82.5°	86.4	85.4	82.2	75.9	73.8
85°	41.1	50.6	53.8	53.8	52.7
87.5°	14.8	25.3	33.7	35.8	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)