

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-LD5-9-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-LD5-9-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

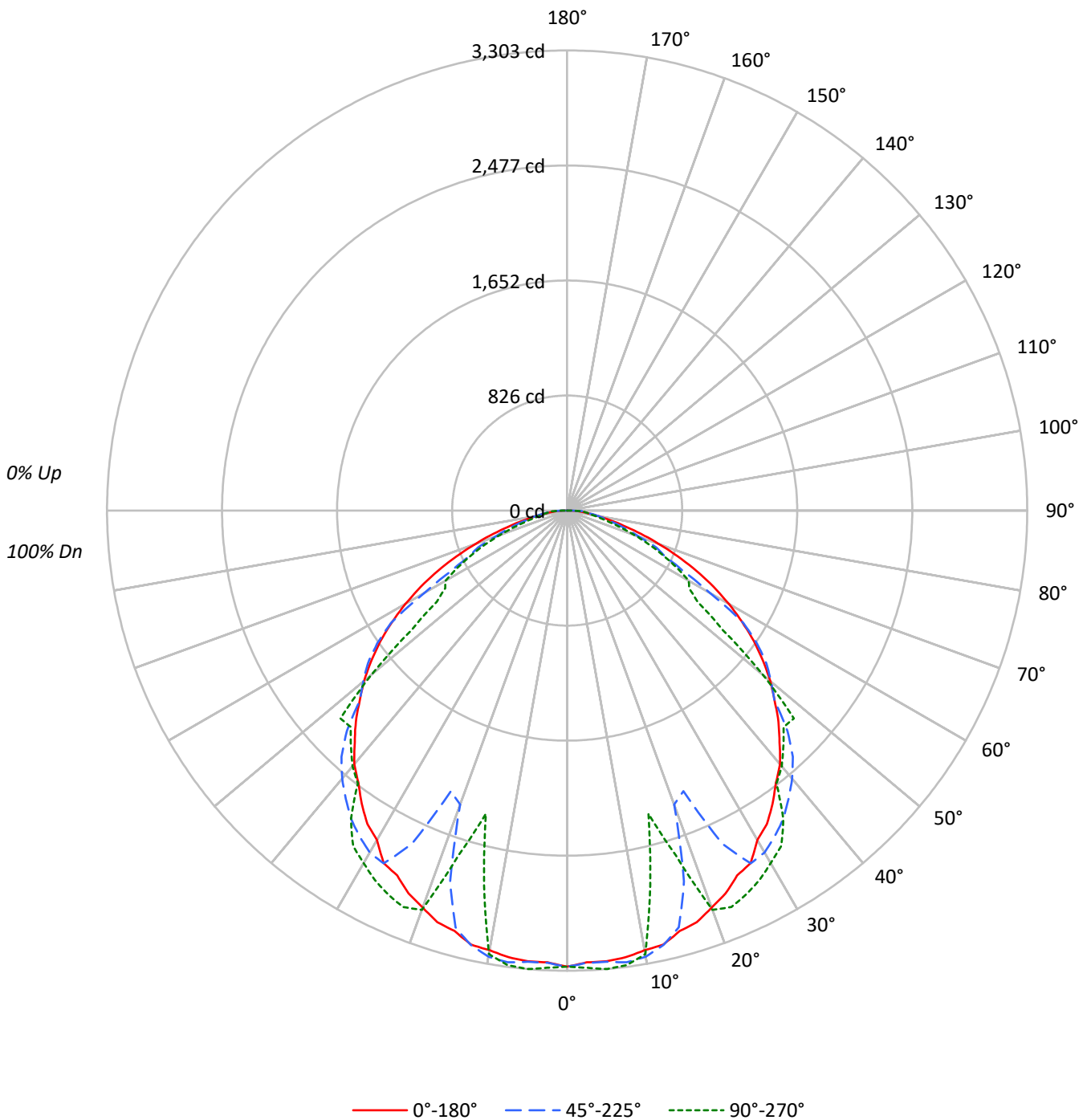
Lumens per Lamp: N/A
Luminaire Lumens: 8477.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	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°	9610	9610	9610
5°	9550	9500	9642
10°	9512	9531	9452
15°	9432	9176	6654
20°	9388	6780	9165
25°	9249	8188	9372
30°	9122	9106	9319
35°	9050	9083	9012
40°	8922	8921	8412
45°	8690	8483	8223
50°	8441	7837	7431
55°	8088	7499	5061
60°	7545	5987	4979
65°	6753	4444	4289
70°	5621	3776	3404
75°	4357	3011	2506
80°	3248	2545	1912
85°	2785	2132	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	3.7
10°-20°	823.8	9.7
20°-30°	1313.5	15.5
30°-40°	1576.5	18.6
40°-50°	1676.7	19.8
50°-60°	1371.7	16.2
60°-70°	869.7	10.3
70°-80°	401.8	4.7
80°-90°	132.5	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°	2448.1	28.9
0°-40°	4024.6	47.5
0°-60°	7073.0	83.4
0°-90°	8477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	3248	3249	3251	3276	3303	309
15°	3124	3173	3096	2439	2253	885
25°	2889	2897	2640	3014	3041	1338
35°	2570	1926	2703	2754	2707	1606
45°	2146	2155	2237	2182	2197	1653
55°	1637	1723	1664	1290	1143	1458
65°	1024	1042	770	775	762	1010
75°	420	398	359	332	311	460
85°	106	116	132	132	128	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3273.6	3273.6	3273.6	3273.6	3273.6
2.5°	3245.3	3250.7	3249.4	3273.6	3284.4
5°	3248.0	3249.4	3250.7	3276.3	3303.2
7.5°	3233.2	3261.5	3270.9	3261.5	3289.7
10°	3204.9	3230.5	3250.7	3222.4	3231.9
12.5°	3190.1	3227.8	3194.2	3055.5	2754.0
15°	3124.2	3172.6	3095.9	2439.0	2253.3
17.5°	3097.3	3129.6	2790.4	2242.5	2593.8
20°	3032.6	3077.1	2245.2	2883.2	3050.1
22.5°	2973.4	3005.7	2179.3	3032.6	3079.8
25°	2888.6	2896.7	2639.6	3013.8	3040.7
27.5°	2852.3	2731.1	2855.0	2974.8	2989.6
30°	2729.8	2480.8	2833.4	2920.9	2922.3
32.5°	2667.9	2160.4	2772.9	2842.9	2857.7
35°	2569.6	1926.2	2702.9	2754.0	2706.9
37.5°	2461.9	1892.5	2610.0	2583.1	2468.7
40°	2377.1	2064.8	2513.1	2346.2	2396.0
42.5°	2257.3	2169.8	2397.3	2288.3	2297.7
45°	2145.6	2155.0	2237.1	2181.9	2196.7
47.5°	2019.1	2081.0	2017.7	2090.4	2207.5
50°	1903.3	1969.3	1910.0	2029.8	1838.7
52.5°	1771.4	1853.5	1803.7	1632.8	1410.7
55°	1636.8	1722.9	1663.7	1289.5	1142.8
57.5°	1490.1	1561.4	1499.5	1056.6	1037.8
60°	1340.7	1397.2	1187.2	962.4	1008.2
62.5°	1183.2	1218.2	936.8	887.0	884.4
65°	1024.3	1041.8	769.9	775.3	761.9
67.5°	858.8	866.9	693.2	656.9	636.7
70°	699.9	694.6	554.6	534.4	515.5
72.5°	554.6	529.0	450.9	424.0	401.1
75°	420.0	398.4	359.4	332.5	310.9
77.5°	312.3	300.2	281.3	284.0	238.3
80°	219.4	220.8	231.5	196.5	183.1
82.5°	152.1	160.2	165.6	162.9	158.8
85°	106.3	115.8	131.9	131.9	127.9
87.5°	53.8	79.4	106.3	113.1	110.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)