

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: **8ILED-LD5-10-W-FL-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-FL-UNV-L850-CD1-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

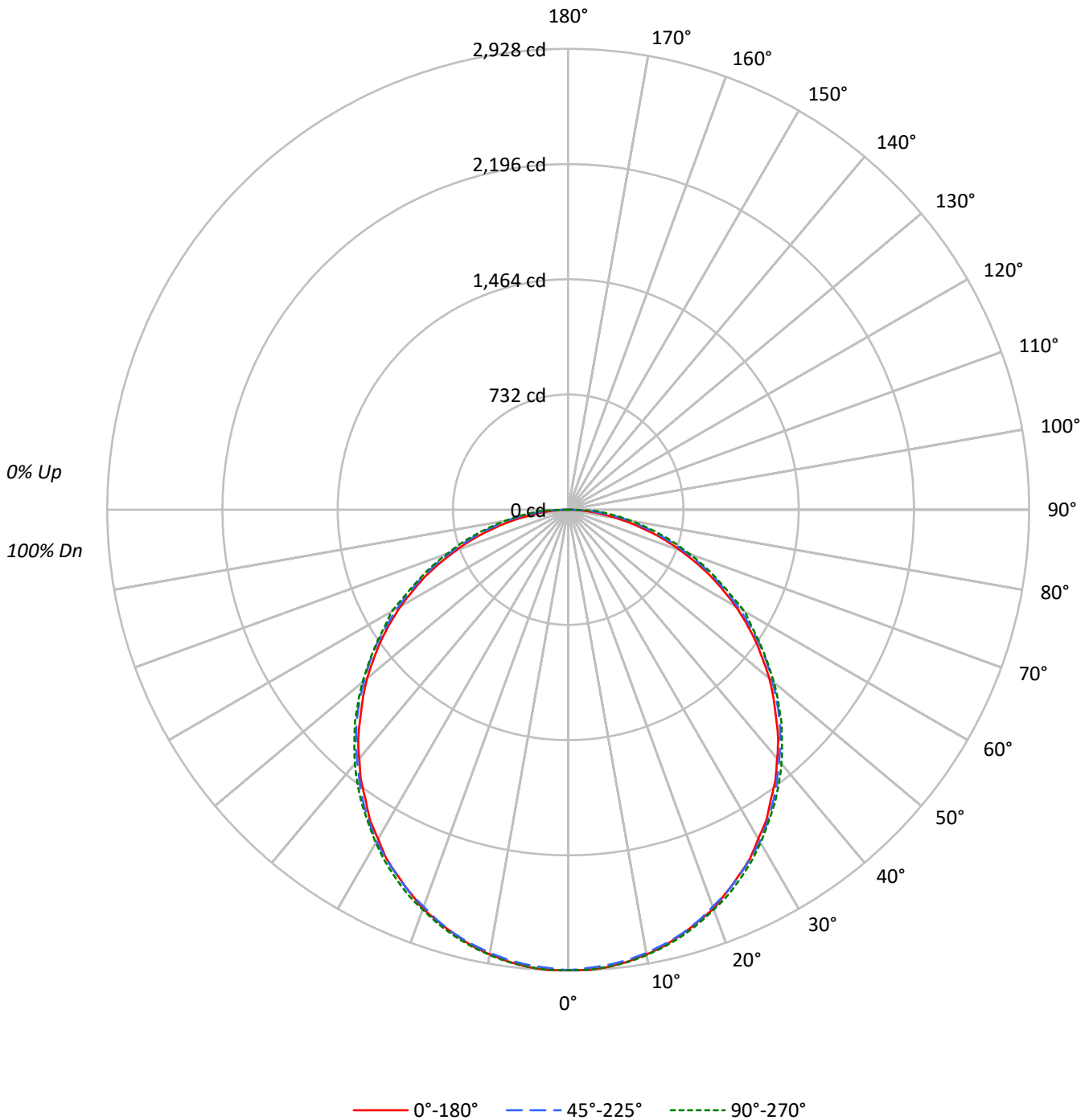
Lumens per Lamp: N/A
Luminaire Lumens: 8285.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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	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°	4295	4295	4295
5°	4293	4246	4255
10°	4267	4199	4202
15°	4229	4143	4138
20°	4195	4066	4062
25°	4129	3998	3987
30°	4063	3930	3897
35°	3987	3835	3802
40°	3915	3725	3701
45°	3827	3628	3584
50°	3751	3503	3448
55°	3652	3375	3299
60°	3531	3205	3197
65°	3380	3010	2935
70°	3150	2756	2700
75°	2870	2474	2437
80°	2511	2217	2108
85°	2100	1670	1755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	3.3
10°-20°	788.3	9.5
20°-30°	1186.2	14.3
30°-40°	1419.1	17.1
40°-50°	1462.5	17.7
50°-60°	1318.5	15.9
60°-70°	1012.7	12.2
70°-80°	609.7	7.4
80°-90°	211.4	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°	2251.1	27.2
0°-40°	3670.2	44.3
0°-60°	6451.2	77.9
0°-90°	8285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2917	2914	2904	2914	2916	277
15°	2792	2796	2790	2802	2803	788
25°	2564	2566	2567	2582	2587	1182
35°	2245	2267	2269	2282	2284	1407
45°	1867	1883	1898	1913	1915	1443
55°	1452	1464	1481	1490	1490	1296
65°	999	1002	1026	1038	1043	985
75°	530	545	576	597	605	563
85°	142	165	197	224	234	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2926.0	2926.0	2926.0	2926.0	2926.0
2.5°	2927.5	2926.0	2914.0	2923.0	2926.0
5°	2917.0	2914.0	2903.5	2914.0	2915.5
7.5°	2896.0	2894.5	2885.5	2896.0	2899.0
10°	2869.0	2869.0	2860.0	2870.5	2873.5
12.5°	2836.0	2834.5	2827.0	2839.0	2842.0
15°	2792.5	2795.5	2789.5	2801.5	2803.0
17.5°	2744.5	2746.0	2741.5	2752.0	2756.5
20°	2697.9	2690.4	2684.4	2702.4	2703.9
22.5°	2630.4	2633.4	2631.9	2648.4	2651.4
25°	2564.4	2565.9	2567.4	2582.4	2586.9
27.5°	2499.9	2498.4	2502.9	2514.9	2519.4
30°	2414.3	2426.3	2433.8	2442.9	2444.4
32.5°	2340.8	2345.3	2354.3	2360.3	2361.8
35°	2244.8	2267.3	2268.8	2282.3	2283.8
37.5°	2162.3	2169.8	2177.3	2193.8	2196.8
40°	2064.7	2075.2	2084.2	2099.2	2108.2
42.5°	1974.7	1986.7	1995.7	2009.2	2010.7
45°	1866.7	1883.2	1898.2	1913.2	1914.7
47.5°	1767.6	1784.1	1796.1	1808.1	1809.6
50°	1667.1	1680.6	1691.1	1706.1	1706.1
52.5°	1556.0	1572.5	1589.1	1595.1	1595.1
55°	1452.5	1464.5	1481.0	1490.0	1490.0
57.5°	1340.0	1346.0	1364.0	1380.5	1380.5
60°	1228.9	1236.4	1254.4	1266.4	1295.0
62.5°	1110.4	1122.4	1134.4	1173.4	1156.9
65°	999.3	1002.3	1026.4	1038.4	1042.9
67.5°	876.3	886.8	910.8	924.3	933.3
70°	759.3	772.8	793.8	810.3	817.8
72.5°	648.2	654.2	681.2	703.7	714.2
75°	529.7	544.7	576.2	597.2	604.7
77.5°	417.1	441.2	471.2	544.7	502.7
80°	318.1	336.1	390.1	393.1	403.6
82.5°	222.1	243.1	279.1	303.1	315.1
85°	142.5	165.1	196.6	223.6	234.1
87.5°	66.0	90.0	130.5	160.6	169.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)