

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-L840-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-L840-CD1-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

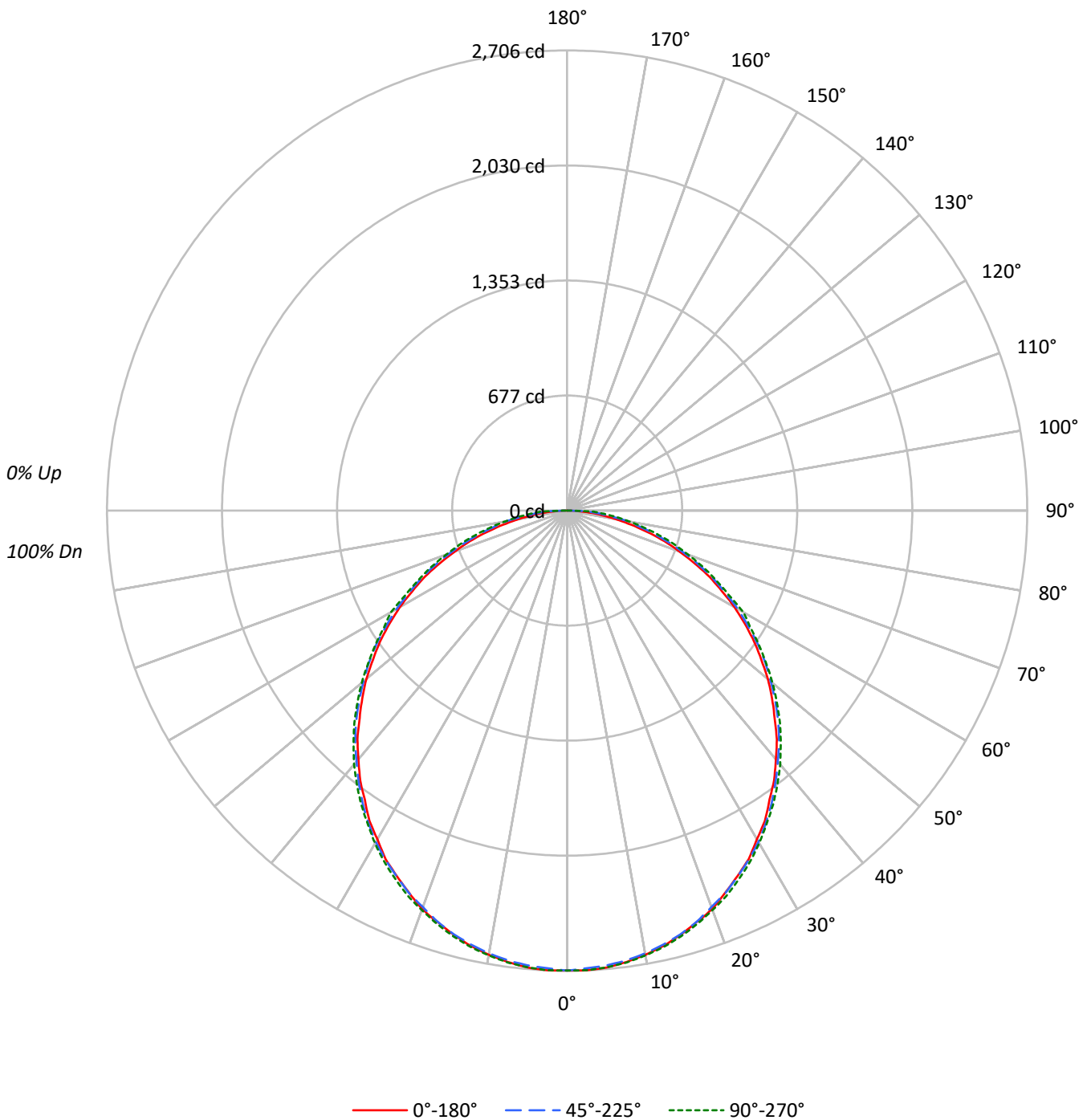
Lumens per Lamp: N/A
Luminaire Lumens: 7659.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	3970	3970	3970
5°	3969	3925	3934
10°	3944	3882	3885
15°	3910	3830	3826
20°	3878	3759	3755
25°	3817	3696	3685
30°	3756	3633	3603
35°	3686	3545	3515
40°	3619	3443	3421
45°	3538	3354	3313
50°	3467	3238	3187
55°	3376	3120	3050
60°	3264	2963	2956
65°	3125	2782	2714
70°	2912	2547	2496
75°	2653	2287	2253
80°	2321	2050	1948
85°	1942	1543	1622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	3.3
10°-20°	728.8	9.5
20°-30°	1096.6	14.3
30°-40°	1311.9	17.1
40°-50°	1352.0	17.7
50°-60°	1218.9	15.9
60°-70°	936.2	12.2
70°-80°	563.6	7.4
80°-90°	195.4	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°	2081.0	27.2
0°-40°	3392.9	44.3
0°-60°	5963.8	77.9
0°-90°	7659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2705	2705	2705	2705	2705	
5°	2697	2694	2684	2694	2695	256
15°	2582	2584	2579	2590	2591	729
25°	2371	2372	2373	2387	2391	1093
35°	2075	2096	2097	2110	2111	1301
45°	1726	1741	1755	1769	1770	1334
55°	1343	1354	1369	1377	1377	1198
65°	924	927	949	960	964	910
75°	490	504	533	552	559	520
85°	132	153	182	207	216	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2704.9	2704.9	2704.9	2704.9	2704.9
2.5°	2706.3	2704.9	2693.8	2702.2	2704.9
5°	2696.6	2693.8	2684.1	2693.8	2695.2
7.5°	2677.2	2675.8	2667.5	2677.2	2680.0
10°	2652.2	2652.2	2643.9	2653.6	2656.4
12.5°	2621.7	2620.3	2613.4	2624.5	2627.3
15°	2581.5	2584.3	2578.7	2589.8	2591.2
17.5°	2537.1	2538.5	2534.3	2544.0	2548.2
20°	2494.1	2487.2	2481.6	2498.3	2499.6
22.5°	2431.7	2434.4	2433.1	2448.3	2451.1
25°	2370.6	2372.0	2373.4	2387.3	2391.4
27.5°	2311.0	2309.6	2313.8	2324.9	2329.0
30°	2231.9	2243.0	2250.0	2258.3	2259.7
32.5°	2163.9	2168.1	2176.4	2182.0	2183.4
35°	2075.2	2096.0	2097.4	2109.9	2111.2
37.5°	1998.9	2005.8	2012.8	2028.0	2030.8
40°	1908.7	1918.4	1926.7	1940.6	1948.9
42.5°	1825.5	1836.6	1844.9	1857.4	1858.8
45°	1725.6	1740.9	1754.7	1768.6	1770.0
47.5°	1634.1	1649.3	1660.4	1671.5	1672.9
50°	1541.1	1553.6	1563.3	1577.2	1577.2
52.5°	1438.5	1453.7	1469.0	1474.5	1474.5
55°	1342.8	1353.9	1369.1	1377.4	1377.4
57.5°	1238.7	1244.3	1260.9	1276.2	1276.2
60°	1136.1	1143.0	1159.7	1170.8	1197.1
62.5°	1026.5	1037.6	1048.7	1084.7	1069.5
65°	923.8	926.6	948.8	959.9	964.1
67.5°	810.1	819.8	842.0	854.5	862.8
70°	701.9	714.4	733.8	749.1	756.0
72.5°	599.2	604.8	629.8	650.6	660.3
75°	489.7	503.5	532.7	552.1	559.0
77.5°	385.6	407.8	435.6	503.5	464.7
80°	294.1	310.7	360.7	363.4	373.1
82.5°	205.3	224.7	258.0	280.2	291.3
85°	131.8	152.6	181.7	206.7	216.4
87.5°	61.0	83.2	120.7	148.4	156.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)