

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-FLUPL-UNV-L835-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 (P34183)
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-FLUPL-UNV-L835-CD1-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7755.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

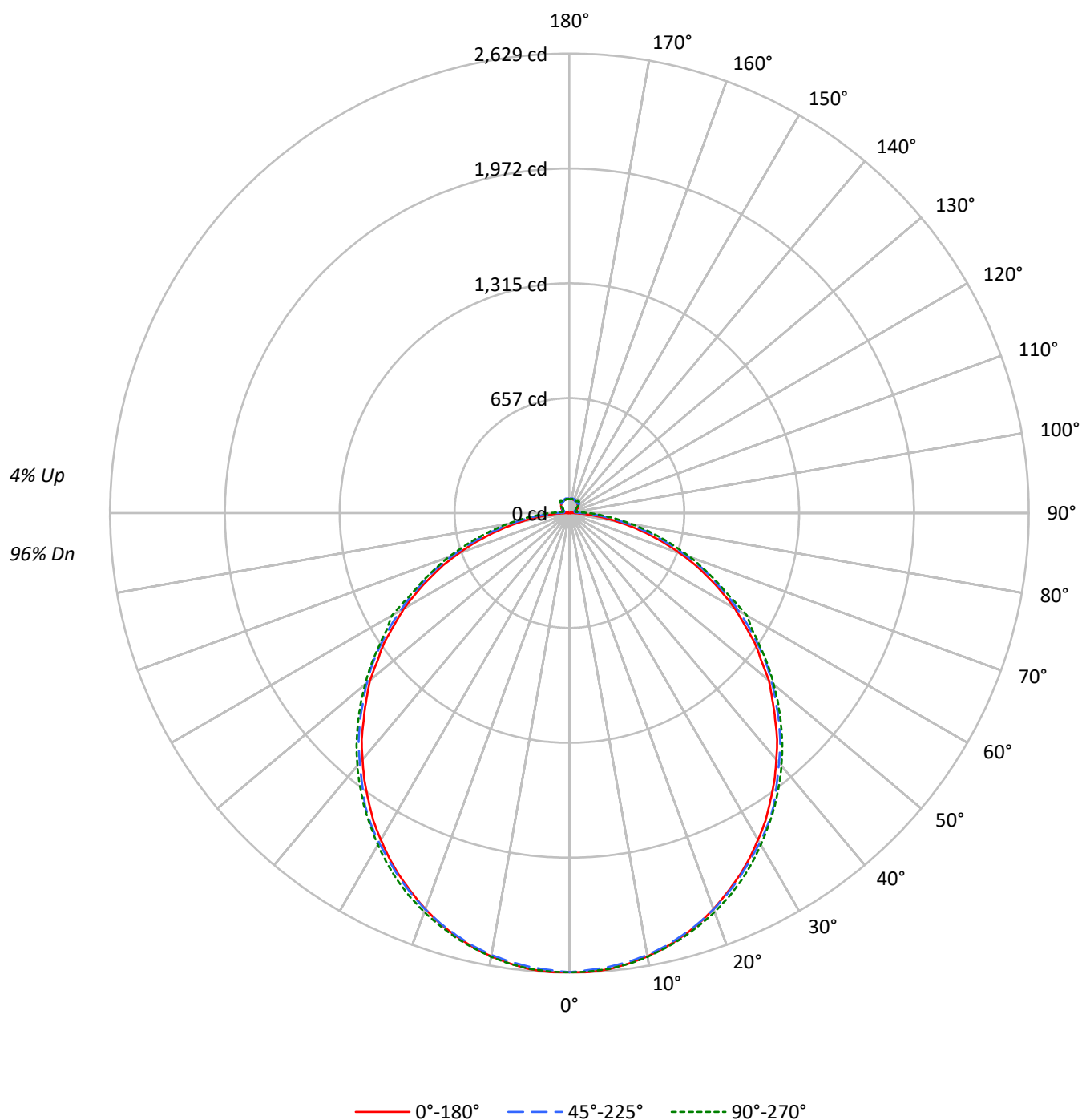
Input Watts (W): 67
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	86	84	82
2	98	89	82	76	95	87	81	75	83	77	73	79	74	70	75	72	68
3	89	78	70	63	86	76	69	63	73	66	61	69	64	59	66	62	58
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	42	38
7	64	50	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34
8	60	46	38	32	58	45	37	31	43	36	31	42	35	31	40	35	30
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	31	27
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3857	3857	3857
5°	3855	3813	3821
10°	3831	3770	3771
15°	3796	3715	3712
20°	3749	3654	3649
25°	3694	3585	3580
30°	3632	3518	3495
35°	3563	3448	3409
40°	3492	3334	3313
45°	3413	3244	3205
50°	3350	3135	3084
55°	3255	3006	2951
60°	3142	2853	2898
65°	2985	2672	2618
70°	2793	2460	2420
75°	2535	2195	2170
80°	2179	1862	1889
85°	1743	1479	1570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	3.2
10°-20°	707.5	9.1
20°-30°	1063.0	13.7
30°-40°	1271.9	16.4
40°-50°	1307.6	16.9
50°-60°	1177.6	15.2
60°-70°	905.1	11.7
70°-80°	538.8	6.9
80°-90°	195.2	2.5
90°-100°	42.1	0.5
100°-110°	35.0	0.5
110°-120°	41.2	0.5
120°-130°	51.0	0.7
130°-140°	55.7	0.7
140°-150°	47.8	0.6
150°-160°	36.0	0.5
160°-170°	23.4	0.3
170°-180°	7.9	0.1
0°-30°	2018.8	26.0
0°-40°	3290.7	42.4
0°-60°	5775.9	74.5
0°-90°	7414.9	95.6
90°-120°	118.3	1.5
90°-150°	272.8	3.5
90°-180°	340.0	4.4
0°-180°	7755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2627	2627	2627	2627	2627	
5°	2619	2618	2607	2616	2618	249
15°	2506	2508	2501	2512	2514	707
25°	2294	2298	2302	2319	2323	1057
35°	2006	2030	2040	2044	2048	1256
45°	1665	1682	1697	1714	1712	1287
55°	1295	1300	1319	1330	1333	1153
65°	883	891	911	929	930	875
75°	468	481	511	540	538	497
85°	118	141	174	200	209	130
90°	3	35	71	97	105	9
95°	10	23	34	49	54	10
105°	29	24	31	50	45	30
115°	45	50	35	37	37	44
125°	57	57	65	53	46	51
135°	67	65	75	79	78	52
145°	73	75	72	79	84	46
155°	78	83	78	75	75	36
165°	80	83	86	83	80	23
175°	82	82	83	82	79	8
180°	80	80	80	80	80	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2627.4	2627.4	2627.4	2627.4	2627.4
2.5°	2628.8	2627.4	2616.5	2624.7	2626.0
5°	2619.2	2617.9	2607.0	2616.5	2617.9
7.5°	2600.2	2600.2	2589.3	2600.2	2601.6
10°	2575.7	2575.7	2567.6	2577.1	2578.5
12.5°	2544.5	2545.8	2537.7	2548.5	2548.5
15°	2506.4	2507.7	2500.9	2511.8	2514.5
17.5°	2462.9	2462.9	2460.1	2472.4	2473.7
20°	2411.2	2418.0	2412.5	2426.1	2428.9
22.5°	2352.7	2359.5	2359.5	2374.5	2378.5
25°	2294.2	2298.3	2302.4	2318.7	2322.8
27.5°	2228.9	2237.1	2238.5	2256.1	2260.2
30°	2158.2	2171.8	2178.6	2189.5	2192.2
32.5°	2087.5	2105.2	2113.4	2118.8	2120.2
35°	2005.9	2030.4	2039.9	2044.0	2048.1
37.5°	1927.0	1947.4	1950.2	1965.1	1969.2
40°	1841.4	1865.8	1865.8	1883.5	1887.6
42.5°	1759.8	1765.2	1785.6	1797.8	1803.3
45°	1664.6	1682.2	1697.2	1713.5	1712.2
47.5°	1574.8	1597.9	1602.0	1617.0	1621.1
50°	1489.1	1505.5	1513.6	1525.9	1525.9
52.5°	1383.1	1404.8	1422.5	1429.3	1433.4
55°	1294.7	1300.1	1319.1	1330.0	1332.7
57.5°	1187.2	1200.8	1218.5	1232.1	1238.9
60°	1093.4	1101.6	1116.5	1135.6	1173.6
62.5°	987.3	996.8	1015.9	1073.0	1033.6
65°	882.6	890.8	911.2	928.8	930.2
67.5°	783.3	791.5	820.0	825.5	829.6
70°	673.2	684.1	708.5	726.2	733.0
72.5°	572.5	582.1	606.5	626.9	633.7
75°	467.8	481.4	511.3	539.9	538.5
77.5°	368.5	393.0	417.5	440.6	447.4
80°	276.1	295.1	327.7	352.2	361.7
82.5°	193.1	214.9	247.5	272.0	281.5
85°	118.3	141.4	174.1	199.9	209.4
87.5°	57.1	80.2	115.6	141.4	152.3
90°	2.7	35.4	70.7	96.6	104.7
92.5°	5.4	20.4	46.2	66.6	73.4
95°	9.5	23.1	34.0	49.0	54.4
97.5°	13.6	20.4	29.9	39.4	43.5
100°	19.0	20.4	34.0	35.4	38.1
102.5°	23.1	21.8	32.6	35.4	35.4
105°	28.6	24.5	31.3	50.3	44.9
107.5°	32.6	34.0	29.9	35.4	38.1
110°	36.7	39.4	32.6	38.1	38.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.8	44.9	35.4	35.4	38.1
115°	44.9	50.3	35.4	36.7	36.7
117.5°	49.0	51.7	42.2	39.4	39.4
120°	51.7	53.0	53.0	39.4	42.2
122.5°	54.4	55.8	59.8	43.5	42.2
125°	57.1	57.1	65.3	53.0	46.2
127.5°	59.8	59.8	69.4	62.6	55.8
130°	62.6	59.8	73.4	68.0	65.3
132.5°	65.3	62.6	74.8	73.4	70.7
135°	66.6	65.3	74.8	78.9	77.5
137.5°	69.4	68.0	72.1	83.0	81.6
140°	70.7	70.7	72.1	83.0	85.7
142.5°	72.1	72.1	72.1	81.6	85.7
145°	73.4	74.8	72.1	78.9	84.3
147.5°	74.8	77.5	72.1	77.5	80.2
150°	76.2	78.9	72.1	76.2	77.5
152.5°	77.5	81.6	74.8	74.8	76.2
155°	77.5	83.0	77.5	74.8	74.8
157.5°	78.9	83.0	78.9	74.8	74.8
160°	78.9	84.3	81.6	77.5	76.2
162.5°	80.2	84.3	84.3	80.2	78.9
165°	80.2	83.0	85.7	83.0	80.2
167.5°	81.6	83.0	85.7	84.3	81.6
170°	81.6	83.0	84.3	84.3	81.6
172.5°	81.6	83.0	84.3	83.0	81.6
175°	81.6	81.6	83.0	81.6	78.9
177.5°	81.6	81.6	81.6	80.2	78.9
180°	80.2	80.2	80.2	80.2	80.2

(END OF REPORT)