

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-LD5-14-W-FLUPL-UNV-L835-CD2-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-LD5-14-W-FLUPL-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

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

Summary

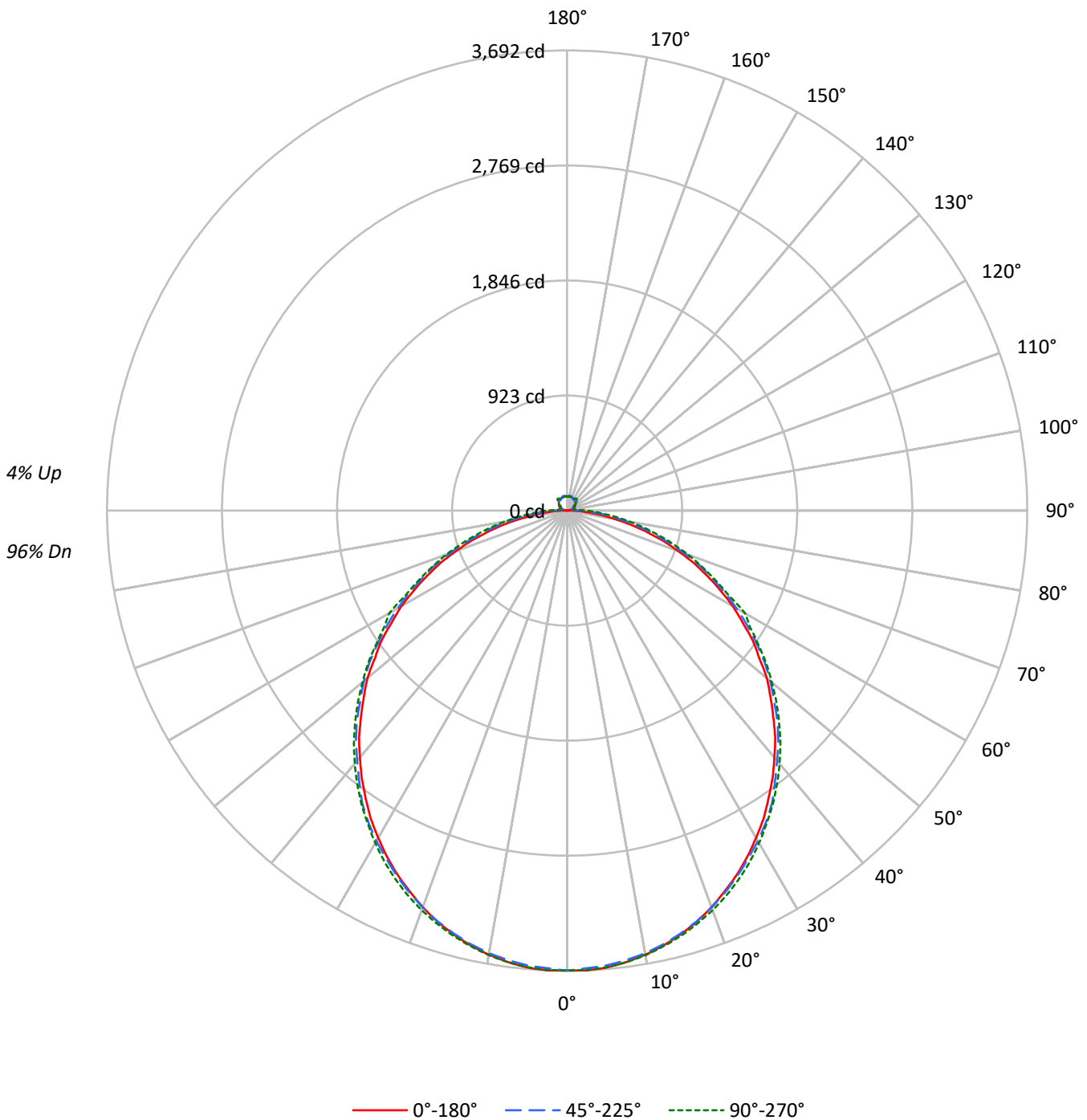
Lumens per Lamp: N/A
Luminaire Lumens: 10893.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	86	84	82	79
2	98	89	82	76	95	87	81	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	63	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	42	38	36
7	64	50	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	31	43	36	31	42	35	31	40	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5417	5417	5417
5°	5415	5355	5367
10°	5381	5295	5296
15°	5332	5218	5215
20°	5266	5133	5126
25°	5189	5036	5028
30°	5101	4941	4910
35°	5005	4843	4789
40°	4905	4684	4654
45°	4793	4557	4501
50°	4706	4404	4331
55°	4572	4223	4145
60°	4413	4007	4070
65°	4193	3753	3678
70°	3923	3455	3400
75°	3560	3084	3049
80°	3061	2616	2653
85°	2449	2077	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	3.2
10°-20°	993.8	9.1
20°-30°	1493.2	13.7
30°-40°	1786.5	16.4
40°-50°	1836.7	16.9
50°-60°	1654.1	15.2
60°-70°	1271.3	11.7
70°-80°	756.9	6.9
80°-90°	274.2	2.5
90°-100°	59.1	0.5
100°-110°	49.1	0.5
110°-120°	57.9	0.5
120°-130°	71.7	0.7
130°-140°	78.2	0.7
140°-150°	67.2	0.6
150°-160°	50.5	0.5
160°-170°	32.8	0.3
170°-180°	11.0	0.1
0°-30°	2835.7	26.0
0°-40°	4622.2	42.4
0°-60°	8113.0	74.5
0°-90°	10415.4	95.6
90°-120°	166.2	1.5
90°-150°	383.2	3.5
90°-180°	478.0	4.4
0°-180°	10893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3691	3691	3691	3691	3691	
5°	3679	3677	3662	3675	3677	349
15°	3521	3522	3513	3528	3532	993
25°	3223	3228	3234	3257	3263	1484
35°	2818	2852	2865	2871	2877	1764
45°	2338	2363	2384	2407	2405	1807
55°	1818	1826	1853	1868	1872	1620
65°	1240	1251	1280	1305	1307	1229
75°	657	676	718	758	756	698
85°	166	199	244	281	294	183
90°	4	50	99	136	147	13
95°	13	32	48	69	76	14
105°	40	34	44	71	63	42
115°	63	71	50	52	52	62
125°	80	80	92	74	65	72
135°	94	92	105	111	109	73
145°	103	105	101	111	118	65
155°	109	116	109	105	105	51
165°	113	116	120	116	113	32
175°	115	115	116	115	111	11
180°	113	113	113	113	113	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3692.5	3690.6	3675.3	3686.7	3688.7
5°	3679.1	3677.2	3661.9	3675.3	3677.2
7.5°	3652.4	3652.4	3637.1	3652.4	3654.3
10°	3618.0	3618.0	3606.5	3619.9	3621.8
12.5°	3574.0	3576.0	3564.5	3579.8	3579.8
15°	3520.6	3522.5	3512.9	3528.2	3532.0
17.5°	3459.4	3459.4	3455.6	3472.8	3474.7
20°	3386.8	3396.4	3388.8	3407.9	3411.7
22.5°	3304.7	3314.3	3314.3	3335.3	3341.0
25°	3222.6	3228.3	3234.0	3256.9	3262.7
27.5°	3130.9	3142.3	3144.2	3169.1	3174.8
30°	3031.5	3050.6	3060.2	3075.5	3079.3
32.5°	2932.2	2957.0	2968.5	2976.1	2978.1
35°	2817.6	2852.0	2865.3	2871.1	2876.8
37.5°	2706.8	2735.5	2739.3	2760.3	2766.0
40°	2586.5	2620.8	2620.8	2645.7	2651.4
42.5°	2471.8	2479.5	2508.1	2525.3	2533.0
45°	2338.1	2363.0	2384.0	2406.9	2405.0
47.5°	2212.0	2244.5	2250.3	2271.3	2277.0
50°	2091.7	2114.6	2126.1	2143.3	2143.3
52.5°	1942.7	1973.3	1998.1	2007.7	2013.4
55°	1818.5	1826.2	1852.9	1868.2	1872.0
57.5°	1667.6	1686.7	1711.6	1730.7	1740.2
60°	1535.8	1547.3	1568.3	1595.0	1648.5
62.5°	1386.8	1400.2	1426.9	1507.2	1451.8
65°	1239.7	1251.2	1279.9	1304.7	1306.6
67.5°	1100.3	1111.8	1151.9	1159.5	1165.2
70°	945.6	960.8	995.2	1020.1	1029.6
72.5°	804.2	817.6	852.0	880.6	890.2
75°	657.1	676.2	718.2	758.4	756.5
77.5°	517.7	552.1	586.4	618.9	628.5
80°	387.8	414.5	460.4	494.8	508.1
82.5°	271.3	301.8	347.7	382.0	395.4
85°	166.2	198.7	244.5	280.8	294.2
87.5°	80.2	112.7	162.4	198.7	213.9
90°	3.8	49.7	99.3	135.6	147.1
92.5°	7.6	28.7	64.9	93.6	103.2
95°	13.4	32.5	47.8	68.8	76.4
97.5°	19.1	28.7	42.0	55.4	61.1
100°	26.7	28.7	47.8	49.7	53.5
102.5°	32.5	30.6	45.8	49.7	49.7
105°	40.1	34.4	43.9	70.7	63.0
107.5°	45.8	47.8	42.0	49.7	53.5
110°	51.6	55.4	45.8	53.5	53.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.3	63.0	49.7	49.7	53.5
115°	63.0	70.7	49.7	51.6	51.6
117.5°	68.8	72.6	59.2	55.4	55.4
120°	72.6	74.5	74.5	55.4	59.2
122.5°	76.4	78.3	84.1	61.1	59.2
125°	80.2	80.2	91.7	74.5	64.9
127.5°	84.1	84.1	97.4	87.9	78.3
130°	87.9	84.1	103.2	95.5	91.7
132.5°	91.7	87.9	105.1	103.2	99.3
135°	93.6	91.7	105.1	110.8	108.9
137.5°	97.4	95.5	101.2	116.5	114.6
140°	99.3	99.3	101.2	116.5	120.3
142.5°	101.2	101.2	101.2	114.6	120.3
145°	103.2	105.1	101.2	110.8	118.4
147.5°	105.1	108.9	101.2	108.9	112.7
150°	107.0	110.8	101.2	107.0	108.9
152.5°	108.9	114.6	105.1	105.1	107.0
155°	108.9	116.5	108.9	105.1	105.1
157.5°	110.8	116.5	110.8	105.1	105.1
160°	110.8	118.4	114.6	108.9	107.0
162.5°	112.7	118.4	118.4	112.7	110.8
165°	112.7	116.5	120.3	116.5	112.7
167.5°	114.6	116.5	120.3	118.4	114.6
170°	114.6	116.5	118.4	118.4	114.6
172.5°	114.6	116.5	118.4	116.5	114.6
175°	114.6	114.6	116.5	114.6	110.8
177.5°	114.6	114.6	114.6	112.7	110.8
180°	112.7	112.7	112.7	112.7	112.7

(END OF REPORT)