

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-LD5-22-W-FLUPL-UNV-L850-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-LD5-22-W-FLUPL-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18757.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

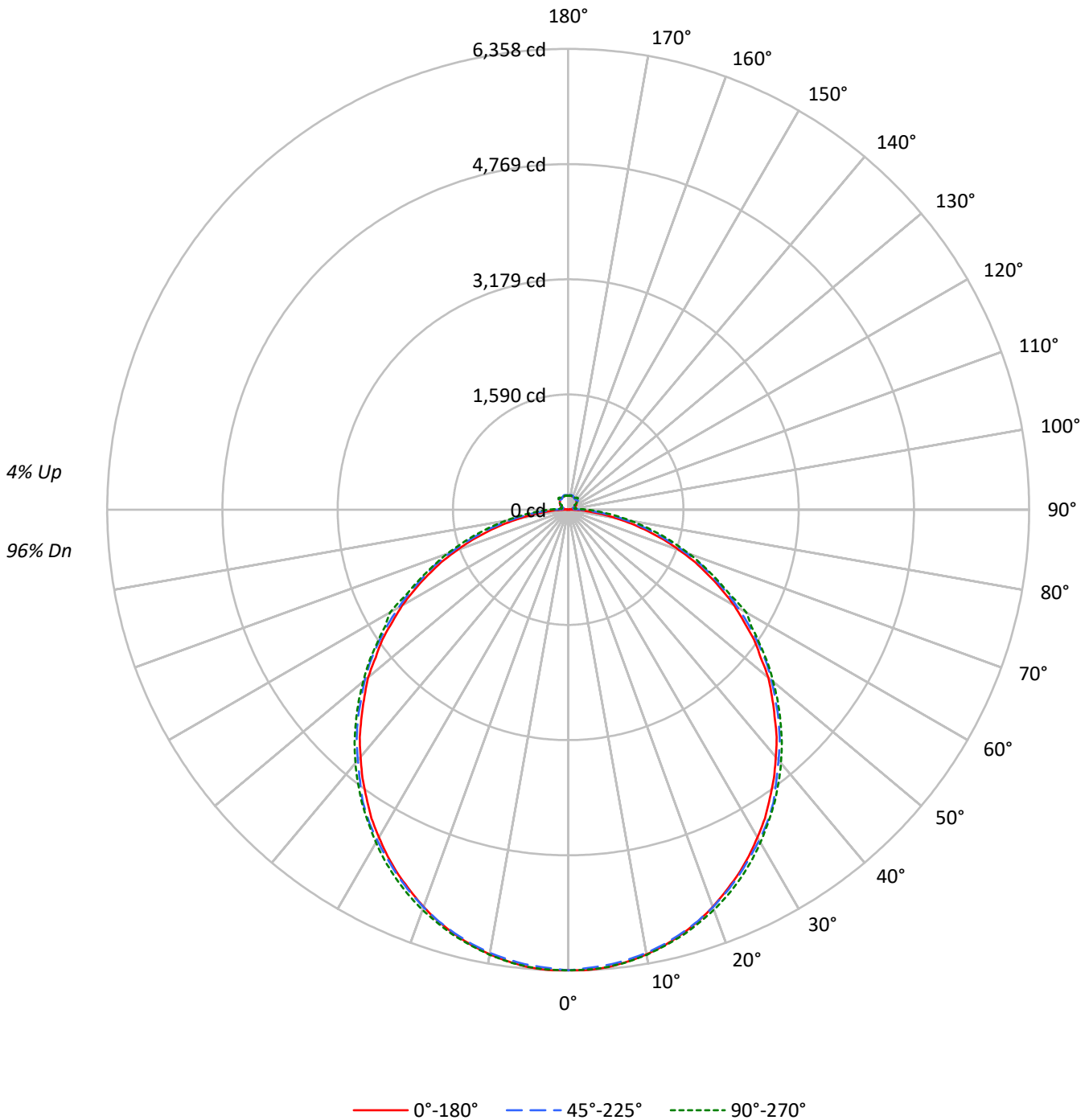
Input Watts (W): 167.7
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-FLUPL-UNV-L850-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-FLUPL-UNV-L850-CD2-U

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°	9328	9328	9328
5°	9324	9221	9241
10°	9265	9118	9120
15°	9181	8985	8979
20°	9068	8838	8826
25°	8935	8671	8658
30°	8784	8509	8454
35°	8618	8339	8246
40°	8445	8065	8014
45°	8254	7846	7751
50°	8104	7583	7458
55°	7873	7272	7137
60°	7599	6900	7009
65°	7221	6463	6333
70°	6756	5949	5854
75°	6131	5310	5250
80°	5270	4504	4569
85°	4217	3576	3797



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-FLUPL-UNV-L850-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.5	3.2
10°-20°	1711.2	9.1
20°-30°	2571.2	13.7
30°-40°	3076.2	16.4
40°-50°	3162.6	16.9
50°-60°	2848.3	15.2
60°-70°	2189.0	11.7
70°-80°	1303.2	6.9
80°-90°	472.2	2.5
90°-100°	101.7	0.5
100°-110°	84.6	0.5
110°-120°	99.7	0.5
120°-130°	123.4	0.7
130°-140°	134.7	0.7
140°-150°	115.6	0.6
150°-160°	87.0	0.5
160°-170°	56.5	0.3
170°-180°	19.0	0.1
0°-30°	4882.9	26.0
0°-40°	7959.1	42.4
0°-60°	13970.1	74.5
0°-90°	17934.6	95.6
90°-120°	286.0	1.5
90°-150°	659.8	3.5
90°-180°	822.0	4.4
0°-180°	18757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6355	6355	6355	6355	6355	
5°	6335	6332	6306	6329	6332	601
15°	6062	6066	6049	6075	6082	1710
25°	5549	5559	5569	5608	5618	2556
35°	4852	4911	4934	4944	4954	3037
45°	4026	4069	4105	4144	4141	3112
55°	3131	3145	3191	3217	3224	2789
65°	2135	2154	2204	2247	2250	2116
75°	1132	1164	1237	1306	1303	1201
85°	286	342	421	484	507	314
90°	7	86	171	234	253	23
95°	23	56	82	118	132	23
105°	69	59	76	122	108	72
115°	108	122	86	89	89	107
125°	138	138	158	128	112	124
135°	161	158	181	191	188	125
145°	178	181	174	191	204	111
155°	188	201	188	181	181	87
165°	194	201	207	201	194	55
175°	197	197	201	197	191	19
180°	194	194	194	194	194	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-FLUPL-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6354.9	6354.9	6354.9	6354.9	6354.9
2.5°	6358.2	6354.9	6328.6	6348.3	6351.6
5°	6335.2	6331.9	6305.6	6328.6	6331.9
7.5°	6289.1	6289.1	6262.8	6289.1	6292.4
10°	6229.9	6229.9	6210.2	6233.2	6236.5
12.5°	6154.3	6157.6	6137.8	6164.1	6164.1
15°	6062.2	6065.5	6049.0	6075.3	6081.9
17.5°	5956.9	5956.9	5950.3	5979.9	5983.2
20°	5831.9	5848.4	5835.2	5868.1	5874.7
22.5°	5690.5	5706.9	5706.9	5743.1	5753.0
25°	5549.0	5558.9	5568.8	5608.2	5618.1
27.5°	5391.1	5410.9	5414.2	5456.9	5466.8
30°	5220.1	5253.0	5269.4	5295.8	5302.3
32.5°	5049.1	5091.8	5111.6	5124.7	5128.0
35°	4851.7	4910.9	4933.9	4943.8	4953.7
37.5°	4660.9	4710.3	4716.8	4753.0	4762.9
40°	4453.7	4512.9	4512.9	4555.7	4565.5
42.5°	4256.3	4269.5	4318.8	4348.4	4361.6
45°	4026.1	4068.9	4105.0	4144.5	4141.2
47.5°	3809.0	3864.9	3874.8	3911.0	3920.8
50°	3601.8	3641.2	3661.0	3690.6	3690.6
52.5°	3345.2	3397.8	3440.6	3457.0	3466.9
55°	3131.4	3144.6	3190.6	3216.9	3223.5
57.5°	2871.6	2904.4	2947.2	2980.1	2996.5
60°	2644.6	2664.3	2700.5	2746.6	2838.7
62.5°	2388.0	2411.0	2457.1	2595.3	2499.9
65°	2134.7	2154.5	2203.8	2246.6	2249.9
67.5°	1894.6	1914.4	1983.4	1996.6	2006.5
70°	1628.2	1654.5	1713.7	1756.5	1772.9
72.5°	1384.8	1407.8	1467.0	1516.4	1532.8
75°	1131.5	1164.4	1236.8	1305.8	1302.6
77.5°	891.4	950.6	1009.8	1065.7	1082.2
80°	667.7	713.8	792.7	851.9	875.0
82.5°	467.1	519.7	598.7	657.9	680.9
85°	286.2	342.1	421.0	483.5	506.6
87.5°	138.2	194.1	279.6	342.1	368.4
90°	6.6	85.5	171.0	233.5	253.3
92.5°	13.2	49.3	111.8	161.2	177.6
95°	23.0	55.9	82.2	118.4	131.6
97.5°	32.9	49.3	72.4	95.4	105.3
100°	46.1	49.3	82.2	85.5	92.1
102.5°	55.9	52.6	78.9	85.5	85.5
105°	69.1	59.2	75.7	121.7	108.5
107.5°	78.9	82.2	72.4	85.5	92.1
110°	88.8	95.4	78.9	92.1	92.1



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-FLUPL-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.7	108.5	85.5	85.5	92.1
115°	108.5	121.7	85.5	88.8	88.8
117.5°	118.4	125.0	102.0	95.4	95.4
120°	125.0	128.3	128.3	95.4	102.0
122.5°	131.6	134.9	144.7	105.3	102.0
125°	138.2	138.2	157.9	128.3	111.8
127.5°	144.7	144.7	167.8	151.3	134.9
130°	151.3	144.7	177.6	164.5	157.9
132.5°	157.9	151.3	180.9	177.6	171.0
135°	161.2	157.9	180.9	190.8	187.5
137.5°	167.8	164.5	174.3	200.6	197.4
140°	171.0	171.0	174.3	200.6	207.2
142.5°	174.3	174.3	174.3	197.4	207.2
145°	177.6	180.9	174.3	190.8	203.9
147.5°	180.9	187.5	174.3	187.5	194.1
150°	184.2	190.8	174.3	184.2	187.5
152.5°	187.5	197.4	180.9	180.9	184.2
155°	187.5	200.6	187.5	180.9	180.9
157.5°	190.8	200.6	190.8	180.9	180.9
160°	190.8	203.9	197.4	187.5	184.2
162.5°	194.1	203.9	203.9	194.1	190.8
165°	194.1	200.6	207.2	200.6	194.1
167.5°	197.4	200.6	207.2	203.9	197.4
170°	197.4	200.6	203.9	203.9	197.4
172.5°	197.4	200.6	203.9	200.6	197.4
175°	197.4	197.4	200.6	197.4	190.8
177.5°	197.4	197.4	197.4	194.1	190.8
180°	194.1	194.1	194.1	194.1	194.1

(END OF REPORT)