

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-LD5-18-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-LD5-18-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

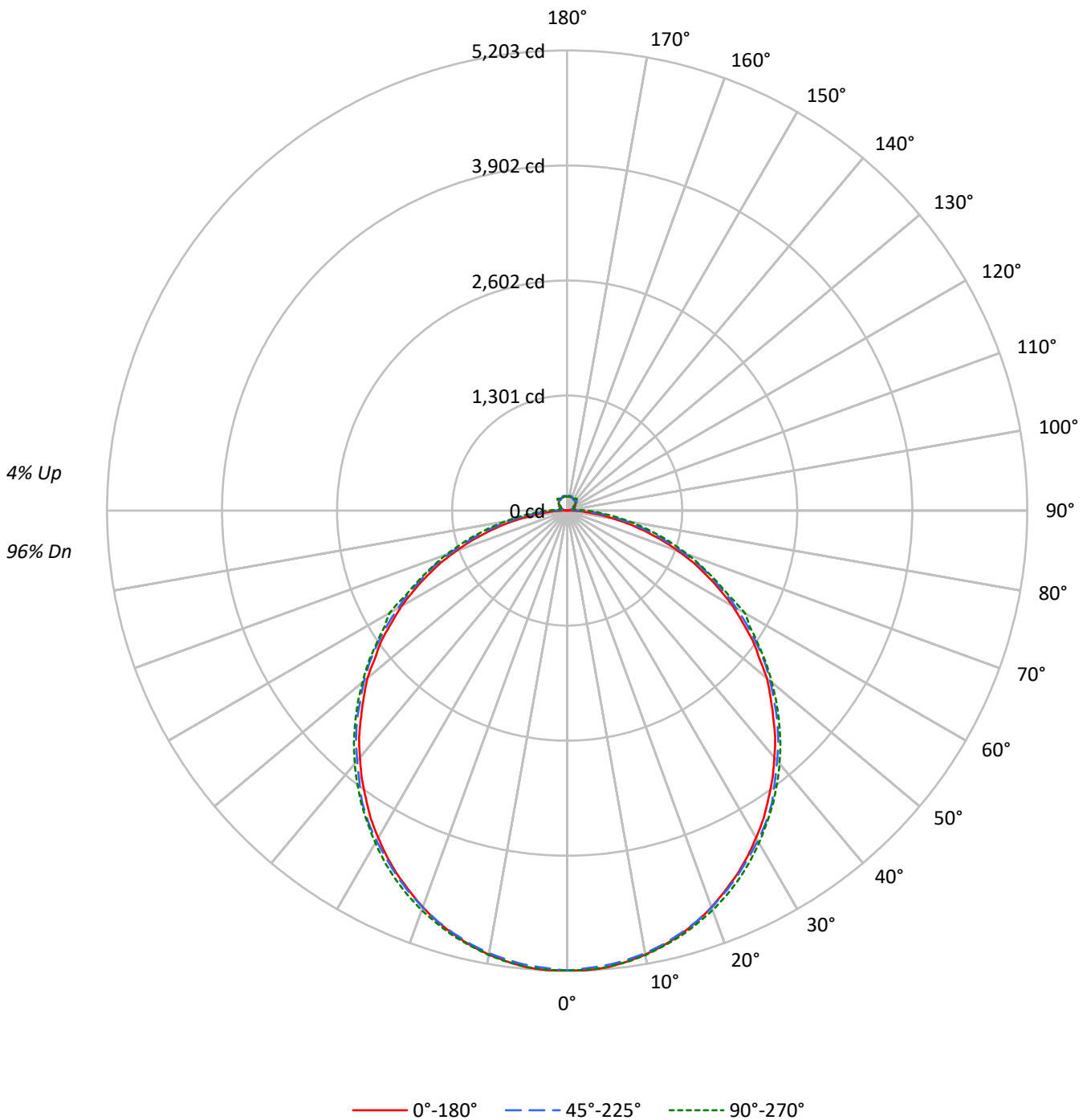
Lumens per Lamp: N/A
Luminaire Lumens: 15349.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	7633	7633	7633
5°	7630	7546	7562
10°	7582	7461	7463
15°	7513	7352	7348
20°	7421	7232	7222
25°	7311	7096	7085
30°	7188	6963	6918
35°	7052	6824	6748
40°	6911	6600	6558
45°	6754	6421	6343
50°	6632	6205	6103
55°	6443	5951	5840
60°	6218	5646	5735
65°	5909	5288	5182
70°	5528	4868	4790
75°	5017	4345	4296
80°	4313	3686	3739
85°	3451	2926	3107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.4	3.2
10°-20°	1400.3	9.1
20°-30°	2104.0	13.7
30°-40°	2517.3	16.4
40°-50°	2588.0	16.9
50°-60°	2330.8	15.2
60°-70°	1791.3	11.7
70°-80°	1066.5	6.9
80°-90°	386.4	2.5
90°-100°	83.3	0.5
100°-110°	69.2	0.5
110°-120°	81.6	0.5
120°-130°	101.0	0.7
130°-140°	110.2	0.7
140°-150°	94.6	0.6
150°-160°	71.2	0.5
160°-170°	46.3	0.3
170°-180°	15.6	0.1
0°-30°	3995.7	26.0
0°-40°	6513.0	42.4
0°-60°	11431.8	74.5
0°-90°	14676.0	95.6
90°-120°	234.1	1.5
90°-150°	540.0	3.5
90°-180°	673.0	4.4
0°-180°	15349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5200	5200	5200	5200	5200	
5°	5184	5181	5160	5179	5181	492
15°	4961	4963	4950	4972	4977	1399
25°	4541	4549	4557	4589	4597	2091
35°	3970	4019	4038	4046	4054	2485
45°	3295	3330	3359	3392	3389	2546
55°	2562	2573	2611	2632	2638	2282
65°	1747	1763	1803	1838	1841	1732
75°	926	953	1012	1069	1066	983
85°	234	280	344	396	414	257
90°	5	70	140	191	207	18
95°	19	46	67	97	108	19
105°	56	48	62	100	89	59
115°	89	100	70	73	73	88
125°	113	113	129	105	92	101
135°	132	129	148	156	153	103
145°	145	148	143	156	167	91
155°	153	164	153	148	148	71
165°	159	164	170	164	159	45
175°	162	162	164	162	156	15
180°	159	159	159	159	159	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-FLUPL-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5200.3	5200.3	5200.3	5200.3	5200.3
2.5°	5203.0	5200.3	5178.7	5194.9	5197.6
5°	5184.1	5181.4	5159.9	5178.7	5181.4
7.5°	5146.4	5146.4	5124.9	5146.4	5149.1
10°	5098.0	5098.0	5081.8	5100.7	5103.4
12.5°	5036.1	5038.8	5022.6	5044.2	5044.2
15°	4960.7	4963.4	4949.9	4971.5	4976.9
17.5°	4874.6	4874.6	4869.2	4893.4	4896.1
20°	4772.3	4785.8	4775.0	4801.9	4807.3
22.5°	4656.6	4670.0	4670.0	4699.6	4707.7
25°	4540.8	4548.9	4557.0	4589.3	4597.3
27.5°	4411.6	4427.8	4430.5	4465.5	4473.5
30°	4271.7	4298.6	4312.0	4333.6	4338.9
32.5°	4131.7	4166.7	4182.8	4193.6	4196.3
35°	3970.2	4018.6	4037.5	4045.6	4053.6
37.5°	3814.1	3854.4	3859.8	3889.4	3897.5
40°	3644.5	3692.9	3692.9	3727.9	3736.0
42.5°	3483.0	3493.8	3534.1	3558.4	3569.1
45°	3294.6	3329.6	3359.2	3391.5	3388.8
47.5°	3116.9	3162.7	3170.8	3200.4	3208.4
50°	2947.4	2979.7	2995.8	3020.0	3020.0
52.5°	2737.4	2780.5	2815.5	2828.9	2837.0
55°	2562.5	2573.2	2610.9	2632.4	2637.8
57.5°	2349.8	2376.7	2411.7	2438.6	2452.1
60°	2164.1	2180.2	2209.8	2247.5	2322.9
62.5°	1954.1	1973.0	2010.7	2123.7	2045.7
65°	1746.9	1763.0	1803.4	1838.4	1841.1
67.5°	1550.4	1566.5	1623.1	1633.8	1641.9
70°	1332.4	1353.9	1402.4	1437.3	1450.8
72.5°	1133.2	1152.0	1200.5	1240.9	1254.3
75°	925.9	952.8	1012.1	1068.6	1065.9
77.5°	729.4	777.9	826.3	872.1	885.6
80°	546.4	584.1	648.7	697.1	716.0
82.5°	382.2	425.3	489.9	538.3	557.2
85°	234.2	279.9	344.5	395.7	414.5
87.5°	113.0	158.8	228.8	279.9	301.5
90°	5.4	70.0	140.0	191.1	207.3
92.5°	10.8	40.4	91.5	131.9	145.3
95°	18.8	45.8	67.3	96.9	107.7
97.5°	26.9	40.4	59.2	78.1	86.1
100°	37.7	40.4	67.3	70.0	75.4
102.5°	45.8	43.1	64.6	70.0	70.0
105°	56.5	48.4	61.9	99.6	88.8
107.5°	64.6	67.3	59.2	70.0	75.4
110°	72.7	78.1	64.6	75.4	75.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.7	88.8	70.0	70.0	75.4
115°	88.8	99.6	70.0	72.7	72.7
117.5°	96.9	102.3	83.4	78.1	78.1
120°	102.3	105.0	105.0	78.1	83.4
122.5°	107.7	110.4	118.4	86.1	83.4
125°	113.0	113.0	129.2	105.0	91.5
127.5°	118.4	118.4	137.3	123.8	110.4
130°	123.8	118.4	145.3	134.6	129.2
132.5°	129.2	123.8	148.0	145.3	140.0
135°	131.9	129.2	148.0	156.1	153.4
137.5°	137.3	134.6	142.7	164.2	161.5
140°	140.0	140.0	142.7	164.2	169.6
142.5°	142.7	142.7	142.7	161.5	169.6
145°	145.3	148.0	142.7	156.1	166.9
147.5°	148.0	153.4	142.7	153.4	158.8
150°	150.7	156.1	142.7	150.7	153.4
152.5°	153.4	161.5	148.0	148.0	150.7
155°	153.4	164.2	153.4	148.0	148.0
157.5°	156.1	164.2	156.1	148.0	148.0
160°	156.1	166.9	161.5	153.4	150.7
162.5°	158.8	166.9	166.9	158.8	156.1
165°	158.8	164.2	169.6	164.2	158.8
167.5°	161.5	164.2	169.6	166.9	161.5
170°	161.5	164.2	166.9	166.9	161.5
172.5°	161.5	164.2	166.9	164.2	161.5
175°	161.5	161.5	164.2	161.5	156.1
177.5°	161.5	161.5	161.5	158.8	156.1
180°	158.8	158.8	158.8	158.8	158.8

(END OF REPORT)