

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-FLWG-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 (P34182)
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-FLWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

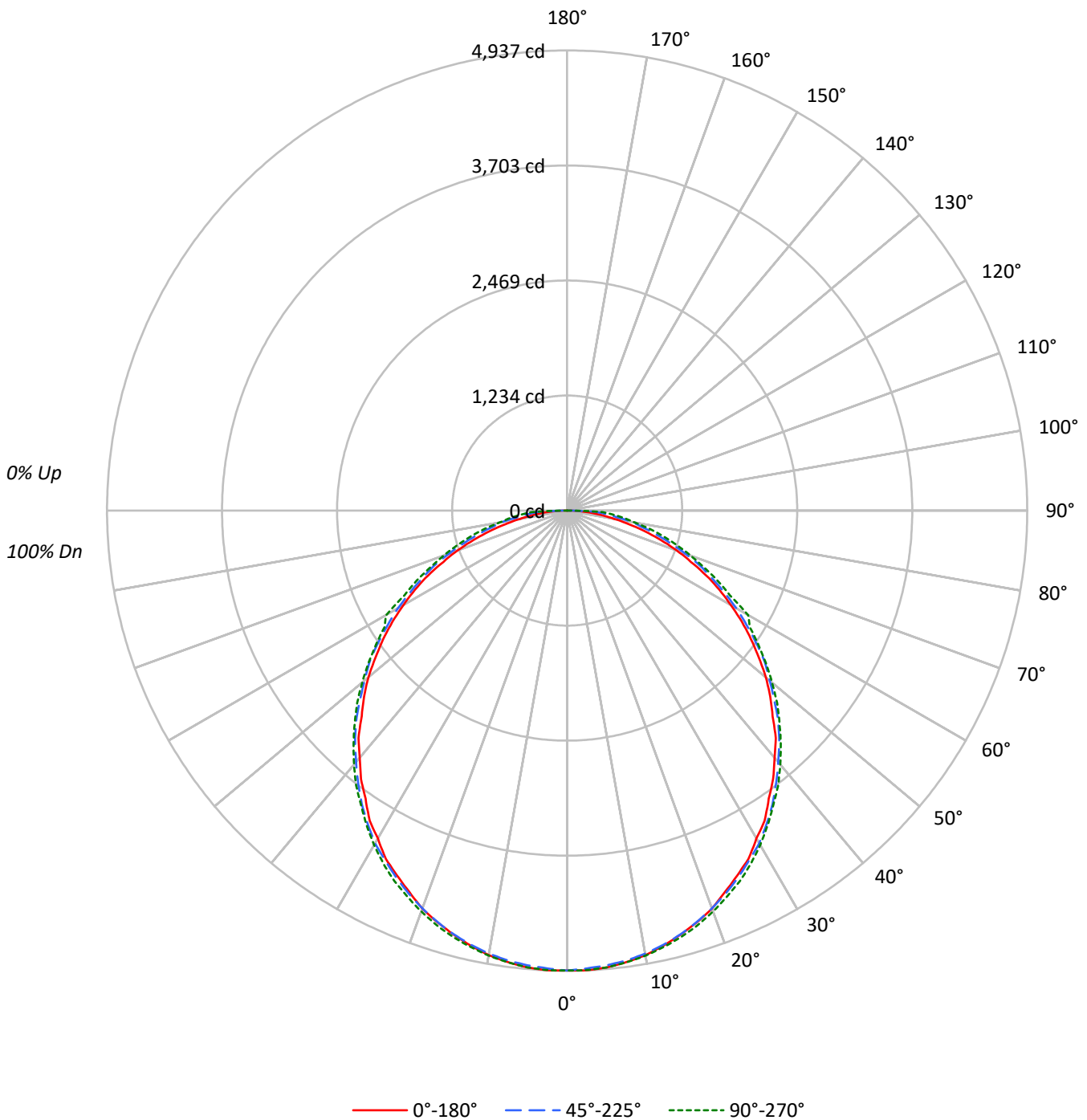
Lumens per Lamp: N/A
Luminaire Lumens: 14033.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-18-W-FLWG-UNV-L850-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-FLWG-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	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	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
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	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	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°	7243	7243	7243
5°	7239	7161	7178
10°	7203	7087	7090
15°	7131	6990	6991
20°	7066	6879	6876
25°	6953	6762	6759
30°	6836	6655	6606
35°	6700	6493	6418
40°	6565	6298	6243
45°	6391	6124	6031
50°	6263	5877	5799
55°	6058	5645	5537
60°	5832	5352	5537
65°	5573	5021	5016
70°	5194	4673	4640
75°	4726	4242	4308
80°	4080	4023	3838
85°	3491	3476	3652



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	3.3
10°-20°	1330.8	9.5
20°-30°	2004.2	14.3
30°-40°	2396.8	17.1
40°-50°	2461.5	17.5
50°-60°	2210.5	15.8
60°-70°	1700.9	12.1
70°-80°	1048.4	7.5
80°-90°	413.5	2.9
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°	3801.6	27.1
0°-40°	6198.4	44.2
0°-60°	10870.3	77.5
0°-90°	14033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4935	4935	4935	4935	4935	
5°	4918	4916	4897	4916	4918	467
15°	4708	4717	4706	4725	4735	1329
25°	4318	4324	4342	4375	4385	1991
35°	3772	3826	3842	3855	3855	2365
45°	3118	3166	3204	3217	3222	2415
55°	2409	2442	2477	2504	2501	2154
65°	1648	1664	1712	1771	1782	1625
75°	872	918	988	1053	1069	922
85°	237	315	409	468	487	271
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4934.6	4934.6	4934.6	4934.6	4934.6
2.5°	4937.3	4934.6	4915.8	4929.2	4934.6
5°	4918.5	4915.8	4896.9	4915.8	4918.5
7.5°	4886.2	4886.2	4867.3	4886.2	4888.9
10°	4843.1	4843.1	4826.9	4843.1	4848.5
12.5°	4781.2	4786.6	4770.4	4789.2	4794.6
15°	4708.5	4716.6	4705.8	4724.6	4735.4
17.5°	4630.4	4633.1	4627.7	4651.9	4662.7
20°	4544.3	4541.6	4541.6	4573.9	4576.6
22.5°	4428.5	4442.0	4444.7	4479.7	4482.3
25°	4318.1	4323.5	4342.4	4374.7	4385.4
27.5°	4213.1	4210.4	4229.3	4258.9	4269.7
30°	4062.4	4089.3	4121.6	4132.4	4143.1
32.5°	3943.9	3952.0	3984.3	3995.1	4003.2
35°	3771.6	3825.5	3841.6	3855.1	3855.1
37.5°	3631.6	3661.3	3682.8	3707.0	3717.8
40°	3462.0	3499.7	3524.0	3548.2	3556.3
42.5°	3314.0	3338.2	3367.8	3386.7	3392.0
45°	3117.5	3165.9	3203.6	3217.1	3222.4
47.5°	2955.9	3009.8	3015.2	3047.5	3055.5
50°	2783.6	2824.0	2837.5	2875.2	2869.8
52.5°	2592.5	2641.0	2673.3	2684.0	2686.7
55°	2409.4	2441.7	2476.7	2503.7	2501.0
57.5°	2223.7	2250.6	2280.2	2320.6	2323.3
60°	2029.8	2062.1	2094.5	2134.8	2242.5
62.5°	1841.4	1860.2	1897.9	1976.0	1967.9
65°	1647.6	1663.7	1712.2	1771.4	1782.2
67.5°	1437.6	1469.9	1542.6	1580.3	1585.6
70°	1251.8	1281.4	1346.1	1394.5	1405.3
72.5°	1055.3	1090.3	1160.3	1222.2	1238.4
75°	872.2	918.0	988.0	1052.6	1068.8
77.5°	683.8	743.0	826.5	982.6	907.2
80°	516.9	584.2	708.0	726.9	734.9
82.5°	368.8	441.5	530.3	595.0	616.5
85°	236.9	315.0	409.2	468.4	487.3
87.5°	131.9	207.3	306.9	366.1	382.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)