

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-FL-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 (P34181)  
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-FL-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

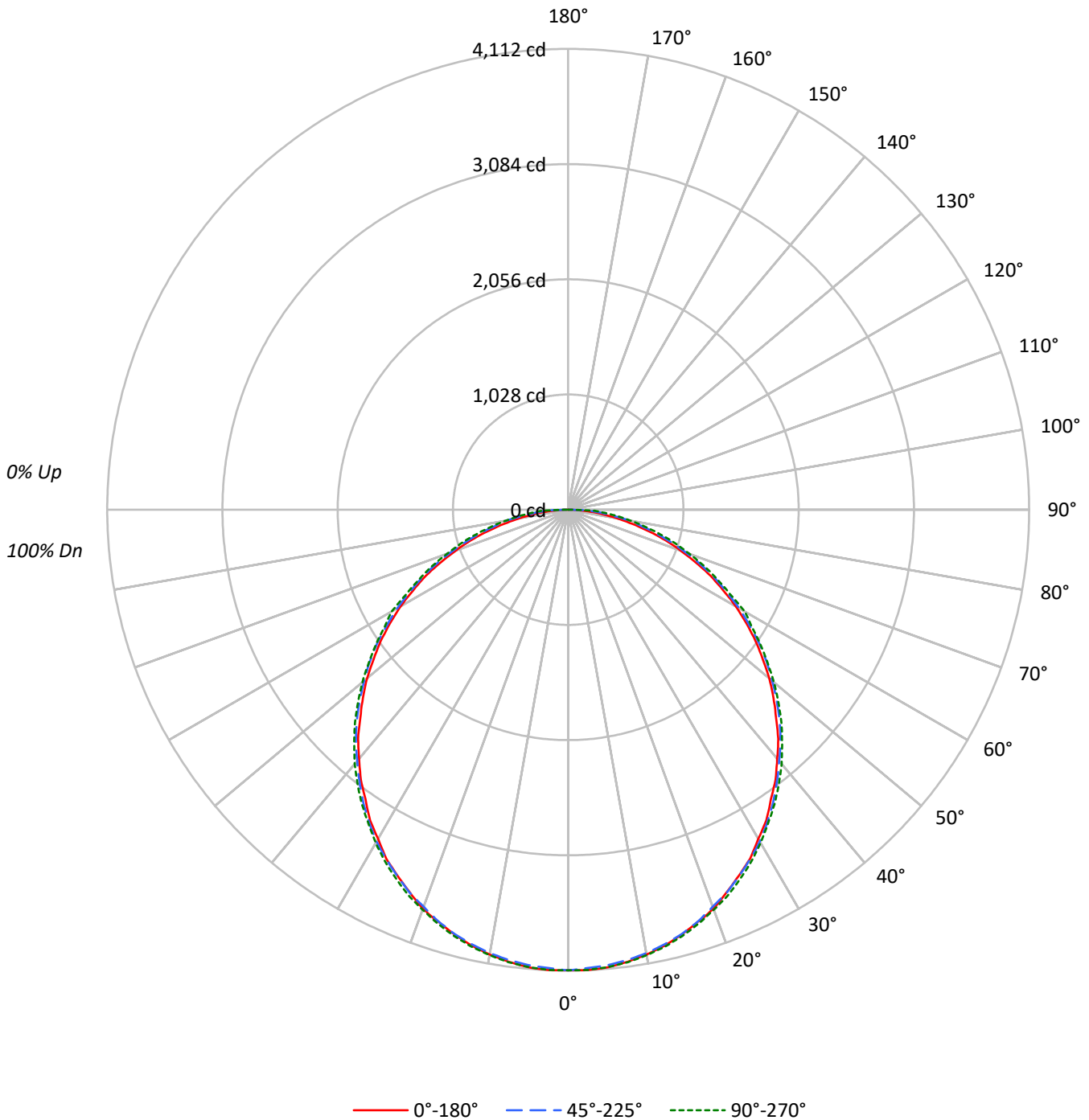
Lumens per Lamp: N/A  
Luminaire Lumens: 11638.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 100.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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-LD5-14-W-FL-UNV-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-FL-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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6033	6033	6033
5°	6031	5965	5977
10°	5993	5898	5903
15°	5941	5820	5813
20°	5893	5711	5706
25°	5800	5616	5600
30°	5707	5520	5475
35°	5601	5386	5341
40°	5500	5232	5199
45°	5376	5097	5034
50°	5269	4920	4843
55°	5130	4742	4634
60°	4960	4502	4491
65°	4748	4228	4123
70°	4425	3871	3793
75°	4032	3475	3423
80°	3527	3114	2961
85°	2950	2345	2464



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-FL-UNV-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.5	3.3
10°-20°	1107.4	9.5
20°-30°	1666.3	14.3
30°-40°	1993.5	17.1
40°-50°	2054.3	17.7
50°-60°	1852.1	15.9
60°-70°	1422.5	12.2
70°-80°	856.4	7.4
80°-90°	297.0	2.6
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°	3162.1	27.2
0°-40°	5155.6	44.3
0°-60°	9062.1	77.9
0°-90°	11638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11638.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4110	4110	4110	4110	4110	
5°	4098	4093	4079	4093	4095	389
15°	3923	3927	3918	3935	3937	1107
25°	3602	3604	3606	3628	3634	1661
35°	3153	3185	3187	3206	3208	1977
45°	2622	2645	2666	2687	2690	2027
55°	2040	2057	2080	2093	2093	1821
65°	1404	1408	1442	1459	1465	1383
75°	744	765	809	839	849	790
85°	200	232	276	314	329	225
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-FL-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4110.2	4110.2	4110.2	4110.2	4110.2
2.5°	4112.3	4110.2	4093.3	4106.0	4110.2
5°	4097.6	4093.3	4078.6	4093.3	4095.4
7.5°	4068.0	4065.9	4053.3	4068.0	4072.3
10°	4030.1	4030.1	4017.5	4032.2	4036.4
12.5°	3983.7	3981.6	3971.1	3988.0	3992.2
15°	3922.6	3926.8	3918.4	3935.3	3937.4
17.5°	3855.2	3857.3	3850.9	3865.7	3872.0
20°	3789.8	3779.3	3770.8	3796.1	3798.2
22.5°	3695.0	3699.2	3697.1	3720.3	3724.5
25°	3602.2	3604.3	3606.4	3627.5	3633.8
27.5°	3511.6	3509.5	3515.8	3532.7	3539.0
30°	3391.4	3408.3	3418.8	3431.5	3433.6
32.5°	3288.2	3294.5	3307.1	3315.6	3317.7
35°	3153.3	3184.9	3187.0	3206.0	3208.1
37.5°	3037.3	3047.9	3058.4	3081.6	3085.8
40°	2900.3	2915.1	2927.7	2948.8	2961.5
42.5°	2773.9	2790.7	2803.4	2822.3	2824.4
45°	2622.1	2645.3	2666.4	2687.4	2689.5
47.5°	2483.0	2506.2	2523.0	2539.9	2542.0
50°	2341.8	2360.7	2375.5	2396.6	2396.6
52.5°	2185.8	2209.0	2232.2	2240.6	2240.6
55°	2040.3	2057.2	2080.4	2093.0	2093.0
57.5°	1882.3	1890.7	1916.0	1939.2	1939.2
60°	1726.3	1736.8	1762.1	1779.0	1819.0
62.5°	1559.8	1576.6	1593.5	1648.3	1625.1
65°	1403.8	1408.0	1441.7	1458.6	1464.9
67.5°	1231.0	1245.7	1279.4	1298.4	1311.0
70°	1066.5	1085.5	1115.0	1138.2	1148.7
72.5°	910.6	919.0	956.9	988.6	1003.3
75°	744.1	765.1	809.4	838.9	849.4
77.5°	586.0	619.7	661.8	765.1	706.1
80°	446.9	472.1	548.0	552.2	567.0
82.5°	312.0	341.5	392.1	425.8	442.6
85°	200.2	231.9	276.1	314.1	328.8
87.5°	92.7	126.5	183.4	225.5	238.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)