

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: **4ILED-LD5-14-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: 4ILED-LD5-14-W-FLWG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

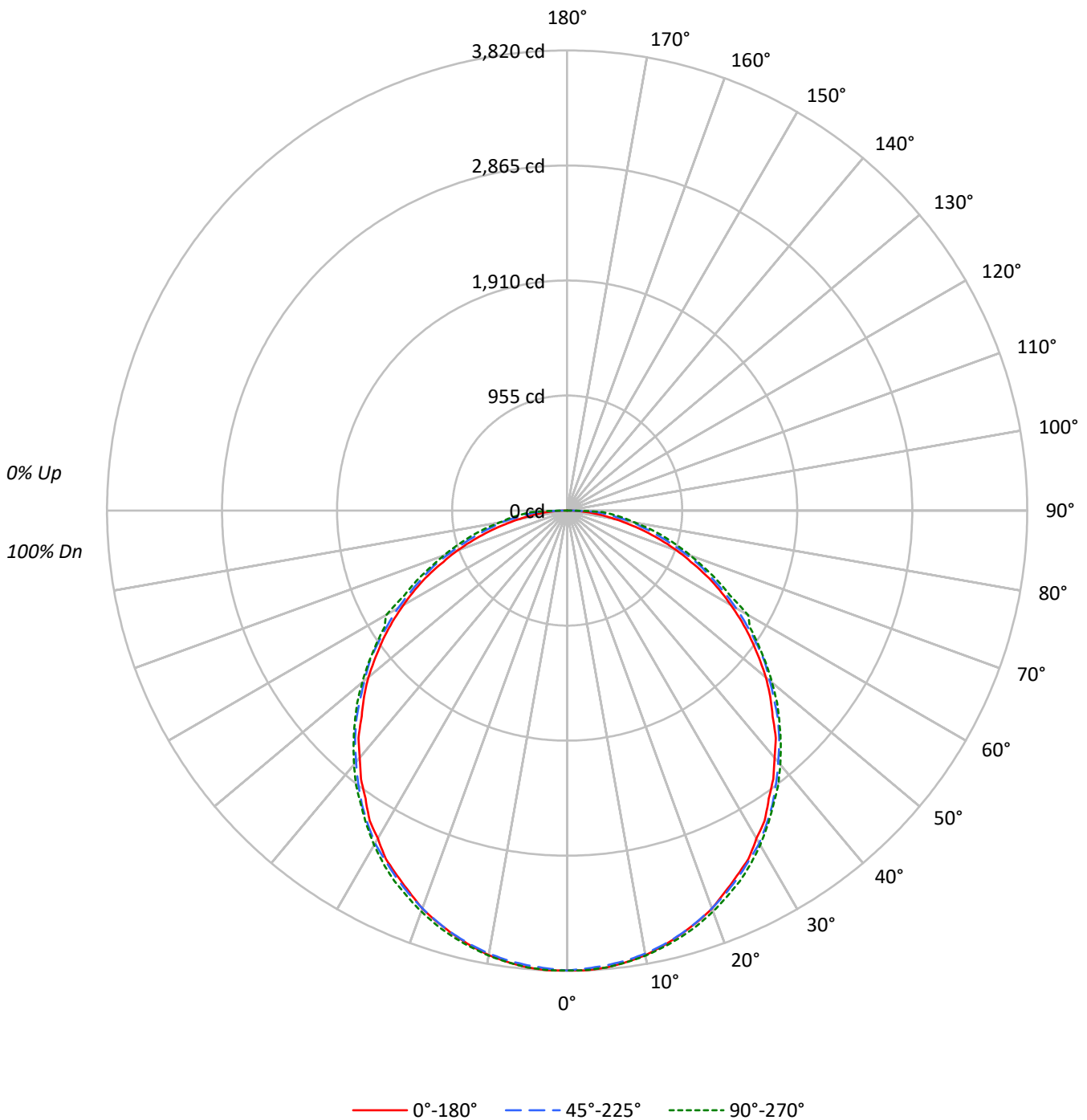
Lumens per Lamp: N/A  
Luminaire Lumens: 10858.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
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



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
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	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	11209	11209	11209
5°	11190	11074	11109
10°	11121	10950	10972
15°	10999	10792	10819
20°	10885	10612	10640
25°	10697	10422	10459
30°	10503	10249	10223
35°	10278	9989	9931
40°	10054	9679	9661
45°	9770	9400	9333
50°	9552	9009	8974
55°	9213	8639	8569
60°	8839	8173	8568
65°	8404	7647	7763
70°	7779	7092	7180
75°	7002	6405	6666
80°	5921	6022	5939
85°	4802	5118	5651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.0	3.3
10°-20°	1029.7	9.5
20°-30°	1550.7	14.3
30°-40°	1854.5	17.1
40°-50°	1904.6	17.5
50°-60°	1710.4	15.8
60°-70°	1316.0	12.1
70°-80°	811.2	7.5
80°-90°	319.9	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°	2941.4	27.1
0°-40°	4796.0	44.2
0°-60°	8410.9	77.5
0°-90°	10858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10858.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3818	3818	3818	3818	3818	
5°	3806	3804	3789	3804	3806	361
15°	3643	3649	3641	3656	3664	1028
25°	3341	3345	3360	3385	3393	1541
35°	2918	2960	2972	2983	2983	1830
45°	2412	2450	2479	2489	2493	1868
55°	1864	1889	1916	1937	1935	1667
65°	1275	1287	1325	1371	1379	1257
75°	675	710	764	814	827	713
85°	183	244	317	362	377	210
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	3820.2	3818.2	3803.6	3814.0	3818.2
5°	3805.7	3803.6	3789.0	3803.6	3805.7
7.5°	3780.7	3780.7	3766.1	3780.7	3782.7
10°	3747.3	3747.3	3734.8	3747.3	3751.5
12.5°	3699.4	3703.6	3691.1	3705.7	3709.8
15°	3643.2	3649.4	3641.1	3655.7	3664.0
17.5°	3582.8	3584.9	3580.7	3599.4	3607.8
20°	3516.1	3514.0	3514.0	3539.0	3541.1
22.5°	3426.5	3437.0	3439.0	3466.1	3468.2
25°	3341.1	3345.3	3359.9	3384.9	3393.2
27.5°	3259.9	3257.8	3272.4	3295.3	3303.6
30°	3143.3	3164.1	3189.1	3197.4	3205.7
32.5°	3051.6	3057.9	3082.8	3091.2	3097.4
35°	2918.3	2960.0	2972.5	2982.9	2982.9
37.5°	2810.0	2832.9	2849.6	2868.3	2876.6
40°	2678.7	2707.9	2726.7	2745.4	2751.7
42.5°	2564.2	2582.9	2605.8	2620.4	2624.6
45°	2412.1	2449.6	2478.8	2489.2	2493.4
47.5°	2287.1	2328.8	2333.0	2358.0	2364.2
50°	2153.8	2185.1	2195.5	2224.7	2220.5
52.5°	2005.9	2043.4	2068.4	2076.8	2078.8
55°	1864.3	1889.3	1916.4	1937.2	1935.1
57.5°	1720.6	1741.4	1764.3	1795.6	1797.6
60°	1570.6	1595.6	1620.6	1651.8	1735.1
62.5°	1424.8	1439.4	1468.5	1528.9	1522.7
65°	1274.8	1287.3	1324.8	1370.6	1379.0
67.5°	1112.3	1137.3	1193.6	1222.7	1226.9
70°	968.6	991.5	1041.5	1079.0	1087.3
72.5°	816.5	843.6	897.8	945.7	958.2
75°	674.9	710.3	764.5	814.5	827.0
77.5°	529.1	574.9	639.5	760.3	702.0
80°	399.9	452.0	547.8	562.4	568.7
82.5°	285.4	341.6	410.4	460.3	477.0
85°	183.3	243.7	316.6	362.4	377.0
87.5°	102.1	160.4	237.5	283.3	295.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)