

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-L835-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-L835-CD2-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

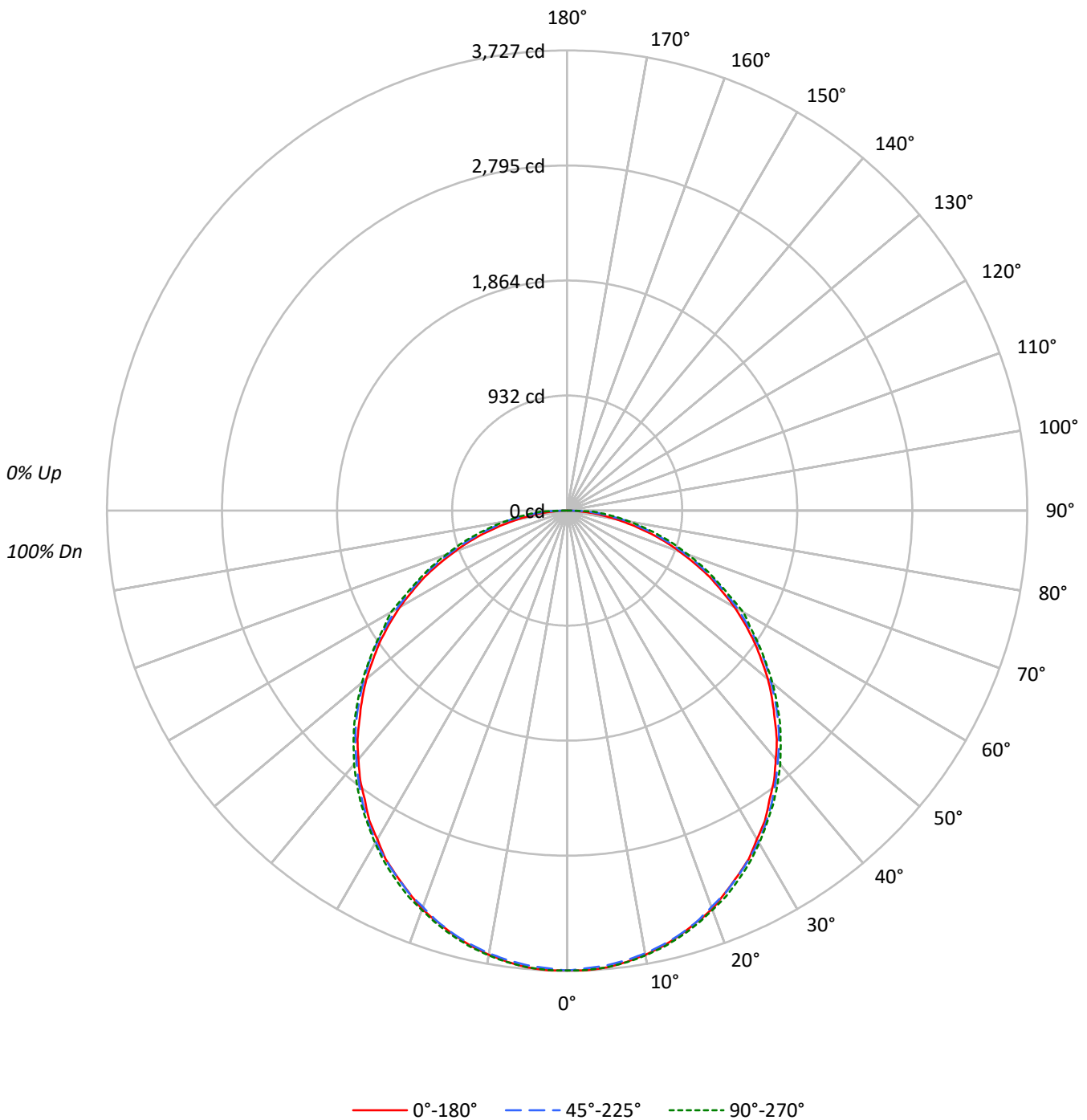
Lumens per Lamp: N/A  
Luminaire Lumens: 10548.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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



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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	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	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
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	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	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°	5468	5468	5468
5°	5466	5406	5417
10°	5432	5346	5350
15°	5384	5275	5269
20°	5341	5176	5172
25°	5257	5090	5076
30°	5172	5003	4962
35°	5077	4882	4840
40°	4985	4742	4712
45°	4872	4619	4562
50°	4775	4459	4389
55°	4649	4297	4200
60°	4496	4081	4071
65°	4303	3832	3737
70°	4011	3508	3438
75°	3654	3150	3103
80°	3197	2822	2684
85°	2675	2126	2234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.1	3.3
10°-20°	1003.7	9.5
20°-30°	1510.2	14.3
30°-40°	1806.8	17.1
40°-50°	1861.9	17.7
50°-60°	1678.7	15.9
60°-70°	1289.3	12.2
70°-80°	776.3	7.4
80°-90°	269.1	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°	2866.0	27.2
0°-40°	4672.7	44.3
0°-60°	8213.3	77.9
0°-90°	10548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3725	3725	3725	3725	3725	
5°	3714	3710	3697	3710	3712	352
15°	3555	3559	3551	3567	3569	1003
25°	3265	3267	3269	3288	3294	1505
35°	2858	2887	2888	2906	2908	1792
45°	2376	2398	2417	2436	2438	1837
55°	1849	1864	1886	1897	1897	1650
65°	1272	1276	1307	1322	1328	1254
75°	674	694	734	760	770	716
85°	182	210	250	285	298	204
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3725.2	3725.2	3725.2	3725.2	3725.2
2.5°	3727.2	3725.2	3710.0	3721.4	3725.2
5°	3713.8	3710.0	3696.6	3710.0	3711.9
7.5°	3687.0	3685.1	3673.7	3687.0	3690.9
10°	3652.7	3652.7	3641.2	3654.6	3658.4
12.5°	3610.6	3608.7	3599.2	3614.4	3618.3
15°	3555.2	3559.0	3551.4	3566.7	3568.6
17.5°	3494.1	3496.0	3490.3	3503.6	3509.4
20°	3434.9	3425.3	3417.7	3440.6	3442.5
22.5°	3348.9	3352.7	3350.8	3371.8	3375.6
25°	3264.8	3266.8	3268.7	3287.8	3293.5
27.5°	3182.7	3180.8	3186.5	3201.8	3207.5
30°	3073.8	3089.1	3098.6	3110.1	3112.0
32.5°	2980.2	2985.9	2997.4	3005.0	3006.9
35°	2857.9	2886.6	2888.5	2905.7	2907.6
37.5°	2752.9	2762.4	2772.0	2793.0	2796.8
40°	2628.7	2642.1	2653.5	2672.6	2684.1
42.5°	2514.1	2529.3	2540.8	2558.0	2559.9
45°	2376.5	2397.5	2416.6	2435.7	2437.6
47.5°	2250.4	2271.4	2286.7	2302.0	2303.9
50°	2122.4	2139.6	2153.0	2172.1	2172.1
52.5°	1981.1	2002.1	2023.1	2030.7	2030.7
55°	1849.3	1864.5	1885.5	1897.0	1897.0
57.5°	1706.0	1713.6	1736.5	1757.6	1757.6
60°	1564.6	1574.2	1597.1	1612.4	1648.7
62.5°	1413.7	1429.0	1444.2	1493.9	1472.9
65°	1272.3	1276.1	1306.7	1322.0	1327.7
67.5°	1115.7	1129.0	1159.6	1176.8	1188.3
70°	966.7	983.8	1010.6	1031.6	1041.2
72.5°	825.3	832.9	867.3	896.0	909.3
75°	674.4	693.5	733.6	760.3	769.9
77.5°	531.1	561.7	599.9	693.5	640.0
80°	405.0	427.9	496.7	500.5	513.9
82.5°	282.7	309.5	355.3	385.9	401.2
85°	181.5	210.1	250.3	284.6	298.0
87.5°	84.1	114.6	166.2	204.4	215.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)