

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-LD5-32-W-FLWG-UNV-L835-CD4-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-LD5-32-W-FLWG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

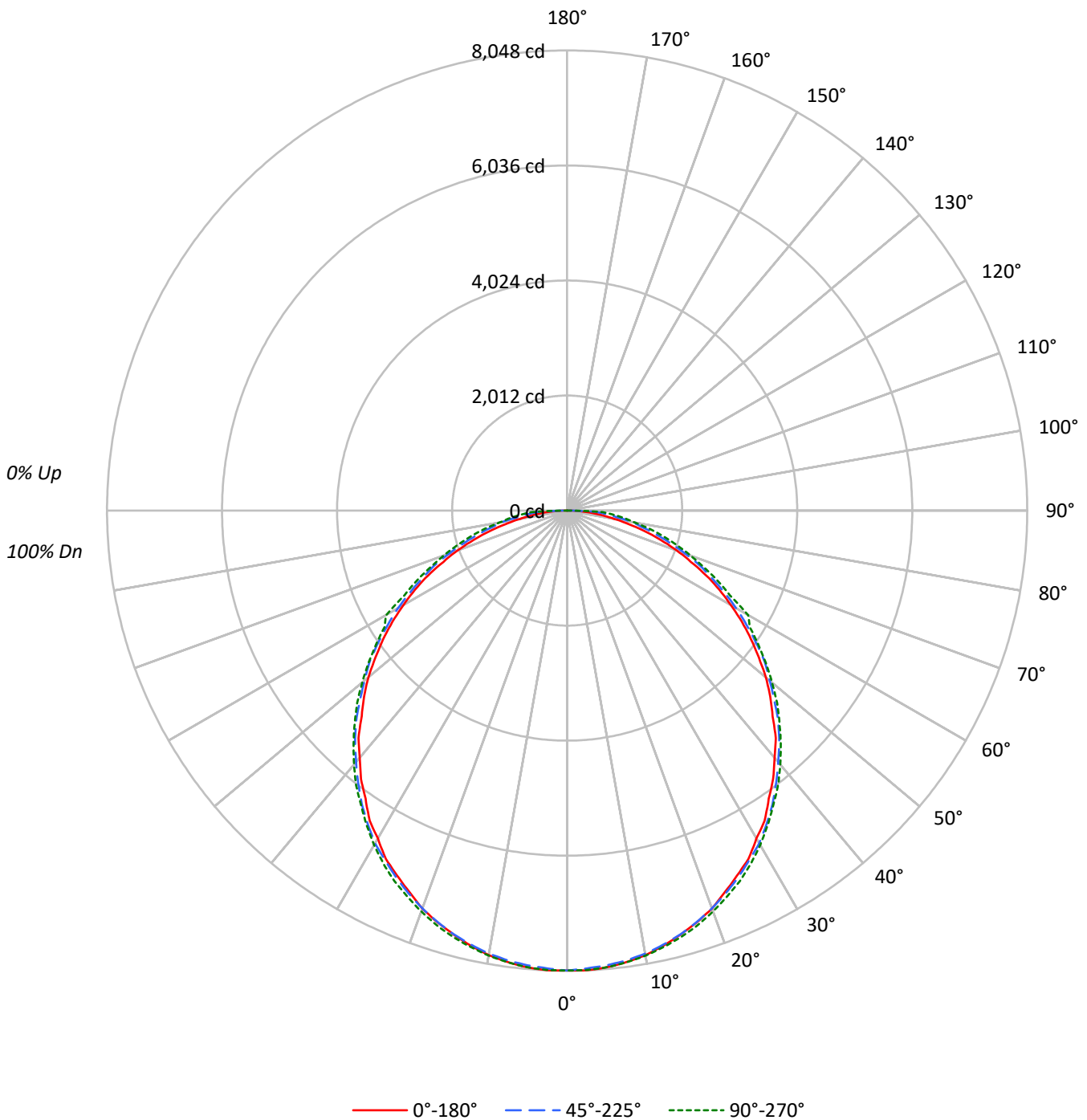
Lumens per Lamp: N/A  
Luminaire Lumens: 22875.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
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	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°	11807	11807	11807
5°	11800	11674	11701
10°	11741	11552	11557
15°	11624	11394	11397
20°	11518	11213	11208
25°	11334	11022	11017
30°	11143	10849	10768
35°	10921	10584	10461
40°	10701	10266	10176
45°	10418	9982	9831
50°	10210	9580	9453
55°	9875	9202	9026
60°	9508	8723	9026
65°	9084	8184	8177
70°	8467	7617	7564
75°	7704	6915	7022
80°	6651	6558	6256
85°	5691	5665	5953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	760.5	3.3
10°-20°	2169.4	9.5
20°-30°	3267.0	14.3
30°-40°	3907.0	17.1
40°-50°	4012.4	17.5
50°-60°	3603.3	15.8
60°-70°	2772.6	12.1
70°-80°	1708.9	7.5
80°-90°	674.0	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°	6196.9	27.1
0°-40°	10103.9	44.2
0°-60°	17719.6	77.5
0°-90°	22875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8044	8044	8044	8044	8044	
5°	8018	8013	7982	8013	8018	761
15°	7675	7688	7671	7702	7719	2166
25°	7039	7048	7078	7131	7149	3246
35°	6148	6236	6262	6284	6284	3856
45°	5082	5161	5222	5244	5253	3936
55°	3928	3980	4037	4081	4077	3511
65°	2686	2712	2791	2888	2905	2648
75°	1422	1496	1610	1716	1742	1502
85°	386	513	667	764	794	442
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8043.9	8043.9	8043.9	8043.9	8043.9
2.5°	8048.2	8043.9	8013.1	8035.1	8043.9
5°	8017.5	8013.1	7982.4	8013.1	8017.5
7.5°	7964.9	7964.9	7934.1	7964.9	7969.3
10°	7894.7	7894.7	7868.3	7894.7	7903.4
12.5°	7793.7	7802.5	7776.2	7806.9	7815.7
15°	7675.2	7688.4	7670.8	7701.6	7719.1
17.5°	7548.0	7552.4	7543.6	7583.1	7600.6
20°	7407.5	7403.2	7403.2	7455.8	7460.2
22.5°	7218.8	7240.8	7245.2	7302.2	7306.6
25°	7038.9	7047.7	7078.4	7131.1	7148.6
27.5°	6867.8	6863.4	6894.1	6942.4	6959.9
30°	6622.0	6665.9	6718.6	6736.1	6753.7
32.5°	6428.9	6442.1	6494.8	6512.3	6525.5
35°	6148.1	6235.9	6262.2	6284.1	6284.1
37.5°	5919.9	5968.2	6003.3	6042.8	6060.3
40°	5643.4	5704.9	5744.4	5783.9	5797.0
42.5°	5402.1	5441.6	5489.8	5520.6	5529.3
45°	5081.7	5160.7	5222.1	5244.1	5252.9
47.5°	4818.4	4906.2	4915.0	4967.6	4980.8
50°	4537.6	4603.4	4625.3	4686.8	4678.0
52.5°	4226.0	4305.0	4357.6	4375.2	4379.6
55°	3927.6	3980.2	4037.3	4081.2	4076.8
57.5°	3624.8	3668.7	3716.9	3782.8	3787.2
60°	3308.8	3361.5	3414.1	3480.0	3655.5
62.5°	3001.6	3032.4	3093.8	3221.1	3207.9
65°	2685.7	2712.0	2791.0	2887.5	2905.1
67.5°	2343.4	2396.0	2514.5	2576.0	2584.7
70°	2040.6	2088.9	2194.2	2273.2	2290.7
72.5°	1720.2	1777.3	1891.4	1992.3	2018.6
75°	1421.8	1496.4	1610.5	1715.8	1742.2
77.5°	1114.6	1211.2	1347.2	1601.8	1478.9
80°	842.6	952.3	1154.1	1184.9	1198.0
82.5°	601.2	719.7	864.5	969.8	1004.9
85°	386.2	513.4	667.0	763.6	794.3
87.5°	215.0	337.9	500.3	596.8	623.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)