

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-LD5-28-W-TWBWG-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 (P34176)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-28-W-TWBWG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD  
DISTRIBUTION

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

**Summary**

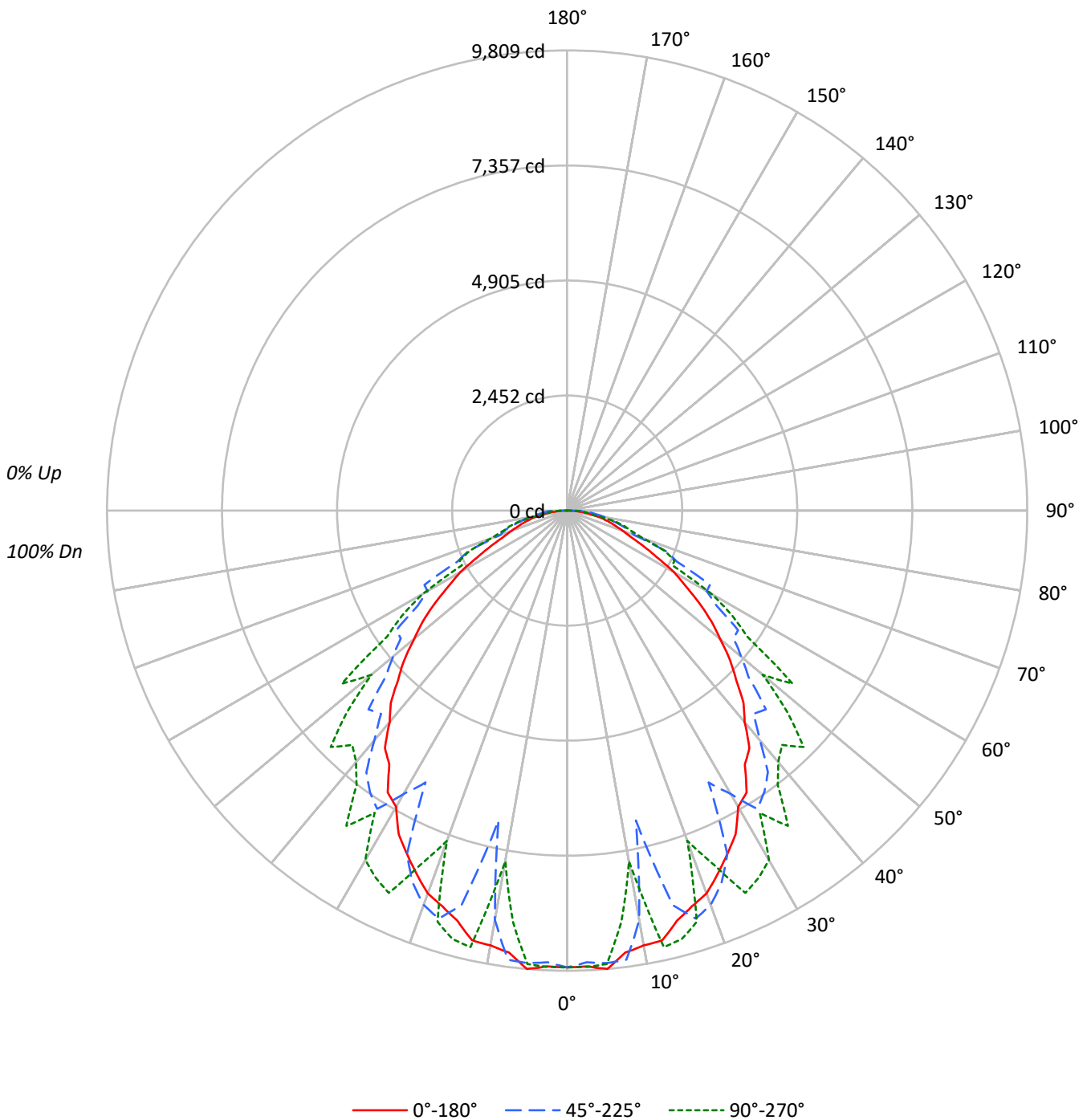
Lumens per Lamp: N/A  
Luminaire Lumens: 23659.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	14292	14292	14292
5°	14437	14157	14162
10°	13998	13010	11097
15°	13706	12932	13958
20°	13503	13547	11248
25°	13004	12581	13860
30°	12268	11260	13714
35°	11737	12379	13658
40°	11161	11424	12281
45°	10442	11453	13341
50°	9582	10033	10994
55°	8629	10137	10366
60°	7562	8769	8763
65°	6066	7573	7110
70°	5217	5269	5647
75°	4951	5058	5021
80°	4560	4763	2977
85°	4228	4297	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	888.0	3.8
10°-20°	2491.5	10.5
20°-30°	3601.9	15.2
30°-40°	4511.1	19.1
40°-50°	4391.3	18.6
50°-60°	3758.8	15.9
60°-70°	2331.8	9.9
70°-80°	1213.4	5.1
80°-90°	471.3	2.0
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°	6981.4	29.5
0°-40°	11492.5	48.6
0°-60°	19642.5	83.0
0°-90°	23659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9737	9737	9737	9737	9737	
5°	9809	9779	9681	9643	9703	916
15°	9050	9084	8706	9503	9454	2562
25°	8076	6694	8080	8306	8994	3711
35°	6607	6887	7325	7264	8204	4175
45°	5093	4572	5992	6128	7128	3940
55°	3432	3757	4448	5308	4682	3069
65°	1793	2012	2582	2186	2526	1820
75°	914	1061	1178	1265	1246	967
85°	287	381	506	581	378	308
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9737.2	9737.2	9737.2	9737.2	9737.2
2.5°	9725.9	9684.4	9639.1	9718.4	9733.5
5°	9809.0	9778.8	9680.6	9642.9	9703.3
7.5°	9503.2	9567.3	9658.0	9167.1	8850.0
10°	9412.5	9378.6	8861.3	6822.5	7588.9
12.5°	9382.3	9340.8	6765.9	9484.3	9529.6
15°	9050.1	9084.1	8706.5	9503.2	9454.1
17.5°	8846.2	8378.0	9118.0	9276.6	9189.8
20°	8683.9	7302.0	8944.4	8521.5	7487.0
22.5°	8385.6	6225.9	8597.0	6837.6	8166.6
25°	8076.0	6694.1	8079.8	8306.3	8993.5
27.5°	7777.7	7585.2	6535.5	8668.8	8831.1
30°	7290.7	7521.0	6973.5	8487.5	8600.8
32.5°	7120.8	7181.2	7539.9	8015.6	7638.0
35°	6607.3	6886.7	7324.6	7264.2	8204.4
37.5°	6380.7	6460.0	7030.1	7649.3	7369.9
40°	5886.1	6007.0	6392.1	6758.3	6996.2
42.5°	5565.2	5161.2	5874.8	6550.6	6777.2
45°	5093.3	4572.2	5991.9	6127.8	7128.3
47.5°	4708.2	4542.0	5244.3	6377.0	6377.0
50°	4258.9	4477.8	4844.1	5697.4	5440.6
52.5°	3873.8	4172.0	4470.3	4953.6	6059.8
55°	3432.0	3756.7	4447.6	5308.5	4681.7
57.5°	2997.8	3273.4	3775.6	4066.3	4175.8
60°	2631.6	2899.7	3432.0	3654.8	3549.1
62.5°	2159.6	2499.4	3432.0	2880.8	2525.9
65°	1793.4	2012.4	2582.5	2186.1	2525.9
67.5°	1472.5	1699.0	2295.6	2110.6	2250.3
70°	1257.3	1419.6	1517.8	1887.8	1710.3
72.5°	1076.0	1193.1	1389.4	1427.2	1419.6
75°	913.7	1060.9	1178.0	1264.8	1245.9
77.5°	758.9	966.6	970.3	1162.9	1011.9
80°	577.7	660.7	838.2	758.9	570.1
82.5°	422.9	517.3	638.1	657.0	502.2
85°	286.9	381.3	505.9	581.4	377.6
87.5°	132.1	260.5	411.5	521.0	343.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)