

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-CLWG-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 (P34178)  
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-CLWG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUTION

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

**Summary**

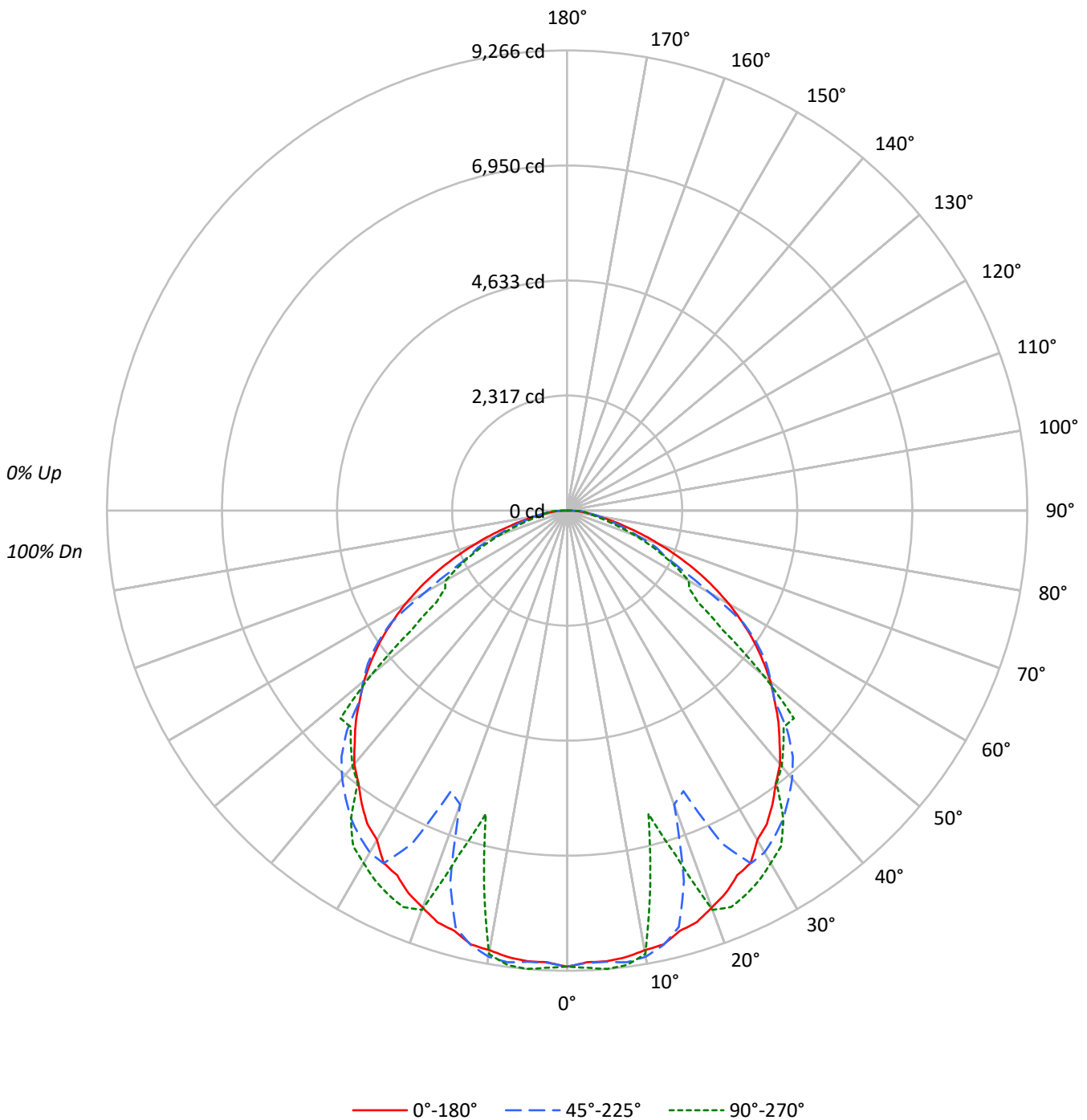
Lumens per Lamp: N/A  
Luminaire Lumens: 23779.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
Input Voltage (V):  
Input Current (Ain): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

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

	0°	45°	90°
0°	13479	13479	13479
5°	13410	13335	13523
10°	13370	13388	13257
15°	13273	12900	9332
20°	13228	9539	12854
25°	13047	11530	13145
30°	12885	12834	13070
35°	12804	12814	12640
40°	12644	12599	11798
45°	12339	11995	11533
50°	12013	11098	10423
55°	11544	10637	7098
60°	10806	8509	6983
65°	9719	6333	6015
70°	8146	5400	4775
75°	6383	4328	3515
80°	4858	3690	2681
85°	4396	3143	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	871.9	3.7
10°-20°	2310.8	9.7
20°-30°	3684.5	15.5
30°-40°	4422.3	18.6
40°-50°	4703.2	19.8
50°-60°	3847.8	16.2
60°-70°	2439.6	10.3
70°-80°	1127.0	4.7
80°-90°	371.7	1.6
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°	6867.2	28.9
0°-40°	11289.6	47.5
0°-60°	19840.6	83.4
0°-90°	23779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9183	9183	9183	9183	9183	
5°	9111	9115	9119	9190	9266	866
15°	8764	8900	8684	6842	6321	2484
25°	8103	8126	7404	8454	8530	3753
35°	7208	5403	7582	7725	7593	4504
45°	6019	6045	6275	6121	6162	4636
55°	4591	4833	4667	3617	3206	4089
65°	2873	2922	2160	2175	2137	2833
75°	1178	1118	1008	933	872	1290
85°	298	325	370	370	359	322
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9182.8	9182.8	9182.8	9182.8	9182.8
2.5°	9103.5	9118.6	9114.8	9182.8	9213.0
5°	9111.1	9114.8	9118.6	9190.4	9265.9
7.5°	9069.5	9148.8	9175.3	9148.8	9228.1
10°	8990.2	9062.0	9118.6	9039.3	9065.8
12.5°	8948.7	9054.4	8960.0	8571.1	7725.3
15°	8763.7	8899.6	8684.4	6841.8	6320.7
17.5°	8688.2	8778.8	7827.3	6290.5	7276.0
20°	8506.9	8631.5	6298.1	8087.8	8556.0
22.5°	8340.8	8431.4	6113.1	8506.9	8639.1
25°	8102.9	8125.6	7404.4	8454.1	8529.6
27.5°	8001.0	7661.1	8008.5	8344.6	8386.1
30°	7657.4	6958.8	7948.1	8193.5	8197.3
32.5°	7483.7	6060.2	7778.2	7974.5	8016.1
35°	7208.0	5403.2	7581.9	7725.3	7593.2
37.5°	6906.0	5308.8	7321.3	7245.8	6924.9
40°	6668.1	5792.1	7049.5	6581.3	6721.0
42.5°	6332.1	6086.6	6724.7	6418.9	6445.3
45°	6018.7	6045.1	6275.4	6120.6	6162.1
47.5°	5663.7	5837.4	5660.0	5863.9	6192.4
50°	5339.0	5524.0	5357.9	5693.9	5157.8
52.5°	4969.0	5199.3	5059.6	4580.1	3957.1
55°	4591.4	4833.1	4666.9	3617.2	3205.7
57.5°	4179.8	4380.0	4206.3	2964.0	2911.2
60°	3760.7	3919.3	3330.3	2699.7	2828.1
62.5°	3318.9	3417.1	2628.0	2488.3	2480.7
65°	2873.4	2922.5	2159.8	2174.9	2137.1
67.5°	2409.0	2431.6	1944.5	1842.6	1786.0
70°	1963.4	1948.3	1555.6	1499.0	1446.1
72.5°	1555.6	1483.9	1264.9	1189.4	1125.2
75°	1178.1	1117.6	1008.1	932.6	872.2
77.5°	876.0	842.0	789.1	796.7	668.3
80°	615.5	619.2	649.4	551.3	513.5
82.5°	426.7	449.3	464.4	456.9	445.5
85°	298.3	324.7	370.0	370.0	358.7
87.5°	151.0	222.8	298.3	317.2	309.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)