

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-FLWG-UNV-L840-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-LD5-28-W-FLWG-UNV-L840-CD4-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION  
  
Light Source: (1) 4000 CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

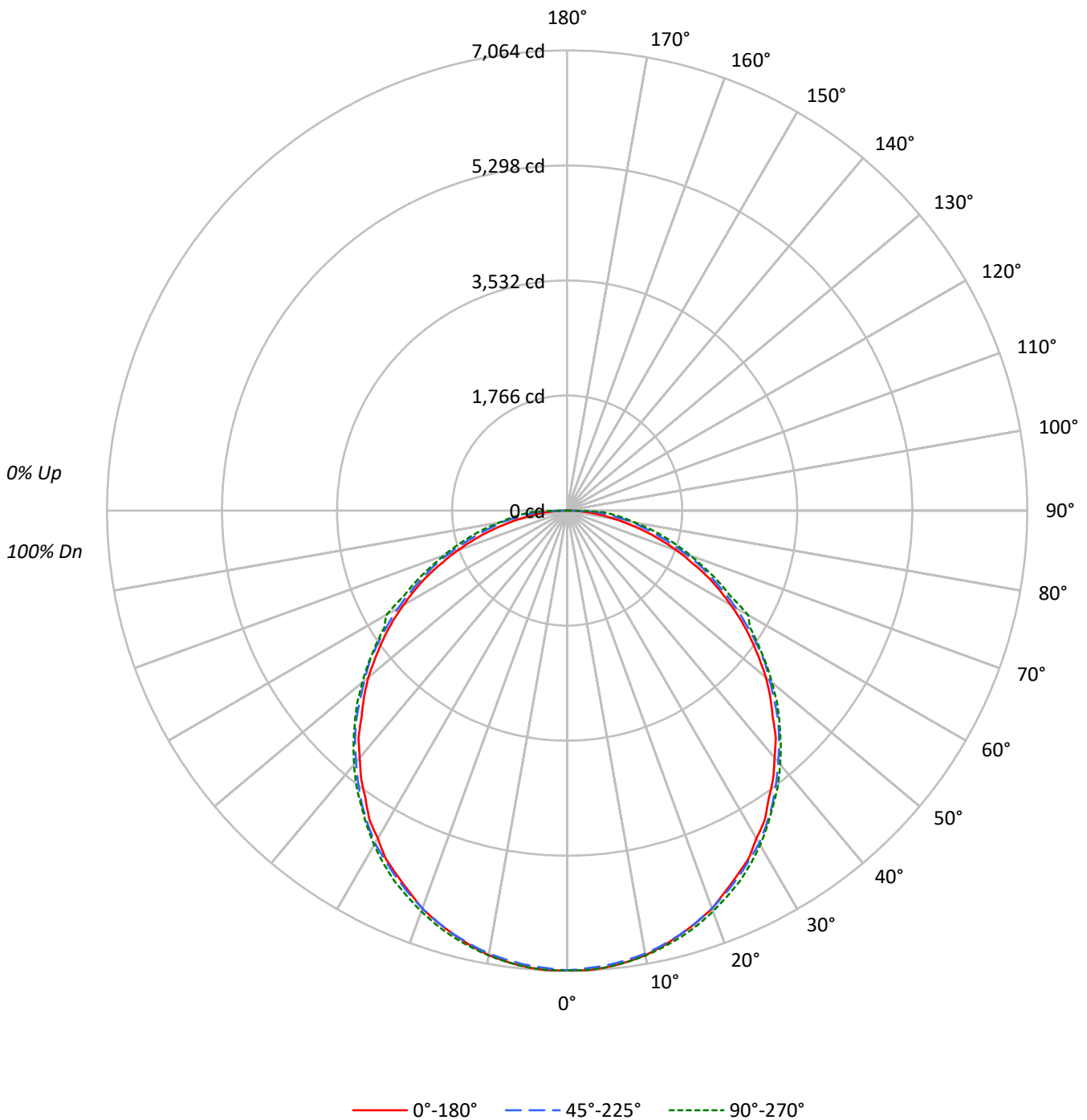
Lumens per Lamp: N/A  
Luminaire Lumens: 20076.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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	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°	10362	10362	10362
5°	10356	10245	10270
10°	10304	10139	10143
15°	10202	10000	10002
20°	10109	9841	9837
25°	9947	9673	9669
30°	9780	9521	9451
35°	9585	9289	9181
40°	9392	9010	8931
45°	9144	8761	8628
50°	8960	8408	8297
55°	8666	8076	7922
60°	8344	7656	7921
65°	7973	7183	7176
70°	7431	6685	6638
75°	6762	6069	6162
80°	5837	5755	5490
85°	4994	4972	5225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.5	3.3
10°-20°	1903.9	9.5
20°-30°	2867.2	14.3
30°-40°	3428.9	17.1
40°-50°	3521.5	17.5
50°-60°	3162.4	15.8
60°-70°	2433.3	12.1
70°-80°	1499.8	7.5
80°-90°	591.5	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°	5438.6	27.1
0°-40°	8867.5	44.2
0°-60°	15551.4	77.5
0°-90°	20076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7060	7060	7060	7060	7060	
5°	7036	7033	7006	7033	7036	668
15°	6736	6748	6732	6759	6775	1901
25°	6178	6185	6212	6258	6274	2849
35°	5396	5473	5496	5515	5515	3384
45°	4460	4529	4583	4602	4610	3455
55°	3447	3493	3543	3582	3578	3082
65°	2357	2380	2450	2534	2550	2324
75°	1248	1313	1414	1506	1529	1319
85°	339	451	585	670	697	388
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7059.6	7059.6	7059.6	7059.6	7059.6
2.5°	7063.5	7059.6	7032.6	7051.9	7059.6
5°	7036.5	7032.6	7005.7	7032.6	7036.5
7.5°	6990.3	6990.3	6963.3	6990.3	6994.1
10°	6928.7	6928.7	6905.5	6928.7	6936.4
12.5°	6840.1	6847.8	6824.7	6851.6	6859.3
15°	6736.1	6747.6	6732.2	6759.2	6774.6
17.5°	6624.4	6628.2	6620.5	6655.2	6670.6
20°	6501.2	6497.3	6497.3	6543.5	6547.4
22.5°	6335.5	6354.8	6358.7	6408.7	6412.6
25°	6177.6	6185.3	6212.3	6258.5	6273.9
27.5°	6027.4	6023.6	6050.5	6092.9	6108.3
30°	5811.8	5850.3	5896.5	5911.9	5927.3
32.5°	5642.3	5653.8	5700.1	5715.5	5727.0
35°	5395.8	5472.8	5495.9	5515.2	5515.2
37.5°	5195.5	5237.9	5268.7	5303.4	5318.8
40°	4952.9	5006.8	5041.5	5076.1	5087.7
42.5°	4741.1	4775.7	4818.1	4845.1	4852.8
45°	4459.9	4529.2	4583.2	4602.4	4610.1
47.5°	4228.8	4305.9	4313.6	4359.8	4371.3
50°	3982.3	4040.1	4059.4	4113.3	4105.6
52.5°	3708.9	3778.2	3824.4	3839.8	3843.7
55°	3447.0	3493.2	3543.3	3581.8	3577.9
57.5°	3181.3	3219.8	3262.1	3319.9	3323.8
60°	2904.0	2950.2	2996.4	3054.2	3208.2
62.5°	2634.4	2661.3	2715.2	2826.9	2815.4
65°	2357.1	2380.2	2449.5	2534.2	2549.6
67.5°	2056.6	2102.9	2206.8	2260.8	2268.5
70°	1790.9	1833.3	1925.7	1995.0	2010.4
72.5°	1509.7	1559.8	1660.0	1748.5	1771.6
75°	1247.9	1313.3	1413.5	1505.9	1529.0
77.5°	978.3	1063.0	1182.4	1405.8	1297.9
80°	739.5	835.8	1012.9	1039.9	1051.4
82.5°	527.6	631.6	758.7	851.2	882.0
85°	338.9	450.6	585.4	670.1	697.1
87.5°	188.7	296.6	439.1	523.8	546.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)