

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-LD5-18-W-FLWG-UNV-L840-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 (P34182)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-18-W-FLWG-UNV-L840-CD2-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**

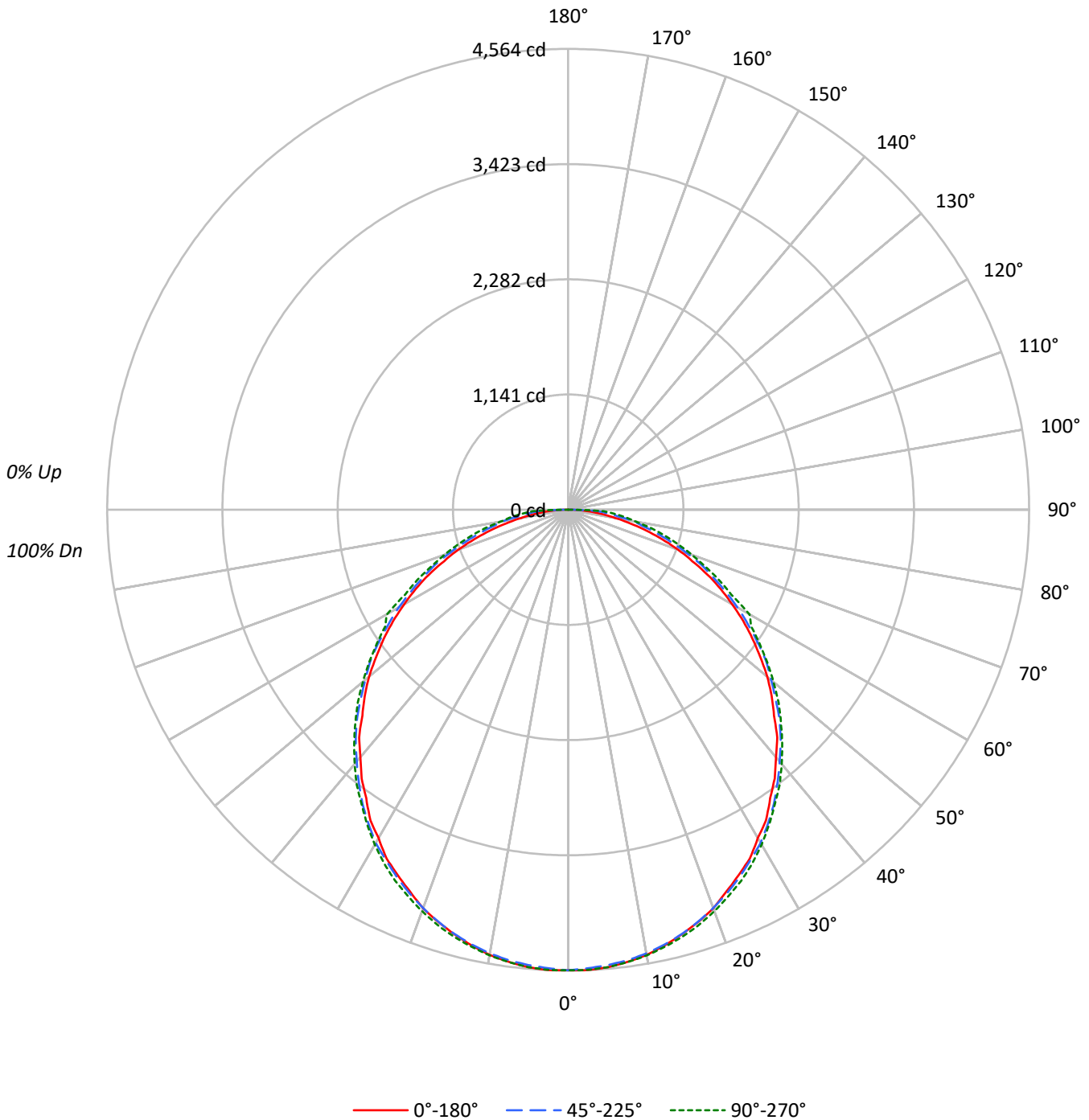
Lumens per Lamp: N/A  
Luminaire Lumens: 12973.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
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°	6696	6696	6696
5°	6692	6620	6636
10°	6659	6552	6554
15°	6592	6462	6463
20°	6532	6359	6356
25°	6428	6251	6248
30°	6320	6153	6107
35°	6193	6002	5933
40°	6069	5822	5771
45°	5909	5661	5576
50°	5790	5433	5361
55°	5600	5218	5119
60°	5392	4947	5119
65°	5152	4641	4637
70°	4802	4320	4290
75°	4369	3922	3982
80°	3771	3719	3548
85°	3227	3213	3377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.3	3.3
10°-20°	1230.3	9.5
20°-30°	1852.8	14.3
30°-40°	2215.8	17.1
40°-50°	2275.5	17.5
50°-60°	2043.5	15.8
60°-70°	1572.4	12.1
70°-80°	969.2	7.5
80°-90°	382.2	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°	3514.4	27.1
0°-40°	5730.2	44.2
0°-60°	10049.2	77.5
0°-90°	12973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4562	4562	4562	4562	4562	
5°	4547	4544	4527	4544	4547	432
15°	4353	4360	4350	4368	4378	1229
25°	3992	3997	4014	4044	4054	1841
35°	3487	3536	3551	3564	3564	2187
45°	2882	2927	2962	2974	2979	2232
55°	2227	2257	2290	2314	2312	1991
65°	1523	1538	1583	1638	1648	1502
75°	806	849	913	973	988	852
85°	219	291	378	433	450	251
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4561.9	4561.9	4561.9	4561.9	4561.9
2.5°	4564.4	4561.9	4544.5	4556.9	4561.9
5°	4546.9	4544.5	4527.0	4544.5	4546.9
7.5°	4517.1	4517.1	4499.7	4517.1	4519.6
10°	4477.3	4477.3	4462.3	4477.3	4482.2
12.5°	4420.0	4425.0	4410.1	4427.5	4432.5
15°	4352.8	4360.3	4350.3	4367.8	4377.7
17.5°	4280.6	4283.1	4278.2	4300.6	4310.5
20°	4201.0	4198.5	4198.5	4228.4	4230.9
22.5°	4094.0	4106.4	4108.9	4141.3	4143.8
25°	3992.0	3996.9	4014.4	4044.2	4054.2
27.5°	3894.9	3892.4	3909.8	3937.2	3947.2
30°	3755.5	3780.4	3810.3	3820.2	3830.2
32.5°	3646.0	3653.5	3683.3	3693.3	3700.8
35°	3486.7	3536.5	3551.4	3563.9	3563.9
37.5°	3357.3	3384.7	3404.6	3427.0	3437.0
40°	3200.5	3235.4	3257.8	3280.2	3287.6
42.5°	3063.7	3086.0	3113.4	3130.8	3135.8
45°	2882.0	2926.8	2961.6	2974.1	2979.0
47.5°	2732.6	2782.4	2787.4	2817.3	2824.7
50°	2573.4	2610.7	2623.1	2658.0	2653.0
52.5°	2396.7	2441.5	2471.3	2481.3	2483.8
55°	2227.4	2257.3	2289.6	2314.5	2312.0
57.5°	2055.7	2080.6	2108.0	2145.3	2147.8
60°	1876.5	1906.4	1936.2	1973.6	2073.1
62.5°	1702.3	1719.7	1754.6	1826.7	1819.3
65°	1523.1	1538.0	1582.8	1637.6	1647.6
67.5°	1329.0	1358.9	1426.1	1460.9	1465.9
70°	1157.3	1184.6	1244.4	1289.2	1299.1
72.5°	975.6	1007.9	1072.7	1129.9	1144.8
75°	806.4	848.7	913.4	973.1	988.0
77.5°	632.1	686.9	764.0	908.4	838.7
80°	477.8	540.1	654.5	672.0	679.4
82.5°	341.0	408.2	490.3	550.0	569.9
85°	219.0	291.2	378.3	433.0	450.5
87.5°	121.9	191.6	283.7	338.5	353.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)