

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-CLWG-UNV-L835-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 (P34178)  
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-CLWG-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION  
  
Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

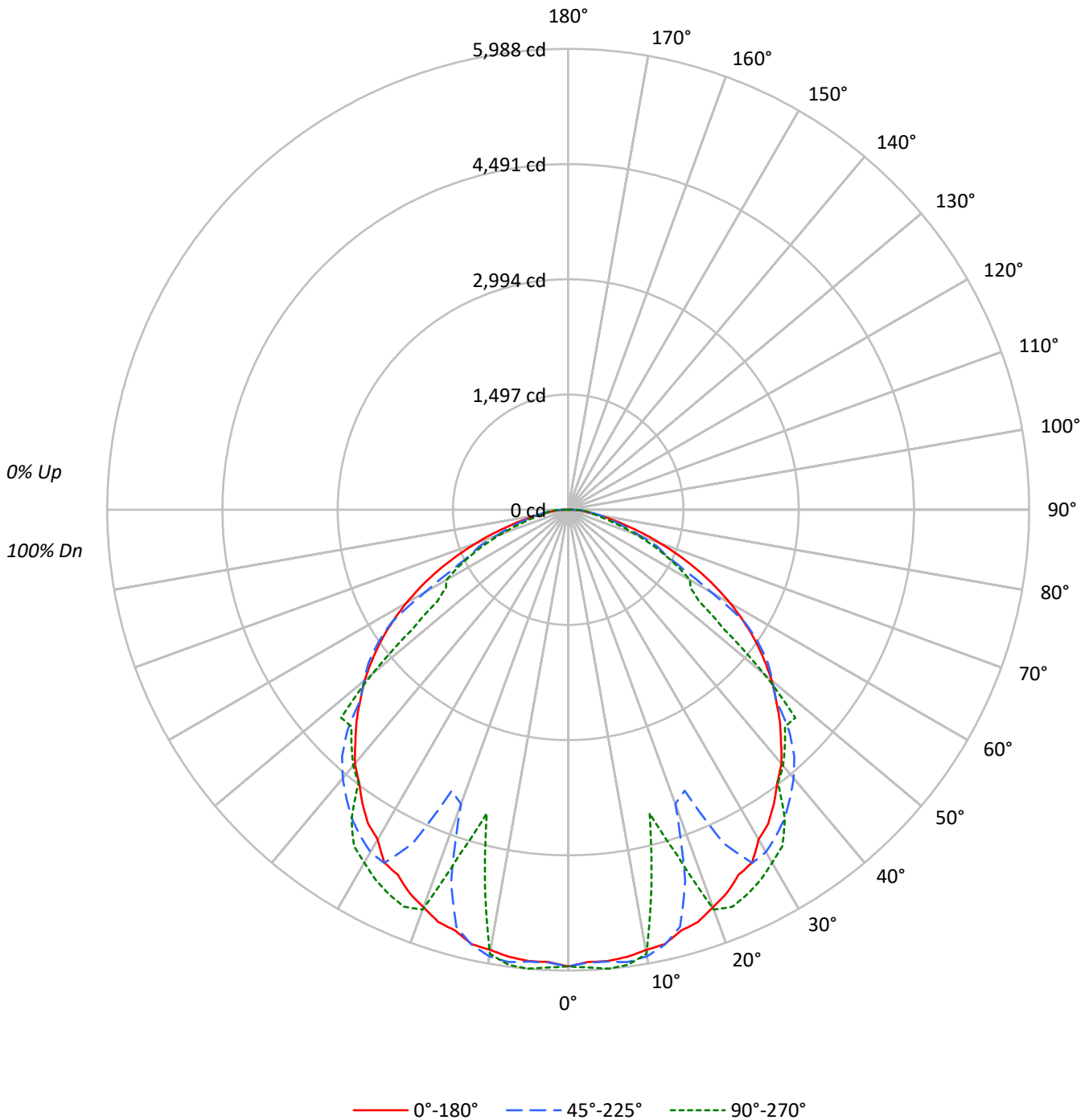
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15366.0 lumens  
Efficiency: N/A  
Efficacy: 117.0 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): 131.3  
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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

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

	0°	45°	90°
0°	8710	8710	8710
5°	8665	8617	8739
10°	8640	8651	8567
15°	8577	8336	6030
20°	8548	6164	8306
25°	8431	7450	8494
30°	8326	8293	8446
35°	8274	8281	8168
40°	8171	8141	7624
45°	7974	7751	7453
50°	7763	7171	6735
55°	7460	6874	4586
60°	6983	5499	4512
65°	6281	4093	3887
70°	5264	3490	3086
75°	4125	2797	2271
80°	3139	2385	1733
85°	2841	2031	1737



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.4	3.7
10°-20°	1493.3	9.7
20°-30°	2380.9	15.5
30°-40°	2857.7	18.6
40°-50°	3039.2	19.8
50°-60°	2486.5	16.2
60°-70°	1576.5	10.3
70°-80°	728.3	4.7
80°-90°	240.2	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°	4437.6	28.9
0°-40°	7295.3	47.5
0°-60°	12821.0	83.4
0°-90°	15366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15366.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5934	5934	5934	5934	5934	
5°	5888	5890	5892	5939	5988	559
15°	5663	5751	5612	4421	4084	1605
25°	5236	5251	4785	5463	5512	2425
35°	4658	3492	4899	4992	4907	2910
45°	3889	3906	4055	3955	3982	2996
55°	2967	3123	3016	2338	2072	2642
65°	1857	1888	1396	1405	1381	1831
75°	761	722	652	603	564	834
85°	193	210	239	239	232	208
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5933.9	5933.9	5933.9	5933.9	5933.9
2.5°	5882.7	5892.5	5890.0	5933.9	5953.5
5°	5887.6	5890.0	5892.5	5938.8	5987.6
7.5°	5860.7	5912.0	5929.1	5912.0	5963.2
10°	5809.5	5855.9	5892.5	5841.2	5858.3
12.5°	5782.7	5851.0	5790.0	5538.7	4992.1
15°	5663.1	5750.9	5611.9	4421.2	4084.5
17.5°	5614.3	5672.9	5058.0	4064.9	4701.8
20°	5497.2	5577.7	4069.8	5226.3	5528.9
22.5°	5389.8	5448.4	3950.3	5497.2	5582.6
25°	5236.1	5250.7	4784.7	5463.0	5511.8
27.5°	5170.2	4950.6	5175.1	5392.3	5419.1
30°	4948.2	4496.8	5136.1	5294.7	5297.1
32.5°	4836.0	3916.1	5026.3	5153.2	5180.0
35°	4657.8	3491.6	4899.4	4992.1	4906.7
37.5°	4462.6	3430.6	4731.0	4682.2	4474.8
40°	4308.9	3742.9	4555.4	4252.8	4343.1
42.5°	4091.8	3933.2	4345.5	4147.9	4165.0
45°	3889.3	3906.3	4055.2	3955.1	3982.0
47.5°	3659.9	3772.1	3657.5	3789.2	4001.5
50°	3450.1	3569.6	3462.3	3679.4	3333.0
52.5°	3211.0	3359.8	3269.5	2959.6	2557.1
55°	2967.0	3123.1	3015.8	2337.5	2071.5
57.5°	2701.0	2830.3	2718.1	1915.4	1881.2
60°	2430.2	2532.7	2152.0	1744.6	1827.5
62.5°	2144.7	2208.1	1698.2	1607.9	1603.0
65°	1856.8	1888.5	1395.6	1405.4	1381.0
67.5°	1556.7	1571.3	1256.6	1190.7	1154.1
70°	1268.8	1259.0	1005.3	968.7	934.5
72.5°	1005.3	958.9	817.4	768.6	727.1
75°	761.3	722.2	651.5	602.7	563.6
77.5°	566.1	544.1	509.9	514.8	431.9
80°	397.7	400.2	419.7	356.2	331.8
82.5°	275.7	290.4	300.1	295.2	287.9
85°	192.8	209.8	239.1	239.1	231.8
87.5°	97.6	144.0	192.8	205.0	200.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)