

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-LD5-22-W-FLUPL-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 (P34183)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-W-FLUPL-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

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

**Summary**

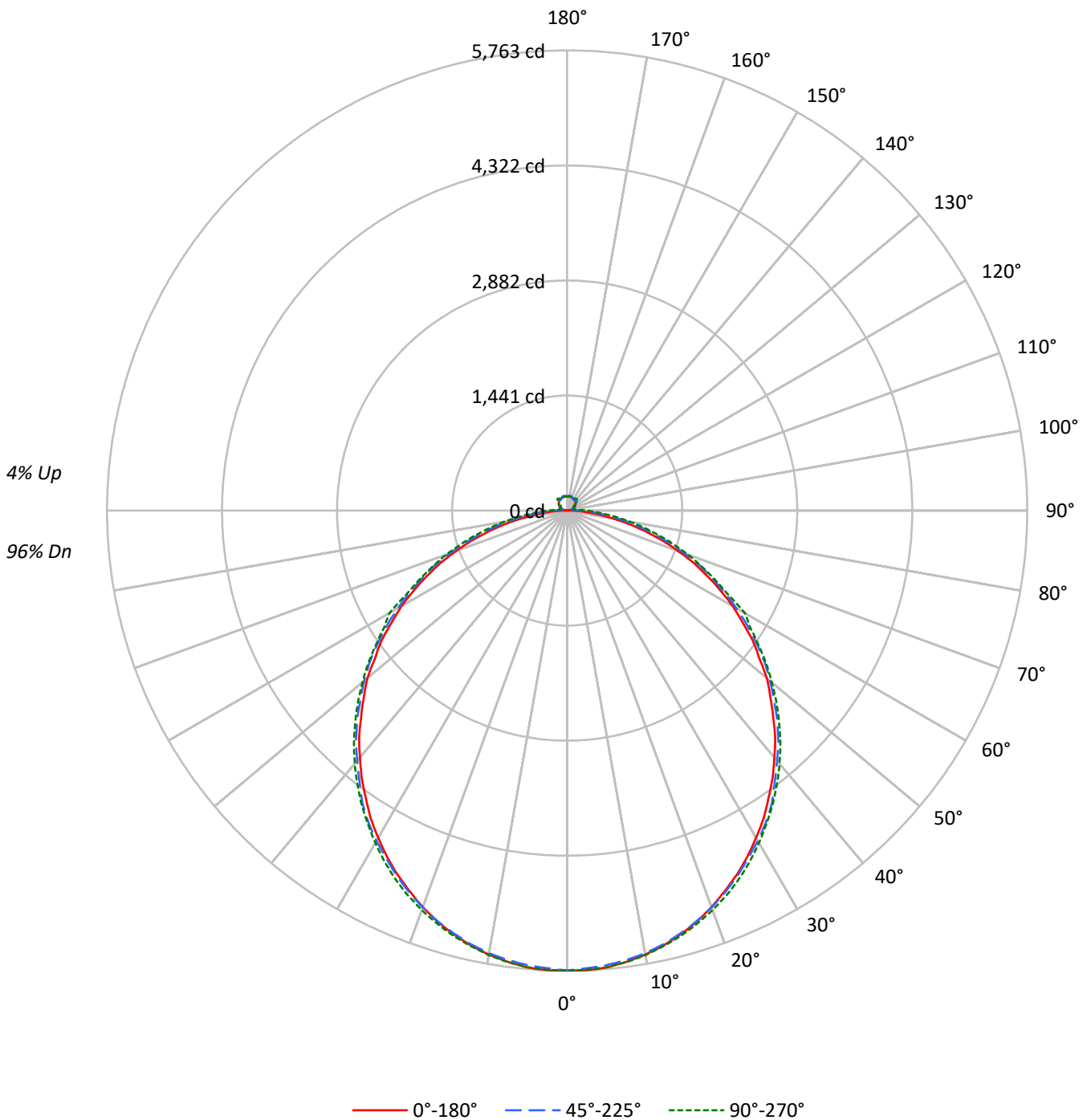
Lumens per Lamp: N/A  
Luminaire Lumens: 17000.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	86	84	82	79
2	98	89	82	76	95	87	81	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	63	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	42	38	36
7	64	50	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	31	43	36	31	42	35	31	40	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	8454	8454	8454
5°	8451	8358	8376
10°	8397	8264	8265
15°	8321	8143	8138
20°	8219	8010	7999
25°	8098	7859	7847
30°	7961	7712	7662
35°	7811	7558	7474
40°	7654	7310	7264
45°	7481	7112	7025
50°	7345	6872	6759
55°	7135	6591	6469
60°	6887	6254	6352
65°	6544	5857	5739
70°	6123	5392	5306
75°	5557	4813	4758
80°	4777	4083	4141
85°	3822	3241	3441



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.3	3.2
10°-20°	1550.9	9.1
20°-30°	2330.3	13.7
30°-40°	2788.1	16.4
40°-50°	2866.4	16.9
50°-60°	2581.5	15.2
60°-70°	1984.0	11.7
70°-80°	1181.2	6.9
80°-90°	428.0	2.5
90°-100°	92.2	0.5
100°-110°	76.7	0.5
110°-120°	90.4	0.5
120°-130°	111.8	0.7
130°-140°	122.1	0.7
140°-150°	104.8	0.6
150°-160°	78.9	0.5
160°-170°	51.2	0.3
170°-180°	17.2	0.1
0°-30°	4425.5	26.0
0°-40°	7213.6	42.4
0°-60°	12661.5	74.5
0°-90°	16254.6	95.6
90°-120°	259.3	1.5
90°-150°	598.0	3.5
90°-180°	745.0	4.4
0°-180°	17000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5760	5760	5760	5760	5760	
5°	5742	5739	5715	5736	5739	545
15°	5494	5497	5482	5506	5512	1549
25°	5029	5038	5047	5083	5092	2316
35°	4397	4451	4472	4481	4490	2753
45°	3649	3688	3720	3756	3753	2820
55°	2838	2850	2892	2916	2922	2528
65°	1935	1953	1997	2036	2039	1918
75°	1026	1055	1121	1184	1180	1089
85°	259	310	382	438	459	285
90°	6	78	155	212	230	20
95°	21	51	74	107	119	21
105°	63	54	69	110	98	65
115°	98	110	78	80	80	97
125°	125	125	143	116	101	112
135°	146	143	164	173	170	114
145°	161	164	158	173	185	101
155°	170	182	170	164	164	79
165°	176	182	188	182	176	50
175°	179	179	182	179	173	17
180°	176	176	176	176	176	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5759.6	5759.6	5759.6	5759.6	5759.6
2.5°	5762.6	5759.6	5735.8	5753.7	5756.7
5°	5741.7	5738.8	5714.9	5735.8	5738.8
7.5°	5700.0	5700.0	5676.2	5700.0	5703.0
10°	5646.3	5646.3	5628.5	5649.3	5652.3
12.5°	5577.8	5580.8	5562.9	5586.7	5586.7
15°	5494.3	5497.3	5482.4	5506.2	5512.2
17.5°	5398.9	5398.9	5392.9	5419.8	5422.8
20°	5285.6	5300.5	5288.6	5318.4	5324.4
22.5°	5157.4	5172.3	5172.3	5205.1	5214.1
25°	5029.2	5038.2	5047.1	5082.9	5091.9
27.5°	4886.1	4904.0	4907.0	4945.8	4954.7
30°	4731.1	4760.9	4775.8	4799.7	4805.7
32.5°	4576.1	4614.9	4632.7	4644.7	4647.7
35°	4397.2	4450.9	4471.8	4480.7	4489.7
37.5°	4224.3	4269.0	4275.0	4307.8	4316.7
40°	4036.5	4090.2	4090.2	4128.9	4137.9
42.5°	3857.6	3869.6	3914.3	3941.1	3953.0
45°	3649.0	3687.7	3720.5	3756.3	3753.3
47.5°	3452.2	3502.9	3511.8	3544.6	3553.6
50°	3264.4	3300.2	3318.0	3344.9	3344.9
52.5°	3031.9	3079.6	3118.3	3133.2	3142.2
55°	2838.1	2850.0	2891.7	2915.6	2921.6
57.5°	2602.6	2632.4	2671.1	2700.9	2715.9
60°	2396.9	2414.8	2447.5	2489.3	2572.8
62.5°	2164.3	2185.2	2226.9	2352.1	2265.7
65°	1934.8	1952.7	1997.4	2036.1	2039.1
67.5°	1717.2	1735.0	1797.6	1809.6	1818.5
70°	1475.7	1499.5	1553.2	1591.9	1606.9
72.5°	1255.1	1275.9	1329.6	1374.3	1389.2
75°	1025.5	1055.3	1120.9	1183.5	1180.5
77.5°	807.9	861.6	915.2	965.9	980.8
80°	605.2	646.9	718.5	772.1	793.0
82.5°	423.3	471.0	542.6	596.2	617.1
85°	259.4	310.0	381.6	438.2	459.1
87.5°	125.2	175.9	253.4	310.0	333.9
90°	6.0	77.5	155.0	211.7	229.6
92.5°	11.9	44.7	101.4	146.1	161.0
95°	20.9	50.7	74.5	107.3	119.2
97.5°	29.8	44.7	65.6	86.5	95.4
100°	41.7	44.7	74.5	77.5	83.5
102.5°	50.7	47.7	71.5	77.5	77.5
105°	62.6	53.7	68.6	110.3	98.4
107.5°	71.5	74.5	65.6	77.5	83.5
110°	80.5	86.5	71.5	83.5	83.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	89.4	98.4	77.5	77.5	83.5
115°	98.4	110.3	77.5	80.5	80.5
117.5°	107.3	113.3	92.4	86.5	86.5
120°	113.3	116.3	116.3	86.5	92.4
122.5°	119.2	122.2	131.2	95.4	92.4
125°	125.2	125.2	143.1	116.3	101.4
127.5°	131.2	131.2	152.0	137.1	122.2
130°	137.1	131.2	161.0	149.1	143.1
132.5°	143.1	137.1	164.0	161.0	155.0
135°	146.1	143.1	164.0	172.9	169.9
137.5°	152.0	149.1	158.0	181.9	178.9
140°	155.0	155.0	158.0	181.9	187.8
142.5°	158.0	158.0	158.0	178.9	187.8
145°	161.0	164.0	158.0	172.9	184.8
147.5°	164.0	169.9	158.0	169.9	175.9
150°	166.9	172.9	158.0	166.9	169.9
152.5°	169.9	178.9	164.0	164.0	166.9
155°	169.9	181.9	169.9	164.0	164.0
157.5°	172.9	181.9	172.9	164.0	164.0
160°	172.9	184.8	178.9	169.9	166.9
162.5°	175.9	184.8	184.8	175.9	172.9
165°	175.9	181.9	187.8	181.9	175.9
167.5°	178.9	181.9	187.8	184.8	178.9
170°	178.9	181.9	184.8	184.8	178.9
172.5°	178.9	181.9	184.8	181.9	178.9
175°	178.9	178.9	181.9	178.9	172.9
177.5°	178.9	178.9	178.9	175.9	172.9
180°	175.9	175.9	175.9	175.9	175.9

(END OF REPORT)