

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-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-LD5-18-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**

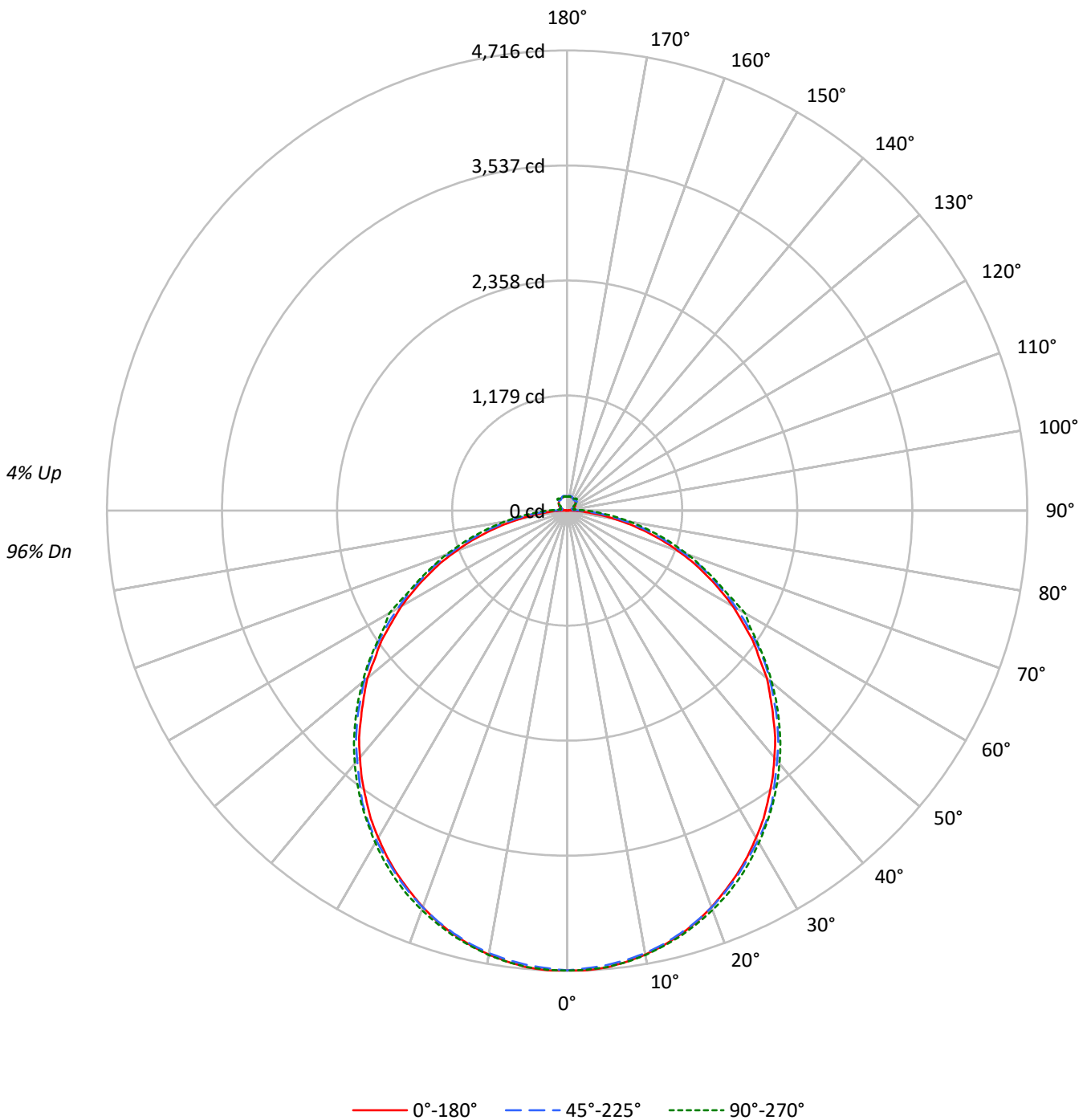
Lumens per Lamp: N/A  
Luminaire Lumens: 13911.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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	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°	6918	6918	6918
5°	6915	6839	6854
10°	6871	6762	6764
15°	6809	6664	6660
20°	6725	6555	6546
25°	6626	6431	6421
30°	6515	6310	6270
35°	6392	6184	6116
40°	6263	5982	5944
45°	6122	5819	5748
50°	6010	5624	5531
55°	5839	5393	5293
60°	5636	5117	5198
65°	5355	4793	4697
70°	5010	4412	4342
75°	4547	3938	3893
80°	3909	3341	3389
85°	3127	2653	2816



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.4	3.2
10°-20°	1269.1	9.1
20°-30°	1906.9	13.7
30°-40°	2281.5	16.4
40°-50°	2345.5	16.9
50°-60°	2112.4	15.2
60°-70°	1623.5	11.7
70°-80°	966.5	6.9
80°-90°	350.2	2.5
90°-100°	75.5	0.5
100°-110°	62.7	0.5
110°-120°	73.9	0.5
120°-130°	91.5	0.7
130°-140°	99.9	0.7
140°-150°	85.8	0.6
150°-160°	64.5	0.5
160°-170°	41.9	0.3
170°-180°	14.1	0.1
0°-30°	3621.4	26.0
0°-40°	5902.8	42.4
0°-60°	10360.8	74.5
0°-90°	13301.1	95.6
90°-120°	212.1	1.5
90°-150°	489.3	3.5
90°-180°	610.0	4.4
0°-180°	13911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4713	4713	4713	4713	4713	
5°	4698	4696	4676	4694	4696	446
15°	4496	4498	4486	4506	4511	1268
25°	4115	4123	4130	4159	4167	1895
35°	3598	3642	3659	3666	3674	2252
45°	2986	3018	3044	3074	3071	2308
55°	2322	2332	2366	2386	2391	2068
65°	1583	1598	1634	1666	1669	1570
75°	839	864	917	968	966	891
85°	212	254	312	359	376	233
90°	5	63	127	173	188	17
95°	17	42	61	88	98	17
105°	51	44	56	90	80	53
115°	80	90	63	66	66	79
125°	102	102	117	95	83	92
135°	120	117	134	142	139	93
145°	132	134	129	142	151	83
155°	139	149	139	134	134	65
165°	144	149	154	149	144	41
175°	146	146	149	146	142	14
180°	144	144	144	144	144	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4713.1	4713.1	4713.1	4713.1	4713.1
2.5°	4715.5	4713.1	4693.6	4708.2	4710.6
5°	4698.4	4696.0	4676.5	4693.6	4696.0
7.5°	4664.3	4664.3	4644.8	4664.3	4666.7
10°	4620.4	4620.4	4605.7	4622.8	4625.3
12.5°	4564.3	4566.7	4552.1	4571.6	4571.6
15°	4496.0	4498.4	4486.2	4505.7	4510.6
17.5°	4417.9	4417.9	4413.0	4435.0	4437.4
20°	4325.2	4337.4	4327.6	4352.0	4356.9
22.5°	4220.3	4232.5	4232.5	4259.3	4266.6
25°	4115.4	4122.7	4130.0	4159.3	4166.6
27.5°	3998.3	4012.9	4015.4	4047.1	4054.4
30°	3871.5	3895.8	3908.0	3927.6	3932.4
32.5°	3744.6	3776.3	3791.0	3800.7	3803.1
35°	3598.2	3642.1	3659.2	3666.5	3673.9
37.5°	3456.7	3493.3	3498.2	3525.0	3532.4
40°	3303.1	3347.0	3347.0	3378.7	3386.0
42.5°	3156.7	3166.4	3203.0	3225.0	3234.7
45°	2985.9	3017.6	3044.5	3073.7	3071.3
47.5°	2824.9	2866.4	2873.7	2900.5	2907.9
50°	2671.2	2700.5	2715.1	2737.1	2737.1
52.5°	2481.0	2520.0	2551.7	2563.9	2571.2
55°	2322.4	2332.1	2366.3	2385.8	2390.7
57.5°	2129.7	2154.1	2185.8	2210.2	2222.4
60°	1961.3	1976.0	2002.8	2037.0	2105.3
62.5°	1771.1	1788.1	1822.3	1924.7	1854.0
65°	1583.2	1597.9	1634.5	1666.2	1668.6
67.5°	1405.1	1419.8	1471.0	1480.8	1488.1
70°	1207.5	1227.1	1271.0	1302.7	1314.9
72.5°	1027.0	1044.1	1088.0	1124.6	1136.8
75°	839.2	863.6	917.2	968.5	966.0
77.5°	661.1	705.0	748.9	790.4	802.6
80°	495.2	529.4	587.9	631.8	648.9
82.5°	346.4	385.4	444.0	487.9	505.0
85°	212.2	253.7	312.3	358.6	375.7
87.5°	102.5	143.9	207.4	253.7	273.2
90°	4.9	63.4	126.9	173.2	187.8
92.5°	9.8	36.6	82.9	119.5	131.7
95°	17.1	41.5	61.0	87.8	97.6
97.5°	24.4	36.6	53.7	70.7	78.1
100°	34.2	36.6	61.0	63.4	68.3
102.5°	41.5	39.0	58.5	63.4	63.4
105°	51.2	43.9	56.1	90.3	80.5
107.5°	58.5	61.0	53.7	63.4	68.3
110°	65.9	70.7	58.5	68.3	68.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	73.2	80.5	63.4	63.4	68.3
115°	80.5	90.3	63.4	65.9	65.9
117.5°	87.8	92.7	75.6	70.7	70.7
120°	92.7	95.1	95.1	70.7	75.6
122.5°	97.6	100.0	107.3	78.1	75.6
125°	102.5	102.5	117.1	95.1	82.9
127.5°	107.3	107.3	124.4	112.2	100.0
130°	112.2	107.3	131.7	122.0	117.1
132.5°	117.1	112.2	134.2	131.7	126.9
135°	119.5	117.1	134.2	141.5	139.1
137.5°	124.4	122.0	129.3	148.8	146.4
140°	126.9	126.9	129.3	148.8	153.7
142.5°	129.3	129.3	129.3	146.4	153.7
145°	131.7	134.2	129.3	141.5	151.2
147.5°	134.2	139.1	129.3	139.1	143.9
150°	136.6	141.5	129.3	136.6	139.1
152.5°	139.1	146.4	134.2	134.2	136.6
155°	139.1	148.8	139.1	134.2	134.2
157.5°	141.5	148.8	141.5	134.2	134.2
160°	141.5	151.2	146.4	139.1	136.6
162.5°	143.9	151.2	151.2	143.9	141.5
165°	143.9	148.8	153.7	148.8	143.9
167.5°	146.4	148.8	153.7	151.2	146.4
170°	146.4	148.8	151.2	151.2	146.4
172.5°	146.4	148.8	151.2	148.8	146.4
175°	146.4	146.4	148.8	146.4	141.5
177.5°	146.4	146.4	146.4	143.9	141.5
180°	143.9	143.9	143.9	143.9	143.9

(END OF REPORT)