

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-LD5-10-W-FLUPL-UNV-L840-CD1-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-LD5-10-W-FLUPL-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

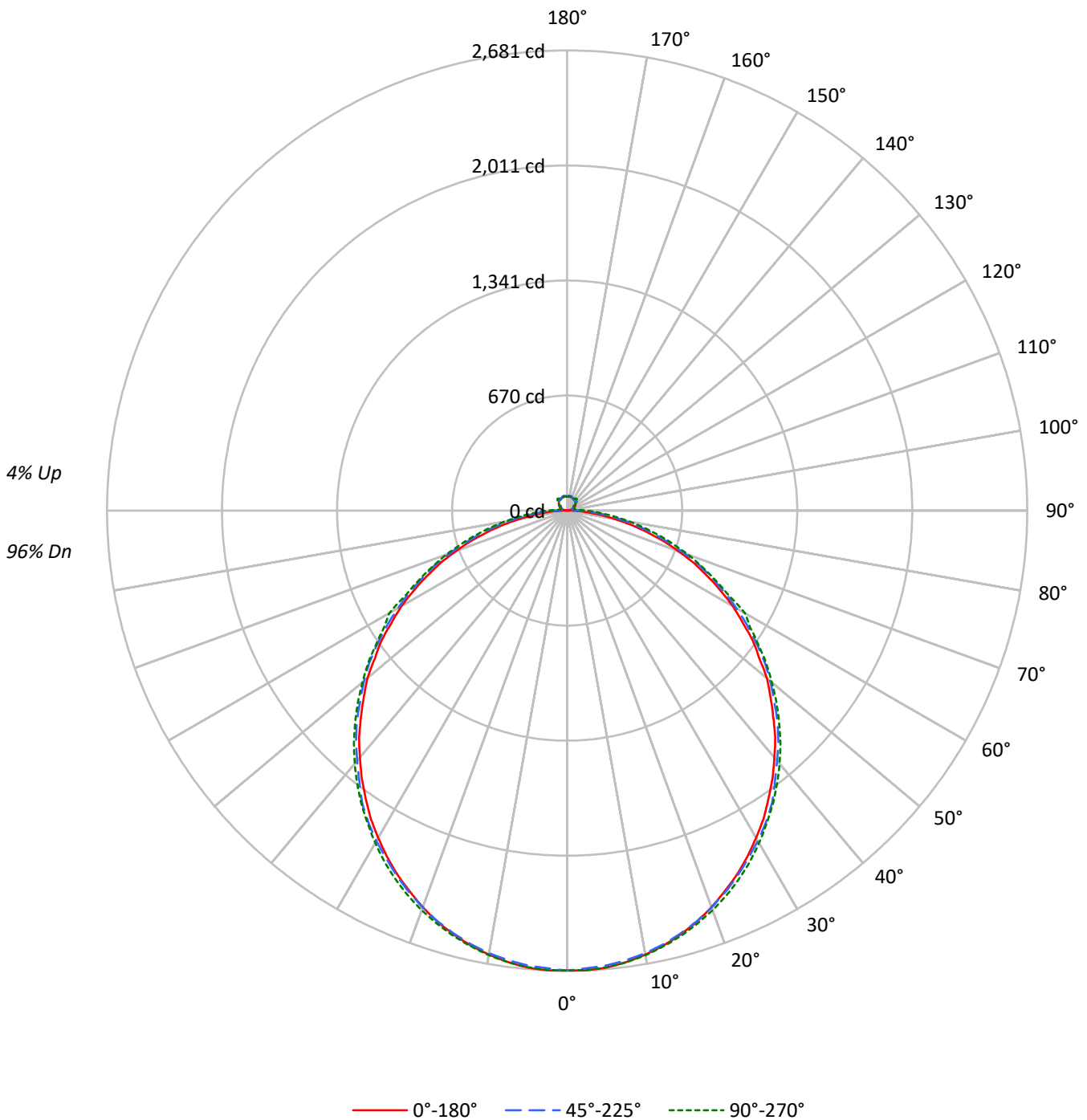
Lumens per Lamp: N/A
Luminaire Lumens: 7910.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
Input Current (A_{in}): 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	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°	3934	3934	3934
5°	3932	3889	3897
10°	3907	3845	3846
15°	3872	3789	3787
20°	3824	3727	3722
25°	3768	3657	3651
30°	3704	3588	3565
35°	3634	3517	3478
40°	3561	3401	3380
45°	3481	3309	3269
50°	3417	3198	3145
55°	3320	3067	3010
60°	3204	2910	2956
65°	3045	2725	2671
70°	2849	2509	2469
75°	2586	2239	2214
80°	2223	1900	1927
85°	1779	1509	1601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	3.2
10°-20°	721.6	9.1
20°-30°	1084.3	13.7
30°-40°	1297.3	16.4
40°-50°	1333.7	16.9
50°-60°	1201.2	15.2
60°-70°	923.1	11.7
70°-80°	549.6	6.9
80°-90°	199.2	2.5
90°-100°	42.9	0.5
100°-110°	35.7	0.5
110°-120°	42.1	0.5
120°-130°	52.0	0.7
130°-140°	56.8	0.7
140°-150°	48.8	0.6
150°-160°	36.7	0.5
160°-170°	23.8	0.3
170°-180°	8.0	0.1
0°-30°	2059.2	26.0
0°-40°	3356.4	42.4
0°-60°	5891.3	74.5
0°-90°	7563.2	95.6
90°-120°	120.6	1.5
90°-150°	278.3	3.5
90°-180°	347.0	4.4
0°-180°	7910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2672	2670	2659	2669	2670	254
15°	2556	2558	2551	2562	2565	721
25°	2340	2344	2348	2365	2369	1078
35°	2046	2071	2081	2085	2089	1281
45°	1698	1716	1731	1748	1746	1312
55°	1320	1326	1346	1357	1359	1176
65°	900	909	929	947	949	892
75°	477	491	522	551	549	507
85°	121	144	178	204	214	133
90°	3	36	72	98	107	10
95°	10	24	35	50	56	10
105°	29	25	32	51	46	30
115°	46	51	36	38	38	45
125°	58	58	67	54	47	52
135°	68	67	76	80	79	53
145°	75	76	74	80	86	47
155°	79	85	79	76	76	37
165°	82	85	87	85	82	23
175°	83	83	85	83	80	8
180°	82	82	82	82	82	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2679.9	2679.9	2679.9	2679.9	2679.9
2.5°	2681.3	2679.9	2668.8	2677.1	2678.5
5°	2671.6	2670.2	2659.1	2668.8	2670.2
7.5°	2652.2	2652.2	2641.1	2652.2	2653.6
10°	2627.2	2627.2	2618.9	2628.6	2630.0
12.5°	2595.3	2596.7	2588.4	2599.5	2599.5
15°	2556.5	2557.9	2550.9	2562.0	2564.8
17.5°	2512.1	2512.1	2509.3	2521.8	2523.2
20°	2459.4	2466.3	2460.8	2474.6	2477.4
22.5°	2399.7	2406.7	2406.7	2421.9	2426.1
25°	2340.1	2344.2	2348.4	2365.0	2369.2
27.5°	2273.5	2281.8	2283.2	2301.2	2305.4
30°	2201.4	2215.2	2222.2	2233.3	2236.0
32.5°	2129.2	2147.3	2155.6	2161.1	2162.5
35°	2046.0	2071.0	2080.7	2084.8	2089.0
37.5°	1965.6	1986.4	1989.1	2004.4	2008.6
40°	1878.2	1903.1	1903.1	1921.2	1925.3
42.5°	1794.9	1800.5	1821.3	1833.8	1839.3
45°	1697.8	1715.9	1731.1	1747.8	1746.4
47.5°	1606.3	1629.9	1634.0	1649.3	1653.5
50°	1518.9	1535.5	1543.9	1556.4	1556.4
52.5°	1410.7	1432.9	1450.9	1457.9	1462.0
55°	1320.5	1326.1	1345.5	1356.6	1359.4
57.5°	1211.0	1224.8	1242.9	1256.7	1263.7
60°	1115.2	1123.6	1138.8	1158.2	1197.1
62.5°	1007.1	1016.8	1036.2	1094.4	1054.2
65°	900.2	908.6	929.4	947.4	948.8
67.5°	799.0	807.3	836.4	842.0	846.1
70°	686.6	697.7	722.7	740.7	747.7
72.5°	584.0	593.7	618.7	639.5	646.4
75°	477.2	491.0	521.6	550.7	549.3
77.5°	375.9	400.9	425.8	449.4	456.4
80°	281.6	301.0	334.3	359.3	369.0
82.5°	197.0	219.2	252.5	277.4	287.1
85°	120.7	144.3	177.6	203.9	213.6
87.5°	58.3	81.8	117.9	144.3	155.4
90°	2.8	36.1	72.1	98.5	106.8
92.5°	5.5	20.8	47.2	68.0	74.9
95°	9.7	23.6	34.7	49.9	55.5
97.5°	13.9	20.8	30.5	40.2	44.4
100°	19.4	20.8	34.7	36.1	38.8
102.5°	23.6	22.2	33.3	36.1	36.1
105°	29.1	25.0	31.9	51.3	45.8
107.5°	33.3	34.7	30.5	36.1	38.8
110°	37.5	40.2	33.3	38.8	38.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	41.6	45.8	36.1	36.1	38.8
115°	45.8	51.3	36.1	37.5	37.5
117.5°	49.9	52.7	43.0	40.2	40.2
120°	52.7	54.1	54.1	40.2	43.0
122.5°	55.5	56.9	61.0	44.4	43.0
125°	58.3	58.3	66.6	54.1	47.2
127.5°	61.0	61.0	70.7	63.8	56.9
130°	63.8	61.0	74.9	69.4	66.6
132.5°	66.6	63.8	76.3	74.9	72.1
135°	68.0	66.6	76.3	80.5	79.1
137.5°	70.7	69.4	73.5	84.6	83.2
140°	72.1	72.1	73.5	84.6	87.4
142.5°	73.5	73.5	73.5	83.2	87.4
145°	74.9	76.3	73.5	80.5	86.0
147.5°	76.3	79.1	73.5	79.1	81.8
150°	77.7	80.5	73.5	77.7	79.1
152.5°	79.1	83.2	76.3	76.3	77.7
155°	79.1	84.6	79.1	76.3	76.3
157.5°	80.5	84.6	80.5	76.3	76.3
160°	80.5	86.0	83.2	79.1	77.7
162.5°	81.8	86.0	86.0	81.8	80.5
165°	81.8	84.6	87.4	84.6	81.8
167.5°	83.2	84.6	87.4	86.0	83.2
170°	83.2	84.6	86.0	86.0	83.2
172.5°	83.2	84.6	86.0	84.6	83.2
175°	83.2	83.2	84.6	83.2	80.5
177.5°	83.2	83.2	83.2	81.8	80.5
180°	81.8	81.8	81.8	81.8	81.8

(END OF REPORT)