

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-LD5-32-W-FLWG-UNV-L850-CD4-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-LD5-32-W-FLWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

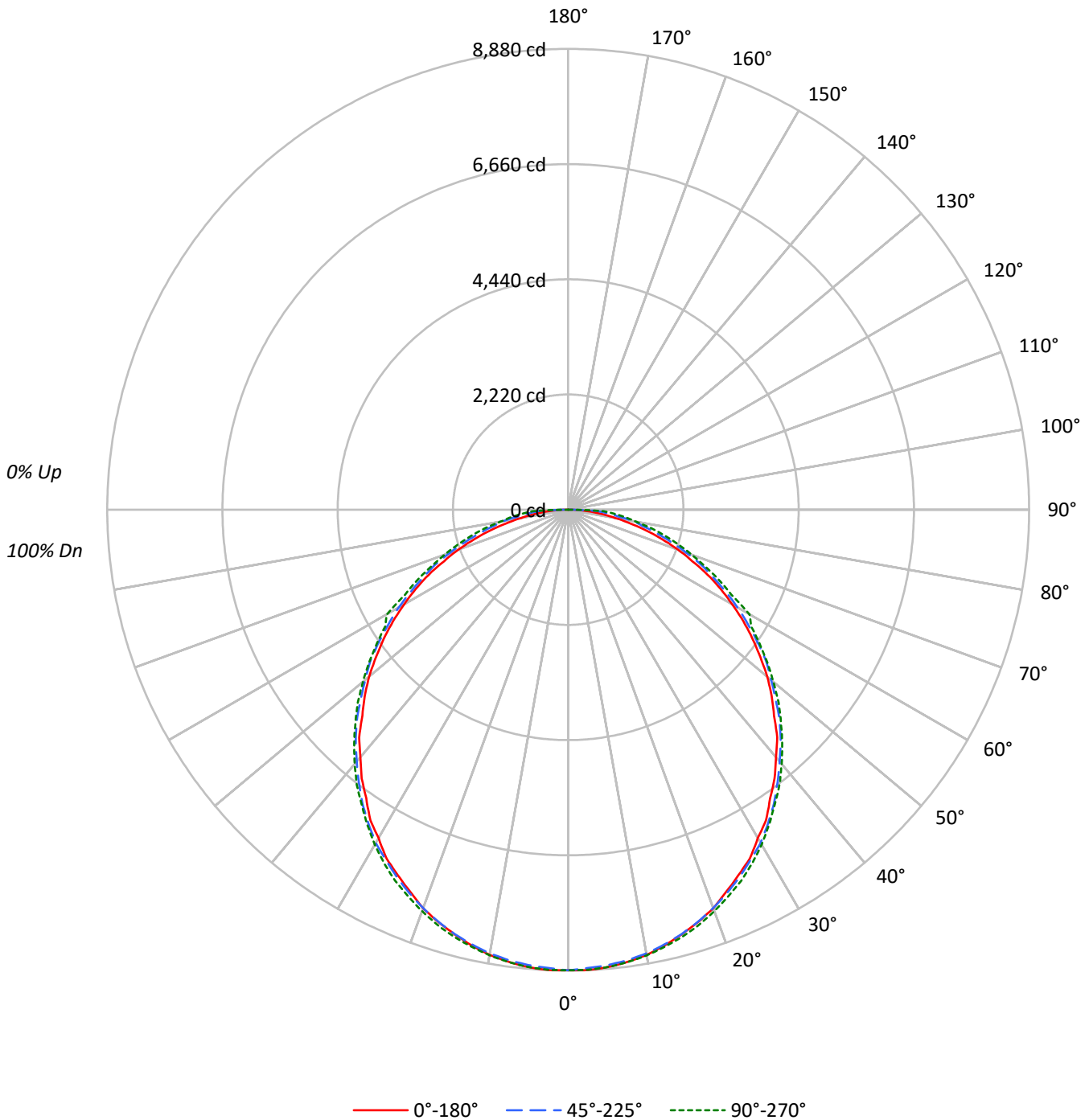
Lumens per Lamp: N/A
Luminaire Lumens: 25239.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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





TEST NUMBER: P#

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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°	13027	13027	13027
5°	13020	12880	12911
10°	12954	12746	12752
15°	12825	12572	12574
20°	12709	12372	12366
25°	12505	12161	12156
30°	12295	11970	11881
35°	12050	11677	11542
40°	11807	11327	11228
45°	11495	11013	10847
50°	11265	10570	10430
55°	10895	10153	9959
60°	10490	9625	9959
65°	10023	9030	9022
70°	9342	8404	8346
75°	8500	7630	7747
80°	7338	7236	6902
85°	6279	6252	6569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.1	3.3
10°-20°	2393.6	9.5
20°-30°	3604.6	14.3
30°-40°	4310.8	17.1
40°-50°	4427.1	17.5
50°-60°	3975.7	15.8
60°-70°	3059.1	12.1
70°-80°	1885.5	7.5
80°-90°	743.6	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°	6837.3	27.1
0°-40°	11148.1	44.2
0°-60°	19550.8	77.5
0°-90°	25239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8875	8875	8875	8875	8875	
5°	8846	8841	8807	8841	8846	840
15°	8468	8483	8464	8498	8517	2390
25°	7766	7776	7810	7868	7887	3582
35°	6784	6880	6909	6934	6934	4254
45°	5607	5694	5762	5786	5796	4343
55°	4334	4392	4454	4503	4498	3874
65°	2963	2992	3079	3186	3205	2922
75°	1569	1651	1777	1893	1922	1658
85°	426	566	736	842	876	487
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8875.1	8875.1	8875.1	8875.1	8875.1
2.5°	8880.0	8875.1	8841.3	8865.5	8875.1
5°	8846.1	8841.3	8807.4	8841.3	8846.1
7.5°	8788.0	8788.0	8754.1	8788.0	8792.8
10°	8710.5	8710.5	8681.5	8710.5	8720.2
12.5°	8599.2	8608.8	8579.8	8613.7	8623.4
15°	8468.4	8483.0	8463.6	8497.5	8516.8
17.5°	8328.0	8332.9	8323.2	8366.7	8386.1
20°	8173.1	8168.2	8168.2	8226.3	8231.2
22.5°	7964.9	7989.1	7993.9	8056.9	8061.7
25°	7766.4	7776.0	7809.9	7868.0	7887.4
27.5°	7577.5	7572.7	7606.6	7659.8	7679.2
30°	7306.4	7354.8	7412.9	7432.3	7451.6
32.5°	7093.3	7107.9	7166.0	7185.3	7199.9
35°	6783.5	6880.3	6909.3	6933.6	6933.6
37.5°	6531.7	6584.9	6623.7	6667.3	6686.6
40°	6226.6	6294.4	6338.0	6381.6	6396.1
42.5°	5960.3	6003.9	6057.2	6091.1	6100.8
45°	5606.9	5694.0	5761.8	5786.0	5795.7
47.5°	5316.4	5413.2	5422.9	5481.0	5495.5
50°	5006.5	5079.1	5103.3	5171.1	5161.4
52.5°	4662.7	4749.9	4808.0	4827.3	4832.2
55°	4333.5	4391.6	4454.5	4502.9	4498.1
57.5°	3999.4	4047.8	4101.1	4173.7	4178.5
60°	3650.8	3708.9	3767.0	3839.6	4033.3
62.5°	3311.8	3345.7	3413.5	3553.9	3539.4
65°	2963.2	2992.3	3079.4	3185.9	3205.3
67.5°	2585.6	2643.7	2774.4	2842.2	2851.9
70°	2251.5	2304.7	2420.9	2508.1	2527.5
72.5°	1898.0	1961.0	2086.8	2198.2	2227.3
75°	1568.8	1651.1	1777.0	1893.2	1922.2
77.5°	1229.8	1336.4	1486.5	1767.3	1631.7
80°	929.6	1050.7	1273.4	1307.3	1321.8
82.5°	663.3	794.1	953.8	1070.1	1108.8
85°	426.1	566.5	736.0	842.5	876.4
87.5°	237.3	372.8	552.0	658.5	687.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)