

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-LD5-14-W-FLWG-UNV-L850-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-FLWG-UNV-L850-CD2-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

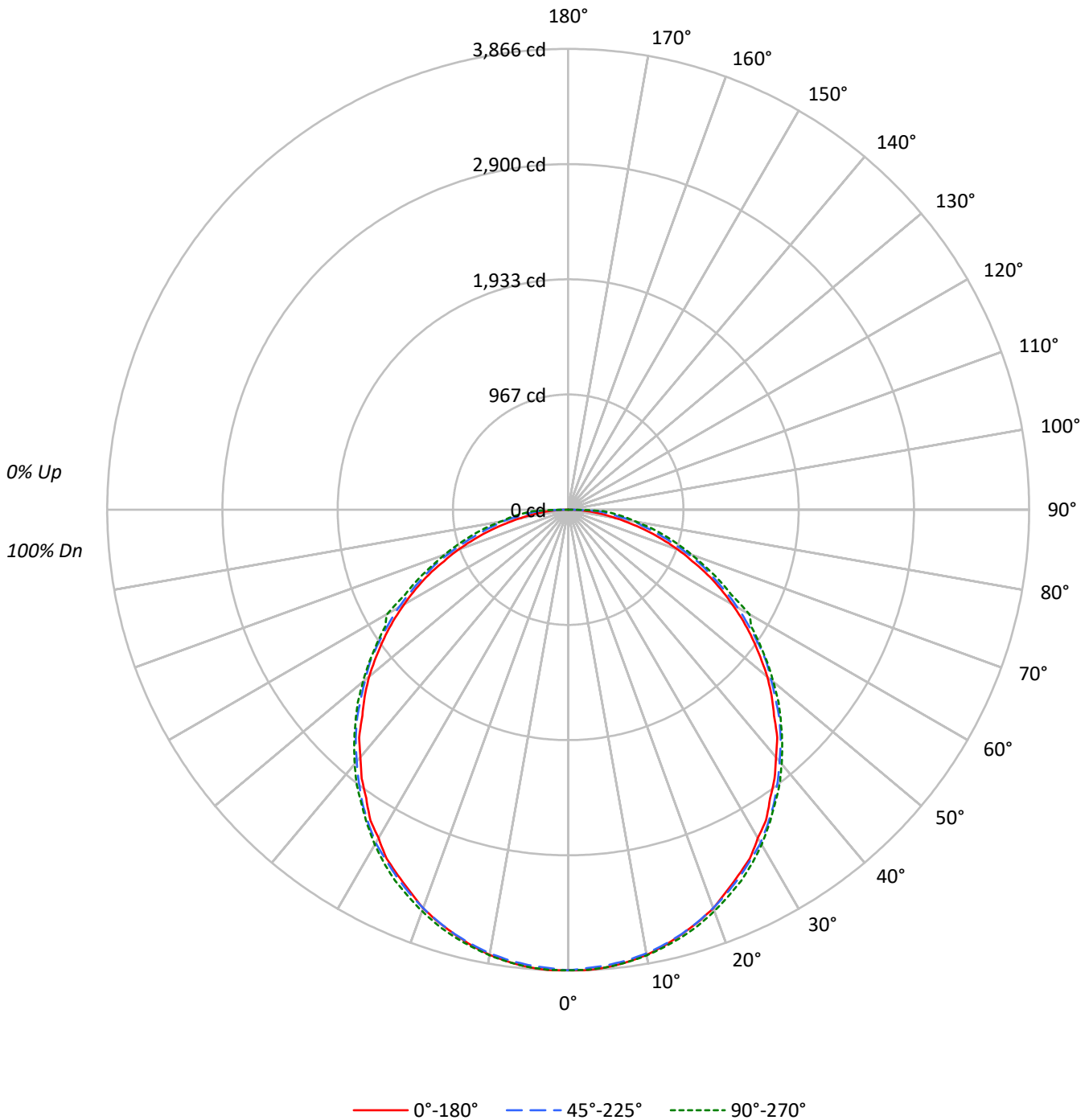
Lumens per Lamp: N/A
Luminaire Lumens: 10988.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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	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°	5671	5671	5671
5°	5668	5607	5621
10°	5640	5549	5552
15°	5584	5473	5474
20°	5533	5386	5384
25°	5444	5294	5292
30°	5353	5211	5173
35°	5246	5084	5025
40°	5140	4931	4888
45°	5004	4795	4722
50°	4904	4602	4541
55°	4743	4420	4336
60°	4567	4190	4335
65°	4364	3932	3928
70°	4067	3659	3633
75°	3701	3321	3373
80°	3194	3150	3005
85°	2733	2721	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.3	3.3
10°-20°	1042.1	9.5
20°-30°	1569.3	14.3
30°-40°	1876.7	17.1
40°-50°	1927.4	17.5
50°-60°	1730.8	15.8
60°-70°	1331.8	12.1
70°-80°	820.9	7.5
80°-90°	323.7	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°	2976.7	27.1
0°-40°	4853.4	44.2
0°-60°	8511.6	77.5
0°-90°	10988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3864	3864	3864	3864	3864	
5°	3851	3849	3834	3849	3851	366
15°	3687	3693	3685	3699	3708	1041
25°	3381	3385	3400	3425	3434	1559
35°	2953	2995	3008	3019	3019	1852
45°	2441	2479	2508	2519	2523	1891
55°	1887	1912	1939	1960	1958	1687
65°	1290	1303	1341	1387	1396	1272
75°	683	719	774	824	837	722
85°	186	247	320	367	382	212
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3863.9	3863.9	3863.9	3863.9	3863.9
2.5°	3866.0	3863.9	3849.1	3859.6	3863.9
5°	3851.2	3849.1	3834.4	3849.1	3851.2
7.5°	3825.9	3825.9	3811.2	3825.9	3828.0
10°	3792.2	3792.2	3779.5	3792.2	3796.4
12.5°	3743.7	3747.9	3735.3	3750.0	3754.3
15°	3686.8	3693.1	3684.7	3699.4	3707.9
17.5°	3625.7	3627.8	3623.6	3642.5	3651.0
20°	3558.2	3556.1	3556.1	3581.4	3583.5
22.5°	3467.6	3478.1	3480.2	3507.6	3509.7
25°	3381.1	3385.4	3400.1	3425.4	3433.8
27.5°	3298.9	3296.8	3311.6	3334.8	3343.2
30°	3180.9	3202.0	3227.3	3235.7	3244.1
32.5°	3088.1	3094.5	3119.8	3128.2	3134.5
35°	2953.2	2995.4	3008.0	3018.6	3018.6
37.5°	2843.6	2866.8	2883.7	2902.6	2911.1
40°	2710.8	2740.3	2759.3	2778.3	2784.6
42.5°	2594.9	2613.9	2637.0	2651.8	2656.0
45°	2441.0	2478.9	2508.5	2519.0	2523.2
47.5°	2314.5	2356.7	2360.9	2386.2	2392.5
50°	2179.6	2211.2	2221.8	2251.3	2247.1
52.5°	2030.0	2067.9	2093.2	2101.6	2103.7
55°	1886.6	1911.9	1939.3	1960.4	1958.3
57.5°	1741.2	1762.2	1785.4	1817.0	1819.2
60°	1589.4	1614.7	1640.0	1671.6	1755.9
62.5°	1441.8	1456.6	1486.1	1547.2	1540.9
65°	1290.1	1302.7	1340.7	1387.0	1395.5
67.5°	1125.6	1150.9	1207.9	1237.4	1241.6
70°	980.2	1003.4	1054.0	1091.9	1100.3
72.5°	826.3	853.7	908.5	957.0	969.7
75°	683.0	718.8	773.6	824.2	836.9
77.5°	535.4	581.8	647.1	769.4	710.4
80°	404.7	457.4	554.4	569.1	575.5
82.5°	288.8	345.7	415.3	465.9	482.7
85°	185.5	246.6	320.4	366.8	381.5
87.5°	103.3	162.3	240.3	286.7	299.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)