

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: **4ILED-LD5-14-W-CLWG-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 (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-CLWG-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

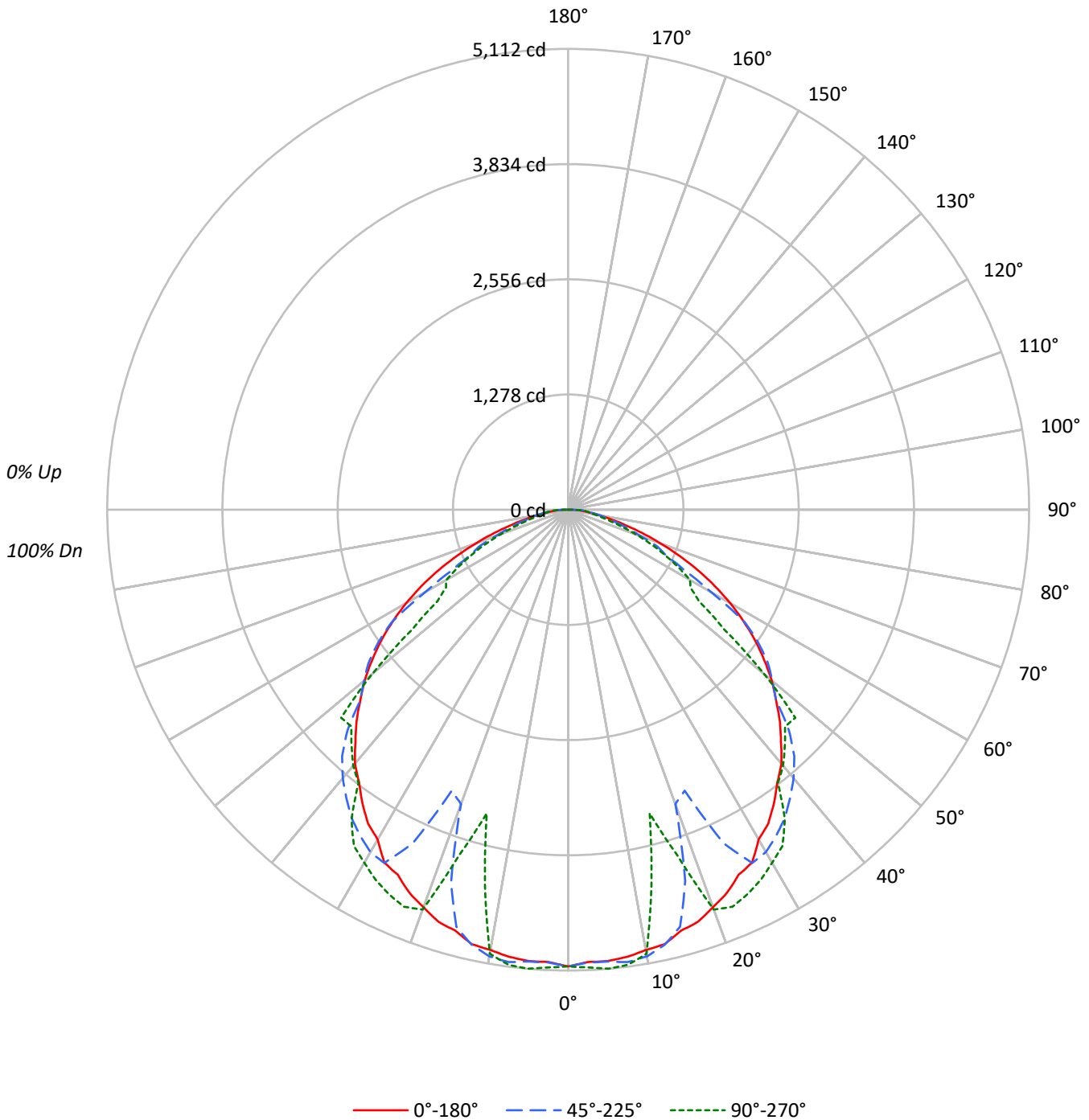
Lumens per Lamp: N/A
Luminaire Lumens: 13118.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14871	14871	14871
5°	14779	14702	14921
10°	14719	14749	14627
15°	14595	14200	10296
20°	14529	10492	14182
25°	14312	12670	14504
30°	14116	14092	14421
35°	14005	14056	13947
40°	13807	13805	13017
45°	13448	13128	12725
50°	13062	12129	11500
55°	12517	11605	7831
60°	11675	9265	7705
65°	10451	6878	6637
70°	8700	5844	5269
75°	6742	4660	3879
80°	5027	3939	2959
85°	4312	3299	2967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.0	3.7
10°-20°	1274.8	9.7
20°-30°	2032.6	15.5
30°-40°	2439.6	18.6
40°-50°	2594.6	19.8
50°-60°	2122.7	16.2
60°-70°	1345.8	10.3
70°-80°	621.7	4.7
80°-90°	205.1	1.6
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°	3788.4	28.9
0°-40°	6228.0	47.5
0°-60°	10945.3	83.4
0°-90°	13118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5066	5066	5066	5066	5066	
5°	5026	5028	5030	5070	5112	478
15°	4835	4910	4791	3774	3487	1370
25°	4470	4483	4085	4664	4706	2071
35°	3976	2981	4183	4262	4189	2485
45°	3320	3335	3462	3376	3399	2558
55°	2533	2666	2575	1996	1768	2256
65°	1585	1612	1192	1200	1179	1563
75°	650	617	556	514	481	712
85°	165	179	204	204	198	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5065.8	5065.8	5065.8	5065.8	5065.8
2.5°	5022.1	5030.4	5028.3	5065.8	5082.5
5°	5026.2	5028.3	5030.4	5070.0	5111.6
7.5°	5003.3	5047.1	5061.6	5047.1	5090.8
10°	4959.6	4999.2	5030.4	4986.7	5001.2
12.5°	4936.7	4995.0	4942.9	4728.4	4261.8
15°	4834.6	4909.6	4790.9	3774.4	3486.9
17.5°	4792.9	4842.9	4318.0	3470.3	4013.9
20°	4693.0	4761.7	3474.4	4461.8	4720.0
22.5°	4601.3	4651.3	3372.4	4693.0	4765.9
25°	4470.1	4482.6	4084.7	4663.8	4705.5
27.5°	4413.8	4226.4	4418.0	4603.4	4626.3
30°	4224.3	3838.9	4384.7	4520.1	4522.2
32.5°	4128.5	3343.2	4290.9	4399.3	4422.2
35°	3976.4	2980.7	4182.6	4261.8	4188.9
37.5°	3809.8	2928.7	4038.9	3997.2	3820.2
40°	3678.5	3195.3	3888.9	3630.6	3707.7
42.5°	3493.2	3357.8	3709.8	3541.1	3555.7
45°	3320.3	3334.9	3461.9	3376.5	3399.4
47.5°	3124.5	3220.3	3122.4	3234.9	3416.1
50°	2945.3	3047.4	2955.8	3141.1	2845.4
52.5°	2741.2	2868.3	2791.2	2526.7	2183.0
55°	2532.9	2666.2	2574.6	1995.5	1768.5
57.5°	2305.9	2416.3	2320.4	1635.1	1606.0
60°	2074.7	2162.1	1837.2	1489.3	1560.2
62.5°	1830.9	1885.1	1449.8	1372.7	1368.5
65°	1585.2	1612.2	1191.5	1199.8	1179.0
67.5°	1328.9	1341.4	1072.7	1016.5	985.3
70°	1083.2	1074.8	858.2	826.9	797.8
72.5°	858.2	818.6	697.8	656.1	620.7
75°	649.9	616.6	556.2	514.5	481.2
77.5°	483.3	464.5	435.3	439.5	368.7
80°	339.5	341.6	358.3	304.1	283.3
82.5°	235.4	247.9	256.2	252.0	245.8
85°	164.6	179.1	204.1	204.1	197.9
87.5°	83.3	122.9	164.6	175.0	170.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)