

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-L840-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-L840-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

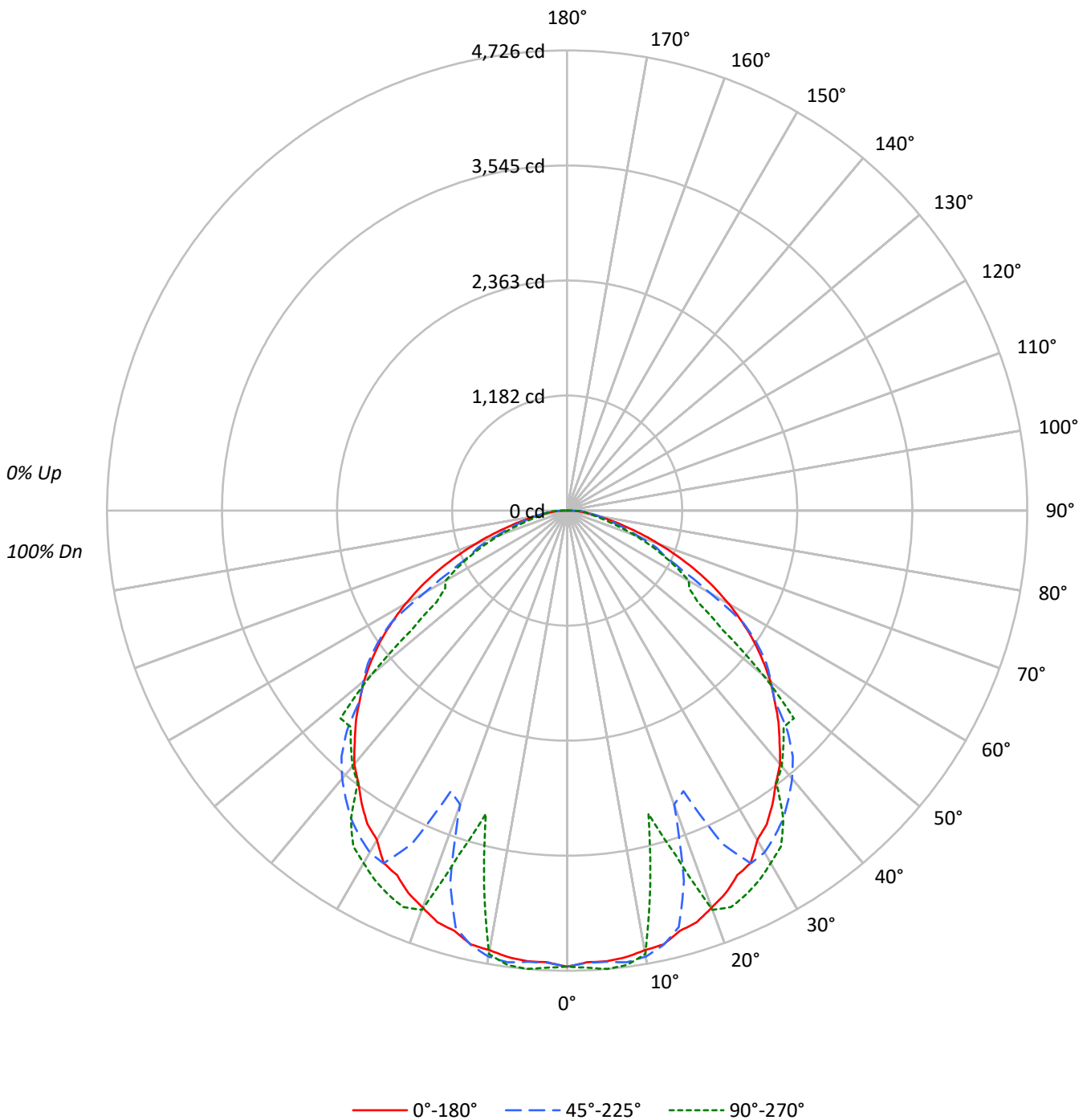
Lumens per Lamp: N/A
Luminaire Lumens: 12128.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
Input Voltage (V):
Input Current (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





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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°	13749	13749	13749
5°	13664	13592	13795
10°	13608	13636	13523
15°	13494	13128	9519
20°	13432	9700	13112
25°	13232	11714	13409
30°	13050	13028	13332
35°	12948	12995	12894
40°	12765	12763	12035
45°	12433	12137	11765
50°	12077	11213	10632
55°	11572	10730	7240
60°	10794	8566	7123
65°	9662	6358	6136
70°	8043	5402	4871
75°	6233	4308	3586
80°	4648	3641	2735
85°	3985	3050	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.7	3.7
10°-20°	1178.6	9.7
20°-30°	1879.2	15.5
30°-40°	2255.5	18.6
40°-50°	2398.8	19.8
50°-60°	1962.5	16.2
60°-70°	1244.3	10.3
70°-80°	574.8	4.7
80°-90°	189.6	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°	3502.5	28.9
0°-40°	5758.0	47.5
0°-60°	10119.3	83.4
0°-90°	12128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4684	4684	4684	4684	4684	
5°	4647	4649	4651	4687	4726	442
15°	4470	4539	4429	3490	3224	1267
25°	4133	4144	3776	4312	4350	1914
35°	3676	2756	3867	3940	3873	2297
45°	3070	3083	3201	3122	3143	2365
55°	2342	2465	2380	1845	1635	2085
65°	1466	1491	1102	1109	1090	1445
75°	601	570	514	476	445	658
85°	152	166	189	189	183	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4683.5	4683.5	4683.5	4683.5	4683.5
2.5°	4643.1	4650.8	4648.8	4683.5	4698.9
5°	4646.9	4648.8	4650.8	4687.4	4725.9
7.5°	4625.7	4666.2	4679.7	4666.2	4706.6
10°	4585.3	4621.9	4650.8	4610.3	4623.8
12.5°	4564.1	4618.0	4569.9	4371.5	3940.2
15°	4469.7	4539.1	4429.3	3489.5	3223.8
17.5°	4431.2	4477.4	3992.1	3208.4	3711.0
20°	4338.8	4402.3	3212.2	4125.0	4363.8
22.5°	4254.1	4300.3	3117.8	4338.8	4406.2
25°	4132.7	4144.3	3776.5	4311.8	4350.3
27.5°	4080.7	3907.4	4084.6	4256.0	4277.2
30°	3905.5	3549.2	4053.8	4178.9	4180.9
32.5°	3816.9	3090.9	3967.1	4067.3	4088.4
35°	3676.3	2755.8	3867.0	3940.2	3872.7
37.5°	3522.3	2707.7	3734.1	3695.6	3531.9
40°	3400.9	2954.2	3595.4	3356.6	3427.9
42.5°	3229.5	3104.4	3429.8	3273.8	3287.3
45°	3069.7	3083.2	3200.7	3121.7	3142.9
47.5°	2888.7	2977.3	2886.7	2990.7	3158.3
50°	2723.1	2817.4	2732.7	2904.1	2630.6
52.5°	2534.3	2651.8	2580.5	2336.0	2018.2
55°	2341.8	2465.0	2380.3	1844.9	1635.0
57.5°	2131.8	2233.9	2145.3	1511.7	1484.8
60°	1918.1	1999.0	1698.5	1376.9	1442.4
62.5°	1692.8	1742.8	1340.3	1269.1	1265.2
65°	1465.5	1490.6	1101.5	1109.3	1090.0
67.5°	1228.6	1240.2	991.8	939.8	910.9
70°	1001.4	993.7	793.4	764.5	737.6
72.5°	793.4	756.8	645.1	606.6	573.9
75°	600.8	570.0	514.2	475.7	444.9
77.5°	446.8	429.4	402.5	406.3	340.9
80°	313.9	315.8	331.2	281.2	261.9
82.5°	217.6	229.2	236.9	233.0	227.2
85°	152.1	165.6	188.7	188.7	182.9
87.5°	77.0	113.6	152.1	161.8	157.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)