

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

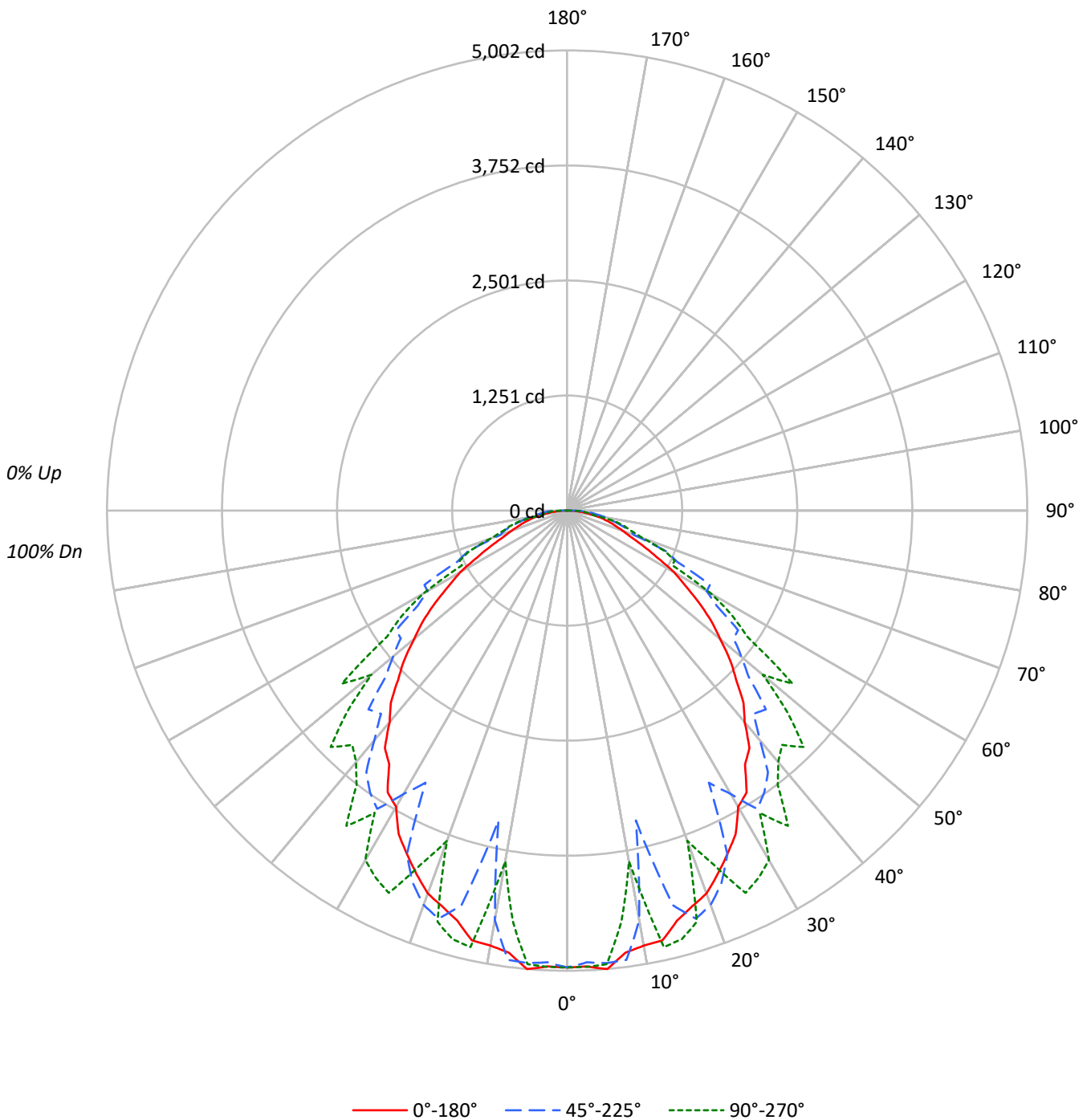
Lumens per Lamp: N/A
Luminaire Lumens: 12066.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14578	14578	14578
5°	14709	14429	14445
10°	14247	13250	11319
15°	13934	13160	14237
20°	13711	13775	11473
25°	13187	12782	14137
30°	12424	11430	13988
35°	11868	12554	13931
40°	11267	11572	12527
45°	10521	11588	13608
50°	9633	10137	11214
55°	8649	10225	10573
60°	7553	8827	8938
65°	6030	7603	7252
70°	5150	5271	5761
75°	4834	5033	5122
80°	4362	4700	3037
85°	3833	4170	2887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.9	3.8
10°-20°	1270.6	10.5
20°-30°	1837.0	15.2
30°-40°	2300.6	19.1
40°-50°	2239.5	18.6
50°-60°	1917.0	15.9
60°-70°	1189.2	9.9
70°-80°	618.8	5.1
80°-90°	240.4	2.0
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°	3560.5	29.5
0°-40°	5861.1	48.6
0°-60°	10017.6	83.0
0°-90°	12066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4966	4966	4966	4966	4966	
5°	5002	4987	4937	4918	4949	467
15°	4616	4633	4440	4847	4822	1307
25°	4119	3414	4121	4236	4587	1893
35°	3370	3512	3736	3705	4184	2129
45°	2598	2332	3056	3125	3635	2009
55°	1750	1916	2268	2707	2388	1565
65°	915	1026	1317	1115	1288	928
75°	466	541	601	645	635	493
85°	146	194	258	296	193	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4966.0	4966.0	4966.0	4966.0	4966.0
2.5°	4960.2	4939.0	4915.9	4956.3	4964.0
5°	5002.5	4987.1	4937.1	4917.8	4948.6
7.5°	4846.6	4879.3	4925.5	4675.2	4513.5
10°	4800.4	4783.0	4519.2	3479.4	3870.3
12.5°	4785.0	4763.8	3450.6	4836.9	4860.1
15°	4615.5	4632.8	4440.3	4846.6	4821.5
17.5°	4511.5	4272.8	4650.2	4731.0	4686.8
20°	4428.7	3724.0	4561.6	4345.9	3818.3
22.5°	4276.6	3175.2	4384.4	3487.1	4164.9
25°	4118.7	3414.0	4120.6	4236.2	4586.6
27.5°	3966.6	3868.4	3333.1	4421.0	4503.8
30°	3718.2	3835.7	3556.5	4328.6	4386.4
32.5°	3631.6	3662.4	3845.3	4087.9	3895.4
35°	3369.7	3512.2	3735.5	3704.7	4184.2
37.5°	3254.2	3294.6	3585.3	3901.1	3758.6
40°	3001.9	3063.5	3259.9	3446.7	3568.0
42.5°	2838.2	2632.2	2996.1	3340.8	3456.3
45°	2597.5	2331.8	3055.8	3125.1	3635.4
47.5°	2401.1	2316.4	2674.6	3252.2	3252.2
50°	2172.0	2283.7	2470.5	2905.6	2774.7
52.5°	1975.6	2127.7	2279.8	2526.3	3090.5
55°	1750.3	1915.9	2268.3	2707.3	2387.7
57.5°	1528.9	1669.4	1925.5	2073.8	2129.6
60°	1342.1	1478.8	1750.3	1863.9	1810.0
62.5°	1101.4	1274.7	1750.3	1469.2	1288.2
65°	914.6	1026.3	1317.1	1114.9	1288.2
67.5°	751.0	866.5	1170.7	1076.4	1147.6
70°	641.2	724.0	774.1	962.8	872.3
72.5°	548.8	608.5	708.6	727.9	724.0
75°	466.0	541.1	600.8	645.1	635.4
77.5°	387.0	492.9	494.9	593.1	516.0
80°	294.6	337.0	427.5	387.0	290.8
82.5°	215.7	263.8	325.4	335.0	256.1
85°	146.3	194.5	258.0	296.5	192.6
87.5°	67.4	132.9	209.9	265.7	175.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)