

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-LD5-11-W-TWBWG-UNV-L850-CD1-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-LD5-11-W-TWBWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

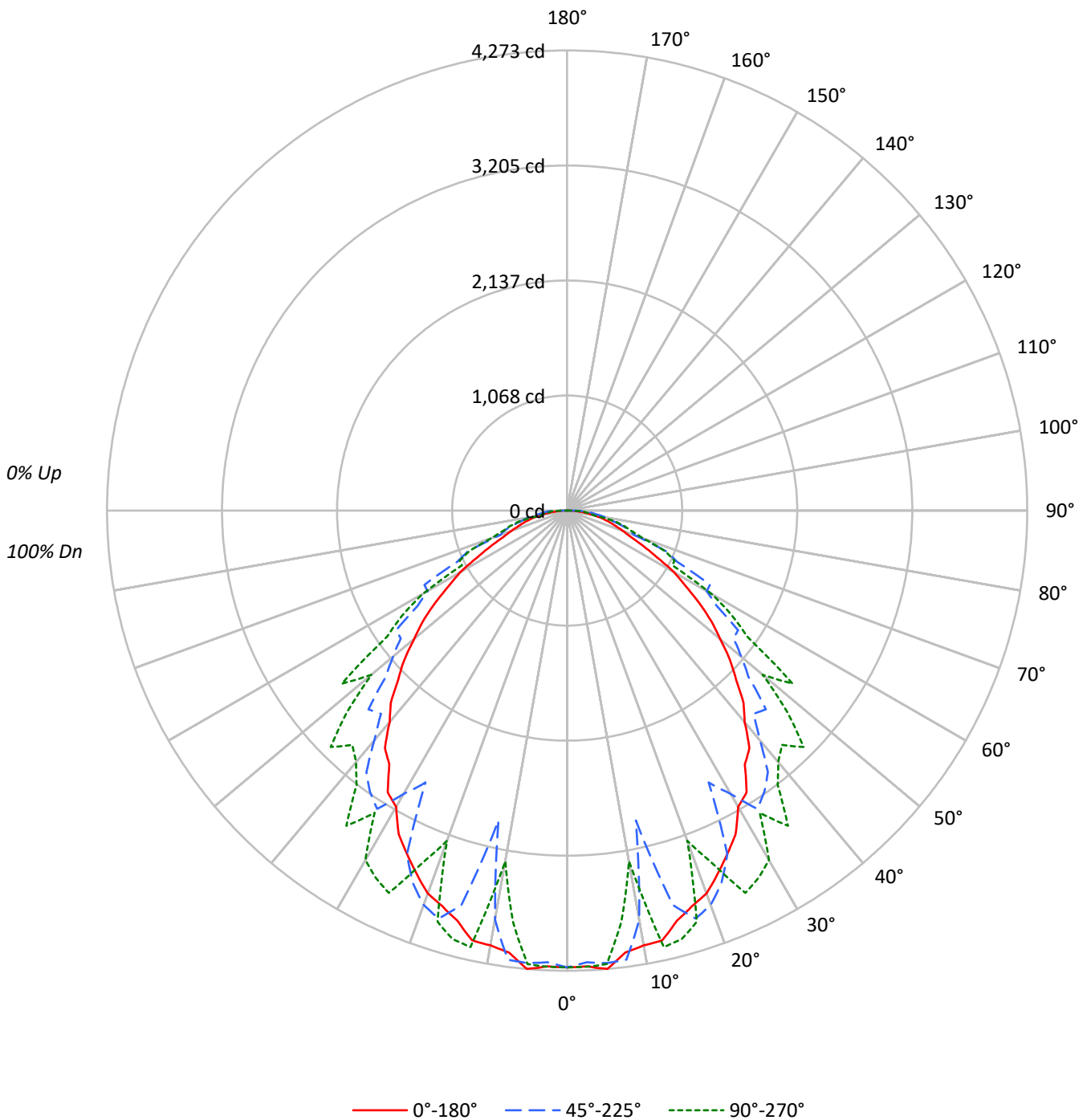
Lumens per Lamp: N/A
Luminaire Lumens: 10306.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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	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°	12452	12452	12452
5°	12564	12324	12338
10°	12169	11317	9668
15°	11902	11241	12161
20°	11711	11766	9800
25°	11263	10918	12075
30°	10612	9763	11948
35°	10137	10723	11899
40°	9624	9884	10700
45°	8986	9898	11623
50°	8228	8658	9578
55°	7388	8733	9031
60°	6451	7539	7634
65°	5150	6494	6194
70°	4399	4502	4920
75°	4129	4299	4374
80°	3725	4014	2593
85°	3275	3563	2466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	3.8
10°-20°	1085.3	10.5
20°-30°	1569.0	15.2
30°-40°	1965.1	19.1
40°-50°	1912.9	18.6
50°-60°	1637.4	15.9
60°-70°	1015.7	9.9
70°-80°	528.6	5.1
80°-90°	205.3	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°	3041.1	29.5
0°-40°	5006.2	48.6
0°-60°	8556.4	83.0
0°-90°	10306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4242	4242	4242	4242	4242	
5°	4273	4260	4217	4200	4227	399
15°	3942	3957	3793	4140	4118	1116
25°	3518	2916	3520	3618	3918	1617
35°	2878	3000	3191	3164	3574	1819
45°	2219	1992	2610	2669	3105	1716
55°	1495	1636	1937	2312	2039	1337
65°	781	877	1125	952	1100	793
75°	398	462	513	551	543	421
85°	125	166	220	253	164	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4241.6	4241.6	4241.6	4241.6	4241.6
2.5°	4236.7	4218.6	4198.8	4233.4	4240.0
5°	4272.8	4259.7	4216.9	4200.5	4226.8
7.5°	4139.6	4167.6	4207.1	3993.3	3855.1
10°	4100.2	4085.4	3860.0	2971.9	3305.8
12.5°	4087.0	4068.9	2947.2	4131.4	4151.1
15°	3942.3	3957.1	3792.6	4139.6	4118.3
17.5°	3853.5	3649.5	3971.9	4041.0	4003.1
20°	3782.7	3180.8	3896.2	3712.0	3261.4
22.5°	3652.8	2712.1	3744.9	2978.5	3557.4
25°	3517.9	2916.0	3519.6	3618.3	3917.6
27.5°	3388.0	3304.1	2846.9	3776.2	3846.9
30°	3175.9	3276.2	3037.7	3697.2	3746.6
32.5°	3101.8	3128.2	3284.4	3491.6	3327.2
35°	2878.2	2999.9	3190.7	3164.3	3573.9
37.5°	2779.5	2814.0	3062.4	3332.1	3210.4
40°	2564.0	2616.7	2784.4	2944.0	3047.6
42.5°	2424.2	2248.3	2559.1	2853.5	2952.2
45°	2218.7	1991.7	2610.1	2669.3	3105.1
47.5°	2050.9	1978.5	2284.4	2777.8	2777.8
50°	1855.2	1950.6	2110.1	2481.8	2370.0
52.5°	1687.4	1817.4	1947.3	2157.8	2639.7
55°	1495.0	1636.4	1937.4	2312.4	2039.4
57.5°	1305.9	1425.9	1644.7	1771.3	1819.0
60°	1146.3	1263.1	1495.0	1592.0	1546.0
62.5°	940.8	1088.8	1495.0	1254.9	1100.3
65°	781.2	876.6	1125.0	952.3	1100.3
67.5°	641.4	740.1	1000.0	919.4	980.2
70°	547.7	618.4	661.2	822.3	745.0
72.5°	468.7	519.7	605.2	621.7	618.4
75°	398.0	462.2	513.1	551.0	542.7
77.5°	330.6	421.0	422.7	506.6	440.8
80°	251.6	287.8	365.1	330.6	248.3
82.5°	184.2	225.3	277.9	286.2	218.7
85°	125.0	166.1	220.4	253.3	164.5
87.5°	57.6	113.5	179.3	227.0	149.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)