

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-LD5-9-W-TWBWG-UNV-L835-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-LD5-9-W-TWBWG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7644.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

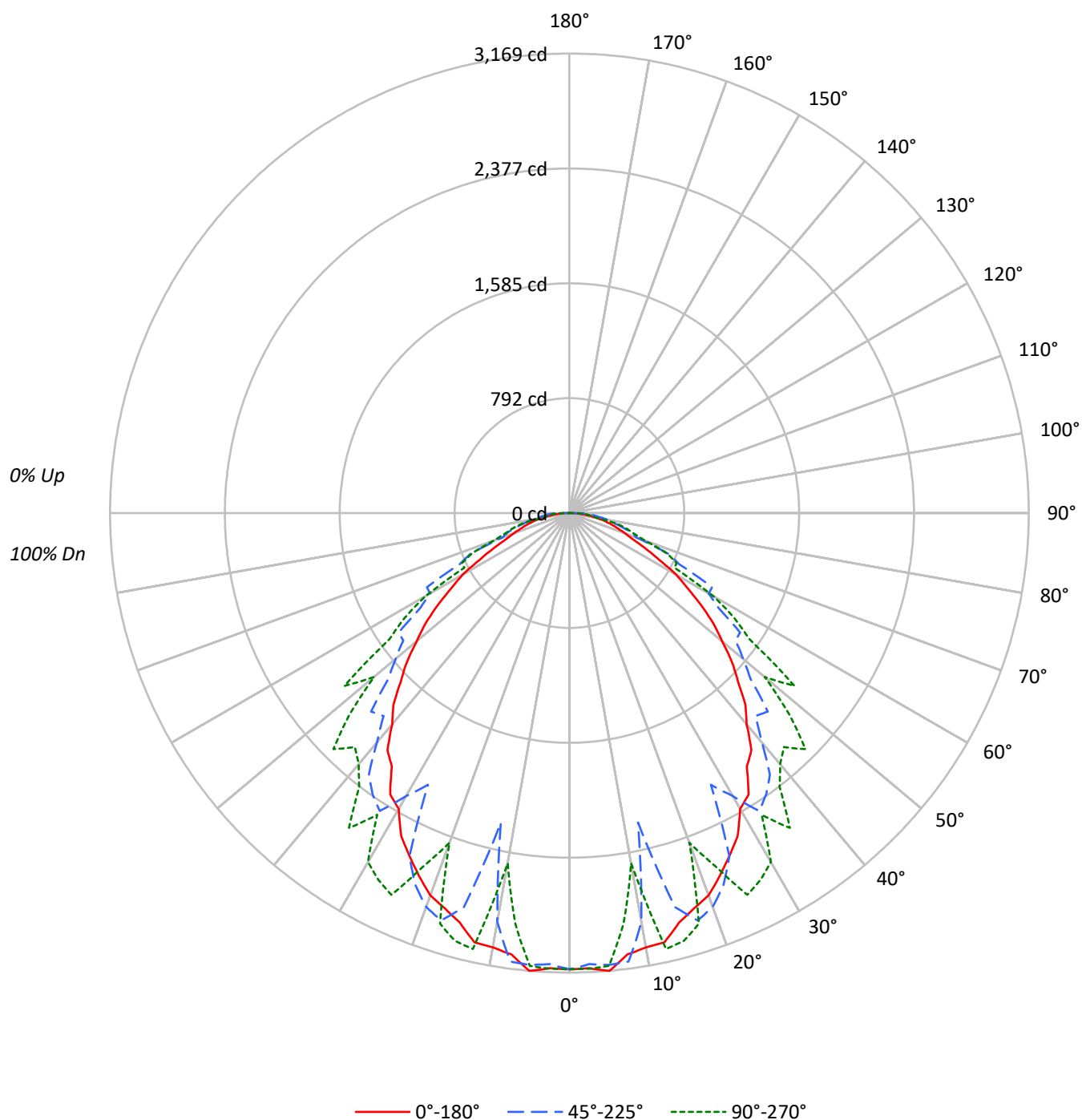
Input Watts (W): 65.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9235	9235	9235
5°	9319	9141	9151
10°	9025	8394	7171
15°	8827	8337	9019
20°	8686	8727	7268
25°	8354	8098	8956
30°	7871	7241	8861
35°	7519	7953	8825
40°	7138	7331	7936
45°	6665	7341	8621
50°	6102	6422	7104
55°	5480	6478	6698
60°	4785	5592	5663
65°	3820	4817	4594
70°	3262	3339	3649
75°	3063	3189	3245
80°	2763	2977	1924
85°	2428	2643	1829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	3.8
10°-20°	805.0	10.5
20°-30°	1163.7	15.2
30°-40°	1457.5	19.1
40°-50°	1418.8	18.6
50°-60°	1214.4	15.9
60°-70°	753.4	9.9
70°-80°	392.0	5.1
80°-90°	152.3	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°	2255.6	29.5
0°-40°	3713.1	48.6
0°-60°	6346.3	83.0
0°-90°	7644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3146	3146	3146	3146	3146	
5°	3169	3159	3128	3116	3135	296
15°	2924	2935	2813	3070	3054	828
25°	2609	2163	2610	2684	2906	1199
35°	2135	2225	2366	2347	2651	1349
45°	1646	1477	1936	1980	2303	1273
55°	1109	1214	1437	1715	1513	992
65°	579	650	834	706	816	588
75°	295	343	381	409	403	312
85°	93	123	164	188	122	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3146.0	3146.0	3146.0	3146.0	3146.0
2.5°	3142.4	3128.9	3114.3	3139.9	3144.8
5°	3169.2	3159.4	3127.7	3115.5	3135.0
7.5°	3070.4	3091.1	3120.4	2961.8	2859.3
10°	3041.1	3030.1	2863.0	2204.3	2451.9
12.5°	3031.3	3017.9	2186.0	3064.3	3078.9
15°	2924.0	2935.0	2813.0	3070.4	3054.5
17.5°	2858.1	2706.9	2946.0	2997.2	2969.1
20°	2805.7	2359.2	2889.8	2753.2	2419.0
22.5°	2709.3	2011.5	2777.6	2209.2	2638.6
25°	2609.3	2162.8	2610.5	2683.7	2905.7
27.5°	2512.9	2450.7	2111.6	2800.8	2853.2
30°	2355.5	2430.0	2253.1	2742.2	2778.8
32.5°	2300.7	2320.2	2436.1	2589.8	2467.8
35°	2134.7	2225.0	2366.5	2347.0	2650.7
37.5°	2061.6	2087.2	2271.4	2471.4	2381.2
40°	1901.8	1940.8	2065.2	2183.5	2260.4
42.5°	1798.1	1667.5	1898.1	2116.5	2189.6
45°	1645.6	1477.2	1935.9	1979.8	2303.1
47.5°	1521.2	1467.5	1694.4	2060.3	2060.3
50°	1376.0	1446.8	1565.1	1840.8	1757.8
52.5°	1251.6	1347.9	1444.3	1600.5	1957.9
55°	1108.9	1213.8	1437.0	1715.1	1512.6
57.5°	968.6	1057.6	1219.9	1313.8	1349.2
60°	850.2	936.9	1108.9	1180.8	1146.7
62.5°	697.8	807.5	1108.9	930.8	816.1
65°	579.4	650.2	834.4	706.3	816.1
67.5°	475.7	548.9	741.7	681.9	727.0
70°	406.2	458.7	490.4	609.9	552.6
72.5°	347.7	385.5	448.9	461.1	458.7
75°	295.2	342.8	380.6	408.7	402.6
77.5°	245.2	312.3	313.5	375.7	326.9
80°	186.6	213.5	270.8	245.2	184.2
82.5°	136.6	167.1	206.2	212.3	162.2
85°	92.7	123.2	163.5	187.9	122.0
87.5°	42.7	84.2	133.0	168.3	111.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)