

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-CLWG-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 (P34178)
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-CLWG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

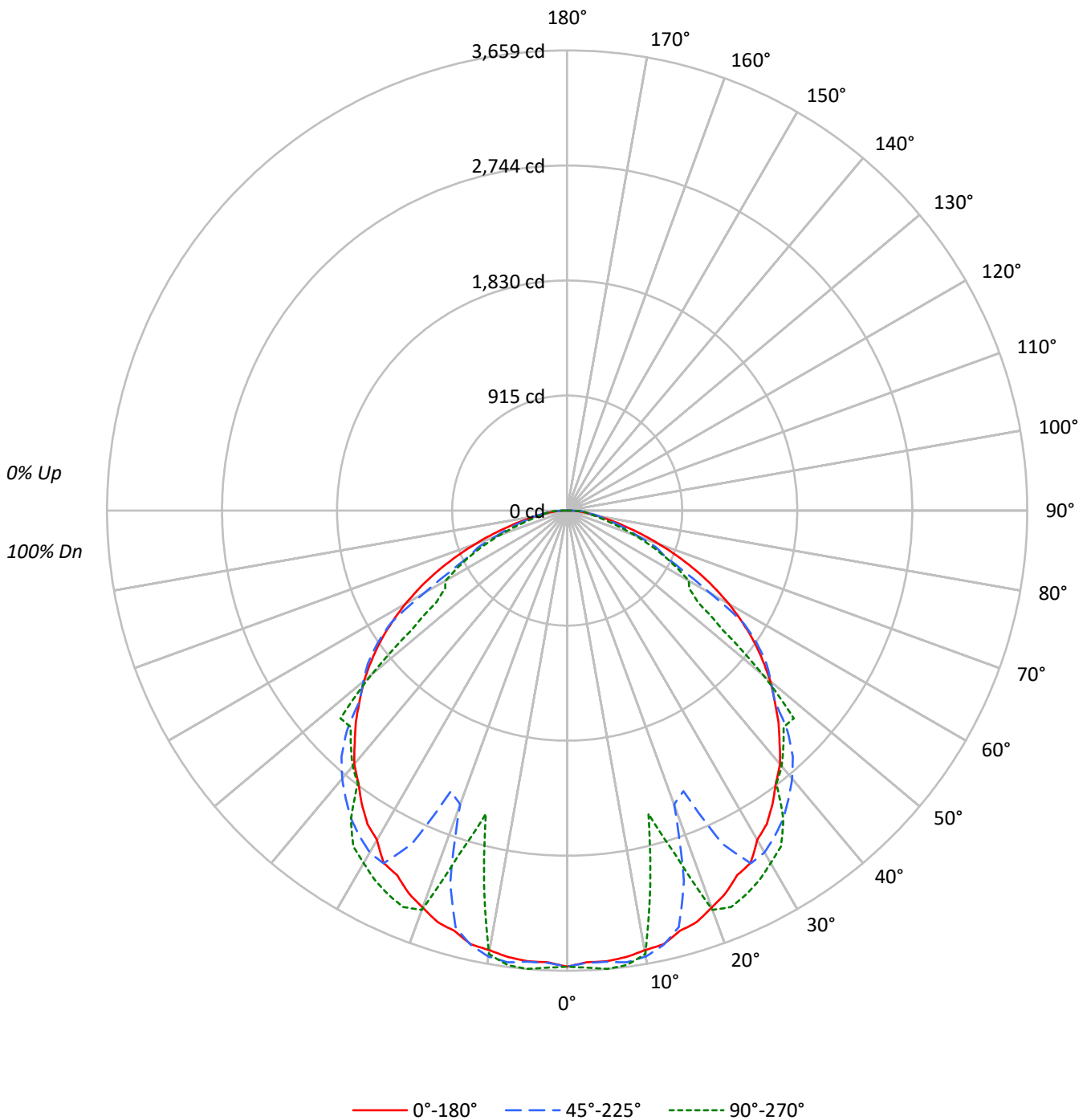
Lumens per Lamp: N/A
Luminaire Lumens: 9389.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	10644	10644	10644
5°	10578	10522	10679
10°	10535	10556	10469
15°	10446	10163	7369
20°	10399	7510	10151
25°	10244	9069	10381
30°	10103	10086	10322
35°	10024	10061	9982
40°	9882	9880	9317
45°	9625	9396	9108
50°	9349	8681	8231
55°	8959	8306	5605
60°	8356	6631	5514
65°	7480	4923	4750
70°	6226	4182	3771
75°	4825	3335	2776
80°	3598	2819	2118
85°	3086	2362	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	3.7
10°-20°	912.4	9.7
20°-30°	1454.8	15.5
30°-40°	1746.1	18.6
40°-50°	1857.1	19.8
50°-60°	1519.3	16.2
60°-70°	963.3	10.3
70°-80°	445.0	4.7
80°-90°	146.8	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°	2711.5	28.9
0°-40°	4457.6	47.5
0°-60°	7834.0	83.4
0°-90°	9389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3626	3626	3626	3626	3626	
5°	3598	3599	3600	3629	3659	342
15°	3460	3514	3429	2701	2496	981
25°	3199	3208	2924	3338	3368	1482
35°	2846	2133	2994	3050	2998	1778
45°	2376	2387	2478	2417	2433	1831
55°	1813	1908	1843	1428	1266	1614
65°	1134	1154	853	859	844	1119
75°	465	441	398	368	344	510
85°	118	128	146	146	142	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3625.8	3625.8	3625.8	3625.8	3625.8
2.5°	3594.5	3600.4	3598.9	3625.8	3637.7
5°	3597.5	3598.9	3600.4	3628.8	3658.6
7.5°	3581.1	3612.4	3622.8	3612.4	3643.7
10°	3549.7	3578.1	3600.4	3569.1	3579.6
12.5°	3533.3	3575.1	3537.8	3384.3	3050.3
15°	3460.3	3514.0	3429.0	2701.4	2495.7
17.5°	3430.5	3466.3	3090.6	2483.8	2872.9
20°	3358.9	3408.1	2486.8	3193.4	3378.3
22.5°	3293.3	3329.1	2413.7	3358.9	3411.1
25°	3199.4	3208.3	2923.6	3338.0	3367.9
27.5°	3159.1	3025.0	3162.1	3294.8	3311.2
30°	3023.5	2747.7	3138.3	3235.2	3236.7
32.5°	2954.9	2392.8	3071.2	3148.7	3165.1
35°	2846.1	2133.4	2993.7	3050.3	2998.1
37.5°	2726.8	2096.2	2890.8	2861.0	2734.2
40°	2632.9	2287.0	2783.4	2598.6	2653.7
42.5°	2500.2	2403.3	2655.2	2534.5	2544.9
45°	2376.4	2386.9	2477.8	2416.7	2433.1
47.5°	2236.3	2304.9	2234.8	2315.3	2445.0
50°	2108.1	2181.1	2115.5	2248.2	2036.5
52.5°	1962.0	2052.9	1997.8	1808.4	1562.4
55°	1812.9	1908.3	1842.7	1428.2	1265.7
57.5°	1650.4	1729.4	1660.8	1170.3	1149.5
60°	1484.9	1547.5	1314.9	1066.0	1116.7
62.5°	1310.5	1349.2	1037.6	982.5	979.5
65°	1134.5	1153.9	852.8	858.7	843.8
67.5°	951.2	960.1	767.8	727.5	705.2
70°	775.2	769.3	614.2	591.9	571.0
72.5°	614.2	585.9	499.4	469.6	444.3
75°	465.1	441.3	398.1	368.2	344.4
77.5°	345.9	332.5	311.6	314.6	263.9
80°	243.0	244.5	256.4	217.7	202.8
82.5°	168.5	177.4	183.4	180.4	175.9
85°	117.8	128.2	146.1	146.1	141.6
87.5°	59.6	88.0	117.8	125.2	122.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)