

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-L840-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-L840-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

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

Summary

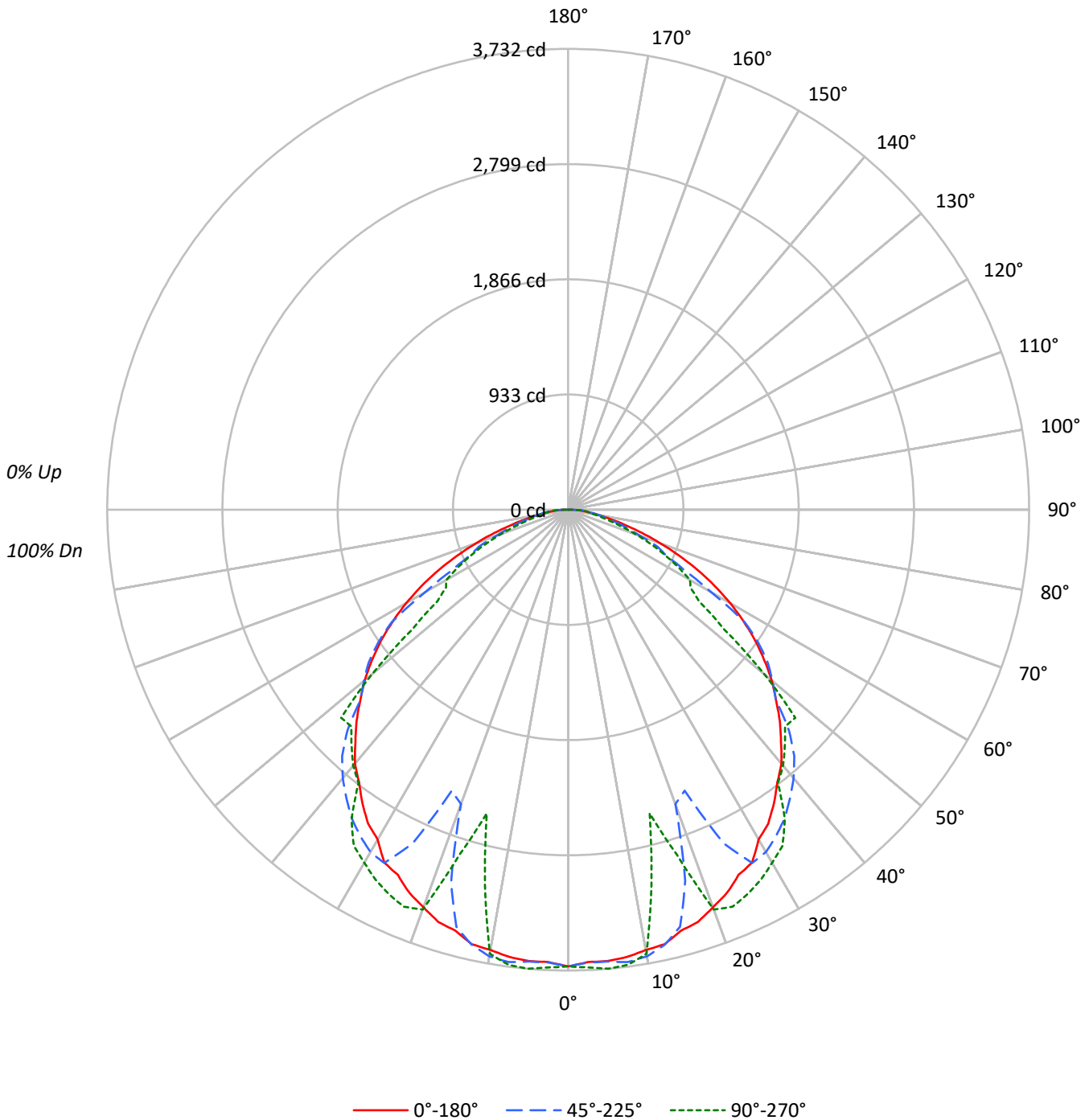
Lumens per Lamp: N/A
Luminaire Lumens: 9577.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	10857	10857	10857
5°	10790	10733	10893
10°	10746	10767	10678
15°	10656	10366	7517
20°	10607	7660	10354
25°	10449	9250	10589
30°	10305	10288	10528
35°	10225	10262	10182
40°	10080	10078	9503
45°	9818	9584	9290
50°	9536	8855	8396
55°	9138	8473	5717
60°	8523	6764	5625
65°	7630	5021	4845
70°	6351	4266	3846
75°	4923	3401	2832
80°	3670	2876	2160
85°	3146	2408	2166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	3.7
10°-20°	930.7	9.7
20°-30°	1484.0	15.5
30°-40°	1781.1	18.6
40°-50°	1894.2	19.8
50°-60°	1549.7	16.2
60°-70°	982.5	10.3
70°-80°	453.9	4.7
80°-90°	149.7	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°	2765.8	28.9
0°-40°	4546.9	47.5
0°-60°	7990.8	83.4
0°-90°	9577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3698	3698	3698	3698	3698	
5°	3670	3671	3672	3701	3732	349
15°	3530	3584	3498	2756	2546	1000
25°	3264	3273	2982	3405	3435	1512
35°	2903	2176	3054	3111	3058	1814
45°	2424	2435	2527	2465	2482	1867
55°	1849	1946	1880	1457	1291	1647
65°	1157	1177	870	876	861	1141
75°	474	450	406	376	351	520
85°	120	131	149	149	144	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3698.4	3698.4	3698.4	3698.4	3698.4
2.5°	3666.4	3672.5	3671.0	3698.4	3710.5
5°	3669.5	3671.0	3672.5	3701.4	3731.8
7.5°	3652.8	3684.7	3695.3	3684.7	3716.6
10°	3620.8	3649.7	3672.5	3640.6	3651.2
12.5°	3604.1	3646.7	3608.7	3452.0	3111.4
15°	3529.6	3584.3	3497.6	2755.5	2545.7
17.5°	3499.2	3535.7	3152.4	2533.5	2930.4
20°	3426.2	3476.4	2536.6	3257.4	3445.9
22.5°	3359.3	3395.8	2462.0	3426.2	3479.4
25°	3263.5	3272.6	2982.1	3404.9	3435.3
27.5°	3222.4	3085.5	3225.4	3360.8	3377.5
30°	3084.0	2802.7	3201.1	3300.0	3301.5
32.5°	3014.1	2440.7	3132.7	3211.7	3228.5
35°	2903.0	2176.1	3053.6	3111.4	3058.2
37.5°	2781.4	2138.1	2948.7	2918.3	2789.0
40°	2685.6	2332.8	2839.2	2650.6	2706.9
42.5°	2550.2	2451.4	2708.4	2585.2	2595.9
45°	2424.0	2434.7	2527.4	2465.1	2481.8
47.5°	2281.1	2351.0	2279.6	2361.7	2494.0
50°	2150.3	2224.8	2157.9	2293.2	2077.3
52.5°	2001.3	2094.0	2037.8	1844.6	1593.7
55°	1849.2	1946.5	1879.6	1456.8	1291.1
57.5°	1683.4	1764.0	1694.1	1193.8	1172.5
60°	1514.6	1578.5	1341.3	1087.3	1139.0
62.5°	1336.7	1376.2	1058.4	1002.2	999.1
65°	1157.3	1177.0	869.8	875.9	860.7
67.5°	970.2	979.3	783.2	742.1	719.3
70°	790.8	784.7	626.5	603.7	582.4
72.5°	626.5	597.6	509.4	479.0	453.2
75°	474.5	450.1	406.0	375.6	351.3
77.5°	352.8	339.1	317.8	320.9	269.2
80°	247.9	249.4	261.6	222.0	206.8
82.5°	171.8	181.0	187.0	184.0	179.4
85°	120.1	130.8	149.0	149.0	144.5
87.5°	60.8	89.7	120.1	127.7	124.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)