

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-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 (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-L840-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

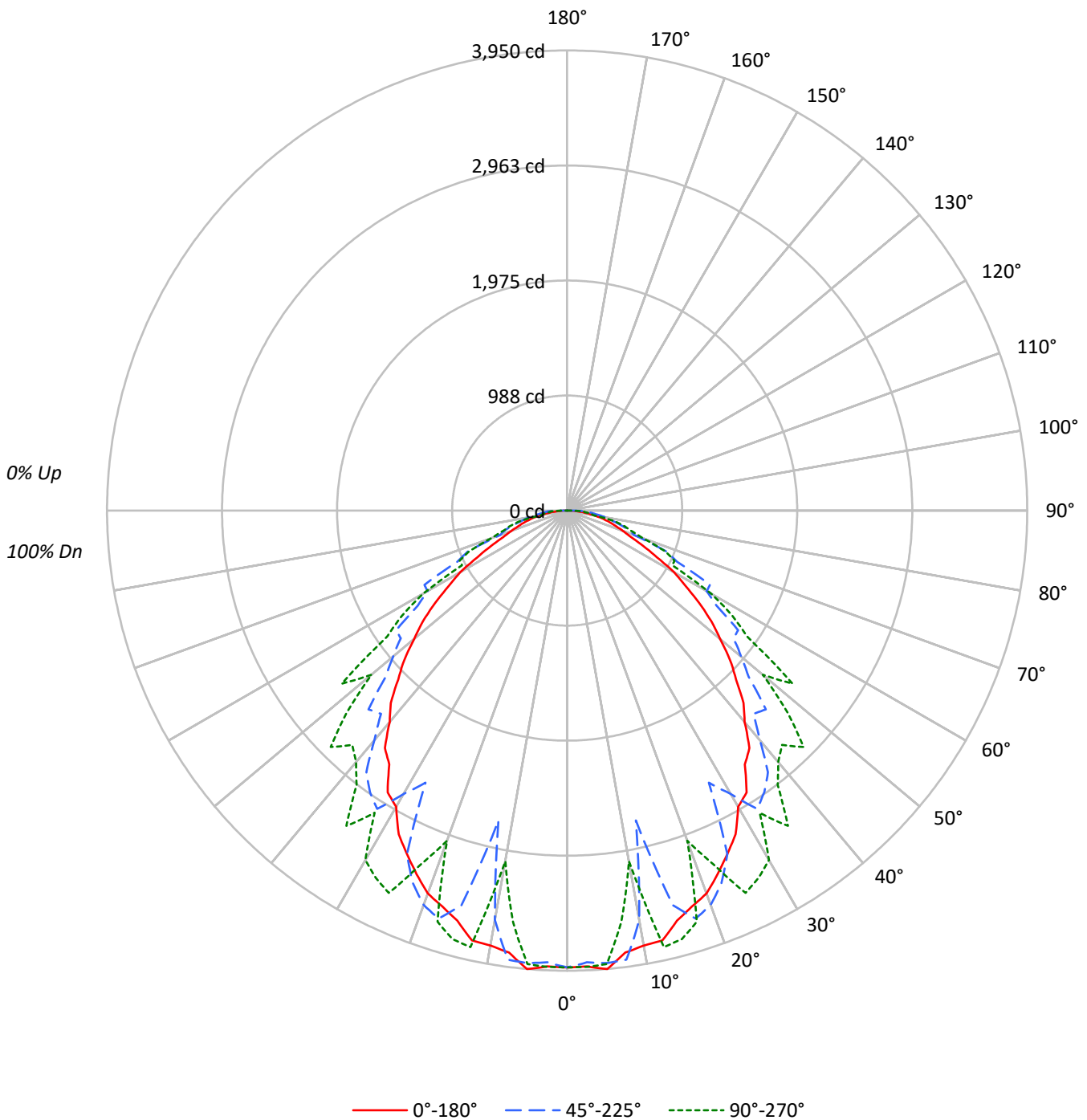
Lumens per Lamp: N/A
Luminaire Lumens: 9528.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	11512	11512	11512
5°	11615	11394	11406
10°	11250	10463	8938
15°	11003	10392	11243
20°	10827	10878	9060
25°	10413	10093	11164
30°	9811	9026	11045
35°	9372	9913	11001
40°	8898	9138	9892
45°	8308	9151	10746
50°	7606	8005	8855
55°	6830	8074	8349
60°	5964	6970	7058
65°	4761	6003	5726
70°	4066	4162	4549
75°	3818	3974	4045
80°	3444	3712	2398
85°	3028	3293	2280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.6	3.8
10°-20°	1003.4	10.5
20°-30°	1450.6	15.2
30°-40°	1816.7	19.1
40°-50°	1768.4	18.6
50°-60°	1513.8	15.9
60°-70°	939.1	9.9
70°-80°	488.7	5.1
80°-90°	189.8	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°	2811.6	29.5
0°-40°	4628.3	48.6
0°-60°	7910.5	83.0
0°-90°	9528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3921	3921	3921	3921	3921	
5°	3950	3938	3899	3883	3908	369
15°	3645	3658	3506	3827	3807	1032
25°	3252	2696	3254	3345	3622	1495
35°	2661	2773	2950	2926	3304	1681
45°	2051	1841	2413	2468	2871	1587
55°	1382	1513	1791	2138	1885	1236
65°	722	810	1040	880	1017	733
75°	368	427	474	509	502	389
85°	116	154	204	234	152	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3921.4	3921.4	3921.4	3921.4	3921.4
2.5°	3916.8	3900.1	3881.9	3913.8	3919.9
5°	3950.3	3938.1	3898.6	3883.4	3907.7
7.5°	3827.1	3853.0	3889.5	3691.8	3564.1
10°	3790.6	3777.0	3568.6	2747.6	3056.2
12.5°	3778.5	3761.7	2724.8	3819.5	3837.8
15°	3644.7	3658.4	3506.3	3827.1	3807.4
17.5°	3562.6	3374.0	3672.0	3735.9	3700.9
20°	3497.2	2940.7	3602.1	3431.8	3015.2
22.5°	3377.1	2507.3	3462.2	2753.6	3288.9
25°	3252.4	2695.9	3253.9	3345.1	3621.9
27.5°	3132.3	3054.7	2632.0	3491.1	3556.5
30°	2936.1	3028.9	2808.4	3418.1	3463.7
32.5°	2867.7	2892.0	3036.5	3228.0	3076.0
35°	2660.9	2773.4	2949.8	2925.5	3304.1
37.5°	2569.7	2601.6	2831.2	3080.6	2968.0
40°	2370.5	2419.1	2574.2	2721.7	2817.5
42.5°	2241.2	2078.5	2365.9	2638.1	2729.3
45°	2051.2	1841.3	2413.1	2467.8	2870.7
47.5°	1896.1	1829.2	2112.0	2568.1	2568.1
50°	1715.1	1803.3	1950.8	2294.5	2191.1
52.5°	1560.0	1680.2	1800.3	1994.9	2440.4
55°	1382.1	1512.9	1791.2	2137.8	1885.4
57.5°	1207.3	1318.3	1520.5	1637.6	1681.7
60°	1059.8	1167.8	1382.1	1471.9	1429.3
62.5°	869.7	1006.6	1382.1	1160.2	1017.2
65°	722.2	810.4	1040.0	880.4	1017.2
67.5°	593.0	684.2	924.5	850.0	906.2
70°	506.3	571.7	611.2	760.3	688.8
72.5°	433.3	480.5	559.5	574.8	571.7
75°	368.0	427.3	474.4	509.4	501.8
77.5°	305.6	389.3	390.8	468.3	407.5
80°	232.6	266.1	337.6	305.6	229.6
82.5°	170.3	208.3	257.0	264.6	202.2
85°	115.6	153.6	203.7	234.2	152.1
87.5°	53.2	104.9	165.7	209.8	138.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)