

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-LD5-14-W-CLWG-UNV-L835-CD2-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-LD5-14-W-CLWG-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUION

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

**Summary**

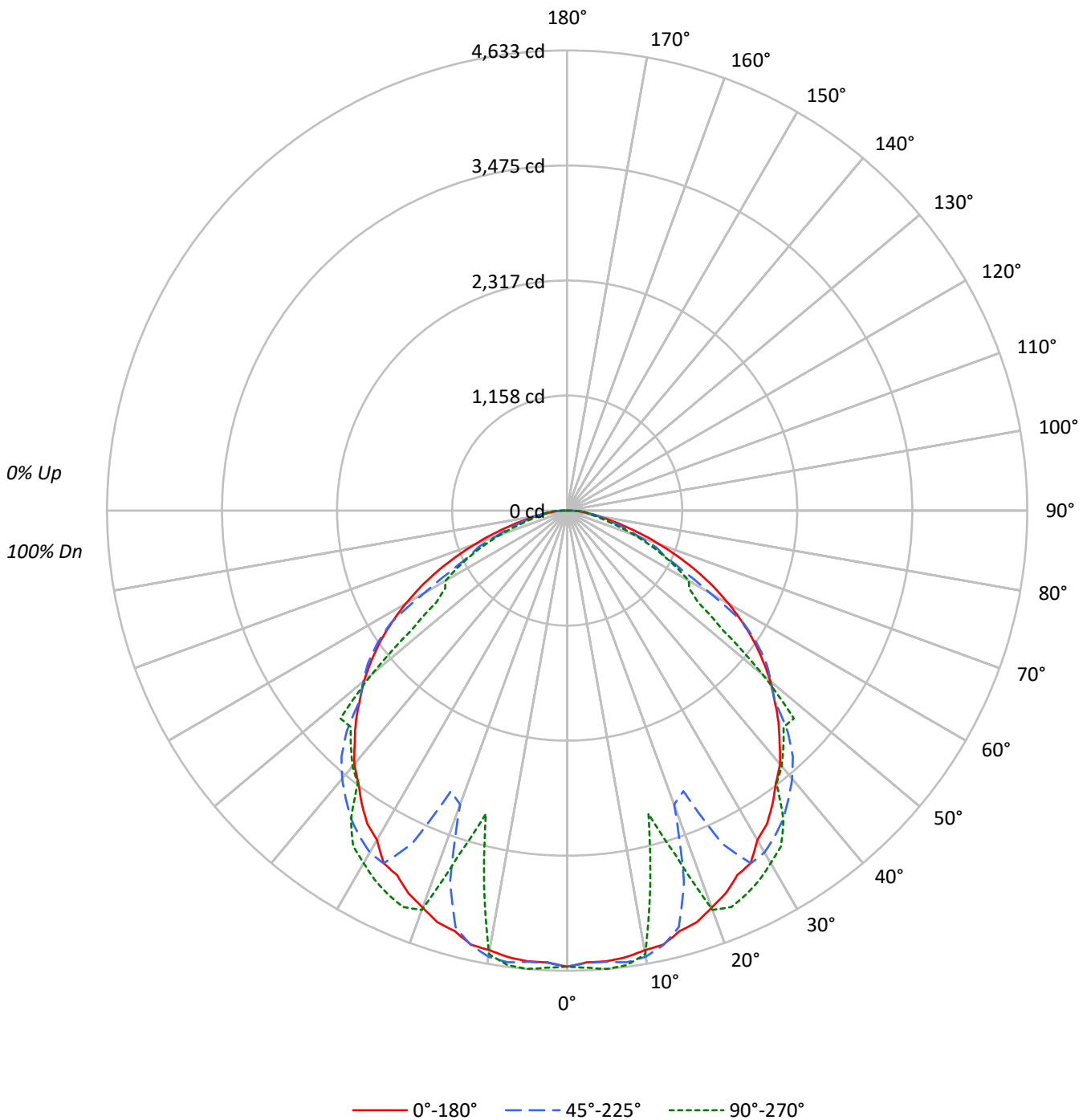
Lumens per Lamp: N/A  
Luminaire Lumens: 11890.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	13479	13479	13479
5°	13396	13326	13524
10°	13341	13368	13258
15°	13229	12870	9332
20°	13168	9510	12855
25°	12972	11485	13146
30°	12794	12772	13071
35°	12694	12740	12641
40°	12515	12513	11798
45°	12189	11899	11534
50°	11839	10993	10423
55°	11345	10519	7098
60°	10582	8398	6983
65°	9473	6234	6015
70°	7885	5297	4775
75°	6112	4223	3515
80°	4556	3570	2682
85°	3909	2990	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.0	3.7
10°-20°	1155.5	9.7
20°-30°	1842.3	15.5
30°-40°	2211.3	18.6
40°-50°	2351.7	19.8
50°-60°	1924.0	16.2
60°-70°	1219.8	10.3
70°-80°	563.5	4.7
80°-90°	185.9	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°	3433.8	28.9
0°-40°	5645.0	47.5
0°-60°	9920.7	83.4
0°-90°	11890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11890.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4592	4592	4592	4592	4592	
5°	4556	4558	4560	4595	4633	433
15°	4382	4450	4342	3421	3160	1242
25°	4052	4063	3702	4227	4265	1877
35°	3604	2702	3791	3863	3797	2252
45°	3010	3023	3138	3060	3081	2318
55°	2296	2417	2334	1809	1603	2044
65°	1437	1461	1080	1088	1069	1417
75°	589	559	504	466	436	645
85°	149	162	185	185	179	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4591.6	4591.6	4591.6	4591.6	4591.6
2.5°	4551.9	4559.5	4557.6	4591.6	4606.7
5°	4555.7	4557.6	4559.5	4595.4	4633.1
7.5°	4535.0	4574.6	4587.8	4574.6	4614.3
10°	4495.3	4531.2	4559.5	4519.9	4533.1
12.5°	4474.5	4527.4	4480.2	4285.7	3862.8
15°	4382.0	4450.0	4342.4	3421.0	3160.5
17.5°	4344.3	4389.6	3913.8	3145.4	3638.2
20°	4253.6	4315.9	3149.2	4044.1	4278.2
22.5°	4170.6	4215.9	3056.7	4253.6	4319.7
25°	4051.6	4063.0	3702.4	4227.2	4265.0
27.5°	4000.7	3830.7	4004.4	4172.5	4193.2
30°	3828.8	3479.6	3974.2	4096.9	4098.8
32.5°	3742.0	3030.2	3889.3	3987.4	4008.2
35°	3604.2	2701.7	3791.1	3862.8	3796.8
37.5°	3453.1	2654.5	3660.8	3623.1	3462.6
40°	3334.2	2896.2	3524.9	3290.8	3360.6
42.5°	3166.2	3043.4	3362.5	3209.6	3222.8
45°	3009.5	3022.7	3137.8	3060.4	3081.2
47.5°	2832.0	2918.8	2830.1	2932.1	3096.3
50°	2669.6	2762.1	2679.1	2847.1	2579.0
52.5°	2484.6	2599.8	2529.9	2290.1	1978.6
55°	2295.8	2416.6	2333.6	1808.7	1602.9
57.5°	2090.0	2190.1	2103.2	1482.1	1455.6
60°	1880.4	1959.7	1665.2	1349.9	1414.1
62.5°	1659.5	1708.6	1314.0	1244.2	1240.4
65°	1436.8	1461.3	1079.9	1087.5	1068.6
67.5°	1204.5	1215.9	972.3	921.3	893.0
70°	981.8	974.2	777.9	749.5	723.1
72.5°	777.9	742.0	632.5	594.7	562.6
75°	589.1	558.8	504.1	466.3	436.1
77.5°	438.0	421.0	394.6	398.4	334.2
80°	307.7	309.6	324.7	275.6	256.8
82.5°	213.3	224.7	232.2	228.4	222.8
85°	149.2	162.4	185.0	185.0	179.4
87.5°	75.5	111.4	149.2	158.6	154.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)