

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-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-LD5-9-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**

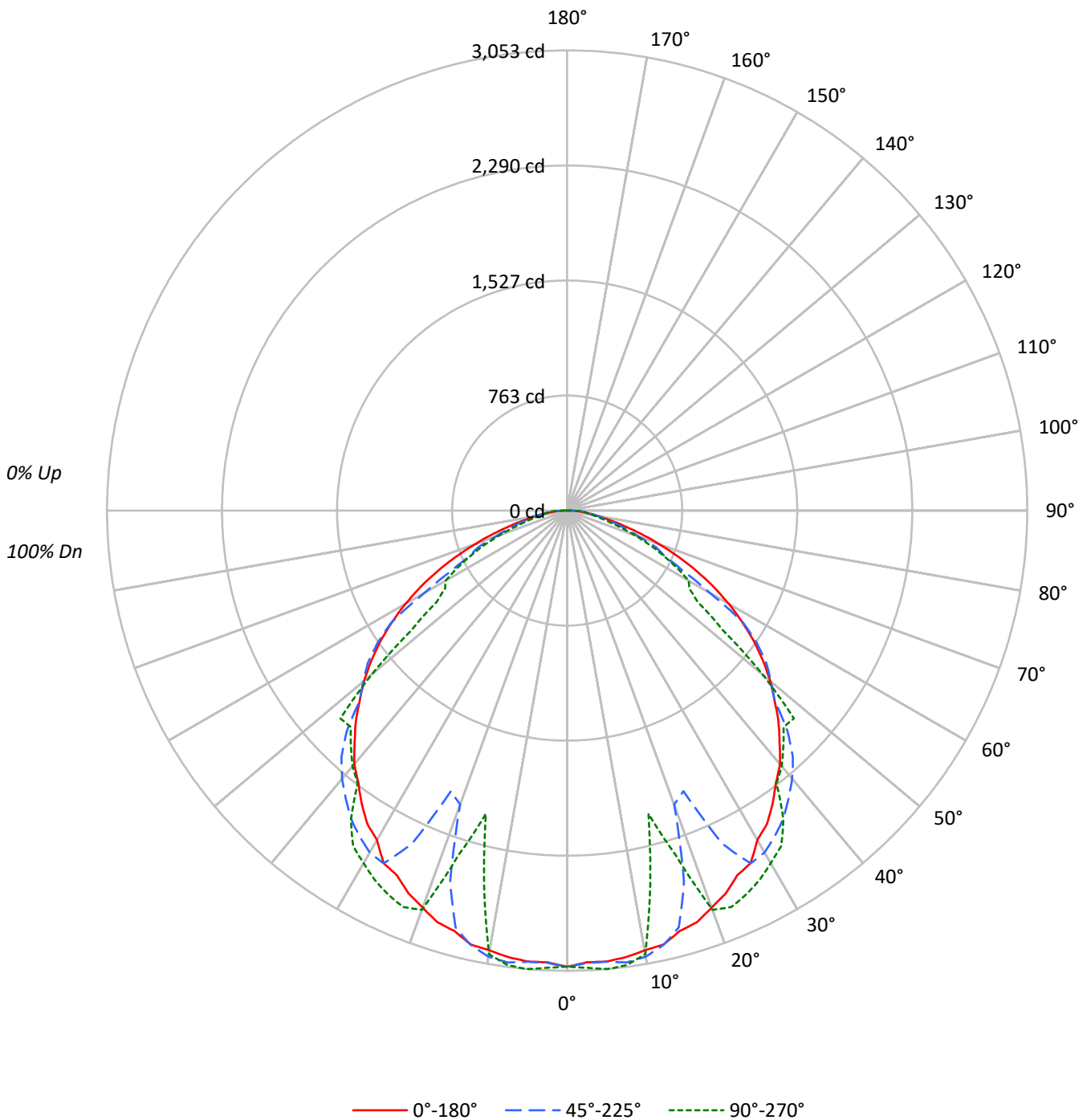
Lumens per Lamp: N/A  
Luminaire Lumens: 7836.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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	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°	8883	8883	8883
5°	8828	8782	8913
10°	8792	8810	8737
15°	8718	8482	6151
20°	8679	6267	8472
25°	8549	7569	8664
30°	8432	8418	8614
35°	8366	8396	8331
40°	8248	8246	7776
45°	8033	7842	7601
50°	7803	7245	6869
55°	7477	6932	4678
60°	6974	5534	4602
65°	6243	4108	3965
70°	5196	3490	3147
75°	4027	2783	2317
80°	3003	2353	1767
85°	2575	1970	1772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	3.7
10°-20°	761.5	9.7
20°-30°	1214.2	15.5
30°-40°	1457.3	18.6
40°-50°	1549.9	19.8
50°-60°	1268.0	16.2
60°-70°	803.9	10.3
70°-80°	371.4	4.7
80°-90°	122.5	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°	2263.0	28.9
0°-40°	3720.3	47.5
0°-60°	6538.2	83.4
0°-90°	7836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7836.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	3002	3004	3005	3028	3053	285
15°	2888	2933	2862	2255	2083	818
25°	2670	2678	2440	2786	2811	1237
35°	2375	1780	2498	2546	2502	1484
45°	1983	1992	2068	2017	2031	1528
55°	1513	1593	1538	1192	1056	1347
65°	947	963	712	717	704	934
75°	388	368	332	307	287	425
85°	98	107	122	122	118	106
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3026.1	3026.1	3026.1	3026.1	3026.1
2.5°	2999.9	3004.9	3003.7	3026.1	3036.0
5°	3002.4	3003.7	3004.9	3028.5	3053.4
7.5°	2988.7	3014.9	3023.6	3014.9	3041.0
10°	2962.6	2986.2	3004.9	2978.8	2987.5
12.5°	2948.9	2983.7	2952.6	2824.5	2545.8
15°	2887.9	2932.7	2861.8	2254.6	2082.9
17.5°	2863.1	2892.9	2579.4	2072.9	2397.7
20°	2803.3	2844.4	2075.4	2665.2	2819.5
22.5°	2748.6	2778.4	2014.5	2803.3	2846.9
25°	2670.2	2677.7	2440.0	2785.9	2810.8
27.5°	2636.6	2524.6	2639.1	2749.8	2763.5
30°	2523.4	2293.2	2619.2	2700.1	2701.3
32.5°	2466.1	1997.0	2563.2	2627.9	2641.6
35°	2375.3	1780.5	2498.5	2545.8	2502.2
37.5°	2275.8	1749.4	2412.6	2387.7	2282.0
40°	2197.4	1908.7	2323.0	2168.8	2214.8
42.5°	2086.6	2005.8	2216.0	2115.2	2124.0
45°	1983.4	1992.1	2068.0	2017.0	2030.6
47.5°	1866.4	1923.6	1865.2	1932.3	2040.6
50°	1759.4	1820.4	1765.6	1876.4	1699.7
52.5°	1637.5	1713.4	1667.3	1509.3	1304.0
55°	1513.0	1592.7	1537.9	1192.0	1056.4
57.5°	1377.4	1443.3	1386.1	976.7	959.3
60°	1239.3	1291.5	1097.4	889.6	932.0
62.5°	1093.7	1126.1	866.0	820.0	817.5
65°	946.9	963.1	711.7	716.7	704.3
67.5°	793.8	801.3	640.8	607.2	588.5
70°	647.0	642.0	512.6	494.0	476.6
72.5°	512.6	489.0	416.8	391.9	370.8
75°	388.2	368.3	332.2	307.3	287.4
77.5°	288.7	277.5	260.1	262.5	220.2
80°	202.8	204.1	214.0	181.7	169.2
82.5°	140.6	148.1	153.0	150.6	146.8
85°	98.3	107.0	121.9	121.9	118.2
87.5°	49.8	73.4	98.3	104.5	102.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)