

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-WG-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 (P34174)
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-WG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

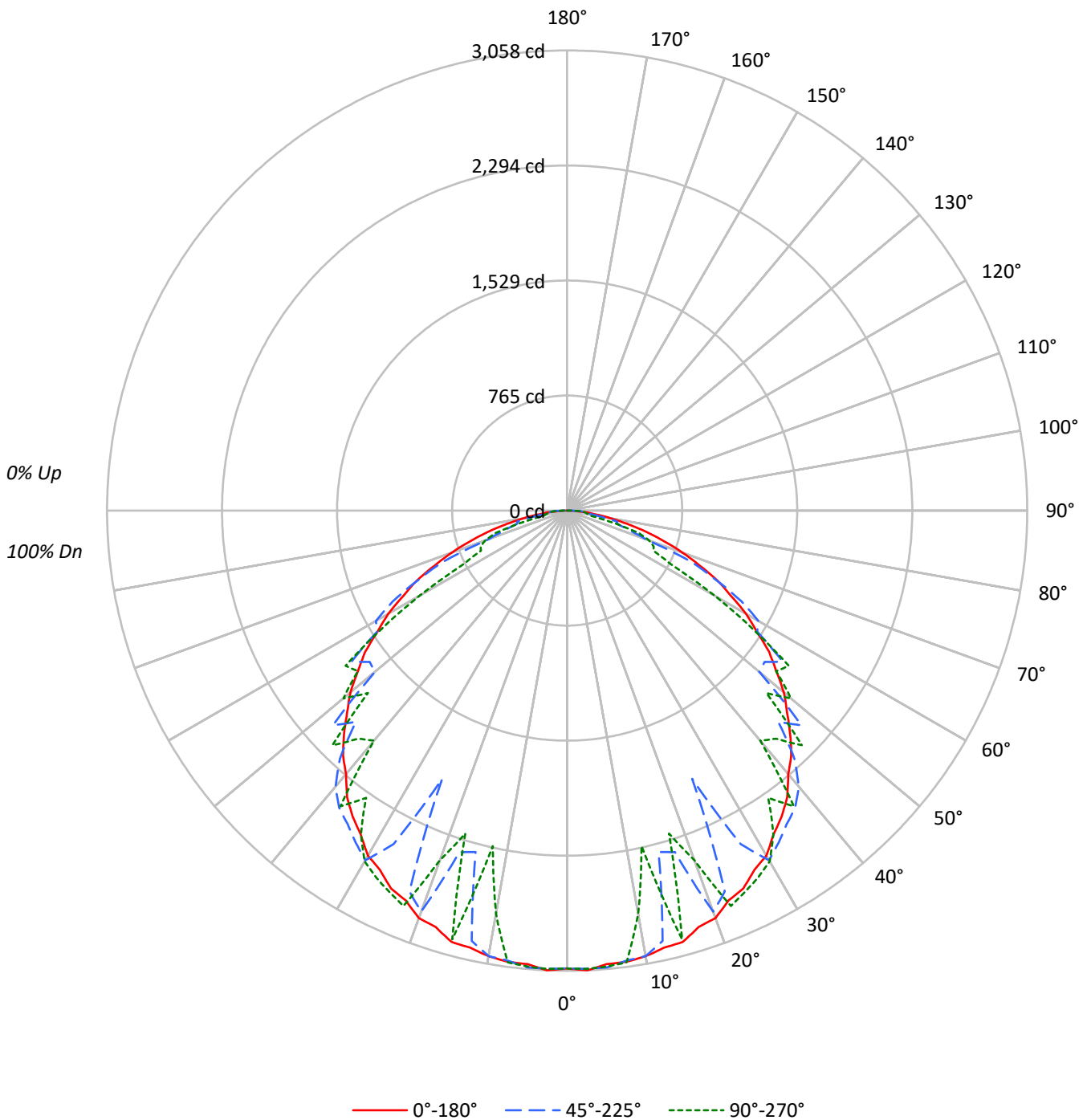
Lumens per Lamp: N/A
Luminaire Lumens: 8366.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8932	8932	8932
5°	8896	8906	8877
10°	8925	8813	7960
15°	8961	6960	8710
20°	8921	8565	7423
25°	8870	6100	8618
30°	8846	8621	8582
35°	8748	8548	7758
40°	8581	8501	7007
45°	8489	7526	8256
50°	8337	6838	7844
55°	8096	7880	7963
60°	7723	7401	5602
65°	7287	6310	3557
70°	6526	3763	3827
75°	5619	2892	2625
80°	4353	2387	1516
85°	3133	1835	1755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	3.4
10°-20°	769.5	9.2
20°-30°	1193.2	14.3
30°-40°	1529.7	18.3
40°-50°	1566.6	18.7
50°-60°	1485.5	17.8
60°-70°	951.5	11.4
70°-80°	462.4	5.5
80°-90°	119.4	1.4
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°	2250.9	26.9
0°-40°	3780.6	45.2
0°-60°	6832.7	81.7
0°-90°	8366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3042	3042	3042	3042	3042	
5°	3025	3034	3047	3055	3041	289
15°	2968	2968	2348	2762	2950	834
25°	2770	2394	1966	2813	2796	1273
35°	2484	2500	2544	2478	2330	1551
45°	2096	2100	1985	1998	2206	1615
55°	1638	1690	1748	1686	1798	1456
65°	1105	1080	1093	710	632	1083
75°	542	605	345	418	326	573
85°	120	105	114	120	117	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	3058.4	3060.8	3047.4	3042.5	3048.6
5°	3025.4	3034.0	3047.4	3054.7	3041.3
7.5°	3024.2	3027.9	3016.9	3057.1	3027.9
10°	3007.1	3027.9	3005.9	2899.8	2721.7
12.5°	2975.4	2979.1	2929.0	2110.5	2283.7
15°	2968.1	2968.1	2348.4	2761.9	2949.8
17.5°	2902.2	2918.1	2380.1	2901.0	2250.8
20°	2881.5	2871.7	2836.3	2054.4	2470.3
22.5°	2803.4	2736.3	2738.7	2854.6	2843.6
25°	2770.4	2393.5	1966.5	2813.1	2796.1
27.5°	2692.4	2006.8	2498.4	2752.2	2748.5
30°	2647.2	2087.3	2682.6	2702.1	2691.2
32.5°	2552.1	2395.9	2615.5	2657.0	2550.9
35°	2483.8	2499.6	2543.5	2477.7	2330.1
37.5°	2402.0	2293.5	2488.6	2259.3	2476.4
40°	2286.1	1787.2	2394.7	2424.0	1995.8
42.5°	2204.4	1749.4	2236.1	1881.1	2055.6
45°	2095.8	2099.5	1984.8	1998.2	2205.6
47.5°	1982.4	2028.7	2111.7	2122.7	1795.7
50°	1879.9	1925.0	1666.4	1799.4	1940.9
52.5°	1751.8	1815.2	1653.0	1857.9	1751.8
55°	1638.4	1689.6	1748.2	1685.9	1798.2
57.5°	1493.2	1574.9	1496.8	1655.4	1461.5
60°	1372.4	1371.2	1467.6	1474.9	1134.5
62.5°	1227.2	1217.5	1305.3	989.4	785.6
65°	1105.3	1079.6	1093.1	710.0	631.9
67.5°	952.8	845.4	900.3	592.9	622.2
70°	812.5	807.6	552.6	411.1	579.5
72.5°	673.4	733.2	435.5	513.6	501.4
75°	541.6	605.1	345.2	418.4	325.7
77.5°	406.2	439.2	340.4	256.2	158.6
80°	294.0	207.4	217.1	145.2	145.2
82.5°	190.3	170.8	126.9	135.4	128.1
85°	119.6	104.9	113.5	119.6	117.1
87.5°	41.5	72.0	90.3	87.8	80.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)