

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-LD5-7-W-FLWG-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-7-W-FLWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

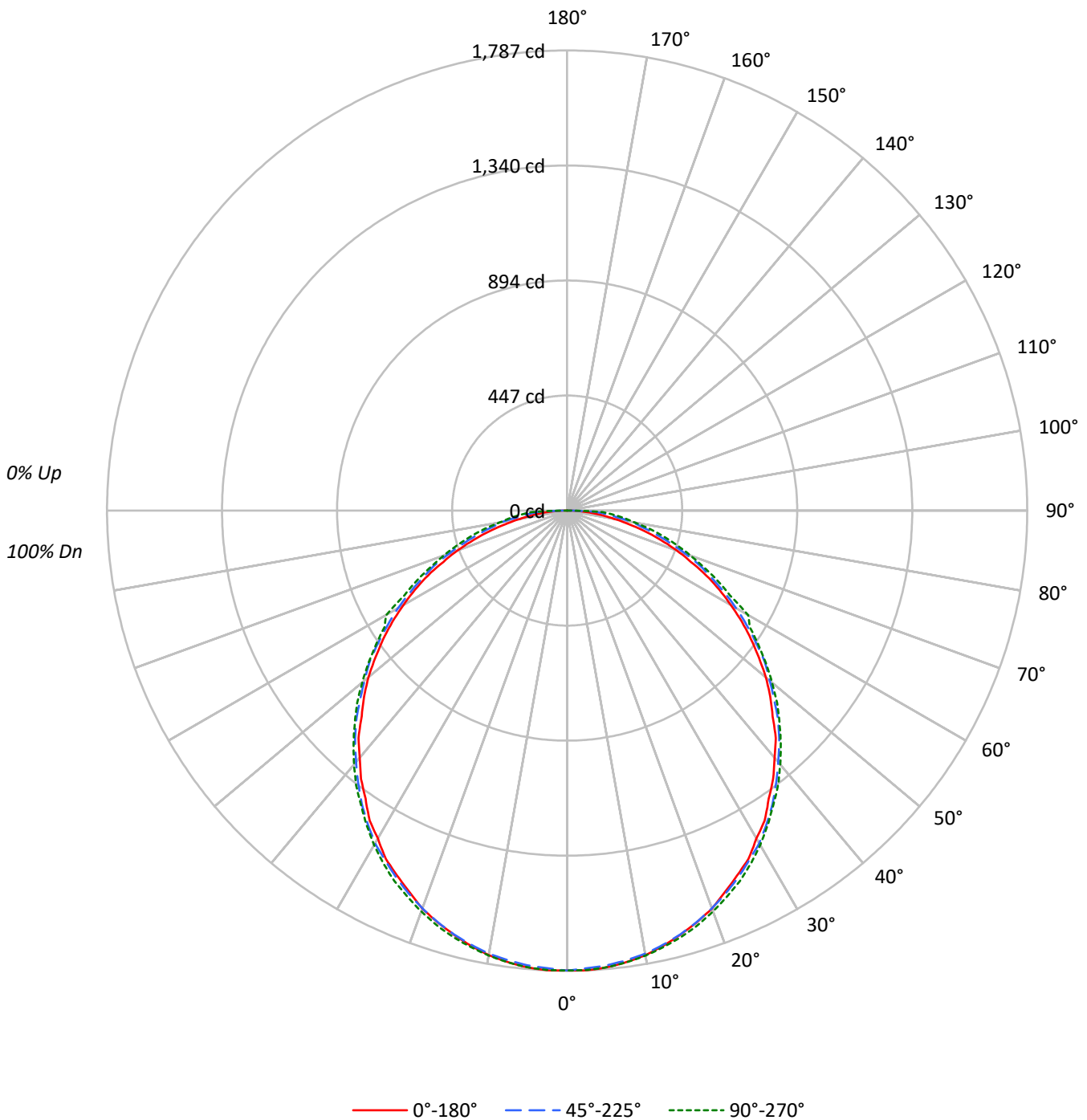
Lumens per Lamp: N/A
Luminaire Lumens: 5079.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5243	5243	5243
5°	5234	5180	5196
10°	5202	5122	5132
15°	5145	5048	5061
20°	5092	4964	4977
25°	5004	4875	4892
30°	4913	4794	4782
35°	4808	4673	4646
40°	4703	4527	4519
45°	4570	4397	4366
50°	4468	4214	4198
55°	4310	4041	4008
60°	4135	3823	4008
65°	3931	3577	3631
70°	3639	3317	3359
75°	3275	2996	3118
80°	2770	2818	2778
85°	2245	2394	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.3
10°-20°	481.7	9.5
20°-30°	725.4	14.3
30°-40°	867.5	17.1
40°-50°	890.9	17.5
50°-60°	800.1	15.8
60°-70°	615.6	12.1
70°-80°	379.4	7.5
80°-90°	149.6	2.9
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°	1375.9	27.1
0°-40°	2243.4	44.2
0°-60°	3934.3	77.5
0°-90°	5079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1780	1779	1772	1779	1780	169
15°	1704	1707	1703	1710	1714	481
25°	1563	1565	1572	1583	1587	721
35°	1365	1385	1390	1395	1395	856
45°	1128	1146	1160	1164	1166	874
55°	872	884	896	906	905	780
65°	596	602	620	641	645	588
75°	316	332	358	381	387	334
85°	86	114	148	170	176	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.0	1786.0	1786.0	1786.0	1786.0
2.5°	1787.0	1786.0	1779.2	1784.1	1786.0
5°	1780.2	1779.2	1772.4	1779.2	1780.2
7.5°	1768.5	1768.5	1761.6	1768.5	1769.4
10°	1752.9	1752.9	1747.0	1752.9	1754.8
12.5°	1730.5	1732.4	1726.6	1733.4	1735.3
15°	1704.2	1707.1	1703.2	1710.0	1713.9
17.5°	1675.9	1676.9	1674.9	1683.7	1687.6
20°	1644.7	1643.7	1643.7	1655.4	1656.4
22.5°	1602.8	1607.7	1608.7	1621.3	1622.3
25°	1562.9	1564.8	1571.6	1583.3	1587.2
27.5°	1524.9	1523.9	1530.7	1541.4	1545.3
30°	1470.3	1480.1	1491.7	1495.6	1499.5
32.5°	1427.4	1430.4	1442.1	1445.9	1448.9
35°	1365.1	1384.6	1390.4	1395.3	1395.3
37.5°	1314.4	1325.1	1332.9	1341.7	1345.6
40°	1253.0	1266.7	1275.4	1284.2	1287.1
42.5°	1199.4	1208.2	1218.9	1225.7	1227.7
45°	1128.3	1145.8	1159.5	1164.4	1166.3
47.5°	1069.8	1089.3	1091.3	1103.0	1105.9
50°	1007.5	1022.1	1027.0	1040.6	1038.7
52.5°	938.3	955.8	967.5	971.4	972.4
55°	872.1	883.7	896.4	906.2	905.2
57.5°	804.8	814.6	825.3	839.9	840.9
60°	734.7	746.4	758.1	772.7	811.6
62.5°	666.5	673.3	686.9	715.2	712.3
65°	596.3	602.2	619.7	641.1	645.0
67.5°	520.3	532.0	558.3	571.9	573.9
70°	453.1	463.8	487.2	504.7	508.6
72.5°	381.9	394.6	419.9	442.4	448.2
75°	315.7	332.3	357.6	381.0	386.8
77.5°	247.5	268.9	299.1	355.6	328.4
80°	187.1	211.4	256.3	263.1	266.0
82.5°	133.5	159.8	191.9	215.3	223.1
85°	85.7	114.0	148.1	169.5	176.4
87.5°	47.7	75.0	111.1	132.5	138.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)