

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-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-LD5-9-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**

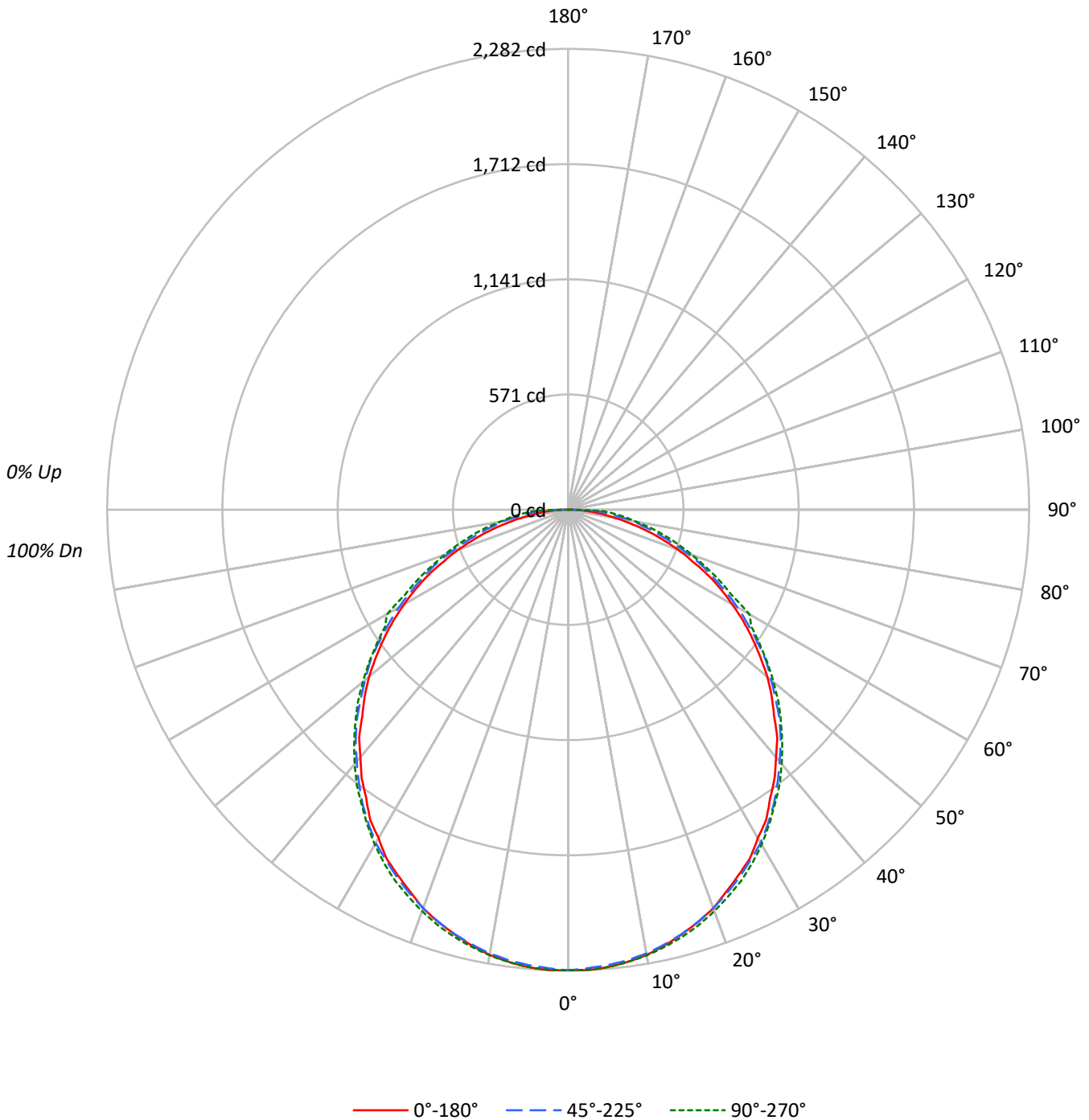
Lumens per Lamp: N/A  
Luminaire Lumens: 6486.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
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



TEST NUMBER: P#  
CATALOG NUMBER: 4ILED-LD5-9-W-FLWG-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-FLWG-UNV-L840-CD1-U

**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°	6696	6696	6696
5°	6684	6615	6636
10°	6643	6541	6554
15°	6570	6446	6463
20°	6502	6339	6356
25°	6390	6226	6248
30°	6274	6122	6106
35°	6140	5967	5932
40°	6006	5782	5771
45°	5836	5615	5575
50°	5706	5382	5361
55°	5503	5160	5119
60°	5280	4882	5118
65°	5020	4568	4637
70°	4647	4236	4289
75°	4182	3826	3982
80°	3537	3597	3548
85°	2869	3057	3376



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-FLWG-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.6	3.3
10°-20°	615.1	9.5
20°-30°	926.3	14.3
30°-40°	1107.8	17.1
40°-50°	1137.7	17.5
50°-60°	1021.7	15.8
60°-70°	786.1	12.1
70°-80°	484.5	7.5
80°-90°	191.1	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°	1757.1	27.1
0°-40°	2864.9	44.2
0°-60°	5024.2	77.5
0°-90°	6486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2273	2272	2263	2272	2273	216
15°	2176	2180	2175	2184	2189	614
25°	1996	1998	2007	2022	2027	920
35°	1743	1768	1776	1782	1782	1093
45°	1441	1463	1481	1487	1489	1116
55°	1114	1129	1145	1157	1156	996
65°	762	769	791	819	824	751
75°	403	424	457	486	494	426
85°	110	146	189	216	225	125
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-FLWG-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2280.8	2280.8	2280.8	2280.8	2280.8
2.5°	2282.0	2280.8	2272.1	2278.3	2280.8
5°	2273.3	2272.1	2263.3	2272.1	2273.3
7.5°	2258.4	2258.4	2249.7	2258.4	2259.6
10°	2238.5	2238.5	2231.0	2238.5	2240.9
12.5°	2209.8	2212.3	2204.9	2213.6	2216.1
15°	2176.2	2180.0	2175.0	2183.7	2188.7
17.5°	2140.2	2141.4	2138.9	2150.1	2155.1
20°	2100.3	2099.1	2099.1	2114.0	2115.3
22.5°	2046.8	2053.1	2054.3	2070.5	2071.7
25°	1995.8	1998.3	2007.0	2022.0	2026.9
27.5°	1947.3	1946.1	1954.8	1968.4	1973.4
30°	1877.6	1890.1	1905.0	1910.0	1914.9
32.5°	1822.9	1826.6	1841.5	1846.5	1850.2
35°	1743.2	1768.1	1775.6	1781.8	1781.8
37.5°	1678.5	1692.2	1702.2	1713.4	1718.3
40°	1600.1	1617.6	1628.8	1640.0	1643.7
42.5°	1531.7	1542.9	1556.6	1565.3	1567.8
45°	1440.9	1463.3	1480.7	1486.9	1489.4
47.5°	1366.2	1391.1	1393.6	1408.5	1412.3
50°	1286.6	1305.2	1311.5	1328.9	1326.4
52.5°	1198.2	1220.6	1235.6	1240.5	1241.8
55°	1113.6	1128.6	1144.7	1157.2	1155.9
57.5°	1027.8	1040.2	1053.9	1072.6	1073.8
60°	938.2	953.1	968.0	986.7	1036.5
62.5°	851.1	859.8	877.2	913.3	909.6
65°	761.5	769.0	791.4	818.7	823.7
67.5°	664.4	679.4	713.0	730.4	732.9
70°	578.6	592.3	622.1	644.5	649.5
72.5°	487.8	503.9	536.3	564.9	572.4
75°	403.1	424.3	456.7	486.5	494.0
77.5°	316.0	343.4	382.0	454.2	419.3
80°	238.9	270.0	327.2	336.0	339.7
82.5°	170.5	204.1	245.1	275.0	284.9
85°	109.5	145.6	189.1	216.5	225.2
87.5°	61.0	95.8	141.8	169.2	176.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)