

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-LD5-5-W-WG-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 (P34174)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-5-W-WG-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

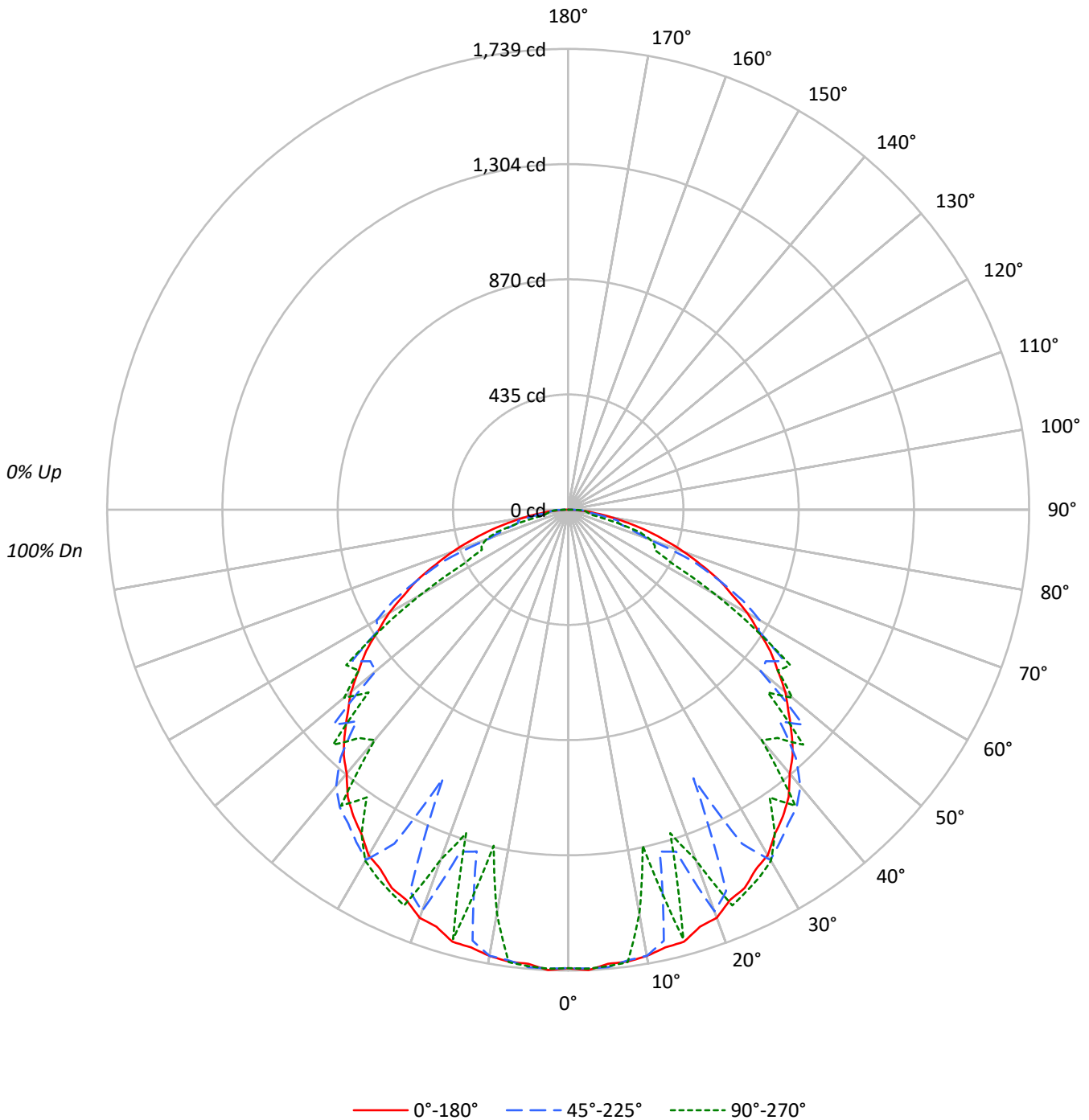
Lumens per Lamp: N/A  
Luminaire Lumens: 4757.0 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.5  
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-LD5-5-W-WG-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-WG-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	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°	5079	5079	5079
5°	5058	5064	5048
10°	5075	5011	4526
15°	5095	3958	4953
20°	5072	4870	4221
25°	5044	3469	4901
30°	5030	4902	4880
35°	4974	4860	4411
40°	4879	4834	3984
45°	4827	4280	4694
50°	4740	3888	4460
55°	4604	4481	4528
60°	4392	4208	3186
65°	4144	3588	2023
70°	3711	2139	2176
75°	3195	1645	1493
80°	2476	1358	862
85°	1781	1043	998



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-WG-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	3.4
10°-20°	437.5	9.2
20°-30°	678.5	14.3
30°-40°	869.8	18.3
40°-50°	890.8	18.7
50°-60°	844.7	17.8
60°-70°	541.0	11.4
70°-80°	262.9	5.5
80°-90°	67.9	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°	1279.9	26.9
0°-40°	2149.7	45.2
0°-60°	3885.2	81.7
0°-90°	4757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1720	1725	1733	1737	1729	164
15°	1688	1688	1335	1570	1677	474
25°	1575	1361	1118	1600	1590	724
35°	1412	1421	1446	1409	1325	882
45°	1192	1194	1129	1136	1254	918
55°	932	961	994	959	1022	828
65°	628	614	622	404	359	616
75°	308	344	196	238	185	326
85°	68	60	64	68	67	77
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-WG-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1730.0	1730.0	1730.0	1730.0	1730.0
2.5°	1739.0	1740.4	1732.8	1730.0	1733.5
5°	1720.3	1725.1	1732.8	1736.9	1729.3
7.5°	1719.6	1721.7	1715.4	1738.3	1721.7
10°	1709.9	1721.7	1709.2	1648.8	1547.6
12.5°	1691.8	1693.9	1665.5	1200.0	1298.5
15°	1687.7	1687.7	1335.3	1570.5	1677.3
17.5°	1650.2	1659.2	1353.3	1649.5	1279.8
20°	1638.4	1632.9	1612.8	1168.1	1404.7
22.5°	1594.0	1555.9	1557.3	1623.2	1616.9
25°	1575.3	1361.0	1118.2	1599.6	1589.9
27.5°	1530.9	1141.1	1420.6	1564.9	1562.8
30°	1505.2	1186.9	1525.4	1536.5	1530.2
32.5°	1451.1	1362.4	1487.2	1510.8	1450.4
35°	1412.3	1421.3	1446.3	1408.8	1324.9
37.5°	1365.8	1304.1	1415.1	1284.7	1408.1
40°	1299.9	1016.2	1361.7	1378.3	1134.8
42.5°	1253.4	994.7	1271.5	1069.6	1168.8
45°	1191.7	1193.8	1128.6	1136.2	1254.1
47.5°	1127.2	1153.6	1200.7	1207.0	1021.1
50°	1068.9	1094.6	947.5	1023.2	1103.6
52.5°	996.1	1032.2	939.9	1056.4	996.1
55°	931.6	960.7	994.0	958.6	1022.5
57.5°	849.0	895.5	851.1	941.3	831.0
60°	780.4	779.7	834.5	838.6	645.1
62.5°	697.8	692.3	742.2	562.6	446.7
65°	628.5	613.9	621.5	403.7	359.3
67.5°	541.8	480.7	511.9	337.1	353.8
70°	462.0	459.2	314.2	233.8	329.5
72.5°	382.9	416.9	247.6	292.0	285.1
75°	308.0	344.1	196.3	237.9	185.2
77.5°	231.0	249.7	193.5	145.7	90.2
80°	167.2	117.9	123.5	82.5	82.5
82.5°	108.2	97.1	72.1	77.0	72.8
85°	68.0	59.7	64.5	68.0	66.6
87.5°	23.6	40.9	51.3	49.9	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)