

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-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-LD5-7-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

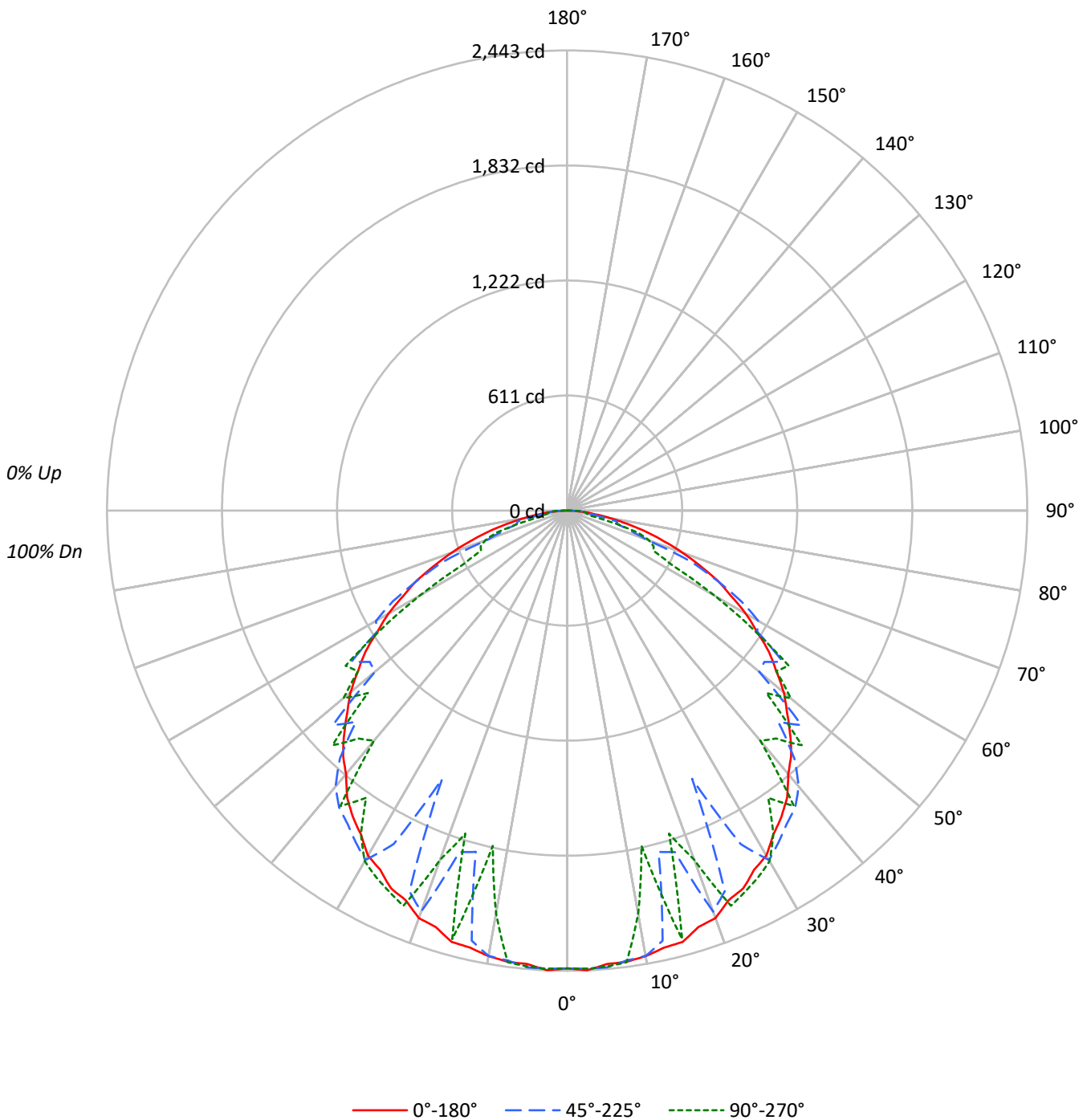
Lumens per Lamp: N/A
Luminaire Lumens: 6682.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (A_{in}): 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-LD5-7-W-WG-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-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°	7134	7134	7134
5°	7105	7114	7090
10°	7128	7039	6358
15°	7157	5559	6957
20°	7125	6841	5929
25°	7085	4872	6883
30°	7065	6886	6854
35°	6987	6827	6196
40°	6854	6790	5597
45°	6780	6012	6594
50°	6659	5462	6265
55°	6467	6294	6360
60°	6169	5911	4475
65°	5820	5039	2841
70°	5212	3006	3056
75°	4488	2310	2097
80°	3477	1906	1210
85°	2502	1464	1402



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-W-WG-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	3.4
10°-20°	614.6	9.2
20°-30°	953.0	14.3
30°-40°	1221.8	18.3
40°-50°	1251.3	18.7
50°-60°	1186.5	17.8
60°-70°	760.0	11.4
70°-80°	369.3	5.5
80°-90°	95.4	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°	1797.8	26.9
0°-40°	3019.6	45.2
0°-60°	5457.4	81.7
0°-90°	6682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2416	2423	2434	2440	2429	231
15°	2371	2371	1876	2206	2356	666
25°	2213	1912	1571	2247	2233	1017
35°	1984	1996	2032	1979	1861	1239
45°	1674	1677	1585	1596	1762	1290
55°	1309	1350	1396	1347	1436	1163
65°	883	862	873	567	505	865
75°	433	483	276	334	260	458
85°	96	84	91	96	94	108
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-W-WG-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2430.1	2430.1	2430.1	2430.1	2430.1
2.5°	2442.7	2444.7	2434.0	2430.1	2434.9
5°	2416.4	2423.2	2434.0	2439.8	2429.1
7.5°	2415.5	2418.4	2409.6	2441.8	2418.4
10°	2401.8	2418.4	2400.8	2316.1	2173.8
12.5°	2376.5	2379.4	2339.5	1685.7	1824.0
15°	2370.6	2370.6	1875.7	2206.0	2356.0
17.5°	2318.0	2330.7	1901.0	2317.0	1797.7
20°	2301.5	2293.7	2265.4	1640.8	1973.1
22.5°	2239.1	2185.5	2187.4	2280.0	2271.2
25°	2212.8	1911.7	1570.7	2246.9	2233.2
27.5°	2150.4	1602.8	1995.5	2198.2	2195.2
30°	2114.4	1667.1	2142.6	2158.2	2149.4
32.5°	2038.4	1913.7	2089.0	2122.2	2037.4
35°	1983.8	1996.5	2031.6	1978.9	1861.0
37.5°	1918.5	1831.8	1987.7	1804.5	1978.0
40°	1826.0	1427.4	1912.7	1936.1	1594.1
42.5°	1760.7	1397.2	1786.0	1502.5	1641.8
45°	1674.0	1676.9	1585.3	1596.0	1761.7
47.5°	1583.3	1620.4	1686.6	1695.4	1434.3
50°	1501.5	1537.5	1331.0	1437.2	1550.2
52.5°	1399.2	1449.9	1320.3	1484.0	1399.2
55°	1308.6	1349.5	1396.3	1346.6	1436.2
57.5°	1192.6	1257.9	1195.5	1322.2	1167.3
60°	1096.2	1095.2	1172.2	1178.0	906.2
62.5°	980.2	972.4	1042.6	790.2	627.5
65°	882.8	862.3	873.0	567.1	504.7
67.5°	761.0	675.2	719.1	473.5	496.9
70°	648.9	645.0	441.4	328.4	462.8
72.5°	537.8	585.6	347.8	410.2	400.5
75°	432.6	483.3	275.7	334.2	260.2
77.5°	324.5	350.8	271.8	204.6	126.7
80°	234.8	165.6	173.4	115.9	115.9
82.5°	152.0	136.4	101.3	108.2	102.3
85°	95.5	83.8	90.6	95.5	93.5
87.5°	33.1	57.5	72.1	70.2	64.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)