

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-FL-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 (P34181)
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-FL-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

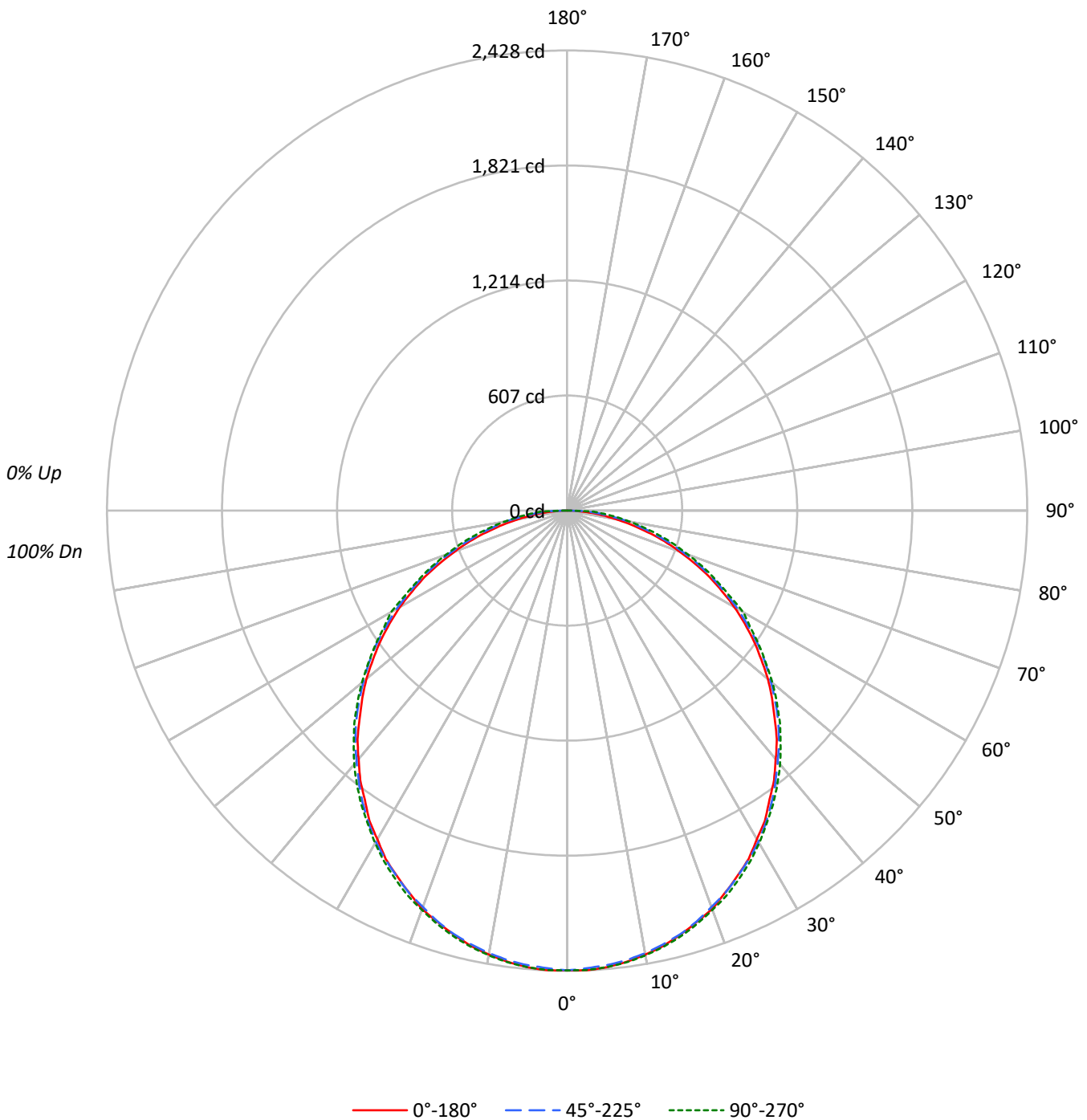
Lumens per Lamp: N/A
Luminaire Lumens: 6870.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V):
Input Current (A_{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-LD5-9-W-FL-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-FL-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	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
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	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	7123	7123	7123
5°	7112	7036	7057
10°	7060	6953	6969
15°	6990	6856	6863
20°	6926	6722	6737
25°	6808	6604	6612
30°	6690	6486	6464
35°	6556	6322	6305
40°	6426	6135	6138
45°	6269	5969	5943
50°	6131	5754	5718
55°	5952	5536	5471
60°	5734	5246	5303
65°	5463	4913	4868
70°	5057	4482	4478
75°	4556	4003	4042
80°	3906	3556	3496
85°	3096	2635	2910



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	3.3
10°-20°	653.7	9.5
20°-30°	983.6	14.3
30°-40°	1176.8	17.1
40°-50°	1212.7	17.7
50°-60°	1093.3	15.9
60°-70°	839.8	12.2
70°-80°	505.6	7.4
80°-90°	175.3	2.6
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°	1866.6	27.2
0°-40°	3043.4	44.3
0°-60°	5349.4	77.9
0°-90°	6870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2426	2426	2426	2426	2426	
5°	2419	2416	2408	2416	2418	230
15°	2316	2318	2313	2323	2324	653
25°	2126	2128	2129	2141	2145	981
35°	1861	1880	1881	1892	1894	1167
45°	1548	1562	1574	1586	1588	1196
55°	1204	1214	1228	1236	1236	1075
65°	829	831	851	861	865	817
75°	439	452	478	495	501	466
85°	118	137	163	185	194	133
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2426.3	2426.3	2426.3	2426.3	2426.3
2.5°	2427.5	2426.3	2416.3	2423.8	2426.3
5°	2418.8	2416.3	2407.6	2416.3	2417.6
7.5°	2401.4	2400.2	2392.7	2401.4	2403.9
10°	2379.0	2379.0	2371.5	2380.2	2382.7
12.5°	2351.6	2350.4	2344.2	2354.1	2356.6
15°	2315.5	2318.0	2313.1	2323.0	2324.3
17.5°	2275.7	2277.0	2273.2	2282.0	2285.7
20°	2237.2	2230.9	2226.0	2240.9	2242.1
22.5°	2181.2	2183.7	2182.4	2196.1	2198.6
25°	2126.4	2127.7	2128.9	2141.4	2145.1
27.5°	2072.9	2071.7	2075.4	2085.4	2089.1
30°	2002.0	2011.9	2018.2	2025.6	2026.9
32.5°	1941.0	1944.8	1952.2	1957.2	1958.4
35°	1861.4	1880.1	1881.3	1892.5	1893.7
37.5°	1793.0	1799.2	1805.4	1819.1	1821.6
40°	1712.1	1720.8	1728.3	1740.7	1748.2
42.5°	1637.4	1647.4	1654.9	1666.0	1667.3
45°	1547.8	1561.5	1574.0	1586.4	1587.7
47.5°	1465.7	1479.4	1489.4	1499.3	1500.6
50°	1382.4	1393.6	1402.3	1414.7	1414.7
52.5°	1290.3	1304.0	1317.7	1322.6	1322.6
55°	1204.4	1214.4	1228.1	1235.5	1235.5
57.5°	1111.1	1116.1	1131.0	1144.7	1144.7
60°	1019.0	1025.3	1040.2	1050.1	1073.8
62.5°	920.7	930.7	940.7	973.0	959.3
65°	828.7	831.2	851.1	861.0	864.8
67.5°	726.6	735.4	755.3	766.5	773.9
70°	629.6	640.8	658.2	671.9	678.1
72.5°	537.5	542.5	564.9	583.6	592.3
75°	439.2	451.7	477.8	495.2	501.4
77.5°	345.9	365.8	390.7	451.7	416.8
80°	263.8	278.7	323.5	326.0	334.7
82.5°	184.1	201.6	231.4	251.3	261.3
85°	118.2	136.9	163.0	185.4	194.1
87.5°	54.7	74.7	108.2	133.1	140.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)