

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-FL-UNV-L835-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-LD5-7-W-FL-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

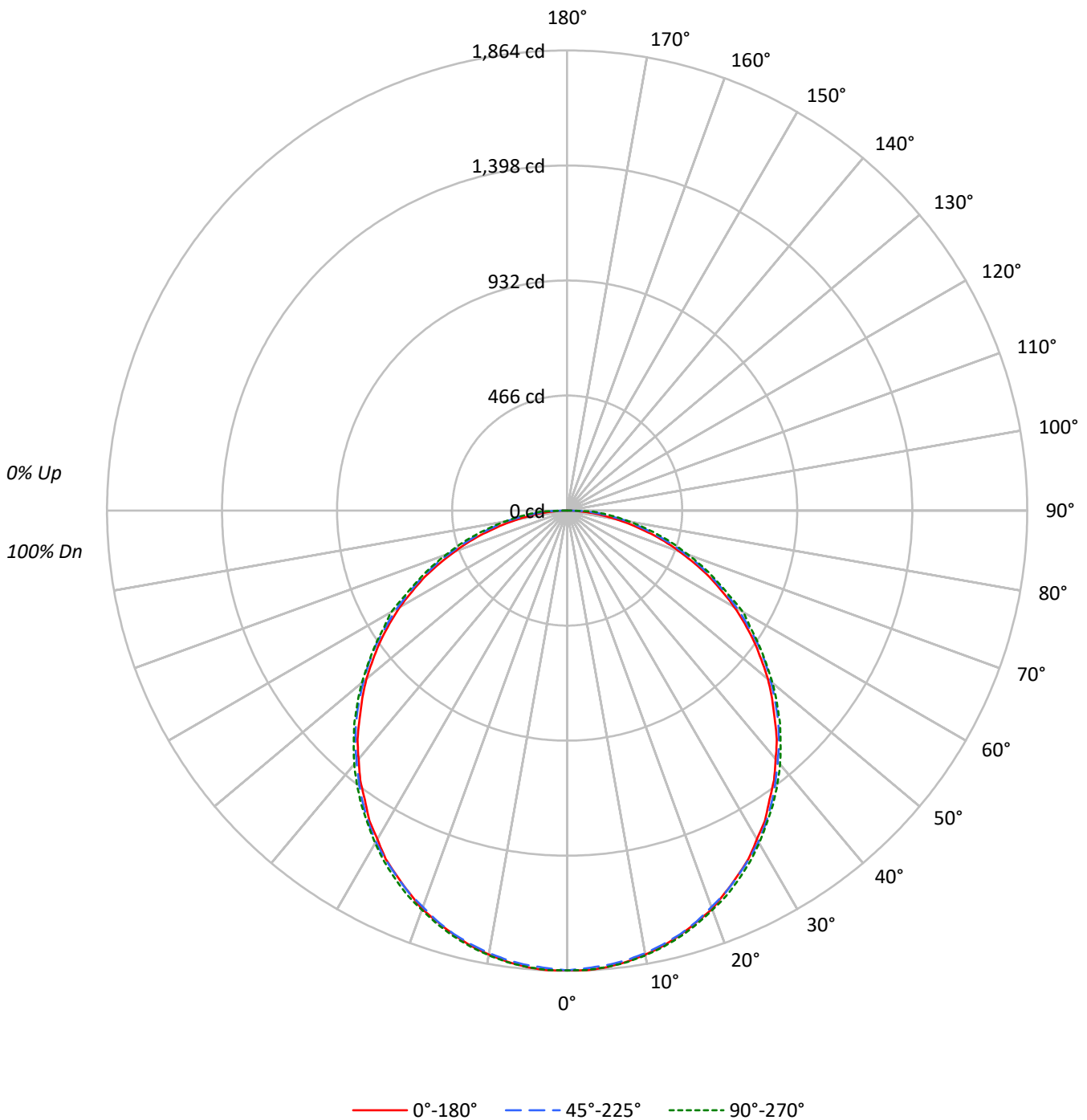
Lumens per Lamp: N/A
Luminaire Lumens: 5274.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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-FL-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-W-FL-UNV-L835-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	47	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°	5468	5468	5468
5°	5460	5402	5417
10°	5420	5338	5350
15°	5366	5263	5269
20°	5317	5160	5172
25°	5227	5070	5076
30°	5136	4979	4962
35°	5033	4853	4840
40°	4933	4710	4711
45°	4813	4582	4562
50°	4706	4417	4390
55°	4569	4250	4200
60°	4402	4027	4071
65°	4194	3772	3737
70°	3882	3441	3438
75°	3498	3073	3103
80°	2998	2730	2683
85°	2376	2022	2234



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-W-FL-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	3.3
10°-20°	501.8	9.5
20°-30°	755.1	14.3
30°-40°	903.4	17.1
40°-50°	931.0	17.7
50°-60°	839.3	15.9
60°-70°	644.7	12.2
70°-80°	388.1	7.4
80°-90°	134.6	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°	1433.0	27.2
0°-40°	2336.4	44.3
0°-60°	4106.7	77.9
0°-90°	5274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1857	1855	1848	1855	1856	176
15°	1778	1780	1776	1783	1784	502
25°	1632	1633	1634	1644	1647	753
35°	1429	1443	1444	1453	1454	896
45°	1188	1199	1208	1218	1219	919
55°	925	932	943	948	948	825
65°	636	638	653	661	664	627
75°	337	347	367	380	385	358
85°	91	105	125	142	149	102
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-W-FL-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.6	1862.6	1862.6	1862.6	1862.6
2.5°	1863.6	1862.6	1855.0	1860.7	1862.6
5°	1856.9	1855.0	1848.3	1855.0	1855.9
7.5°	1843.5	1842.6	1836.8	1843.5	1845.4
10°	1826.3	1826.3	1820.6	1827.3	1829.2
12.5°	1805.3	1804.4	1799.6	1807.2	1809.1
15°	1777.6	1779.5	1775.7	1783.3	1784.3
17.5°	1747.0	1748.0	1745.1	1751.8	1754.7
20°	1717.4	1712.7	1708.8	1720.3	1721.3
22.5°	1674.5	1676.4	1675.4	1685.9	1687.8
25°	1632.4	1633.4	1634.3	1643.9	1646.8
27.5°	1591.3	1590.4	1593.3	1600.9	1603.8
30°	1536.9	1544.5	1549.3	1555.1	1556.0
32.5°	1490.1	1493.0	1498.7	1502.5	1503.5
35°	1429.0	1443.3	1444.2	1452.8	1453.8
37.5°	1376.4	1381.2	1386.0	1396.5	1398.4
40°	1314.3	1321.0	1326.8	1336.3	1342.0
42.5°	1257.0	1264.7	1270.4	1279.0	1280.0
45°	1188.3	1198.8	1208.3	1217.9	1218.8
47.5°	1125.2	1135.7	1143.4	1151.0	1152.0
50°	1061.2	1069.8	1076.5	1086.1	1086.1
52.5°	990.5	1001.0	1011.5	1015.4	1015.4
55°	924.6	932.3	942.8	948.5	948.5
57.5°	853.0	856.8	868.3	878.8	878.8
60°	782.3	787.1	798.5	806.2	824.3
62.5°	706.8	714.5	722.1	747.0	736.5
65°	636.2	638.1	653.4	661.0	663.9
67.5°	557.8	564.5	579.8	588.4	594.1
70°	483.3	491.9	505.3	515.8	520.6
72.5°	412.6	416.5	433.7	448.0	454.7
75°	337.2	346.7	366.8	380.2	384.9
77.5°	265.5	280.8	299.9	346.7	320.0
80°	202.5	214.0	248.3	250.3	256.9
82.5°	141.4	154.7	177.7	192.9	200.6
85°	90.7	105.1	125.1	142.3	149.0
87.5°	42.0	57.3	83.1	102.2	107.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)