

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-TWBWG-UNV-L850-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 (P34176)
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-TWBWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

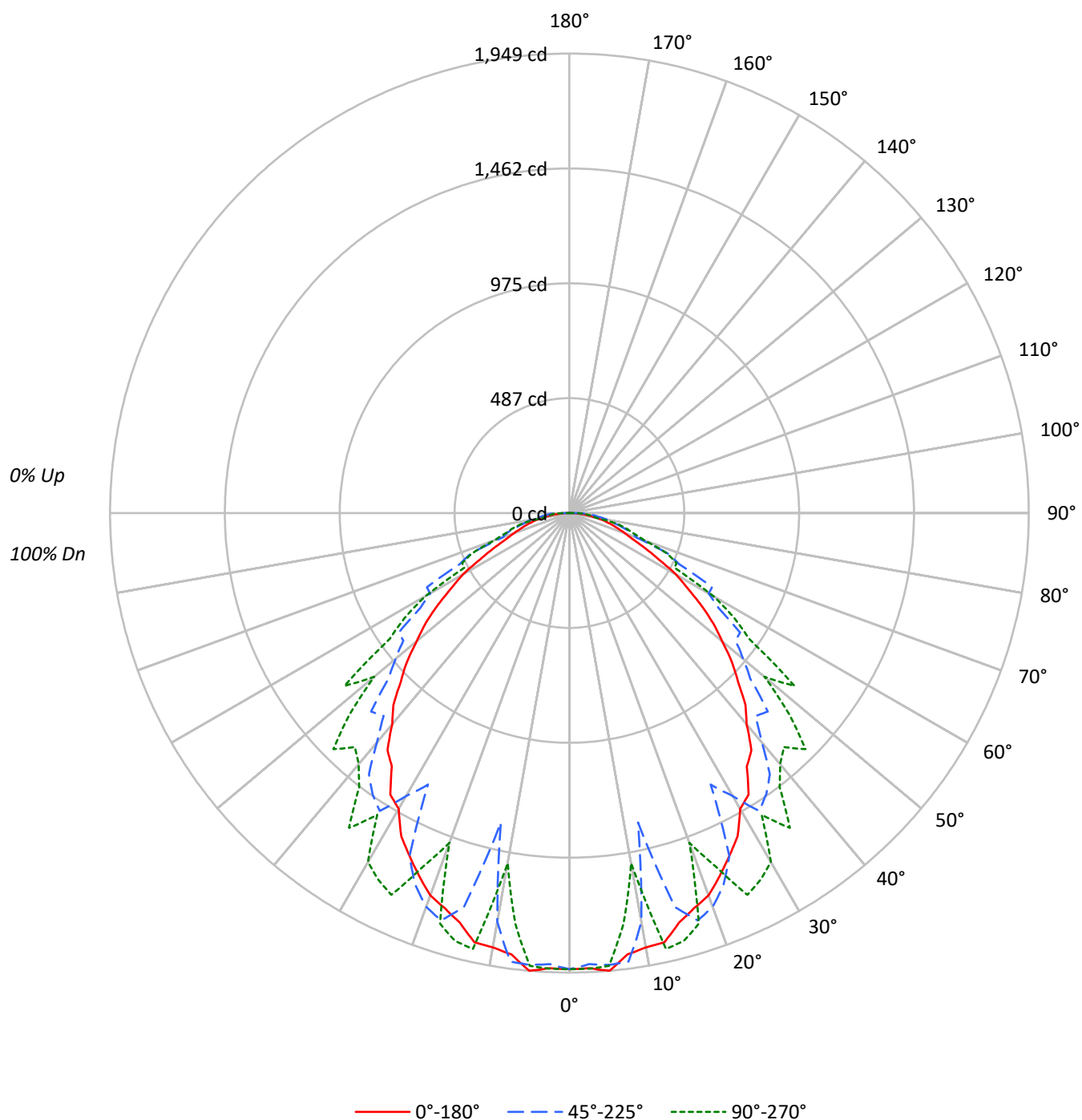
Input Watts (W): 33.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-TWBWG-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-TWBWG-UNV-L850-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53		
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46		
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5680	5680	5680
5°	5731	5622	5628
10°	5551	5162	4410
15°	5429	5127	5547
20°	5342	5367	4470
25°	5138	4980	5508
30°	4841	4453	5450
35°	4624	4891	5428
40°	4390	4509	4880
45°	4099	4515	5302
50°	3753	3949	4369
55°	3370	3983	4120
60°	2943	3439	3482
65°	2349	2962	2825
70°	2006	2054	2244
75°	1883	1961	1996
80°	1700	1830	1183
85°	1493	1625	1124



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-TWBWG-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	3.8
10°-20°	495.1	10.5
20°-30°	715.7	15.2
30°-40°	896.4	19.1
40°-50°	872.5	18.6
50°-60°	746.9	15.9
60°-70°	463.3	9.9
70°-80°	241.1	5.1
80°-90°	93.7	2.0
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°	1387.2	29.5
0°-40°	2283.5	48.6
0°-60°	3902.9	83.0
0°-90°	4701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1949	1943	1924	1916	1928	182
15°	1798	1805	1730	1888	1878	509
25°	1605	1330	1605	1650	1787	737
35°	1313	1368	1455	1443	1630	830
45°	1012	908	1191	1218	1416	783
55°	682	746	884	1055	930	610
65°	356	400	513	434	502	362
75°	182	211	234	251	248	192
85°	57	76	100	116	75	61
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-TWBWG-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.8	1934.8	1934.8	1934.8	1934.8
2.5°	1932.5	1924.3	1915.3	1931.0	1934.0
5°	1949.0	1943.0	1923.5	1916.0	1928.0
7.5°	1888.3	1901.0	1919.0	1821.5	1758.5
10°	1870.3	1863.5	1760.7	1355.6	1507.9
12.5°	1864.3	1856.0	1344.4	1884.5	1893.5
15°	1798.2	1805.0	1730.0	1888.3	1878.5
17.5°	1757.7	1664.7	1811.7	1843.2	1826.0
20°	1725.5	1450.9	1777.2	1693.2	1487.7
22.5°	1666.2	1237.1	1708.2	1358.6	1622.7
25°	1604.7	1330.1	1605.4	1650.4	1787.0
27.5°	1545.4	1507.2	1298.6	1722.5	1754.7
30°	1448.6	1494.4	1385.6	1686.5	1709.0
32.5°	1414.9	1426.9	1498.2	1592.7	1517.7
35°	1312.9	1368.4	1455.4	1443.4	1630.2
37.5°	1267.8	1283.6	1396.9	1519.9	1464.4
40°	1169.6	1193.6	1270.1	1342.9	1390.1
42.5°	1105.8	1025.5	1167.3	1301.6	1346.6
45°	1012.0	908.5	1190.6	1217.6	1416.4
47.5°	935.5	902.5	1042.0	1267.1	1267.1
50°	846.2	889.7	962.5	1132.1	1081.0
52.5°	769.7	829.0	888.2	984.3	1204.1
55°	681.9	746.5	883.7	1054.8	930.3
57.5°	595.7	650.4	750.2	808.0	829.7
60°	522.9	576.2	681.9	726.2	705.2
62.5°	429.1	496.6	681.9	572.4	501.9
65°	356.3	399.9	513.1	434.4	501.9
67.5°	292.6	337.6	456.1	419.4	447.1
70°	249.8	282.1	301.6	375.1	339.8
72.5°	213.8	237.1	276.1	283.6	282.1
75°	181.5	210.8	234.1	251.3	247.6
77.5°	150.8	192.1	192.8	231.1	201.1
80°	114.8	131.3	166.5	150.8	113.3
82.5°	84.0	102.8	126.8	130.5	99.8
85°	57.0	75.8	100.5	115.5	75.0
87.5°	26.3	51.8	81.8	103.5	68.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)