

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-TWB-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 (P34175)
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-TWB-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

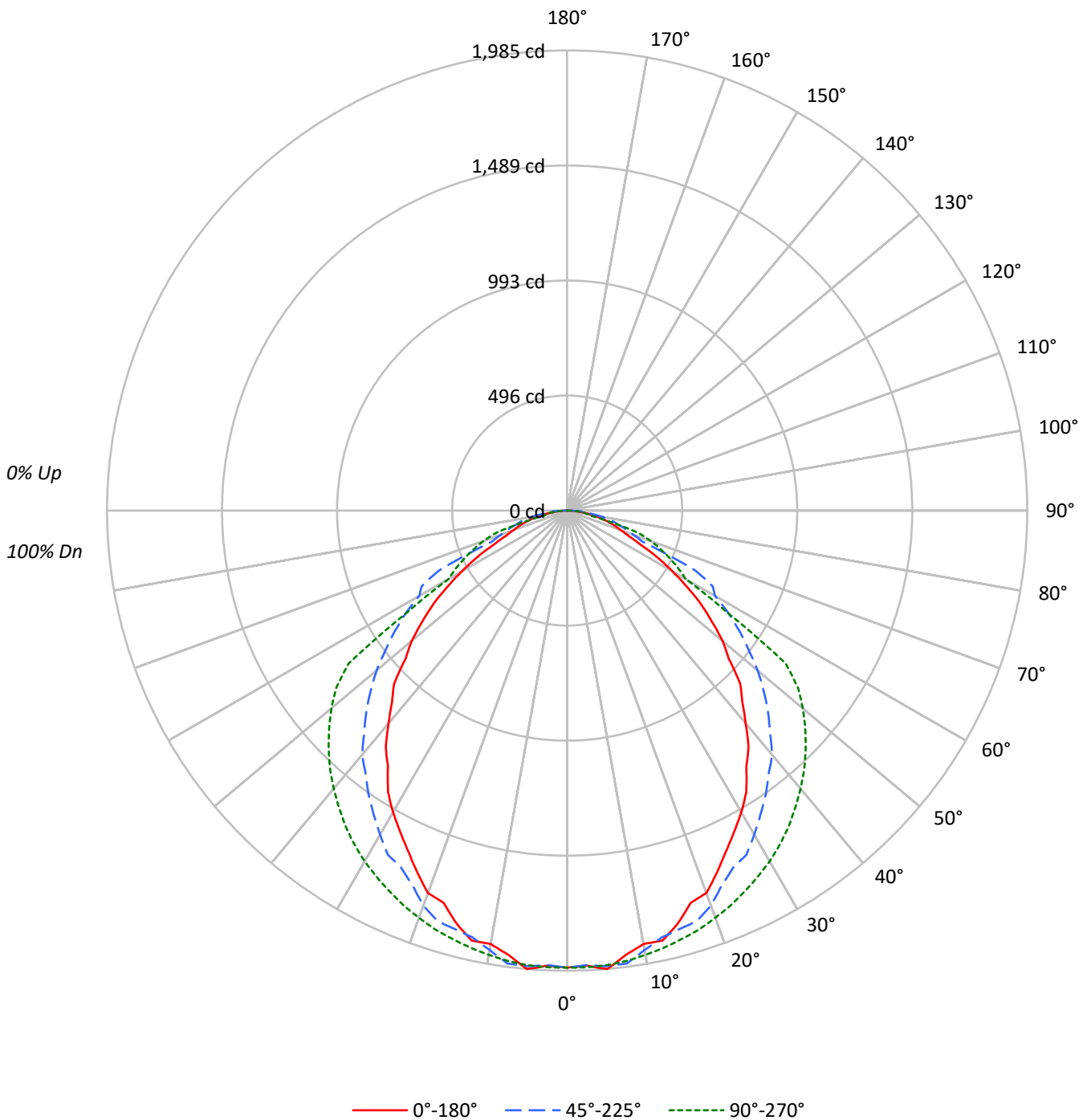
Lumens per Lamp: N/A
Luminaire Lumens: 4971.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
Input Current (A_{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-LD5-5-W-TWB-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-TWB-UNV-L850-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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5787	5787	5787
5°	5838	5765	5745
10°	5634	5643	5693
15°	5568	5540	5648
20°	5436	5477	5616
25°	5192	5265	5588
30°	5020	5187	5570
35°	4746	5021	5543
40°	4498	4882	5500
45°	4276	4646	5446
50°	3887	4403	5365
55°	3489	4093	5094
60°	2956	3712	2913
65°	2320	3521	2754
70°	1971	2069	2532
75°	1860	1873	1597
80°	1667	1641	940
85°	1257	1212	799



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	3.8
10°-20°	530.2	10.7
20°-30°	791.3	15.9
30°-40°	942.0	18.9
40°-50°	952.4	19.2
50°-60°	802.4	16.1
60°-70°	463.7	9.3
70°-80°	228.9	4.6
80°-90°	73.4	1.5
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°	1508.2	30.3
0°-40°	2450.2	49.3
0°-60°	4205.0	84.6
0°-90°	4971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1985	1990	1973	1963	1968	186
15°	1844	1873	1869	1919	1913	518
25°	1622	1652	1697	1780	1813	749
35°	1348	1402	1494	1621	1665	848
45°	1056	1088	1225	1372	1455	801
55°	706	762	908	1083	1150	627
65°	352	429	610	458	489	362
75°	179	221	224	246	198	188
85°	48	59	75	89	53	55
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1965.2	1967.4	1962.9	1974.2	1971.9
5°	1985.4	1989.9	1972.7	1962.9	1968.2
7.5°	1933.7	1943.4	1970.4	1957.7	1959.2
10°	1898.4	1899.9	1924.7	1964.4	1946.4
12.5°	1899.9	1896.9	1885.6	1953.9	1930.7
15°	1844.4	1872.9	1869.1	1919.4	1912.7
17.5°	1773.1	1800.9	1857.1	1884.9	1894.7
20°	1755.8	1746.1	1813.6	1840.6	1869.1
22.5°	1689.1	1728.1	1746.8	1806.9	1843.6
25°	1621.5	1651.5	1697.3	1779.8	1812.9
27.5°	1560.7	1593.0	1674.0	1754.3	1780.6
30°	1502.2	1532.2	1614.0	1722.1	1746.8
32.5°	1438.4	1476.0	1553.2	1683.1	1707.8
35°	1347.6	1402.4	1494.0	1620.8	1665.0
37.5°	1285.4	1321.4	1428.7	1554.7	1616.3
40°	1198.3	1256.1	1375.4	1503.7	1566.7
42.5°	1118.0	1175.1	1295.1	1439.9	1513.5
45°	1055.8	1088.0	1225.3	1372.4	1454.9
47.5°	944.7	1026.5	1149.5	1300.4	1392.7
50°	876.4	932.7	1073.0	1231.3	1327.4
52.5°	787.9	850.9	986.7	1154.8	1254.6
55°	706.1	761.6	907.9	1082.8	1150.3
57.5°	613.0	684.3	826.1	1001.0	820.9
60°	525.2	596.5	736.1	676.1	589.8
62.5°	441.2	504.2	708.3	508.7	541.0
65°	351.9	429.2	610.0	458.5	489.2
67.5°	288.9	342.9	351.9	410.4	437.5
70°	245.4	271.6	303.9	363.9	383.4
72.5°	213.1	224.4	264.1	323.4	326.4
75°	179.3	220.6	223.6	246.1	198.1
77.5°	143.3	177.8	193.6	143.3	101.3
80°	112.6	120.8	149.3	126.1	90.0
82.5°	78.0	89.3	103.5	108.8	74.3
85°	48.0	59.3	75.0	89.3	53.3
87.5°	20.3	32.3	51.8	69.0	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)