

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-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 (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-L850-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

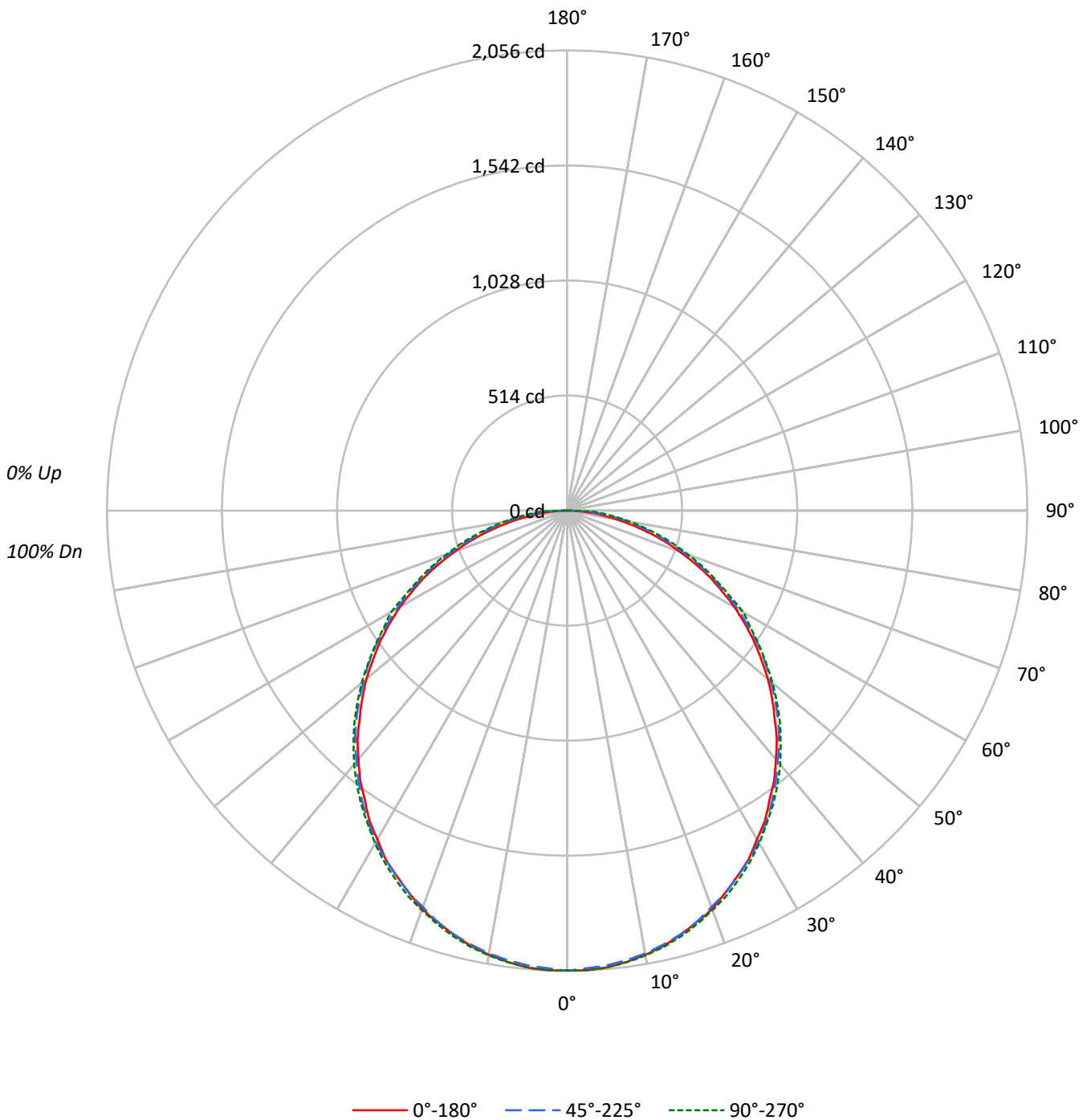
Lumens per Lamp: N/A
Luminaire Lumens: 5819.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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°	6033	6033	6033
5°	6024	5960	5977
10°	5980	5889	5903
15°	5921	5807	5813
20°	5866	5694	5706
25°	5767	5593	5600
30°	5666	5494	5475
35°	5553	5355	5340
40°	5443	5196	5198
45°	5310	5056	5034
50°	5193	4874	4843
55°	5041	4689	4634
60°	4857	4443	4491
65°	4627	4161	4123
70°	4283	3796	3793
75°	3859	3390	3423
80°	3308	3012	2961
85°	2622	2232	2464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	3.3
10°-20°	553.7	9.5
20°-30°	833.1	14.3
30°-40°	996.7	17.1
40°-50°	1027.2	17.7
50°-60°	926.1	15.9
60°-70°	711.3	12.2
70°-80°	428.2	7.4
80°-90°	148.5	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°	1581.1	27.2
0°-40°	2577.8	44.3
0°-60°	4531.0	77.9
0°-90°	5819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2055	2055	2055	2055	2055	
5°	2049	2047	2039	2047	2048	194
15°	1961	1963	1959	1968	1969	554
25°	1801	1802	1803	1814	1817	831
35°	1577	1592	1594	1603	1604	988
45°	1311	1323	1333	1344	1345	1013
55°	1020	1029	1040	1046	1046	911
65°	702	704	721	729	732	692
75°	372	383	405	420	425	395
85°	100	116	138	157	164	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2055.1	2055.1	2055.1	2055.1	2055.1
2.5°	2056.2	2055.1	2046.7	2053.0	2055.1
5°	2048.8	2046.7	2039.3	2046.7	2047.7
7.5°	2034.0	2033.0	2026.6	2034.0	2036.1
10°	2015.1	2015.1	2008.7	2016.1	2018.2
12.5°	1991.9	1990.8	1985.5	1994.0	1996.1
15°	1961.3	1963.4	1959.2	1967.6	1968.7
17.5°	1927.6	1928.6	1925.5	1932.8	1936.0
20°	1894.9	1889.6	1885.4	1898.1	1899.1
22.5°	1847.5	1849.6	1848.5	1860.1	1862.2
25°	1801.1	1802.2	1803.2	1813.8	1816.9
27.5°	1755.8	1754.7	1757.9	1766.3	1769.5
30°	1695.7	1704.2	1709.4	1715.7	1716.8
32.5°	1644.1	1647.2	1653.6	1657.8	1658.8
35°	1576.6	1592.4	1593.5	1603.0	1604.0
37.5°	1518.7	1523.9	1529.2	1540.8	1542.9
40°	1450.2	1457.5	1463.9	1474.4	1480.7
42.5°	1386.9	1395.4	1401.7	1411.2	1412.2
45°	1311.0	1322.6	1333.2	1343.7	1344.8
47.5°	1241.5	1253.1	1261.5	1269.9	1271.0
50°	1170.9	1180.4	1187.7	1198.3	1198.3
52.5°	1092.9	1104.5	1116.1	1120.3	1120.3
55°	1020.2	1028.6	1040.2	1046.5	1046.5
57.5°	941.1	945.3	958.0	969.6	969.6
60°	863.1	868.4	881.1	889.5	909.5
62.5°	779.9	788.3	796.7	824.1	812.6
65°	701.9	704.0	720.9	729.3	732.5
67.5°	615.5	622.9	639.7	649.2	655.5
70°	533.3	542.8	557.5	569.1	574.4
72.5°	455.3	459.5	478.5	494.3	501.7
75°	372.0	382.6	404.7	419.5	424.7
77.5°	293.0	309.8	330.9	382.6	353.1
80°	223.4	236.1	274.0	276.1	283.5
82.5°	156.0	170.7	196.0	212.9	221.3
85°	100.1	115.9	138.1	157.0	164.4
87.5°	46.4	63.2	91.7	112.8	119.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)