

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: **8ILED-LD5-10-W-FLWG-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-FLWG-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

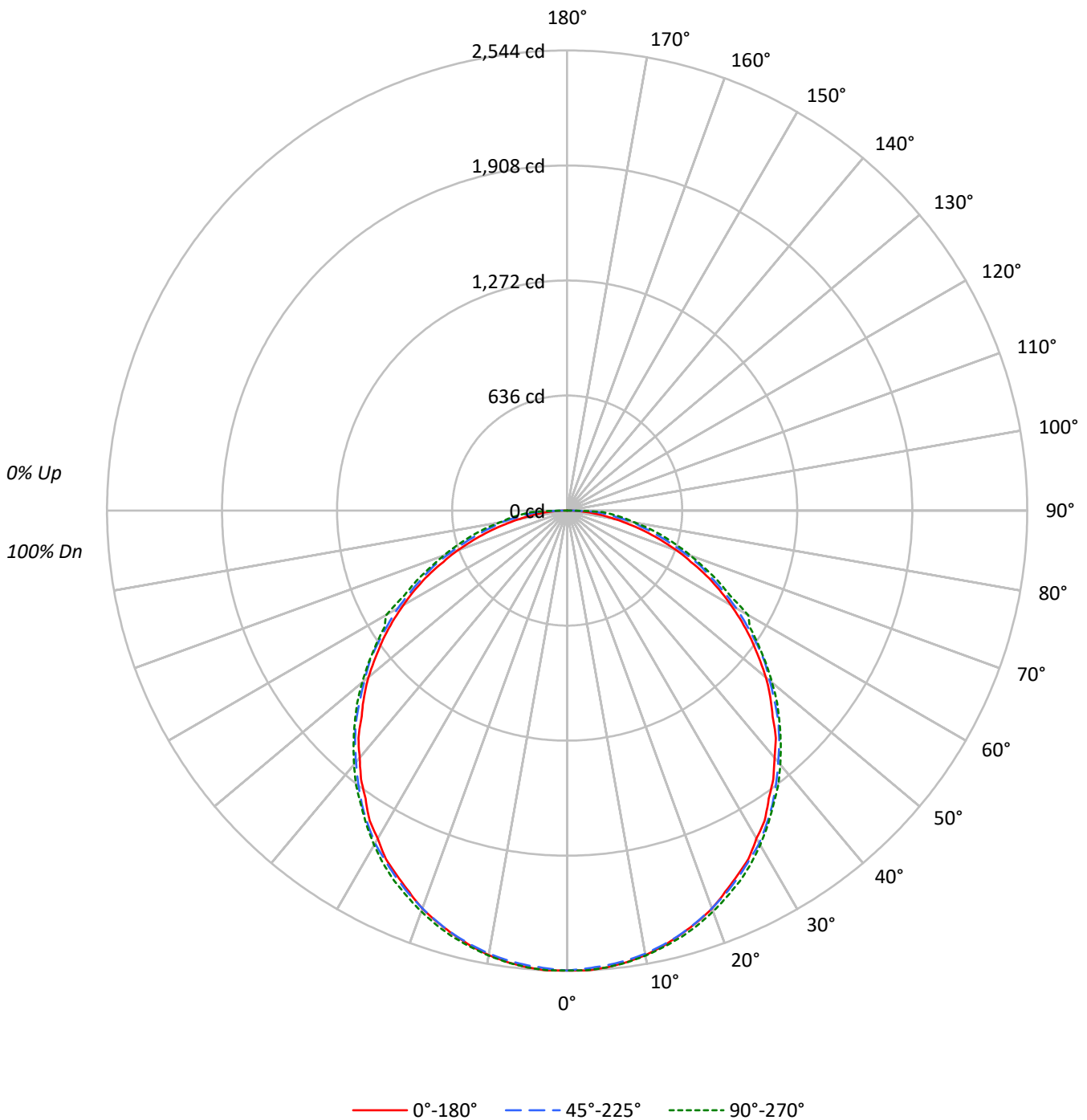
Lumens per Lamp: N/A
Luminaire Lumens: 7232.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
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	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	3733	3733	3733
5°	3731	3691	3699
10°	3712	3652	3654
15°	3675	3602	3603
20°	3641	3545	3543
25°	3583	3485	3483
30°	3523	3430	3404
35°	3453	3346	3307
40°	3383	3246	3217
45°	3294	3156	3108
50°	3228	3029	2989
55°	3122	2909	2854
60°	3006	2758	2854
65°	2872	2588	2585
70°	2677	2408	2391
75°	2436	2186	2220
80°	2103	2073	1978
85°	1799	1791	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	3.3
10°-20°	685.9	9.5
20°-30°	1032.9	14.3
30°-40°	1235.2	17.1
40°-50°	1268.5	17.5
50°-60°	1139.2	15.8
60°-70°	876.6	12.1
70°-80°	540.3	7.5
80°-90°	213.1	2.9
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°	1959.2	27.1
0°-40°	3194.4	44.2
0°-60°	5602.1	77.5
0°-90°	7232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2535	2533	2524	2533	2535	241
15°	2426	2431	2425	2435	2440	685
25°	2225	2228	2238	2254	2260	1026
35°	1944	1972	1980	1987	1987	1219
45°	1607	1632	1651	1658	1661	1244
55°	1242	1258	1276	1290	1289	1110
65°	849	857	882	913	918	837
75°	450	473	509	542	551	475
85°	122	162	211	241	251	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2543.1	2543.1	2543.1	2543.1	2543.1
2.5°	2544.5	2543.1	2533.4	2540.3	2543.1
5°	2534.8	2533.4	2523.7	2533.4	2534.8
7.5°	2518.1	2518.1	2508.4	2518.1	2519.5
10°	2495.9	2495.9	2487.6	2495.9	2498.7
12.5°	2464.0	2466.8	2458.5	2468.2	2470.9
15°	2426.5	2430.7	2425.2	2434.9	2440.4
17.5°	2386.3	2387.7	2384.9	2397.4	2403.0
20°	2341.9	2340.5	2340.5	2357.2	2358.6
22.5°	2282.3	2289.2	2290.6	2308.6	2310.0
25°	2225.4	2228.2	2237.9	2254.5	2260.1
27.5°	2171.3	2169.9	2179.6	2194.9	2200.4
30°	2093.6	2107.4	2124.1	2129.6	2135.2
32.5°	2032.5	2036.7	2053.3	2058.9	2063.1
35°	1943.7	1971.5	1979.8	1986.7	1986.7
37.5°	1871.6	1886.9	1898.0	1910.4	1916.0
40°	1784.2	1803.6	1816.1	1828.6	1832.7
42.5°	1707.9	1720.4	1735.6	1745.3	1748.1
45°	1606.6	1631.6	1651.0	1657.9	1660.7
47.5°	1523.4	1551.1	1553.9	1570.5	1574.7
50°	1434.6	1455.4	1462.3	1481.7	1479.0
52.5°	1336.1	1361.0	1377.7	1383.2	1384.6
55°	1241.7	1258.4	1276.4	1290.3	1288.9
57.5°	1146.0	1159.9	1175.1	1195.9	1197.3
60°	1046.1	1062.7	1079.4	1100.2	1155.7
62.5°	949.0	958.7	978.1	1018.3	1014.2
65°	849.1	857.4	882.4	912.9	918.5
67.5°	740.9	757.5	795.0	814.4	817.2
70°	645.1	660.4	693.7	718.7	724.2
72.5°	543.9	561.9	598.0	629.9	638.2
75°	449.5	473.1	509.2	542.5	550.8
77.5°	352.4	382.9	425.9	506.4	467.6
80°	266.4	301.1	364.9	374.6	378.8
82.5°	190.1	227.5	273.3	306.6	317.7
85°	122.1	162.3	210.9	241.4	251.1
87.5°	68.0	106.8	158.2	188.7	197.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)