

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-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 (P34173)
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-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

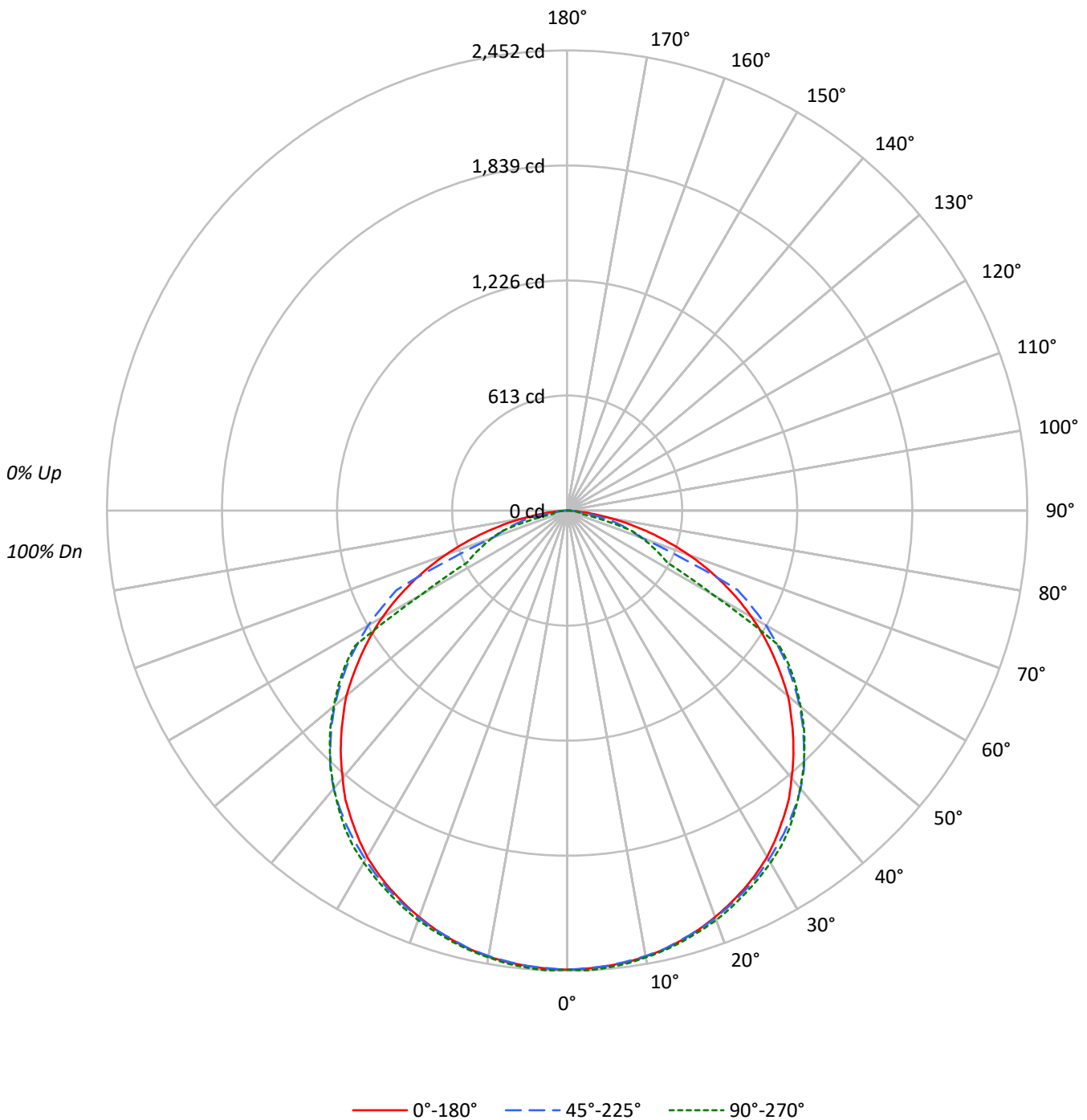
Lumens per Lamp: N/A
Luminaire Lumens: 7060.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7182	7182	7182
5°	7165	7116	7138
10°	7163	7067	7072
15°	7150	7011	7017
20°	7137	6976	6976
25°	7128	6936	6931
30°	7120	6904	6910
35°	7062	6886	6877
40°	6985	6872	6783
45°	6898	6768	6696
50°	6814	6637	6564
55°	6610	6443	6403
60°	6393	6171	4446
65°	6051	5788	3049
70°	5532	2820	2792
75°	4731	2449	1744
80°	3506	1446	712
85°	1737	724	657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	3.3
10°-20°	670.1	9.5
20°-30°	1033.2	14.6
30°-40°	1279.3	18.1
40°-50°	1361.9	19.3
50°-60°	1256.7	17.8
60°-70°	804.6	11.4
70°-80°	362.4	5.1
80°-90°	59.8	0.8
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°	1935.3	27.4
0°-40°	3214.6	45.5
0°-60°	5833.1	82.6
0°-90°	7060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2446	2446	2446	2446	2446	
5°	2437	2441	2435	2442	2446	232
15°	2368	2372	2366	2377	2376	669
25°	2226	2232	2236	2251	2249	1027
35°	2005	2026	2049	2070	2066	1255
45°	1703	1738	1785	1797	1789	1314
55°	1338	1386	1429	1453	1446	1196
65°	918	962	1003	553	542	906
75°	456	496	292	300	216	484
85°	66	50	45	48	44	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2446.5	2446.5	2446.5	2446.5	2446.5
2.5°	2442.6	2447.5	2440.6	2447.5	2452.3
5°	2436.7	2440.6	2434.8	2441.6	2445.5
7.5°	2427.0	2430.9	2424.1	2430.9	2434.8
10°	2413.4	2415.3	2410.4	2417.3	2418.2
12.5°	2393.9	2395.8	2391.9	2398.7	2399.7
15°	2368.5	2372.4	2365.6	2377.3	2376.3
17.5°	2339.3	2343.2	2340.3	2349.1	2350.0
20°	2305.2	2309.1	2310.1	2320.8	2321.8
22.5°	2267.2	2273.1	2274.0	2288.6	2287.7
25°	2226.3	2232.1	2236.0	2250.7	2248.7
27.5°	2181.5	2189.3	2195.1	2209.7	2209.7
30°	2130.8	2141.5	2148.3	2167.8	2166.9
32.5°	2070.4	2090.9	2098.7	2123.0	2121.1
35°	2005.1	2025.6	2049.0	2070.4	2065.5
37.5°	1940.8	1961.3	1993.4	2006.1	2000.3
40°	1860.9	1895.0	1935.9	1940.8	1932.1
42.5°	1784.9	1812.2	1867.7	1870.7	1862.9
45°	1703.1	1738.2	1784.9	1796.6	1788.8
47.5°	1618.3	1648.5	1703.1	1717.7	1711.9
50°	1536.5	1563.8	1617.4	1632.0	1624.2
52.5°	1436.1	1477.1	1522.8	1546.2	1537.5
55°	1337.7	1386.4	1429.3	1452.7	1445.9
57.5°	1239.3	1292.9	1325.1	1357.2	1340.6
60°	1136.0	1188.7	1223.7	1209.1	900.3
62.5°	1028.9	1079.5	1108.8	743.4	603.1
65°	917.8	961.6	1002.6	553.4	541.7
67.5°	804.8	848.6	667.4	492.0	481.3
70°	688.8	729.8	414.1	428.7	422.8
72.5°	571.9	610.9	355.6	372.2	364.4
75°	456.0	495.9	292.3	300.1	216.3
77.5°	347.8	342.0	235.8	165.6	74.0
80°	236.8	157.8	131.5	69.2	68.2
82.5°	147.1	106.2	55.5	61.4	60.4
85°	66.3	49.7	44.8	47.7	43.8
87.5°	23.4	24.4	27.3	25.3	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)