

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-TWB-UNV-L835-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-LD5-7-W-TWB-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

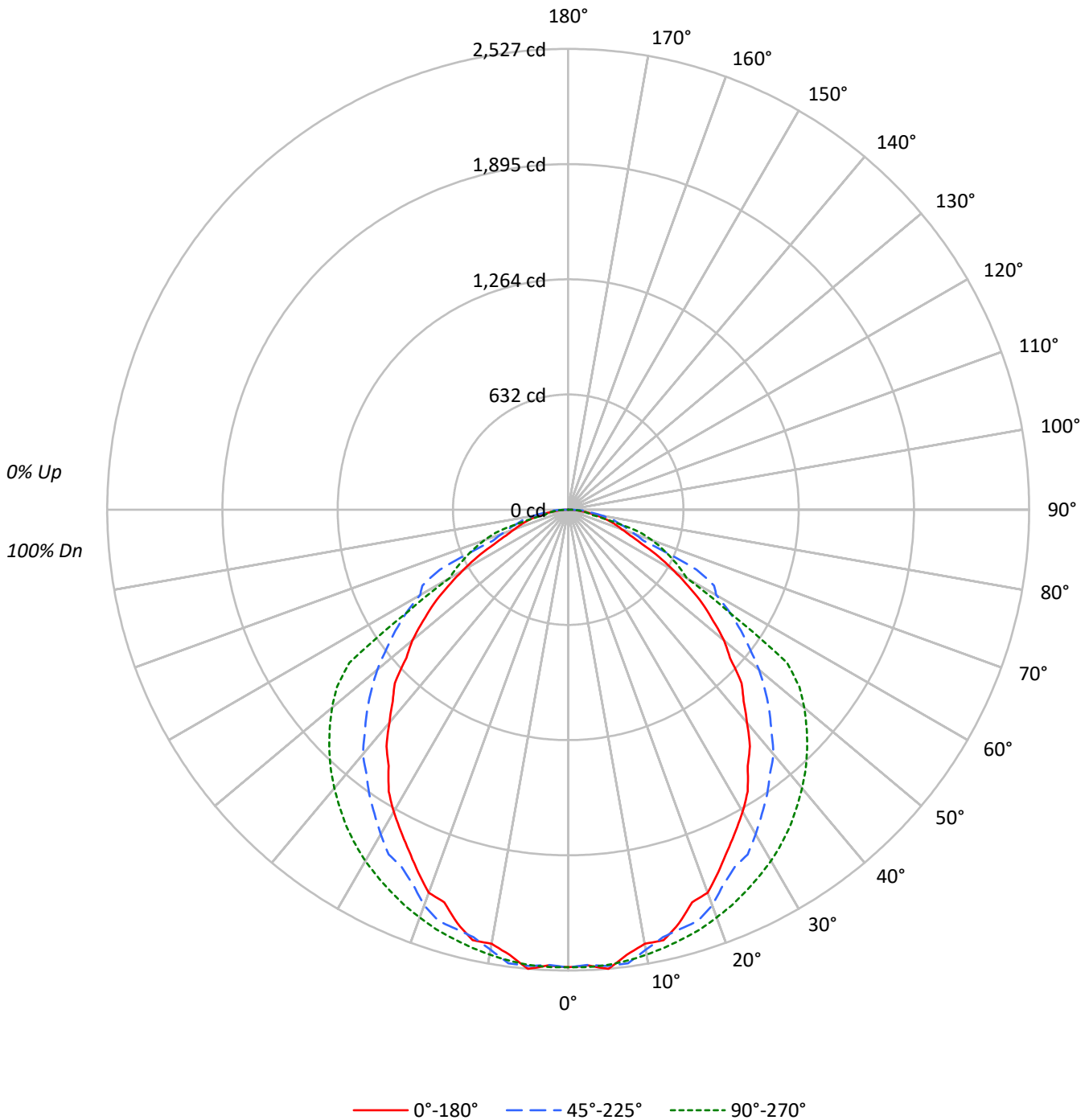
Lumens per Lamp: N/A
Luminaire Lumens: 6328.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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	46
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°	7366	7366	7366
5°	7432	7339	7313
10°	7172	7183	7247
15°	7088	7052	7190
20°	6920	6972	7149
25°	6609	6702	7113
30°	6390	6603	7091
35°	6042	6391	7057
40°	5725	6215	7002
45°	5444	5915	6933
50°	4948	5605	6829
55°	4442	5210	6484
60°	3763	4725	3708
65°	2954	4483	3506
70°	2508	2635	3223
75°	2368	2384	2033
80°	2122	2090	1197
85°	1601	1544	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	3.8
10°-20°	674.9	10.7
20°-30°	1007.4	15.9
30°-40°	1199.1	18.9
40°-50°	1212.4	19.2
50°-60°	1021.5	16.1
60°-70°	590.3	9.3
70°-80°	291.4	4.6
80°-90°	93.5	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°	1920.0	30.3
0°-40°	3119.1	49.3
0°-60°	5352.9	84.6
0°-90°	6328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2527	2533	2511	2499	2506	236
15°	2348	2384	2379	2443	2435	659
25°	2064	2102	2161	2266	2308	953
35°	1716	1785	1902	2063	2120	1079
45°	1344	1385	1560	1747	1852	1020
55°	899	970	1156	1378	1464	798
65°	448	546	777	584	623	461
75°	228	281	285	313	252	240
85°	61	76	96	114	68	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2509.3	2509.3	2509.3	2509.3	2509.3
2.5°	2501.6	2504.5	2498.8	2513.1	2510.2
5°	2527.4	2533.2	2511.2	2498.8	2505.5
7.5°	2461.5	2473.9	2508.3	2492.1	2494.0
10°	2416.6	2418.5	2450.1	2500.7	2477.8
12.5°	2418.5	2414.7	2400.4	2487.3	2457.7
15°	2347.9	2384.2	2379.4	2443.4	2434.8
17.5°	2257.1	2292.5	2364.1	2399.4	2411.9
20°	2235.1	2222.7	2308.7	2343.1	2379.4
22.5°	2150.1	2199.8	2223.7	2300.1	2346.9
25°	2064.2	2102.4	2160.6	2265.7	2307.7
27.5°	1986.8	2027.9	2131.0	2233.2	2266.7
30°	1912.3	1950.5	2054.6	2192.2	2223.7
32.5°	1831.1	1878.9	1977.2	2142.5	2174.0
35°	1715.5	1785.3	1901.8	2063.2	2119.6
37.5°	1636.2	1682.1	1818.7	1979.2	2057.5
40°	1525.4	1599.0	1750.9	1914.2	1994.4
42.5°	1423.2	1495.8	1648.7	1833.0	1926.6
45°	1344.0	1385.0	1559.8	1747.0	1852.1
47.5°	1202.6	1306.7	1463.4	1655.3	1772.8
50°	1115.7	1187.3	1365.9	1567.5	1689.7
52.5°	1003.0	1083.2	1256.1	1470.0	1597.1
55°	898.8	969.5	1155.8	1378.3	1464.3
57.5°	780.4	871.1	1051.7	1274.2	1045.0
60°	668.6	759.4	937.0	860.6	750.8
62.5°	561.7	641.9	901.7	647.6	688.7
65°	448.0	546.4	776.6	583.6	622.8
67.5°	367.7	436.5	448.0	522.5	556.9
70°	312.3	345.8	386.9	463.3	488.1
72.5°	271.3	285.6	336.2	411.7	415.5
75°	228.3	280.8	284.6	313.3	252.2
77.5°	182.4	226.4	246.4	182.4	129.0
80°	143.3	153.8	190.1	160.5	114.6
82.5°	99.3	113.7	131.8	138.5	94.6
85°	61.1	75.5	95.5	113.7	67.8
87.5°	25.8	41.1	65.9	87.9	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)