

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-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 (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-L840-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

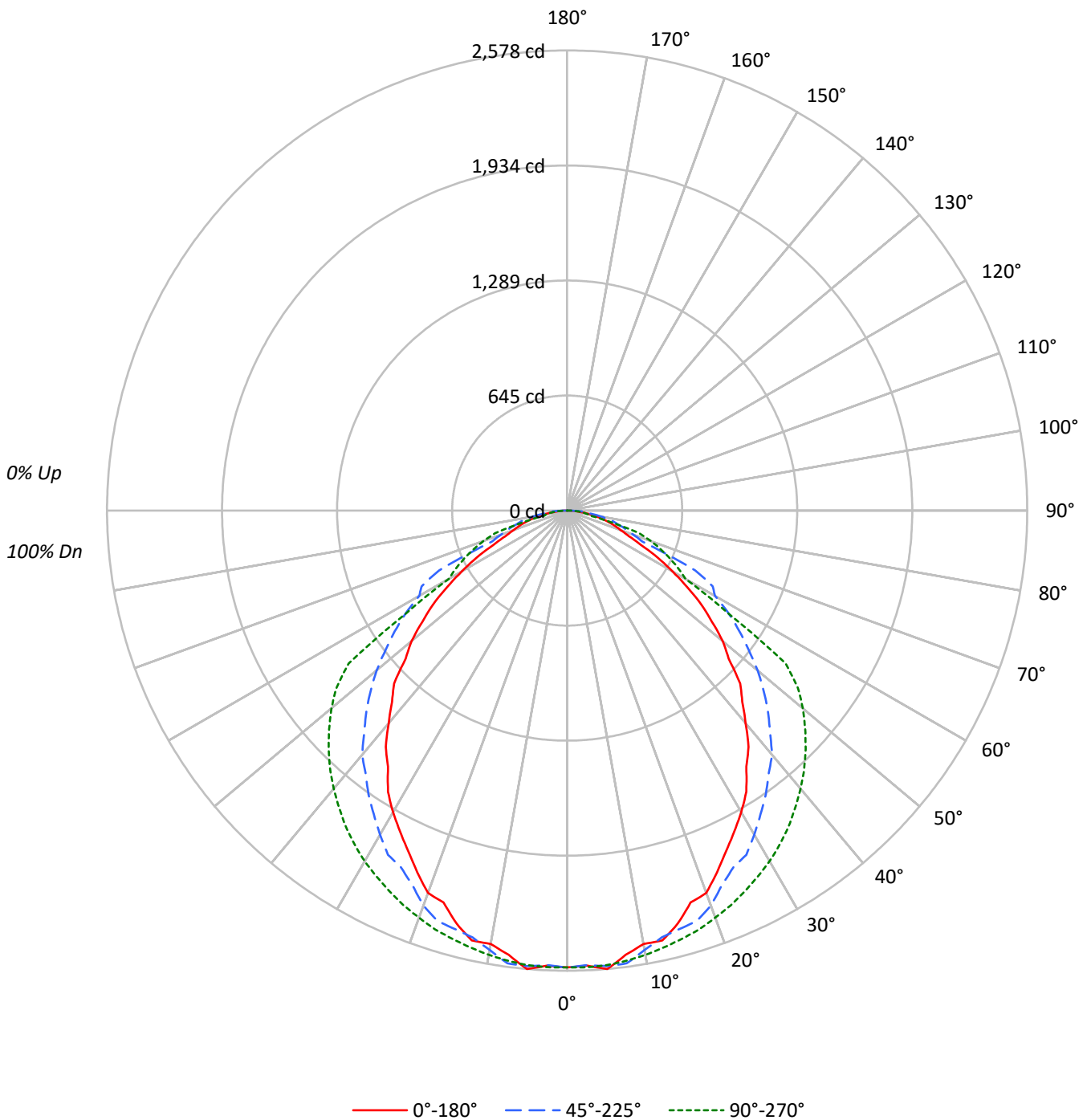
Lumens per Lamp: N/A
Luminaire Lumens: 6455.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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°	7514	7514	7514
5°	7581	7486	7460
10°	7316	7327	7392
15°	7230	7194	7334
20°	7059	7112	7293
25°	6742	6837	7256
30°	6518	6736	7233
35°	6164	6520	7198
40°	5841	6340	7143
45°	5553	6034	7072
50°	5047	5717	6966
55°	4531	5315	6614
60°	3839	4820	3782
65°	3013	4573	3576
70°	2559	2687	3288
75°	2416	2433	2073
80°	2165	2132	1221
85°	1635	1574	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	3.8
10°-20°	688.4	10.7
20°-30°	1027.6	15.9
30°-40°	1223.2	18.9
40°-50°	1236.7	19.2
50°-60°	1042.0	16.1
60°-70°	602.1	9.3
70°-80°	297.2	4.6
80°-90°	95.3	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°	1958.5	30.3
0°-40°	3181.7	49.3
0°-60°	5460.4	84.6
0°-90°	6455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2578	2584	2562	2549	2556	241
15°	2395	2432	2427	2492	2484	672
25°	2106	2145	2204	2311	2354	972
35°	1750	1821	1940	2105	2162	1101
45°	1371	1413	1591	1782	1889	1040
55°	917	989	1179	1406	1494	814
65°	457	557	792	595	635	470
75°	233	286	290	320	257	245
85°	62	77	97	116	69	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2559.6	2559.6	2559.6	2559.6	2559.6
2.5°	2551.9	2554.8	2548.9	2563.5	2560.6
5°	2578.2	2584.0	2561.6	2548.9	2555.8
7.5°	2510.9	2523.6	2558.7	2542.1	2544.1
10°	2465.1	2467.1	2499.2	2550.9	2527.5
12.5°	2467.1	2463.2	2448.6	2537.2	2507.0
15°	2395.0	2432.0	2427.1	2492.4	2483.6
17.5°	2302.4	2338.5	2411.5	2447.6	2460.3
20°	2280.0	2267.3	2355.0	2390.1	2427.1
22.5°	2193.3	2244.0	2268.3	2346.3	2394.0
25°	2105.6	2144.6	2204.0	2311.2	2354.1
27.5°	2026.7	2068.6	2173.8	2278.1	2312.2
30°	1950.7	1989.6	2095.9	2236.2	2268.3
32.5°	1867.9	1916.6	2016.9	2185.5	2217.6
35°	1750.0	1821.1	1940.0	2104.6	2162.1
37.5°	1669.1	1715.9	1855.2	2018.9	2098.8
40°	1556.1	1631.1	1786.0	1952.6	2034.5
42.5°	1451.8	1525.9	1681.7	1869.8	1965.3
45°	1370.9	1412.8	1591.1	1782.1	1889.3
47.5°	1226.7	1332.9	1492.7	1688.6	1808.4
50°	1138.1	1211.1	1393.3	1598.9	1723.6
52.5°	1023.1	1104.9	1281.3	1499.5	1629.1
55°	916.9	989.0	1179.0	1406.0	1493.7
57.5°	796.1	888.6	1072.8	1299.8	1066.0
60°	682.1	774.6	955.8	877.9	765.8
62.5°	572.9	654.8	919.8	660.6	702.5
65°	457.0	557.3	792.2	595.3	635.3
67.5°	375.1	445.3	457.0	533.0	568.1
70°	318.6	352.7	394.6	472.6	497.9
72.5°	276.7	291.3	343.0	419.9	423.8
75°	232.9	286.5	290.4	319.6	257.2
77.5°	186.1	230.9	251.4	186.1	131.5
80°	146.2	156.9	193.9	163.7	116.9
82.5°	101.3	115.9	134.5	141.3	96.5
85°	62.4	77.0	97.4	115.9	69.2
87.5°	26.3	41.9	67.2	89.6	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)