

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

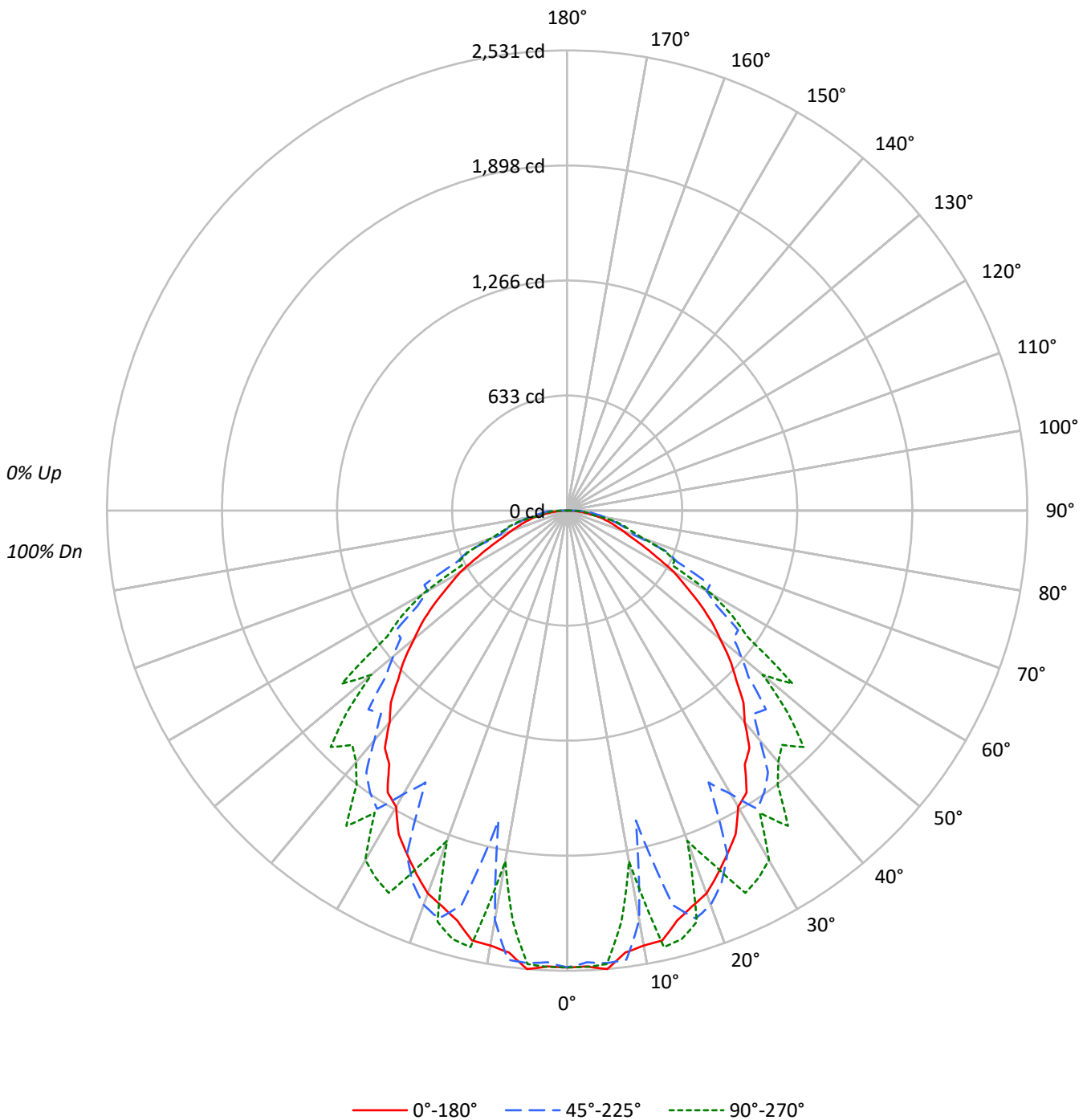
Lumens per Lamp: N/A
Luminaire Lumens: 6105.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7376	7376	7376
5°	7442	7301	7309
10°	7208	6704	5727
15°	7050	6659	7203
20°	6937	6970	5805
25°	6672	6467	7153
30°	6286	5783	7077
35°	6005	6352	7049
40°	5701	5855	6338
45°	5323	5863	6885
50°	4874	5129	5674
55°	4376	5173	5350
60°	3822	4466	4522
65°	3051	3847	3669
70°	2605	2667	2914
75°	2446	2547	2591
80°	2208	2378	1536
85°	1939	2111	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	3.8
10°-20°	642.9	10.5
20°-30°	929.4	15.2
30°-40°	1164.0	19.1
40°-50°	1133.1	18.6
50°-60°	969.9	15.9
60°-70°	601.7	9.9
70°-80°	313.1	5.1
80°-90°	121.6	2.0
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°	1801.5	29.5
0°-40°	2965.5	48.6
0°-60°	5068.6	83.0
0°-90°	6105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2513	2513	2513	2513	2513	
5°	2531	2523	2498	2488	2504	236
15°	2335	2344	2247	2452	2440	661
25°	2084	1727	2085	2143	2321	958
35°	1705	1777	1890	1874	2117	1077
45°	1314	1180	1546	1581	1839	1017
55°	886	969	1148	1370	1208	792
65°	463	519	666	564	652	470
75°	236	274	304	326	322	250
85°	74	98	131	150	97	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.6	2512.6	2512.6	2512.6	2512.6
2.5°	2509.7	2499.0	2487.3	2507.7	2511.6
5°	2531.1	2523.3	2498.0	2488.3	2503.8
7.5°	2452.2	2468.8	2492.2	2365.5	2283.7
10°	2428.8	2420.1	2286.6	1760.5	1958.3
12.5°	2421.0	2410.3	1745.9	2447.3	2459.0
15°	2335.3	2344.1	2246.6	2452.2	2439.5
17.5°	2282.7	2161.9	2352.8	2393.8	2371.3
20°	2240.8	1884.2	2308.0	2198.9	1932.0
22.5°	2163.8	1606.6	2218.4	1764.4	2107.3
25°	2083.9	1727.4	2084.9	2143.4	2320.7
27.5°	2007.0	1957.3	1686.4	2236.9	2278.8
30°	1881.3	1940.7	1799.5	2190.1	2219.4
32.5°	1837.5	1853.0	1945.6	2068.3	1970.9
35°	1705.0	1777.0	1890.1	1874.5	2117.1
37.5°	1646.5	1667.0	1814.1	1973.8	1901.8
40°	1518.9	1550.0	1649.4	1743.9	1805.3
42.5°	1436.1	1331.8	1515.9	1690.3	1748.8
45°	1314.3	1179.8	1546.1	1581.2	1839.4
47.5°	1214.9	1172.0	1353.2	1645.5	1645.5
50°	1099.0	1155.5	1250.0	1470.2	1403.9
52.5°	999.6	1076.6	1153.5	1278.2	1563.7
55°	885.6	969.4	1147.7	1369.8	1208.1
57.5°	773.6	844.7	974.3	1049.3	1077.5
60°	679.1	748.2	885.6	943.1	915.8
62.5°	557.3	645.0	885.6	743.4	651.8
65°	462.8	519.3	666.4	564.1	651.8
67.5°	380.0	438.4	592.3	544.6	580.7
70°	324.4	366.3	391.7	487.1	441.3
72.5°	277.7	307.9	358.5	368.3	366.3
75°	235.8	273.8	304.0	326.4	321.5
77.5°	195.8	249.4	250.4	300.1	261.1
80°	149.1	170.5	216.3	195.8	147.1
82.5°	109.1	133.5	164.6	169.5	129.6
85°	74.0	98.4	130.6	150.0	97.4
87.5°	34.1	67.2	106.2	134.4	88.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)