

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-L850-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-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

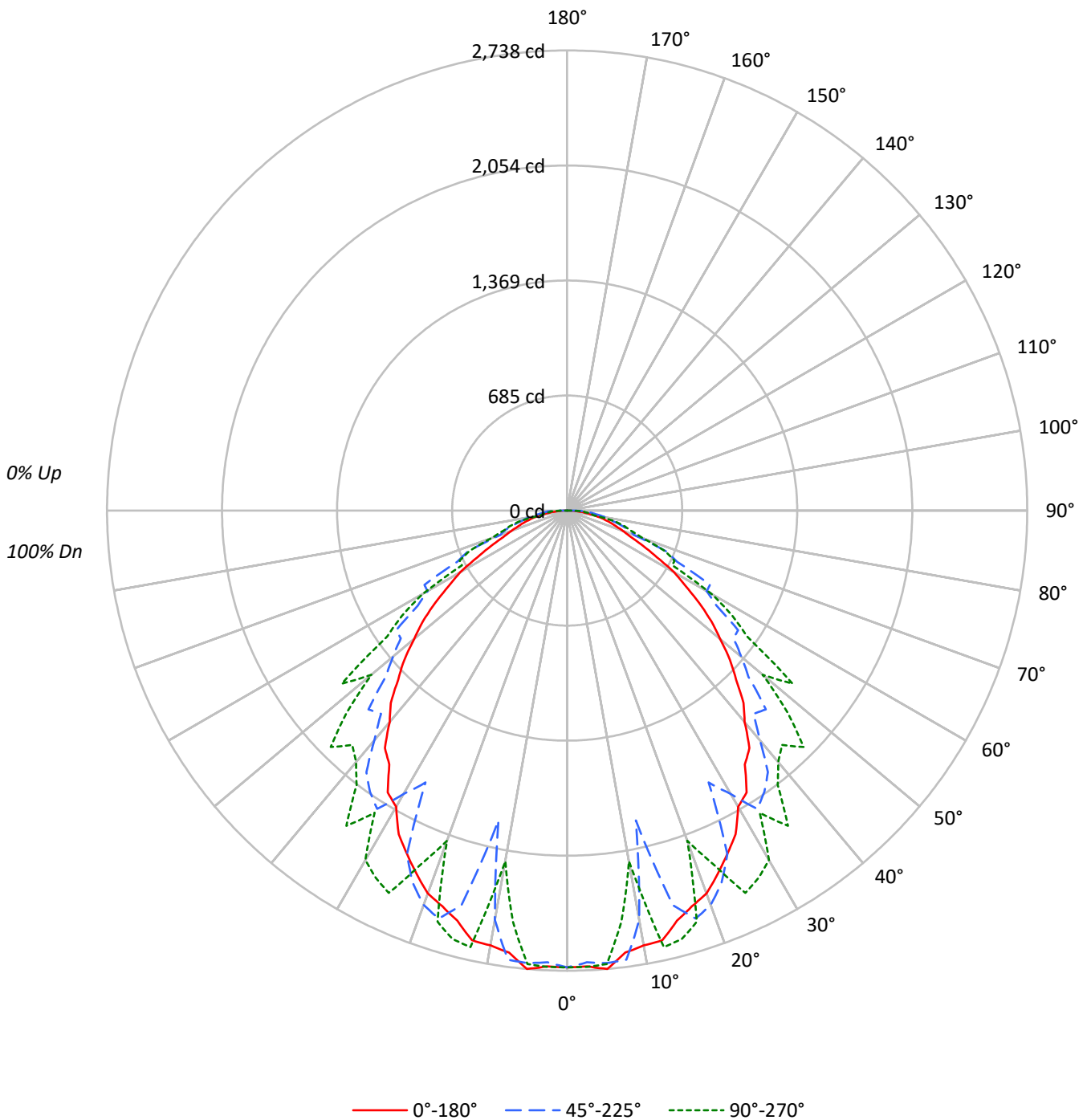
Lumens per Lamp: N/A
Luminaire Lumens: 6604.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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°	7979	7979	7979
5°	8051	7897	7906
10°	7797	7252	6195
15°	7626	7203	7792
20°	7504	7540	6280
25°	7218	6996	7738
30°	6800	6256	7656
35°	6496	6871	7625
40°	6167	6333	6856
45°	5758	6342	7448
50°	5272	5548	6138
55°	4734	5596	5787
60°	4134	4831	4892
65°	3300	4161	3969
70°	2818	2885	3153
75°	2645	2755	2803
80°	2387	2573	1662
85°	2098	2282	1580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	3.8
10°-20°	695.5	10.5
20°-30°	1005.4	15.2
30°-40°	1259.2	19.1
40°-50°	1225.7	18.6
50°-60°	1049.2	15.9
60°-70°	650.9	9.9
70°-80°	338.7	5.1
80°-90°	131.6	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°	1948.7	29.5
0°-40°	3207.9	48.6
0°-60°	5482.9	83.0
0°-90°	6604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2738	2730	2702	2692	2708	256
15°	2526	2536	2430	2653	2639	715
25°	2254	1868	2255	2319	2510	1036
35°	1844	1922	2044	2028	2290	1165
45°	1422	1276	1672	1710	1990	1100
55°	958	1049	1242	1482	1307	857
65°	501	562	721	610	705	508
75°	255	296	329	353	348	270
85°	80	106	141	162	105	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2718.0	2718.0	2718.0	2718.0	2718.0
2.5°	2714.8	2703.2	2690.6	2712.7	2716.9
5°	2738.0	2729.6	2702.2	2691.6	2708.5
7.5°	2652.6	2670.6	2695.9	2558.8	2470.3
10°	2627.3	2617.9	2473.5	1904.4	2118.3
12.5°	2618.9	2607.3	1888.6	2647.4	2660.0
15°	2526.2	2535.7	2430.3	2652.6	2638.9
17.5°	2469.3	2338.6	2545.1	2589.4	2565.2
20°	2423.9	2038.2	2496.7	2378.6	2089.9
22.5°	2340.7	1737.9	2399.7	1908.6	2279.6
25°	2254.3	1868.5	2255.3	2318.6	2510.4
27.5°	2171.0	2117.3	1824.3	2419.7	2465.0
30°	2035.1	2099.3	1946.5	2369.1	2400.8
32.5°	1987.6	2004.5	2104.6	2237.4	2132.0
35°	1844.3	1922.3	2044.5	2027.7	2290.1
37.5°	1781.1	1803.2	1962.3	2135.2	2057.2
40°	1643.0	1676.7	1784.2	1886.5	1952.9
42.5°	1553.4	1440.7	1639.9	1828.5	1891.7
45°	1421.7	1276.3	1672.5	1710.5	1989.7
47.5°	1314.2	1267.8	1463.9	1780.0	1780.0
50°	1188.8	1249.9	1352.1	1590.3	1518.7
52.5°	1081.3	1164.5	1247.8	1382.7	1691.5
55°	958.0	1048.6	1241.5	1481.8	1306.8
57.5°	836.8	913.7	1053.9	1135.0	1165.6
60°	734.6	809.4	958.0	1020.2	990.7
62.5°	602.8	697.7	958.0	804.1	705.1
65°	500.6	561.7	720.9	610.2	705.1
67.5°	411.0	474.3	640.8	589.1	628.1
70°	350.9	396.3	423.7	526.9	477.4
72.5°	300.4	333.0	387.8	398.4	396.3
75°	255.0	296.1	328.8	353.1	347.8
77.5°	211.8	269.8	270.8	324.6	282.4
80°	161.2	184.4	234.0	211.8	159.1
82.5°	118.0	144.4	178.1	183.4	140.2
85°	80.1	106.4	141.2	162.3	105.4
87.5°	36.9	72.7	114.9	145.4	95.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)