

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-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 (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-L850-CD1-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

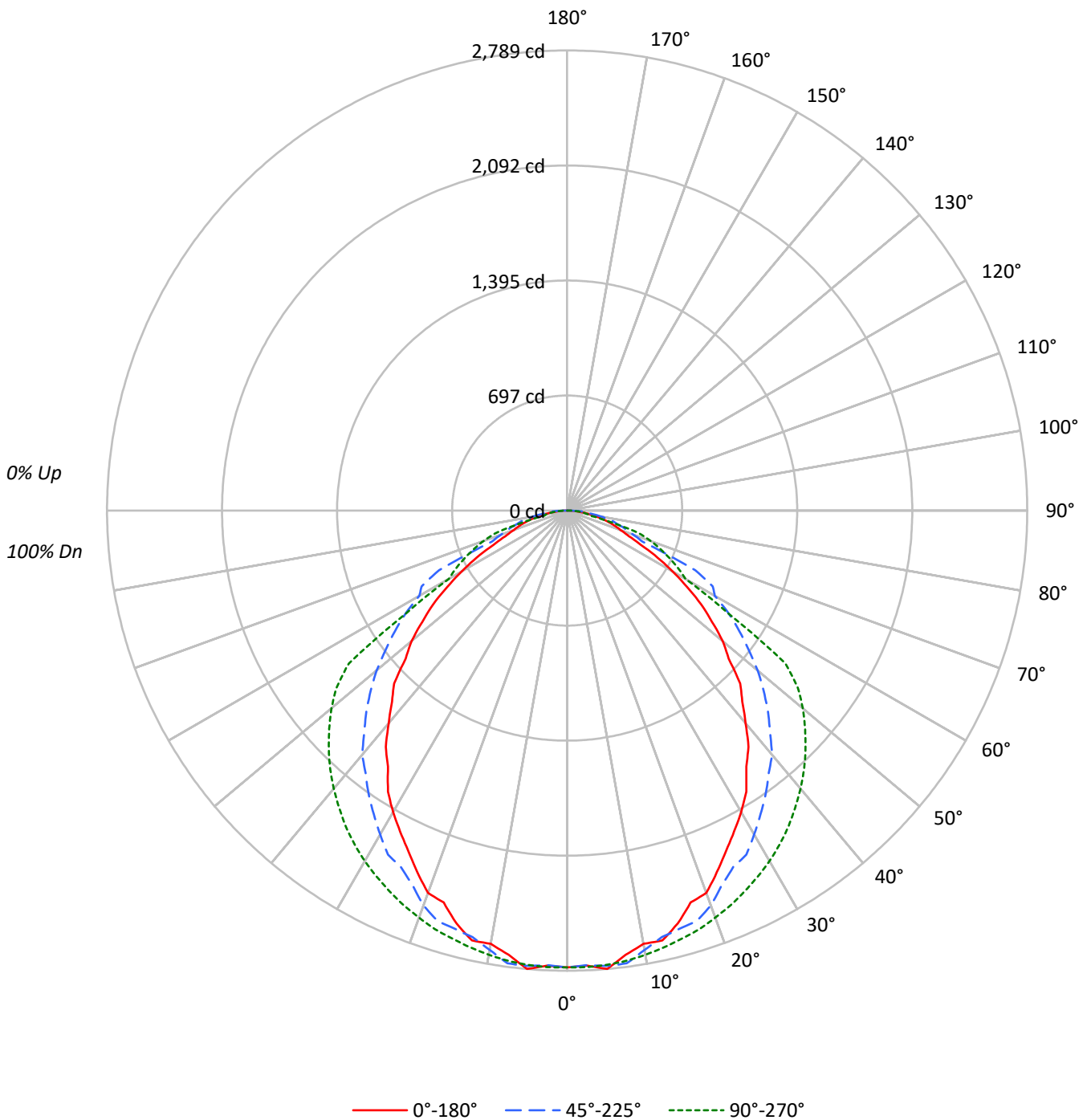
Lumens per Lamp: N/A  
Luminaire Lumens: 6982.0 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 50.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	8128	8128	8128
5°	8200	8098	8069
10°	7913	7926	7995
15°	7821	7781	7933
20°	7635	7692	7888
25°	7292	7395	7848
30°	7050	7286	7824
35°	6667	7052	7786
40°	6317	6857	7726
45°	6006	6526	7649
50°	5459	6184	7535
55°	4901	5748	7154
60°	4151	5214	4091
65°	3259	4946	3868
70°	2768	2906	3556
75°	2613	2631	2242
80°	2341	2305	1321
85°	1768	1704	1121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.3	3.8
10°-20°	744.6	10.7
20°-30°	1111.5	15.9
30°-40°	1323.0	18.9
40°-50°	1337.7	19.2
50°-60°	1127.1	16.1
60°-70°	651.2	9.3
70°-80°	321.5	4.6
80°-90°	103.1	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°	2118.4	30.3
0°-40°	3441.4	49.3
0°-60°	5906.2	84.6
0°-90°	6982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2769	2769	2769	2769	2769	
5°	2789	2795	2771	2757	2764	261
15°	2590	2631	2625	2696	2686	727
25°	2278	2320	2384	2500	2546	1052
35°	1893	1970	2098	2276	2339	1191
45°	1483	1528	1721	1928	2044	1125
55°	992	1070	1275	1521	1616	880
65°	494	603	857	644	687	509
75°	252	310	314	346	278	265
85°	68	83	105	125	75	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2768.6	2768.6	2768.6	2768.6	2768.6
2.5°	2760.2	2763.4	2757.0	2772.8	2769.7
5°	2788.6	2795.0	2770.7	2757.0	2764.4
7.5°	2715.9	2729.6	2767.6	2749.7	2751.8
10°	2666.4	2668.5	2703.3	2759.1	2733.8
12.5°	2668.5	2664.3	2648.5	2744.4	2711.7
15°	2590.5	2630.6	2625.3	2695.9	2686.4
17.5°	2490.4	2529.4	2608.4	2647.4	2661.1
20°	2466.2	2452.5	2547.3	2585.2	2625.3
22.5°	2372.4	2427.2	2453.5	2537.8	2589.5
25°	2277.5	2319.7	2383.9	2499.9	2546.2
27.5°	2192.1	2237.5	2351.3	2464.0	2500.9
30°	2109.9	2152.1	2267.0	2418.7	2453.5
32.5°	2020.3	2073.0	2181.6	2363.9	2398.7
35°	1892.8	1969.8	2098.3	2276.4	2338.6
37.5°	1805.3	1855.9	2006.6	2183.7	2270.1
40°	1683.1	1764.2	1931.8	2112.0	2200.6
42.5°	1570.3	1650.4	1819.1	2022.5	2125.7
45°	1482.9	1528.2	1721.0	1927.6	2043.5
47.5°	1326.9	1441.7	1614.6	1826.4	1956.1
50°	1231.0	1310.0	1507.1	1729.5	1864.4
52.5°	1106.6	1195.1	1385.9	1622.0	1762.1
55°	991.7	1069.7	1275.2	1520.8	1615.6
57.5°	861.0	961.2	1160.4	1405.9	1153.0
60°	737.7	837.9	1033.9	949.6	828.4
62.5°	619.7	708.2	994.9	714.6	759.9
65°	494.3	602.8	856.8	643.9	687.1
67.5°	405.8	481.6	494.3	576.5	614.4
70°	344.6	381.5	426.8	511.1	538.5
72.5°	299.3	315.1	371.0	454.2	458.5
75°	251.9	309.8	314.1	345.7	278.2
77.5°	201.3	249.8	271.9	201.3	142.3
80°	158.1	169.7	209.7	177.1	126.5
82.5°	109.6	125.4	145.4	152.8	104.3
85°	67.5	83.3	105.4	125.4	74.8
87.5°	28.5	45.3	72.7	97.0	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)