

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-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 (P34173)
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-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

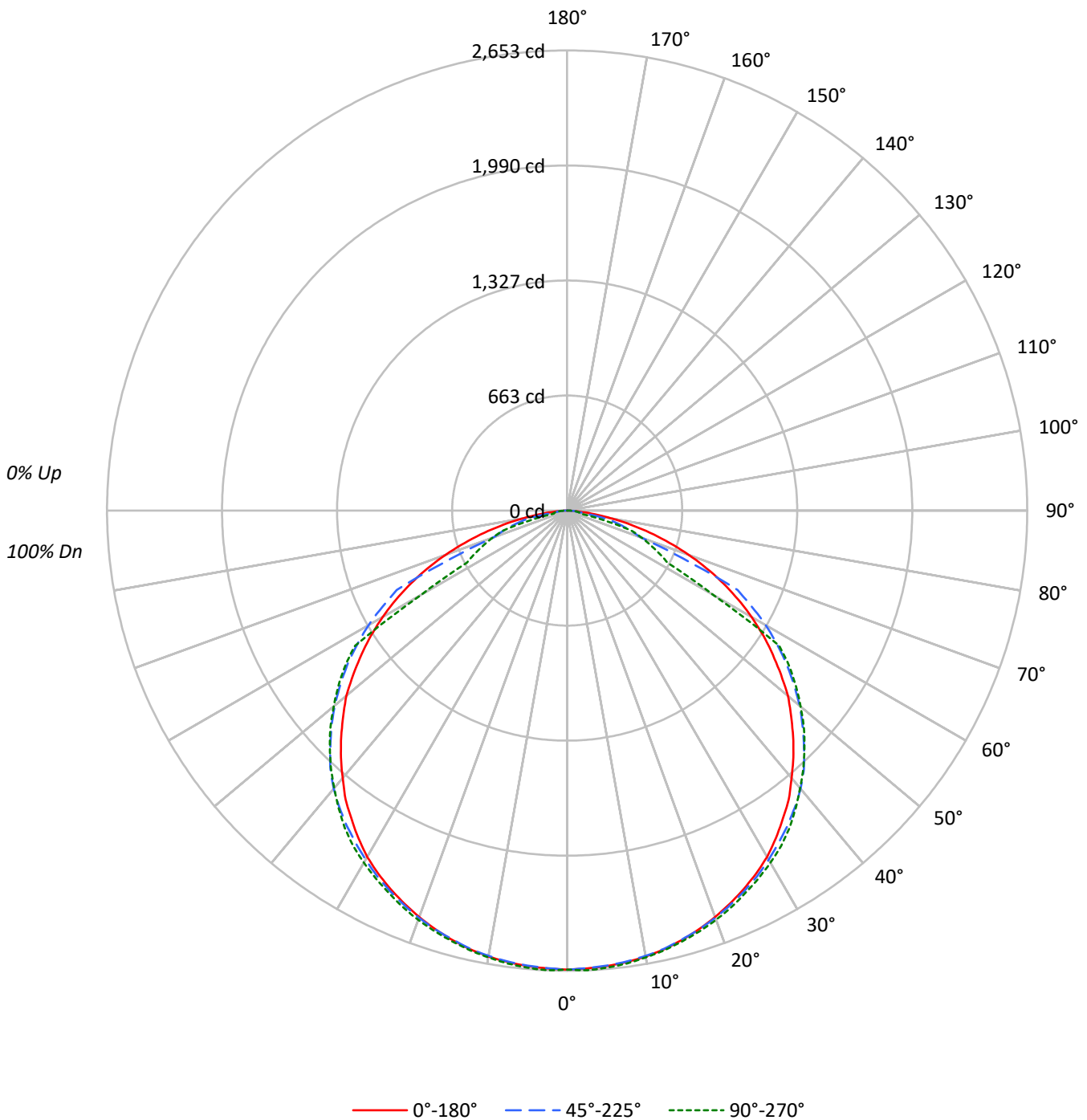
Lumens per Lamp: N/A
Luminaire Lumens: 7637.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (Ain): 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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7769	7769	7769
5°	7751	7697	7722
10°	7748	7645	7651
15°	7735	7585	7590
20°	7720	7546	7546
25°	7710	7503	7498
30°	7702	7469	7475
35°	7639	7448	7439
40°	7556	7434	7338
45°	7462	7322	7243
50°	7371	7179	7101
55°	7151	6969	6926
60°	6916	6675	4809
65°	6545	6260	3299
70°	5984	3050	3021
75°	5117	2649	1886
80°	3792	1564	771
85°	1878	784	711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	3.3
10°-20°	724.8	9.5
20°-30°	1117.6	14.6
30°-40°	1383.9	18.1
40°-50°	1473.2	19.3
50°-60°	1359.4	17.8
60°-70°	870.4	11.4
70°-80°	392.0	5.1
80°-90°	64.7	0.8
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°	2093.5	27.4
0°-40°	3477.3	45.5
0°-60°	6309.9	82.6
0°-90°	7637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2646	2646	2646	2646	2646	
5°	2636	2640	2634	2641	2645	251
15°	2562	2566	2559	2572	2570	724
25°	2408	2415	2419	2435	2432	1111
35°	2169	2191	2216	2240	2234	1358
45°	1842	1880	1931	1944	1935	1421
55°	1447	1500	1546	1571	1564	1294
65°	993	1040	1084	599	586	980
75°	493	536	316	325	234	524
85°	72	54	48	52	47	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2646.4	2646.4	2646.4	2646.4	2646.4
2.5°	2642.2	2647.5	2640.1	2647.5	2652.8
5°	2635.9	2640.1	2633.8	2641.2	2645.4
7.5°	2625.4	2629.6	2622.2	2629.6	2633.8
10°	2610.6	2612.7	2607.4	2614.8	2615.9
12.5°	2589.5	2591.6	2587.4	2594.8	2595.8
15°	2562.1	2566.3	2559.0	2571.6	2570.5
17.5°	2530.5	2534.7	2531.6	2541.0	2542.1
20°	2493.6	2497.8	2498.9	2510.5	2511.5
22.5°	2452.5	2458.8	2459.9	2475.7	2474.6
25°	2408.2	2414.6	2418.8	2434.6	2432.5
27.5°	2359.8	2368.2	2374.5	2390.3	2390.3
30°	2305.0	2316.6	2323.9	2345.0	2344.0
32.5°	2239.6	2261.7	2270.2	2296.5	2294.4
35°	2169.0	2191.1	2216.4	2239.6	2234.3
37.5°	2099.4	2121.6	2156.4	2170.1	2163.7
40°	2013.0	2049.9	2094.2	2099.4	2090.0
42.5°	1930.8	1960.3	2020.4	2023.6	2015.1
45°	1842.3	1880.2	1930.8	1943.5	1935.0
47.5°	1750.6	1783.3	1842.3	1858.1	1851.8
50°	1662.1	1691.6	1749.5	1765.3	1756.9
52.5°	1553.5	1597.8	1647.3	1672.6	1663.1
55°	1447.1	1499.8	1546.1	1571.4	1564.0
57.5°	1340.6	1398.6	1433.4	1468.1	1450.2
60°	1228.9	1285.8	1323.7	1307.9	973.8
62.5°	1113.0	1167.8	1199.4	804.2	652.4
65°	992.8	1040.2	1084.5	598.6	586.0
67.5°	870.6	918.0	721.9	532.2	520.6
70°	745.1	789.4	447.9	463.7	457.4
72.5°	618.7	660.8	384.7	402.6	394.2
75°	493.2	536.5	316.2	324.6	234.0
77.5°	376.3	369.9	255.1	179.2	80.1
80°	256.1	170.7	142.3	74.8	73.8
82.5°	159.1	114.9	60.1	66.4	65.3
85°	71.7	53.8	48.5	51.6	47.4
87.5°	25.3	26.3	29.5	27.4	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)