

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: P183835

Luminaire Tested: **24SR-LD2-53-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-53-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5841.9 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

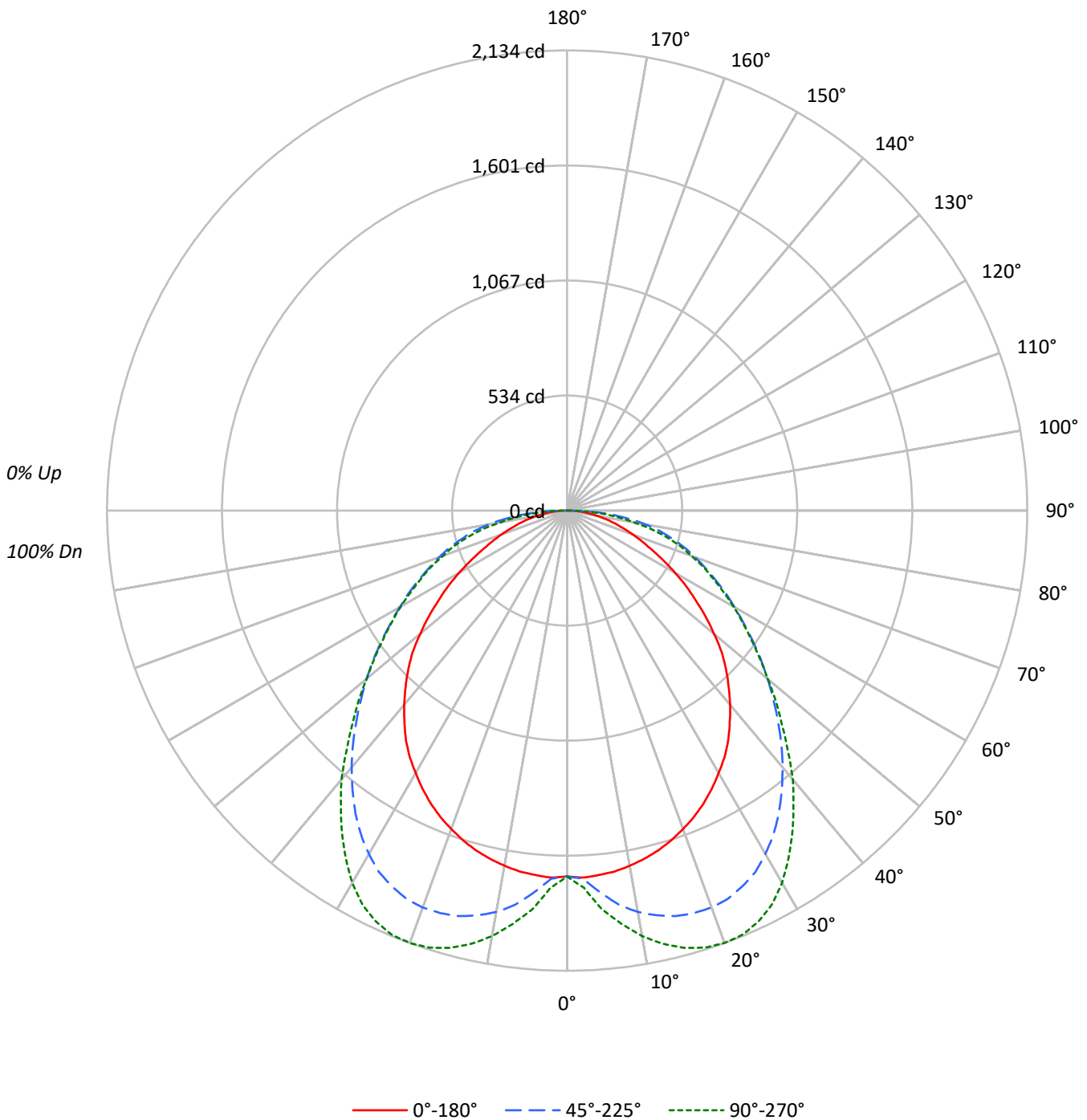
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82				
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68				
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57				
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49				
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42				
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37				
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29				
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26				
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2283	2283	2283
5°	2291	2402	2507
10°	2285	2582	2737
15°	2273	2712	2924
20°	2250	2805	3055
25°	2224	2855	3119
30°	2183	2857	3097
35°	2139	2812	2992
40°	2065	2730	2859
45°	1983	2632	2684
50°	1862	2540	2540
55°	1712	2460	2444
60°	1559	2412	2398
65°	1386	2412	2379
70°	1274	2481	2407
75°	1185	2628	2494
80°	1116	2868	2430
85°	1085	3095	2540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	3.0
10°-20°	542.9	9.3
20°-30°	864.6	14.8
30°-40°	1031.0	17.6
40°-50°	1015.7	17.4
50°-60°	877.2	15.0
60°-70°	684.6	11.7
70°-80°	469.1	8.0
80°-90°	184.1	3.2
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°	1580.3	27.1
0°-40°	2611.3	44.7
0°-60°	4504.2	77.1
0°-90°	5841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1697	1727	1779	1846	1856	161
15°	1632	1805	1947	2068	2099	460
25°	1498	1734	1923	2068	2101	689
35°	1302	1524	1712	1810	1822	812
45°	1042	1232	1383	1422	1410	801
55°	730	925	1049	1052	1042	655
65°	435	651	758	754	747	437
75°	228	442	506	485	480	242
85°	70	212	200	171	164	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.6	1696.6	1696.6	1696.6	1696.6
2.5°	1703.4	1705.2	1708.6	1742.9	1749.7
5°	1696.6	1727.4	1778.8	1845.7	1856.0
7.5°	1688.0	1756.6	1844.0	1915.9	1933.1
10°	1672.6	1785.7	1890.2	1981.1	2003.3
12.5°	1653.7	1801.1	1922.8	2029.1	2058.2
15°	1631.5	1804.6	1946.8	2068.5	2099.3
17.5°	1604.0	1799.4	1957.1	2090.7	2125.0
20°	1571.5	1785.7	1958.8	2099.3	2133.6
22.5°	1537.2	1765.1	1948.5	2092.5	2128.4
25°	1497.8	1734.3	1922.8	2068.5	2101.0
27.5°	1453.2	1691.4	1890.2	2027.3	2058.2
30°	1405.3	1641.8	1838.8	1967.4	1993.1
32.5°	1357.3	1586.9	1780.6	1895.4	1910.8
35°	1302.4	1523.5	1712.0	1809.7	1821.7
37.5°	1239.0	1460.1	1634.9	1720.6	1724.0
40°	1175.6	1383.0	1554.3	1617.8	1628.0
42.5°	1108.8	1307.6	1470.4	1523.5	1516.6
45°	1041.9	1232.2	1383.0	1422.4	1410.4
47.5°	971.7	1155.1	1297.3	1323.0	1314.4
50°	889.4	1077.9	1213.3	1227.0	1213.3
52.5°	810.6	1004.2	1131.1	1137.9	1125.9
55°	730.0	925.4	1048.8	1052.2	1041.9
57.5°	656.4	851.7	970.0	970.0	964.8
60°	579.2	778.0	896.3	892.9	891.1
62.5°	505.5	712.9	827.7	822.6	817.4
65°	435.3	651.2	757.5	754.0	747.2
67.5°	377.0	592.9	692.3	687.2	683.8
70°	323.9	541.5	630.7	616.9	611.8
72.5°	272.5	490.1	570.7	550.1	551.8
75°	227.9	442.1	505.5	485.0	479.8
77.5°	183.4	392.4	442.1	409.6	402.7
80°	144.0	339.3	370.2	329.0	313.6
82.5°	106.3	281.1	287.9	248.5	238.2
85°	70.3	212.5	200.5	171.4	164.5
87.5°	37.7	125.1	108.0	87.4	82.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)