

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: P183830

Luminaire Tested: **24SR-LD2-48-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183830
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-LD2-48-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: 5278.4 lumens
Efficiency: N/A
Efficacy: 138.2 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

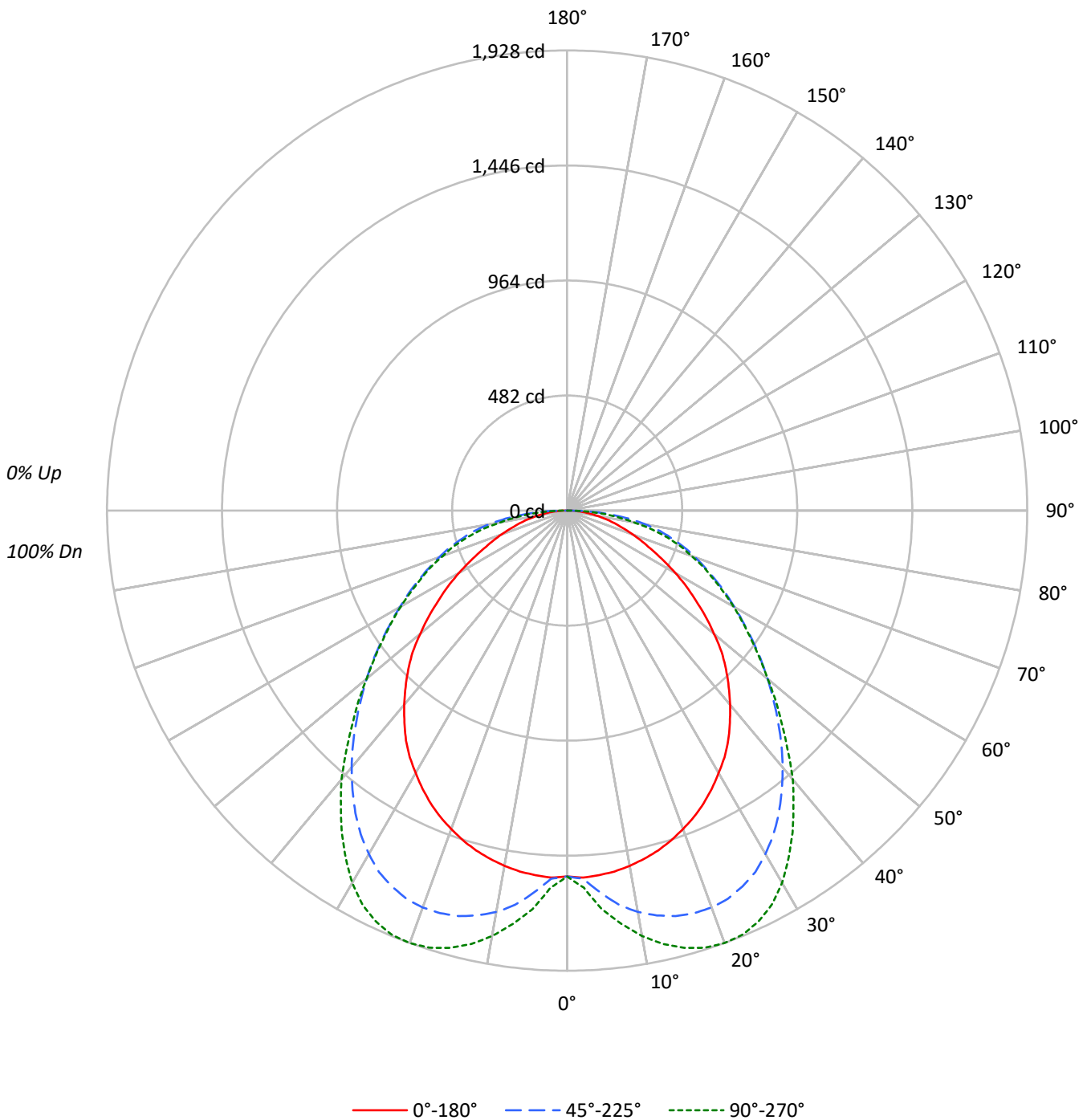
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183830

CATALOG NUMBER: 24SR-LD2-48-S-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183830

CATALOG NUMBER: 24SR-LD2-48-S-UNV-L850-CD1-U

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°	2063	2063	2063
5°	2070	2171	2265
10°	2065	2333	2473
15°	2053	2450	2642
20°	2033	2534	2760
25°	2009	2579	2818
30°	1973	2581	2798
35°	1933	2541	2704
40°	1866	2467	2584
45°	1791	2378	2425
50°	1682	2295	2295
55°	1547	2223	2208
60°	1408	2179	2167
65°	1252	2179	2149
70°	1151	2242	2175
75°	1070	2375	2254
80°	1008	2592	2196
85°	980	2797	2294



TEST NUMBER: P183830

CATALOG NUMBER: 24SR-LD2-48-S-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.0
10°-20°	490.5	9.3
20°-30°	781.2	14.8
30°-40°	931.6	17.6
40°-50°	917.7	17.4
50°-60°	792.6	15.0
60°-70°	618.5	11.7
70°-80°	423.8	8.0
80°-90°	166.3	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°	1427.8	27.1
0°-40°	2359.4	44.7
0°-60°	4069.7	77.1
0°-90°	5278.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5278.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1533	1561	1607	1668	1677	146
15°	1474	1630	1759	1869	1897	416
25°	1353	1567	1737	1869	1898	623
35°	1177	1376	1547	1635	1646	734
45°	941	1113	1250	1285	1274	724
55°	660	836	948	951	941	592
65°	393	588	684	681	675	395
75°	206	400	457	438	434	219
85°	64	192	181	155	149	70
90°	0	0	0	0	0	



TEST NUMBER: P183830

CATALOG NUMBER: 24SR-LD2-48-S-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.9	1532.9	1532.9	1532.9	1532.9
2.5°	1539.1	1540.7	1543.8	1574.7	1580.9
5°	1532.9	1560.8	1607.3	1667.6	1676.9
7.5°	1525.2	1587.1	1666.1	1731.1	1746.6
10°	1511.3	1613.4	1707.9	1790.0	1810.1
12.5°	1494.2	1627.4	1737.3	1833.3	1859.6
15°	1474.1	1630.5	1759.0	1868.9	1896.8
17.5°	1449.3	1625.8	1768.3	1889.1	1920.0
20°	1419.9	1613.4	1769.8	1896.8	1927.8
22.5°	1388.9	1594.9	1760.5	1890.6	1923.1
25°	1353.3	1567.0	1737.3	1868.9	1898.4
27.5°	1313.1	1528.3	1707.9	1831.8	1859.6
30°	1269.7	1483.4	1661.4	1777.6	1800.8
32.5°	1226.3	1433.8	1608.8	1712.5	1726.5
35°	1176.8	1376.5	1546.9	1635.1	1646.0
37.5°	1119.5	1319.2	1477.2	1554.6	1557.7
40°	1062.2	1249.6	1404.4	1461.7	1471.0
42.5°	1001.8	1181.4	1328.5	1376.5	1370.3
45°	941.4	1113.3	1249.6	1285.2	1274.3
47.5°	877.9	1043.6	1172.1	1195.4	1187.6
50°	803.6	974.0	1096.3	1108.7	1096.3
52.5°	732.4	907.4	1022.0	1028.1	1017.3
55°	659.6	836.1	947.6	950.7	941.4
57.5°	593.0	769.6	876.4	876.4	871.8
60°	523.4	703.0	809.8	806.7	805.2
62.5°	456.8	644.1	747.9	743.2	738.6
65°	393.3	588.4	684.4	681.3	675.1
67.5°	340.7	535.8	625.6	620.9	617.8
70°	292.6	489.3	569.8	557.4	552.8
72.5°	246.2	442.8	515.6	497.0	498.6
75°	205.9	399.5	456.8	438.2	433.6
77.5°	165.7	354.6	399.5	370.1	363.9
80°	130.1	306.6	334.5	297.3	283.4
82.5°	96.0	253.9	260.1	224.5	215.2
85°	63.5	192.0	181.2	154.8	148.6
87.5°	34.1	113.0	97.5	79.0	74.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)