

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: P183833

Luminaire Tested: **24SR-LD2-53-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183833
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-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5263.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

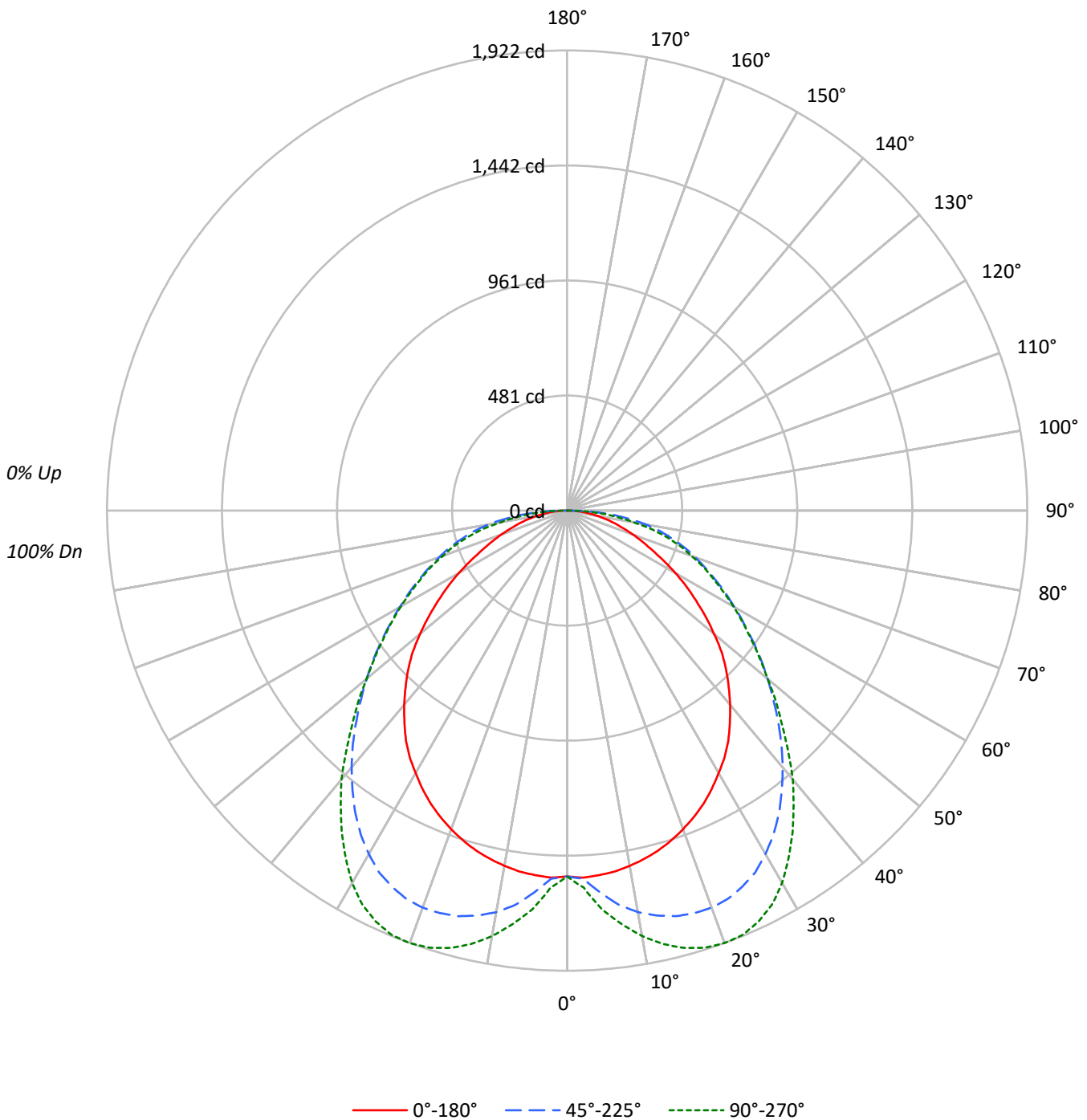
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2057	2057	2057
5°	2064	2165	2258
10°	2059	2327	2466
15°	2047	2443	2634
20°	2027	2527	2752
25°	2003	2572	2810
30°	1967	2574	2790
35°	1927	2533	2696
40°	1860	2460	2576
45°	1786	2371	2418
50°	1677	2288	2288
55°	1543	2217	2202
60°	1404	2173	2160
65°	1249	2173	2143
70°	1148	2235	2168
75°	1067	2367	2247
80°	1005	2584	2189
85°	977	2788	2288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	3.0
10°-20°	489.1	9.3
20°-30°	778.9	14.8
30°-40°	928.9	17.6
40°-50°	915.0	17.4
50°-60°	790.2	15.0
60°-70°	616.7	11.7
70°-80°	422.6	8.0
80°-90°	165.8	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°	1423.7	27.1
0°-40°	2352.5	44.7
0°-60°	4057.8	77.1
0°-90°	5263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1528	1556	1603	1663	1672	145
15°	1470	1626	1754	1864	1891	414
25°	1349	1562	1732	1864	1893	621
35°	1173	1372	1542	1630	1641	732
45°	939	1110	1246	1281	1271	722
55°	658	834	945	948	939	590
65°	392	587	682	679	673	394
75°	205	398	455	437	432	218
85°	63	191	181	154	148	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.5	1528.5	1528.5	1528.5	1528.5
2.5°	1534.6	1536.2	1539.3	1570.1	1576.3
5°	1528.5	1556.2	1602.6	1662.8	1672.0
7.5°	1520.7	1582.5	1661.2	1726.1	1741.5
10°	1506.8	1608.7	1702.9	1784.7	1804.8
12.5°	1489.9	1622.6	1732.3	1828.0	1854.2
15°	1469.8	1625.7	1753.9	1863.5	1891.3
17.5°	1445.1	1621.1	1763.1	1883.6	1914.4
20°	1415.8	1608.7	1764.7	1891.3	1922.2
22.5°	1384.9	1590.2	1755.4	1885.1	1917.5
25°	1349.4	1562.4	1732.3	1863.5	1892.8
27.5°	1309.2	1523.8	1702.9	1826.4	1854.2
30°	1266.0	1479.1	1656.6	1772.4	1795.6
32.5°	1222.8	1429.6	1604.1	1707.6	1721.4
35°	1173.4	1372.5	1542.4	1630.4	1641.2
37.5°	1116.2	1315.4	1472.9	1550.1	1553.2
40°	1059.1	1245.9	1400.3	1457.4	1466.7
42.5°	998.9	1178.0	1324.7	1372.5	1366.3
45°	938.7	1110.1	1245.9	1281.4	1270.6
47.5°	875.4	1040.6	1168.7	1191.9	1184.2
50°	801.3	971.1	1093.1	1105.4	1093.1
52.5°	730.3	904.7	1019.0	1025.1	1014.3
55°	657.7	833.7	944.9	948.0	938.7
57.5°	591.3	767.3	873.8	873.8	869.2
60°	521.8	700.9	807.5	804.4	802.8
62.5°	455.4	642.3	745.7	741.1	736.4
65°	392.2	586.7	682.4	679.3	673.1
67.5°	339.7	534.2	623.7	619.1	616.0
70°	291.8	487.9	568.2	555.8	551.2
72.5°	245.5	441.6	514.1	495.6	497.1
75°	205.3	398.3	455.4	436.9	432.3
77.5°	165.2	353.6	398.3	369.0	362.8
80°	129.7	305.7	333.5	296.4	282.5
82.5°	95.7	253.2	259.4	223.9	214.6
85°	63.3	191.4	180.6	154.4	148.2
87.5°	34.0	112.7	97.3	78.7	74.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)