

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: P183794

Luminaire Tested: **24SR-LD2-53-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-53-C-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5424.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

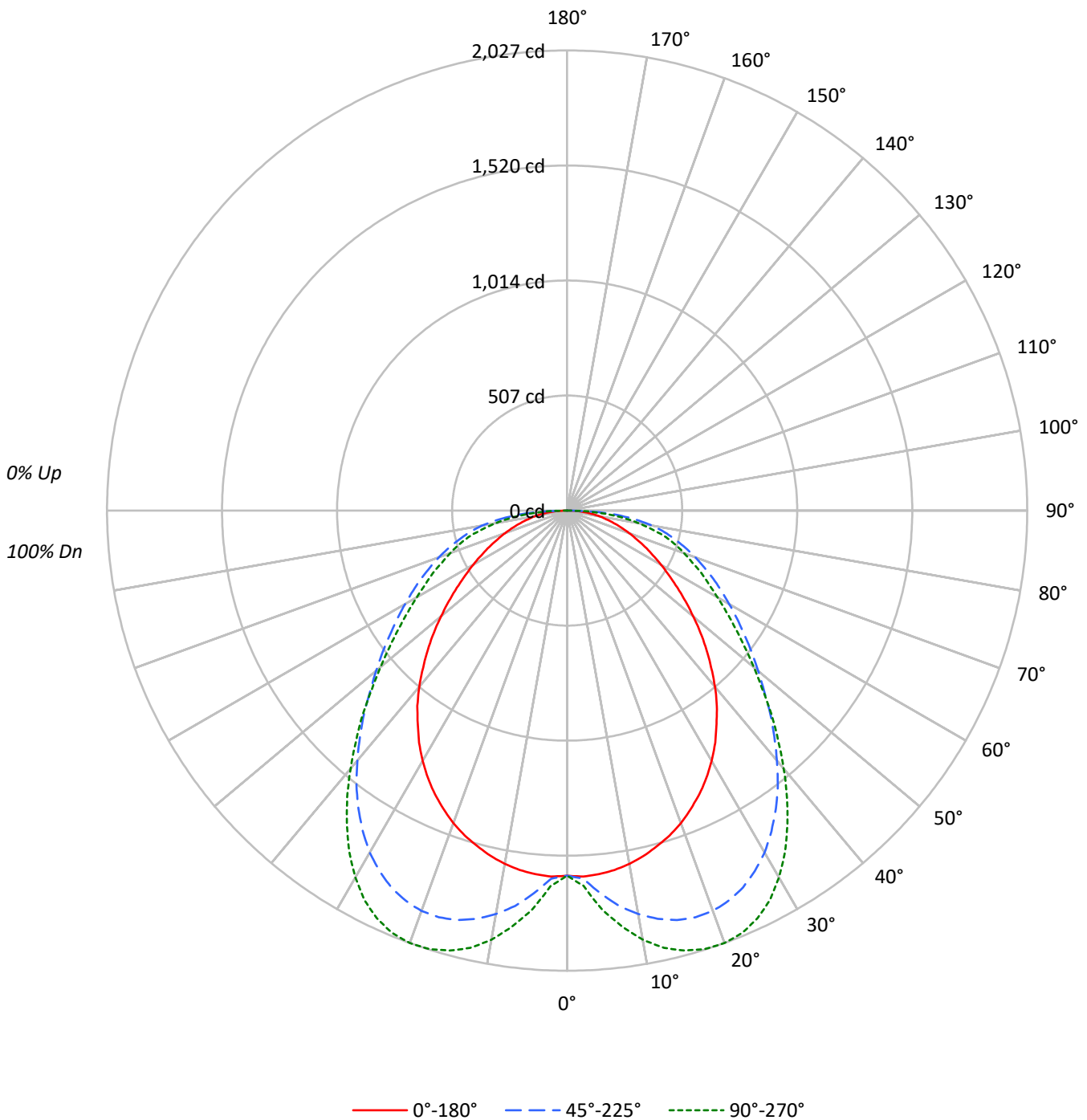
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2164	2164	2164
5°	2172	2287	2382
10°	2159	2465	2622
15°	2131	2601	2795
20°	2098	2687	2902
25°	2046	2720	2943
30°	1977	2703	2898
35°	1884	2632	2778
40°	1780	2525	2606
45°	1653	2408	2425
50°	1516	2300	2245
55°	1391	2234	2121
60°	1286	2218	2059
65°	1203	2259	2076
70°	1144	2361	2157
75°	1107	2562	2340
80°	1120	2943	2469
85°	1173	3432	2688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	3.0
10°-20°	517.5	9.5
20°-30°	816.7	15.1
30°-40°	957.1	17.6
40°-50°	915.7	16.9
50°-60°	780.2	14.4
60°-70°	626.1	11.5
70°-80°	453.2	8.4
80°-90°	193.5	3.6
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°	1498.5	27.6
0°-40°	2455.7	45.3
0°-60°	4151.6	76.5
0°-90°	5424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1608	1638	1693	1753	1764	153
15°	1530	1714	1867	1979	2006	431
25°	1378	1643	1832	1956	1982	634
35°	1147	1428	1602	1688	1691	717
45°	869	1123	1265	1282	1275	670
55°	593	845	952	926	904	532
65°	378	635	710	663	652	376
75°	213	450	493	454	450	226
85°	76	226	222	183	174	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.1	1608.1	1608.1	1608.1	1608.1
2.5°	1613.6	1615.5	1622.9	1654.4	1654.4
5°	1608.1	1637.7	1693.3	1752.6	1763.7
7.5°	1596.9	1663.6	1756.3	1832.2	1847.0
10°	1580.3	1691.4	1804.4	1897.1	1919.3
12.5°	1558.0	1708.1	1841.5	1947.1	1973.0
15°	1530.2	1713.7	1867.4	1978.6	2006.4
17.5°	1500.6	1711.8	1878.5	1997.1	2024.9
20°	1465.4	1697.0	1876.7	2000.8	2026.7
22.5°	1422.8	1676.6	1860.0	1986.0	2013.8
25°	1378.3	1643.3	1832.2	1956.3	1982.3
27.5°	1328.3	1604.4	1789.6	1910.0	1934.1
30°	1272.7	1554.3	1739.6	1847.0	1865.6
32.5°	1213.5	1495.0	1674.8	1772.9	1785.9
35°	1146.8	1428.4	1602.5	1687.7	1691.4
37.5°	1083.8	1356.1	1524.7	1593.2	1591.4
40°	1013.4	1278.3	1437.6	1493.2	1483.9
42.5°	939.3	1200.5	1350.5	1389.5	1376.5
45°	868.9	1122.7	1265.3	1282.0	1274.6
47.5°	796.6	1044.9	1176.4	1189.4	1167.1
50°	724.4	974.5	1098.6	1093.0	1072.7
52.5°	657.7	909.6	1024.5	1007.8	985.6
55°	592.8	844.8	952.2	926.3	904.1
57.5°	531.7	787.4	887.4	852.2	831.8
60°	478.0	731.8	824.4	783.7	765.1
62.5°	426.1	681.8	765.1	722.5	704.0
65°	377.9	635.4	709.5	663.2	652.1
67.5°	331.6	589.1	654.0	609.5	596.5
70°	290.9	541.0	600.2	555.8	548.4
72.5°	250.1	496.5	546.5	505.8	500.2
75°	213.0	450.2	492.8	453.9	450.2
77.5°	176.0	400.2	439.1	392.8	383.5
80°	144.5	350.1	379.8	326.1	318.6
82.5°	109.3	289.0	303.8	255.7	252.0
85°	76.0	226.0	222.3	183.4	174.1
87.5°	40.8	135.2	118.6	94.5	90.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)