

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: P183798

Luminaire Tested: **24SR-LD2-59-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183798
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-LD2-59-C-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: 5917.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

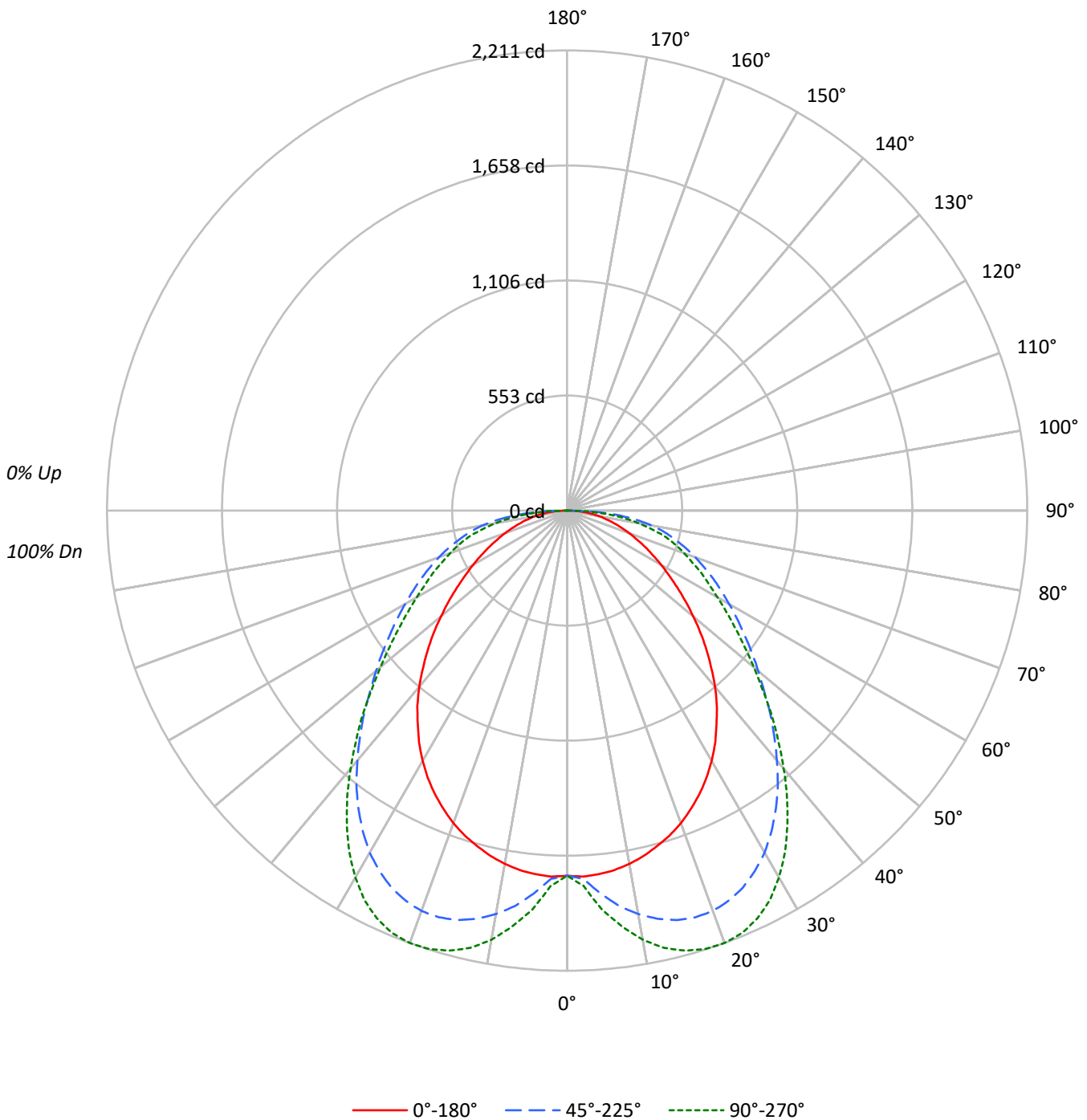
Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183798

CATALOG NUMBER: 24SR-LD2-59-C-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183798

CATALOG NUMBER: 24SR-LD2-59-C-UNV-L835-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	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°	2360	2360	2360
5°	2369	2495	2598
10°	2355	2689	2860
15°	2325	2837	3049
20°	2289	2931	3166
25°	2232	2967	3210
30°	2157	2948	3162
35°	2055	2871	3030
40°	1942	2754	2843
45°	1803	2626	2645
50°	1654	2509	2449
55°	1517	2437	2313
60°	1403	2420	2246
65°	1313	2464	2265
70°	1248	2576	2353
75°	1208	2794	2553
80°	1221	3210	2693
85°	1280	3744	2933



TEST NUMBER: P183798

CATALOG NUMBER: 24SR-LD2-59-C-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.0
10°-20°	564.5	9.5
20°-30°	890.9	15.1
30°-40°	1044.1	17.6
40°-50°	998.8	16.9
50°-60°	851.1	14.4
60°-70°	683.0	11.5
70°-80°	494.4	8.4
80°-90°	211.1	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°	1634.6	27.6
0°-40°	2678.7	45.3
0°-60°	4528.6	76.5
0°-90°	5917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1754	1786	1847	1912	1924	166
15°	1669	1869	2037	2158	2189	471
25°	1504	1792	1999	2134	2162	691
35°	1251	1558	1748	1841	1845	782
45°	948	1225	1380	1398	1390	730
55°	647	922	1039	1010	986	581
65°	412	693	774	724	711	410
75°	232	491	538	495	491	247
85°	83	246	242	200	190	89
90°	0	0	0	0	0	



TEST NUMBER: P183798

CATALOG NUMBER: 24SR-LD2-59-C-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.1	1754.1	1754.1	1754.1	1754.1
2.5°	1760.2	1762.2	1770.3	1804.6	1804.6
5°	1754.1	1786.4	1847.1	1911.7	1923.9
7.5°	1742.0	1814.7	1915.8	1998.6	2014.8
10°	1723.8	1845.0	1968.3	2069.4	2093.6
12.5°	1699.5	1863.2	2008.7	2123.9	2152.2
15°	1669.2	1869.3	2037.0	2158.3	2188.6
17.5°	1636.9	1867.3	2049.1	2178.5	2208.8
20°	1598.5	1851.1	2047.1	2182.5	2210.8
22.5°	1552.0	1828.9	2028.9	2166.4	2196.7
25°	1503.5	1792.5	1998.6	2134.0	2162.3
27.5°	1449.0	1750.1	1952.1	2083.5	2109.8
30°	1388.3	1695.5	1897.6	2014.8	2035.0
32.5°	1323.7	1630.8	1826.9	1934.0	1948.1
35°	1250.9	1558.1	1748.0	1841.0	1845.0
37.5°	1182.2	1479.3	1663.2	1737.9	1735.9
40°	1105.4	1394.4	1568.2	1628.8	1618.7
42.5°	1024.6	1309.5	1473.2	1515.6	1501.5
45°	947.8	1224.6	1380.2	1398.4	1390.3
47.5°	869.0	1139.8	1283.2	1297.4	1273.1
50°	790.2	1063.0	1198.4	1192.3	1170.1
52.5°	717.4	992.2	1117.5	1099.3	1075.1
55°	646.7	921.5	1038.7	1010.4	986.2
57.5°	580.0	858.9	968.0	929.6	907.4
60°	521.4	798.2	899.3	854.8	834.6
62.5°	464.8	743.7	834.6	788.1	767.9
65°	412.3	693.2	774.0	723.5	711.3
67.5°	361.7	642.6	713.4	664.9	650.7
70°	317.3	590.1	654.8	606.3	598.2
72.5°	272.8	541.6	596.2	551.7	545.6
75°	232.4	491.1	537.5	495.1	491.1
77.5°	192.0	436.5	478.9	428.4	418.3
80°	157.6	381.9	414.3	355.7	347.6
82.5°	119.2	315.3	331.4	278.9	274.8
85°	82.9	246.5	242.5	200.1	190.0
87.5°	44.5	147.5	129.3	103.1	99.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)