

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: P183878

Luminaire Tested: **22SR-LD2-20-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-20-S-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2043.3 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

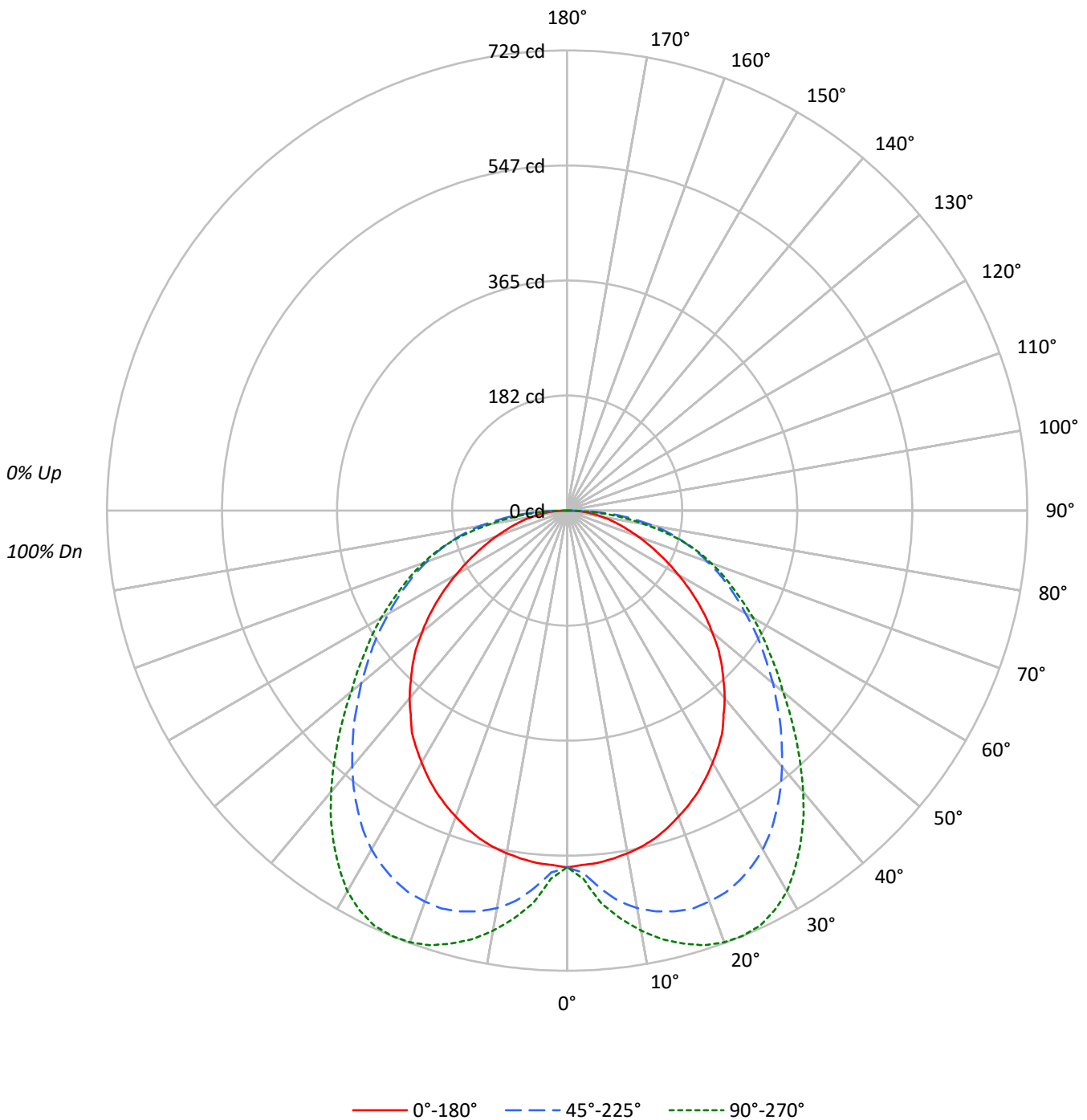
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1520	1520	1520
5°	1513	1622	1688
10°	1506	1747	1847
15°	1497	1831	1978
20°	1477	1887	2084
25°	1459	1919	2152
30°	1432	1926	2164
35°	1408	1901	2117
40°	1364	1861	2043
45°	1318	1818	1952
50°	1256	1782	1868
55°	1183	1763	1832
60°	1093	1758	1832
65°	1012	1792	1843
70°	942	1860	1906
75°	887	1989	1979
80°	851	2159	1931
85°	939	2362	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	2.8
10°-20°	182.2	8.9
20°-30°	290.6	14.2
30°-40°	349.8	17.1
40°-50°	350.9	17.2
50°-60°	313.7	15.4
60°-70°	254.1	12.4
70°-80°	176.9	8.7
80°-90°	67.3	3.3
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°	530.6	26.0
0°-40°	880.5	43.1
0°-60°	1545.0	75.6
0°-90°	2043.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	560	573	600	620	625	53
15°	538	600	657	696	710	151
25°	491	569	646	704	725	226
35°	429	496	579	630	644	267
45°	346	405	478	506	513	267
55°	252	316	376	387	390	225
65°	159	232	282	285	289	158
75°	85	157	191	190	190	91
85°	30	68	76	66	62	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.0	565.0	565.0	565.0	565.0
2.5°	562.0	565.0	573.8	581.6	583.6
5°	560.1	572.8	600.3	619.9	624.8
7.5°	556.1	582.6	623.8	644.4	652.3
10°	551.2	593.4	639.5	666.0	675.8
12.5°	545.4	600.3	650.3	683.7	695.4
15°	537.5	600.3	657.2	696.4	710.1
17.5°	527.7	597.3	661.1	705.2	721.9
20°	515.9	591.5	659.1	710.1	727.8
22.5°	504.2	581.6	655.2	710.1	728.8
25°	491.4	568.9	646.4	704.3	724.9
27.5°	476.7	554.2	634.6	693.5	713.1
30°	461.0	536.5	619.9	677.8	696.4
32.5°	445.3	516.9	601.3	656.2	671.9
35°	428.6	496.3	578.7	629.7	644.4
37.5°	407.1	472.8	555.2	601.3	615.0
40°	388.4	451.2	529.7	570.9	581.6
42.5°	366.8	427.7	503.2	538.5	547.3
45°	346.2	405.1	477.7	506.1	513.0
47.5°	324.7	381.6	450.2	473.8	479.6
50°	300.1	359.0	425.7	445.3	446.3
52.5°	276.6	337.4	399.2	414.9	418.8
55°	252.1	315.8	375.7	387.4	390.4
57.5°	227.6	295.2	351.1	361.0	365.9
60°	203.0	273.7	326.6	335.5	340.4
62.5°	180.5	253.1	304.1	310.0	313.9
65°	158.9	232.5	281.5	285.4	289.4
67.5°	138.3	213.8	259.9	261.9	266.8
70°	119.7	195.2	236.4	238.3	242.3
72.5°	101.0	175.6	214.8	213.8	217.8
75°	85.3	156.9	191.3	190.3	190.3
77.5°	70.6	137.3	166.7	160.9	157.9
80°	54.9	116.7	139.3	127.5	124.6
82.5°	43.2	93.2	107.9	96.1	93.2
85°	30.4	67.7	76.5	65.7	61.8
87.5°	15.7	36.3	39.2	33.3	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)