

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: P183877

Luminaire Tested: **22SR-LD2-20-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183877
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-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

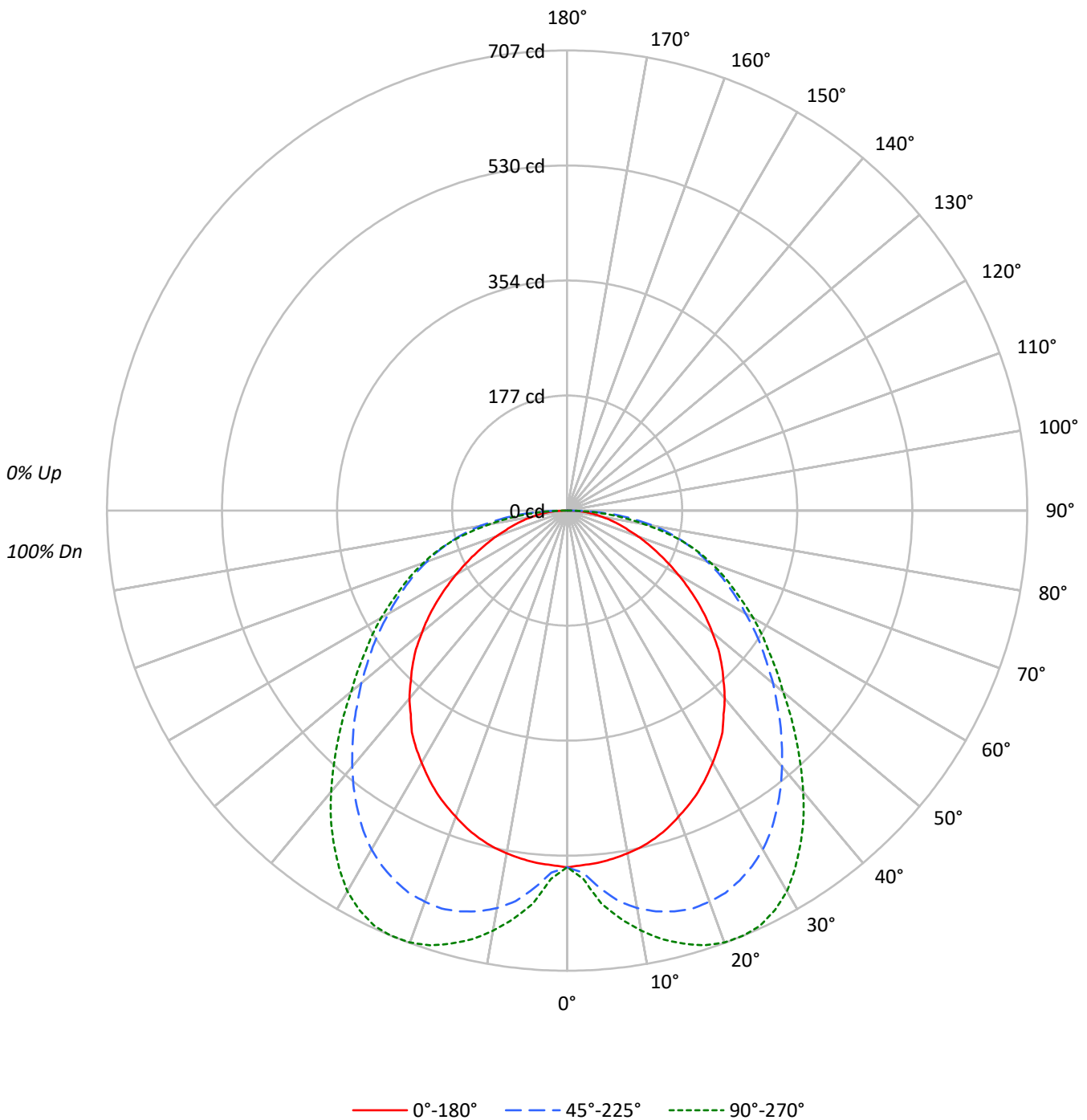
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183877

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183877

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L830-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	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°	1475	1475	1475
5°	1468	1573	1637
10°	1461	1695	1791
15°	1453	1776	1919
20°	1433	1831	2022
25°	1415	1862	2088
30°	1390	1868	2099
35°	1366	1844	2054
40°	1324	1805	1982
45°	1278	1763	1894
50°	1219	1729	1812
55°	1147	1710	1777
60°	1060	1705	1777
65°	981	1739	1787
70°	913	1804	1849
75°	861	1929	1919
80°	826	2094	1872
85°	911	2291	1849



TEST NUMBER: P183877

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	2.8
10°-20°	176.7	8.9
20°-30°	281.9	14.2
30°-40°	339.3	17.1
40°-50°	340.3	17.2
50°-60°	304.2	15.4
60°-70°	246.5	12.4
70°-80°	171.6	8.7
80°-90°	65.3	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°	514.7	26.0
0°-40°	854.0	43.1
0°-60°	1498.6	75.6
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	543	556	582	601	606	52
15°	521	582	638	676	689	147
25°	477	552	627	683	703	219
35°	416	481	561	611	625	259
45°	336	393	463	491	498	259
55°	244	306	364	376	379	218
65°	154	226	273	277	281	153
75°	83	152	186	185	185	88
85°	30	66	74	64	60	31
90°	0	0	0	0	0	



TEST NUMBER: P183877

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.0	548.0	548.0	548.0	548.0
2.5°	545.2	548.0	556.6	564.2	566.1
5°	543.3	555.6	582.3	601.3	606.1
7.5°	539.5	565.2	605.1	625.1	632.7
10°	534.7	575.6	620.3	646.0	655.5
12.5°	529.0	582.3	630.8	663.1	674.6
15°	521.4	582.3	637.5	675.5	688.8
17.5°	511.9	579.4	641.3	684.1	700.3
20°	500.5	573.7	639.4	688.8	706.0
22.5°	489.0	564.2	635.6	688.8	706.9
25°	476.7	551.8	627.0	683.1	703.1
27.5°	462.4	537.6	615.6	672.7	691.7
30°	447.2	520.4	601.3	657.4	675.5
32.5°	432.0	501.4	583.2	636.5	651.7
35°	415.8	481.4	561.3	610.8	625.1
37.5°	394.8	458.6	538.5	583.2	596.5
40°	376.8	437.7	513.8	553.7	564.2
42.5°	355.8	414.8	488.1	522.3	530.9
45°	335.9	392.9	463.3	490.9	497.6
47.5°	314.9	370.1	436.7	459.5	465.3
50°	291.1	348.2	412.9	432.0	432.9
52.5°	268.3	327.3	387.2	402.5	406.3
55°	244.5	306.4	364.4	375.8	378.7
57.5°	220.7	286.4	340.6	350.1	354.9
60°	196.9	265.4	316.8	325.4	330.1
62.5°	175.1	245.5	294.9	300.7	304.5
65°	154.1	225.5	273.1	276.9	280.7
67.5°	134.2	207.4	252.1	254.0	258.8
70°	116.1	189.3	229.3	231.2	235.0
72.5°	98.0	170.3	208.4	207.4	211.2
75°	82.8	152.2	185.5	184.6	184.6
77.5°	68.5	133.2	161.7	156.0	153.2
80°	53.3	113.2	135.1	123.7	120.8
82.5°	41.9	90.4	104.7	93.2	90.4
85°	29.5	65.6	74.2	63.7	59.9
87.5°	15.2	35.2	38.1	32.3	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)