

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: P183873

Luminaire Tested: **22SR-LD2-19-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183873
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-LD2-19-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: 1951.7 lumens
Efficiency: N/A
Efficacy: 132.8 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

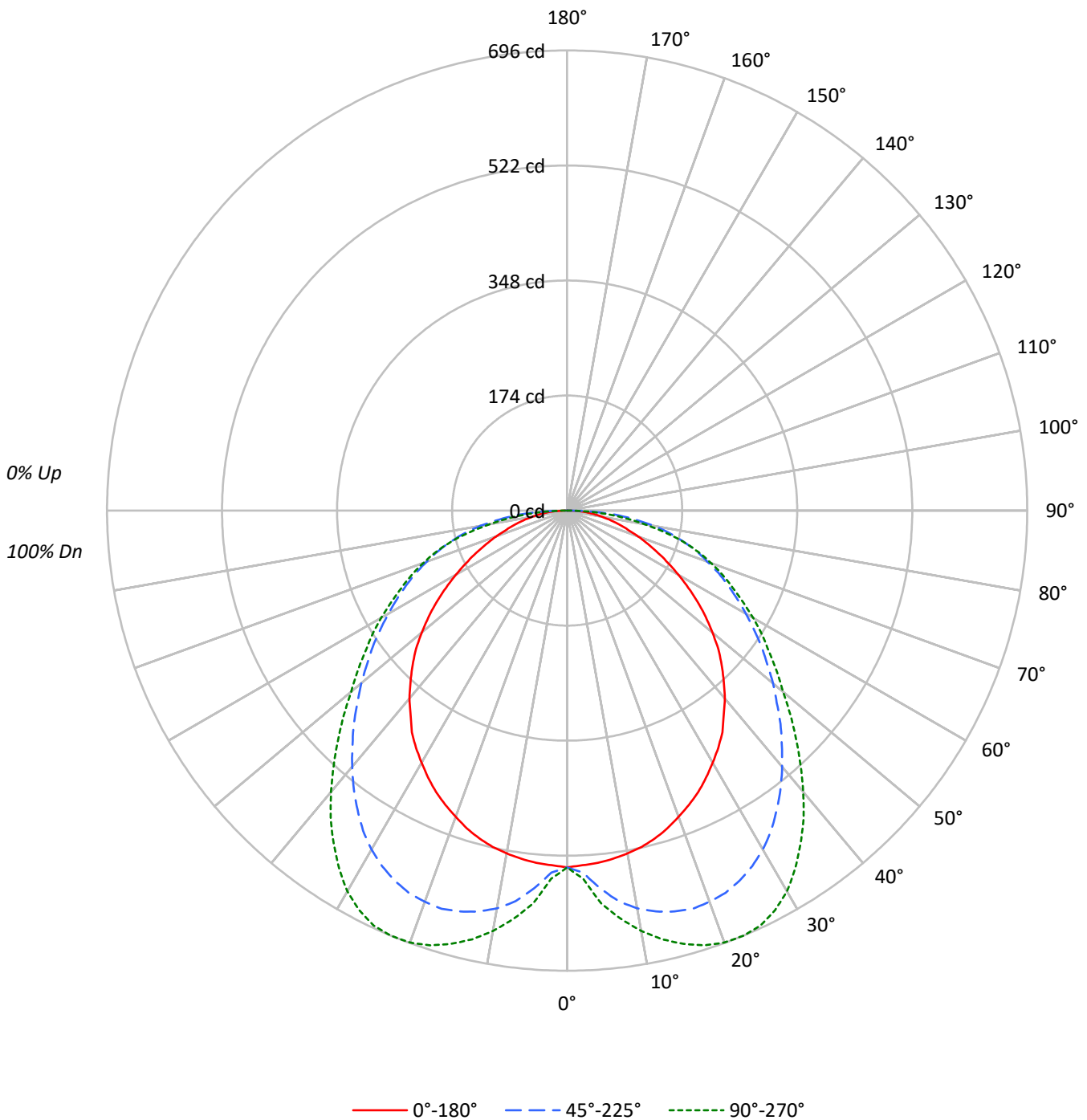
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183873

CATALOG NUMBER: 22SR-LD2-19-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183873

CATALOG NUMBER: 22SR-LD2-19-S-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	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°	1452	1452	1452
5°	1445	1549	1612
10°	1439	1669	1764
15°	1430	1749	1890
20°	1411	1803	1991
25°	1394	1833	2056
30°	1368	1840	2067
35°	1345	1816	2022
40°	1303	1777	1952
45°	1259	1737	1865
50°	1200	1702	1785
55°	1130	1683	1749
60°	1044	1679	1750
65°	967	1712	1760
70°	899	1777	1821
75°	847	1900	1890
80°	814	2061	1844
85°	895	2257	1822



TEST NUMBER: P183873

CATALOG NUMBER: 22SR-LD2-19-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	2.8
10°-20°	174.0	8.9
20°-30°	277.6	14.2
30°-40°	334.1	17.1
40°-50°	335.1	17.2
50°-60°	299.6	15.4
60°-70°	242.7	12.4
70°-80°	169.0	8.7
80°-90°	64.3	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°	506.8	26.0
0°-40°	841.0	43.1
0°-60°	1475.7	75.6
0°-90°	1951.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	535	547	573	592	597	51
15°	513	573	628	665	678	145
25°	469	543	617	673	692	216
35°	409	474	553	602	616	255
45°	331	387	456	483	490	255
55°	241	302	359	370	373	215
65°	152	222	269	273	276	151
75°	82	150	183	182	182	87
85°	29	65	73	63	59	30
90°	0	0	0	0	0	



TEST NUMBER: P183873

CATALOG NUMBER: 22SR-LD2-19-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.6	539.6	539.6	539.6	539.6
2.5°	536.8	539.6	548.1	555.6	557.4
5°	535.0	547.1	573.4	592.1	596.8
7.5°	531.2	556.5	595.9	615.5	623.0
10°	526.5	566.8	610.8	636.1	645.5
12.5°	520.9	573.4	621.1	653.0	664.2
15°	513.4	573.4	627.7	665.2	678.3
17.5°	504.0	570.6	631.5	673.6	689.5
20°	492.8	564.9	629.6	678.3	695.2
22.5°	481.6	555.6	625.8	678.3	696.1
25°	469.4	543.4	617.4	672.7	692.4
27.5°	455.3	529.3	606.2	662.4	681.1
30°	440.3	512.5	592.1	647.4	665.2
32.5°	425.3	493.7	574.3	626.8	641.8
35°	409.4	474.1	552.8	601.5	615.5
37.5°	388.8	451.6	530.3	574.3	587.4
40°	371.0	431.0	505.9	545.3	555.6
42.5°	350.4	408.5	480.6	514.3	522.8
45°	330.7	386.9	456.3	483.4	490.0
47.5°	310.1	364.4	430.0	452.5	458.1
50°	286.7	342.9	406.6	425.3	426.3
52.5°	264.2	322.3	381.3	396.3	400.0
55°	240.8	301.7	358.8	370.1	372.9
57.5°	217.4	282.0	335.4	344.8	349.5
60°	193.9	261.4	312.0	320.4	325.1
62.5°	172.4	241.7	290.4	296.1	299.8
65°	151.8	222.0	268.9	272.6	276.4
67.5°	132.1	204.2	248.3	250.1	254.8
70°	114.3	186.4	225.8	227.7	231.4
72.5°	96.5	167.7	205.2	204.2	208.0
75°	81.5	149.9	182.7	181.8	181.8
77.5°	67.5	131.2	159.3	153.6	150.8
80°	52.5	111.5	133.0	121.8	119.0
82.5°	41.2	89.0	103.1	91.8	89.0
85°	29.0	64.6	73.1	62.8	59.0
87.5°	15.0	34.7	37.5	31.9	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)