

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: P183874

Luminaire Tested: **22SR-LD2-19-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183874
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1990.7 lumens
Efficiency: N/A
Efficacy: 135.4 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

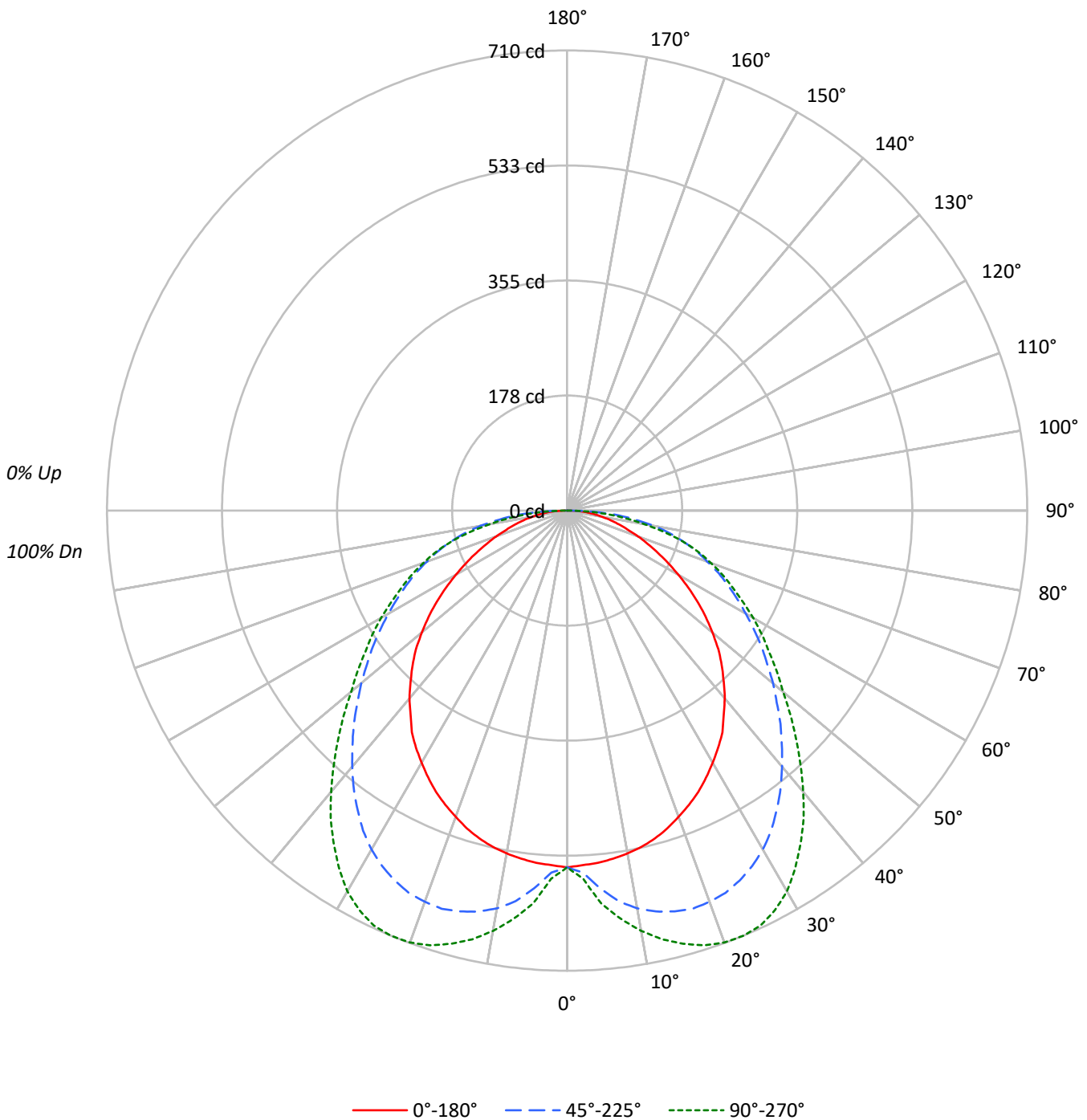
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1481	1481	1481
5°	1474	1580	1644
10°	1468	1703	1799
15°	1459	1784	1928
20°	1440	1839	2031
25°	1422	1870	2097
30°	1395	1876	2108
35°	1372	1852	2062
40°	1329	1813	1991
45°	1284	1771	1902
50°	1224	1736	1820
55°	1152	1717	1784
60°	1065	1713	1785
65°	986	1747	1795
70°	917	1812	1857
75°	864	1937	1928
80°	829	2103	1881
85°	914	2300	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	2.8
10°-20°	177.5	8.9
20°-30°	283.1	14.2
30°-40°	340.8	17.1
40°-50°	341.8	17.2
50°-60°	305.6	15.4
60°-70°	247.6	12.4
70°-80°	172.4	8.7
80°-90°	65.5	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°	517.0	26.0
0°-40°	857.8	43.1
0°-60°	1505.2	75.6
0°-90°	1990.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	546	558	585	604	609	52
15°	524	585	640	678	692	148
25°	479	554	630	686	706	220
35°	418	484	564	614	628	260
45°	337	395	465	493	500	260
55°	246	308	366	378	380	219
65°	155	226	274	278	282	154
75°	83	153	186	185	185	88
85°	30	66	74	64	60	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	550.4	550.4	550.4	550.4	550.4
2.5°	547.6	550.4	559.0	566.7	568.6
5°	545.7	558.1	584.8	603.9	608.7
7.5°	541.8	567.6	607.8	627.8	635.5
10°	537.1	578.1	623.1	648.9	658.4
12.5°	531.3	584.8	633.6	666.1	677.5
15°	523.7	584.8	640.3	678.5	691.9
17.5°	514.1	582.0	644.1	687.1	703.3
20°	502.7	576.2	642.2	691.9	709.1
22.5°	491.2	566.7	638.3	691.9	710.0
25°	478.8	554.3	629.7	686.1	706.2
27.5°	464.4	539.9	618.3	675.6	694.7
30°	449.1	522.7	603.9	660.3	678.5
32.5°	433.8	503.6	585.8	639.3	654.6
35°	417.6	483.5	563.8	613.5	627.8
37.5°	396.6	460.6	540.9	585.8	599.2
40°	378.4	439.6	516.0	556.2	566.7
42.5°	357.4	416.6	490.2	524.6	533.2
45°	337.3	394.7	465.4	493.1	499.8
47.5°	316.3	371.7	438.6	461.6	467.3
50°	292.4	349.8	414.7	433.8	434.8
52.5°	269.5	328.7	388.9	404.2	408.0
55°	245.6	307.7	366.0	377.5	380.3
57.5°	221.7	287.6	342.1	351.7	356.4
60°	197.8	266.6	318.2	326.8	331.6
62.5°	175.8	246.5	296.2	302.0	305.8
65°	154.8	226.5	274.3	278.1	281.9
67.5°	134.7	208.3	253.2	255.1	259.9
70°	116.6	190.2	230.3	232.2	236.0
72.5°	98.4	171.1	209.3	208.3	212.1
75°	83.1	152.9	186.3	185.4	185.4
77.5°	68.8	133.8	162.5	156.7	153.9
80°	53.5	113.7	135.7	124.2	121.4
82.5°	42.0	90.8	105.1	93.6	90.8
85°	29.6	65.9	74.5	64.0	60.2
87.5°	15.3	35.4	38.2	32.5	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)