

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: P183875

Luminaire Tested: **22SR-LD2-19-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183875
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-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2166.4 lumens
Efficiency: N/A
Efficacy: 147.4 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

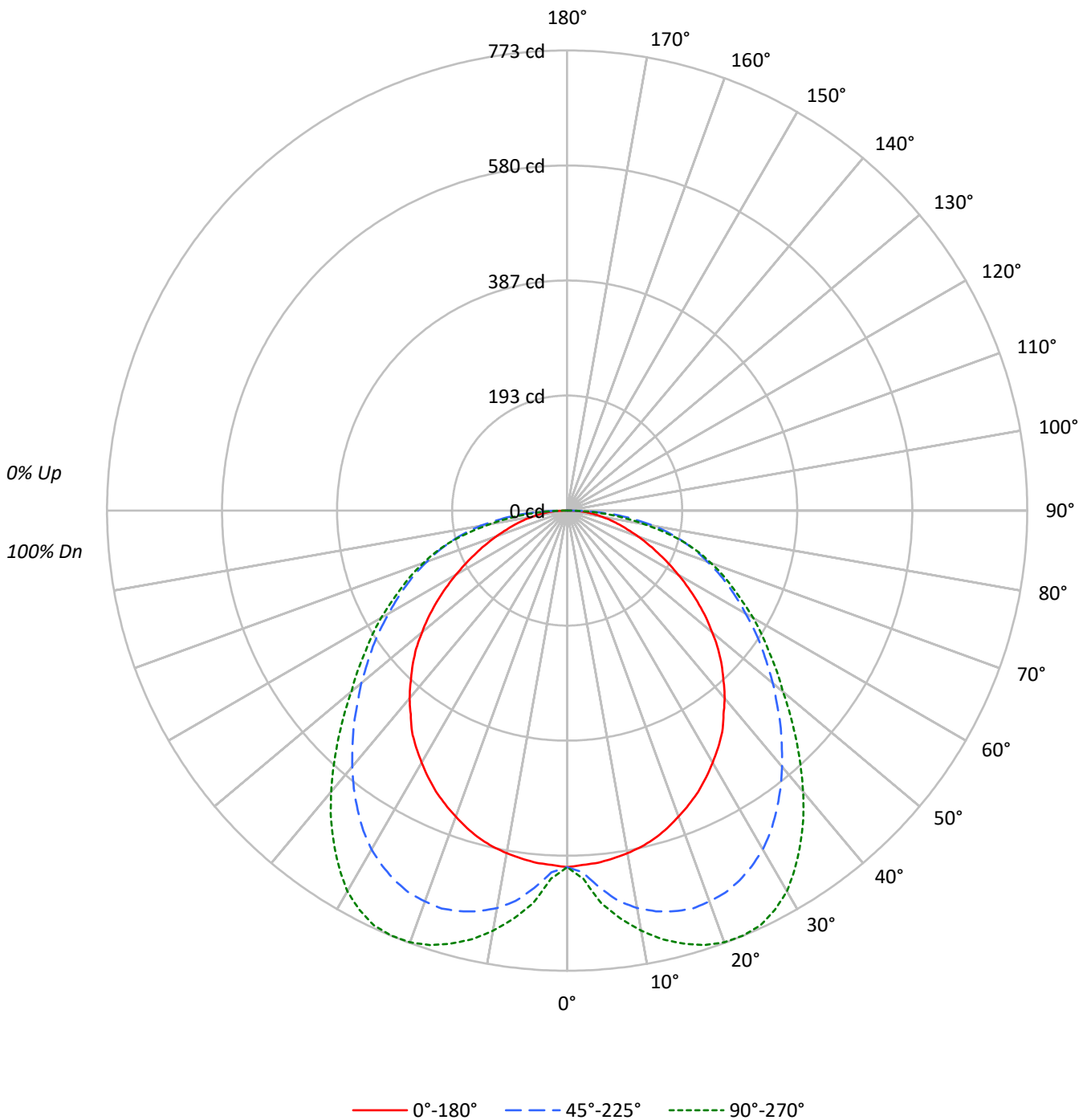
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1612	1612	1612
5°	1604	1719	1789
10°	1597	1853	1958
15°	1588	1941	2098
20°	1566	2001	2210
25°	1547	2035	2282
30°	1519	2042	2294
35°	1493	2016	2244
40°	1447	1973	2166
45°	1397	1927	2070
50°	1332	1889	1981
55°	1254	1869	1942
60°	1159	1864	1942
65°	1073	1901	1954
70°	998	1972	2021
75°	941	2109	2097
80°	902	2289	2047
85°	994	2504	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	2.8
10°-20°	193.1	8.9
20°-30°	308.1	14.2
30°-40°	370.9	17.1
40°-50°	372.0	17.2
50°-60°	332.6	15.4
60°-70°	269.4	12.4
70°-80°	187.6	8.7
80°-90°	71.3	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°	562.6	26.0
0°-40°	933.5	43.1
0°-60°	1638.0	75.6
0°-90°	2166.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	594	607	636	657	662	56
15°	570	636	697	738	753	161
25°	521	603	685	747	768	240
35°	454	526	614	668	683	283
45°	367	430	506	537	544	283
55°	267	335	398	411	414	239
65°	168	246	298	303	307	168
75°	90	166	203	202	202	96
85°	32	72	81	70	66	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.0	599.0	599.0	599.0	599.0
2.5°	595.9	599.0	608.4	616.7	618.8
5°	593.8	607.3	636.4	657.2	662.4
7.5°	589.6	617.7	661.4	683.2	691.6
10°	584.4	629.2	678.0	706.1	716.5
12.5°	578.2	636.4	689.5	724.8	737.3
15°	569.9	636.4	696.8	738.4	752.9
17.5°	559.5	633.3	700.9	747.7	765.4
20°	547.0	627.1	698.8	752.9	771.6
22.5°	534.5	616.7	694.7	752.9	772.7
25°	521.0	603.2	685.3	746.7	768.5
27.5°	505.4	587.6	672.8	735.2	756.0
30°	488.8	568.8	657.2	718.6	738.4
32.5°	472.1	548.0	637.5	695.7	712.4
35°	454.4	526.2	613.6	667.6	683.2
37.5°	431.6	501.2	588.6	637.5	652.0
40°	411.8	478.4	561.6	605.2	616.7
42.5°	388.9	453.4	533.5	570.9	580.3
45°	367.1	429.5	506.4	536.6	543.9
47.5°	344.2	404.5	477.3	502.3	508.5
50°	318.2	380.6	451.3	472.1	473.2
52.5°	293.3	357.7	423.3	439.9	444.1
55°	267.3	334.9	398.3	410.8	413.9
57.5°	241.3	313.0	372.3	382.7	387.9
60°	215.3	290.1	346.3	355.7	360.9
62.5°	191.3	268.3	322.4	328.6	332.8
65°	168.5	246.5	298.5	302.6	306.8
67.5°	146.6	226.7	275.6	277.7	282.9
70°	126.9	206.9	250.6	252.7	256.9
72.5°	107.1	186.1	227.7	226.7	230.9
75°	90.5	166.4	202.8	201.7	201.7
77.5°	74.9	145.6	176.8	170.5	167.4
80°	58.2	123.8	147.7	135.2	132.1
82.5°	45.8	98.8	114.4	101.9	98.8
85°	32.2	71.8	81.1	69.7	65.5
87.5°	16.6	38.5	41.6	35.4	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)