

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: P183872

Luminaire Tested: **22SR-LD2-19-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183872
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-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: 1893.1 lumens
Efficiency: N/A
Efficacy: 128.8 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

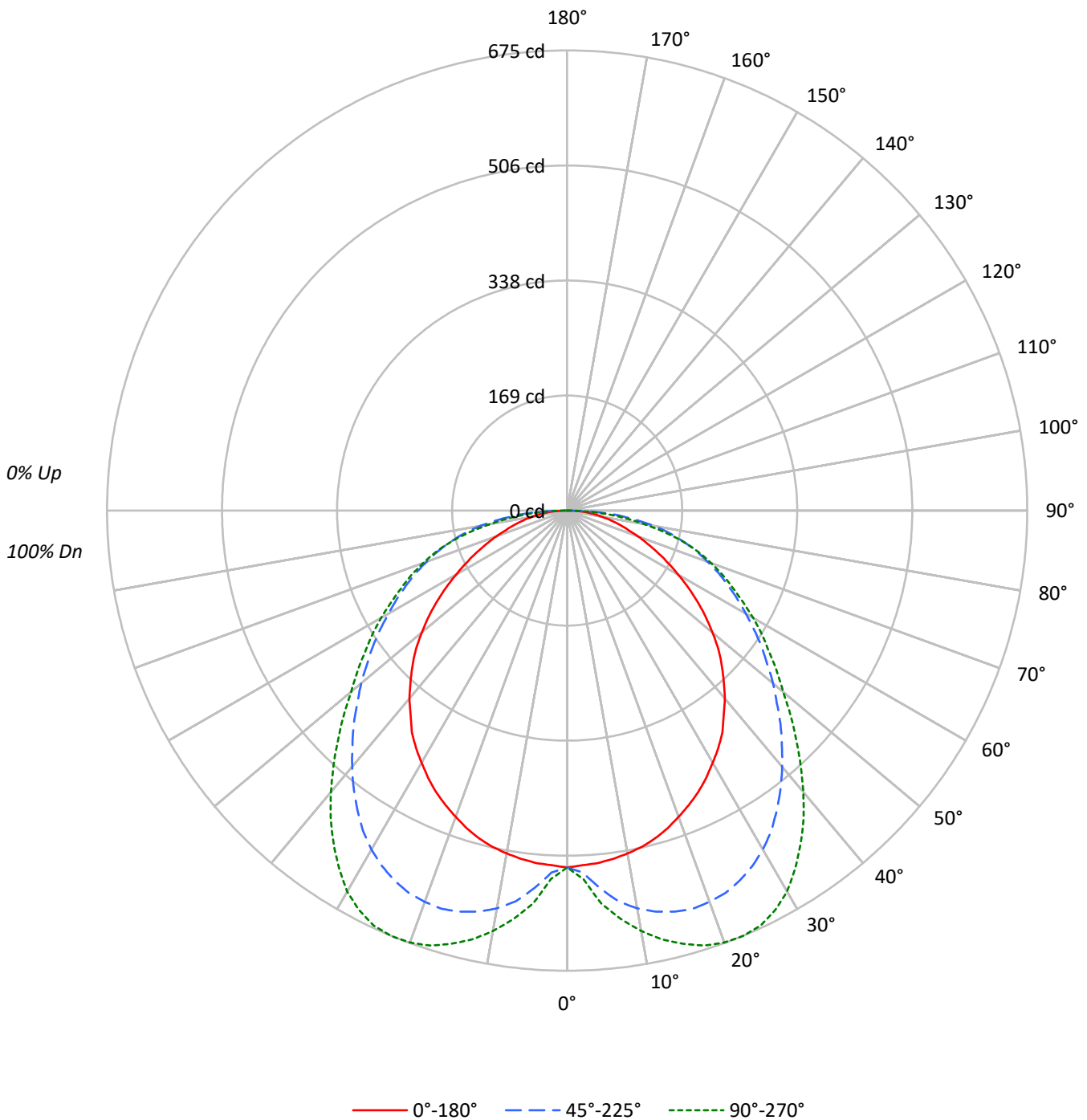
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1409	1409	1409
5°	1402	1502	1564
10°	1395	1619	1711
15°	1387	1696	1833
20°	1369	1749	1931
25°	1352	1778	1994
30°	1327	1785	2005
35°	1305	1761	1962
40°	1264	1724	1893
45°	1221	1684	1809
50°	1164	1651	1731
55°	1096	1633	1697
60°	1012	1629	1697
65°	937	1661	1707
70°	873	1723	1766
75°	822	1842	1833
80°	789	1999	1788
85°	871	2189	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	2.8
10°-20°	168.8	8.9
20°-30°	269.3	14.2
30°-40°	324.1	17.1
40°-50°	325.1	17.2
50°-60°	290.6	15.4
60°-70°	235.4	12.4
70°-80°	163.9	8.7
80°-90°	62.3	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°	491.6	26.0
0°-40°	815.7	43.1
0°-60°	1431.4	75.6
0°-90°	1893.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	519	531	556	574	579	49
15°	498	556	609	645	658	140
25°	455	527	599	652	672	210
35°	397	460	536	583	597	247
45°	321	375	443	469	475	247
55°	234	293	348	359	362	209
65°	147	215	261	264	268	146
75°	79	145	177	176	176	84
85°	28	63	71	61	57	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.5	523.5	523.5	523.5	523.5
2.5°	520.7	523.5	531.6	538.9	540.7
5°	518.9	530.7	556.2	574.3	578.9
7.5°	515.3	539.8	578.0	597.1	604.3
10°	510.7	549.8	592.5	617.1	626.1
12.5°	505.3	556.2	602.5	633.4	644.3
15°	498.0	556.2	608.9	645.2	657.9
17.5°	488.9	553.4	612.5	653.4	668.9
20°	478.0	548.0	610.7	657.9	674.3
22.5°	467.1	538.9	607.1	657.9	675.2
25°	455.3	527.1	598.9	652.5	671.6
27.5°	441.7	513.5	588.0	642.5	660.7
30°	427.1	497.1	574.3	628.0	645.2
32.5°	412.6	478.9	557.1	608.0	622.5
35°	397.1	459.8	536.2	583.4	597.1
37.5°	377.1	438.0	514.4	557.1	569.8
40°	359.9	418.0	490.7	528.9	538.9
42.5°	339.9	396.2	466.2	498.9	507.1
45°	320.8	375.3	442.6	468.9	475.3
47.5°	300.8	353.5	417.1	438.9	444.4
50°	278.1	332.6	394.4	412.6	413.5
52.5°	256.3	312.6	369.9	384.4	388.0
55°	233.6	292.6	348.1	359.0	361.7
57.5°	210.8	273.5	325.3	334.4	339.0
60°	188.1	253.5	302.6	310.8	315.3
62.5°	167.2	234.5	281.7	287.2	290.8
65°	147.2	215.4	260.8	264.5	268.1
67.5°	128.1	198.1	240.8	242.6	247.2
70°	110.9	180.8	219.0	220.8	224.5
72.5°	93.6	162.7	199.0	198.1	201.7
75°	79.1	145.4	177.2	176.3	176.3
77.5°	65.4	127.2	154.5	149.0	146.3
80°	50.9	108.1	129.0	118.1	115.4
82.5°	40.0	86.3	100.0	89.1	86.3
85°	28.2	62.7	70.9	60.9	57.3
87.5°	14.5	33.6	36.4	30.9	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)