

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: P387729

Luminaire Tested: **22CZ2-24-SQR-UNV-L950-CD1-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P387729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24-SQR-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2081.5 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

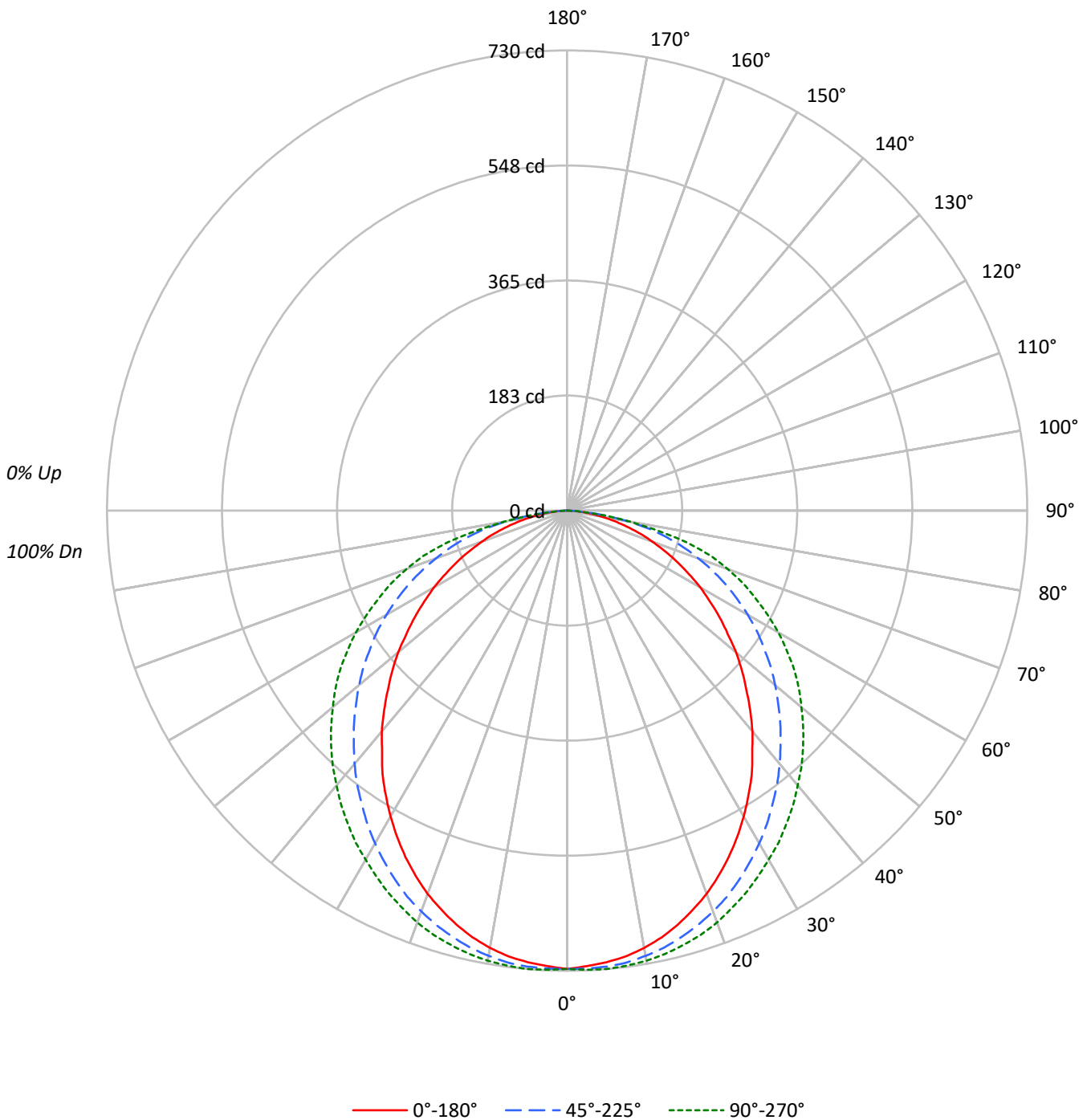
Input Watts (W): 21.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1957	1957	1957
5°	1943	1961	1972
10°	1925	1960	1981
15°	1894	1951	1987
20°	1853	1938	1992
25°	1801	1918	1989
30°	1741	1894	1986
35°	1678	1866	1993
40°	1607	1843	1999
45°	1530	1820	2015
50°	1464	1803	2031
55°	1386	1789	2062
60°	1313	1781	2084
65°	1226	1768	2101
70°	1127	1741	2130
75°	1017	1695	2054
80°	872	1500	1547
85°	701	886	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.3
10°-20°	197.1	9.5
20°-30°	296.0	14.2
30°-40°	353.0	17.0
40°-50°	365.0	17.5
50°-60°	335.6	16.1
60°-70°	267.1	12.8
70°-80°	163.2	7.8
80°-90°	35.5	1.7
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°	562.0	27.0
0°-40°	915.1	44.0
0°-60°	1615.7	77.6
0°-90°	2081.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	719	721	726	729	730	68
15°	680	688	700	710	713	191
25°	607	621	646	664	670	279
35°	511	532	568	598	607	319
45°	402	431	478	517	530	311
55°	295	328	381	425	440	264
65°	193	225	278	316	330	191
75°	98	126	163	192	198	104
85°	23	28	29	25	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.1	727.1	727.1	727.1	727.1
2.5°	723.2	724.2	727.1	729.1	729.1
5°	719.2	721.2	726.1	729.1	730.1
7.5°	713.3	716.3	723.2	727.1	728.1
10°	704.4	708.3	717.2	723.2	725.1
12.5°	693.5	699.5	710.3	718.2	720.2
15°	679.7	687.6	700.4	710.3	713.3
17.5°	663.9	673.8	689.6	701.4	705.4
20°	647.1	657.0	676.7	690.6	695.5
22.5°	627.3	640.2	662.9	678.7	682.7
25°	606.6	621.4	646.1	663.9	669.8
27.5°	583.9	601.7	628.3	650.1	655.0
30°	560.2	578.9	609.6	633.3	639.2
32.5°	535.5	557.2	589.8	616.5	624.4
35°	510.8	532.5	568.1	597.7	606.6
37.5°	482.1	507.8	547.3	577.9	588.8
40°	457.4	482.1	524.6	558.2	569.0
42.5°	429.8	456.4	500.9	537.4	550.3
45°	402.1	430.7	478.2	516.7	529.5
47.5°	376.4	405.1	454.4	495.0	507.8
50°	349.7	379.4	430.7	472.2	485.1
52.5°	321.1	353.7	407.0	448.5	463.3
55°	295.4	328.0	381.3	424.8	439.6
57.5°	268.7	302.3	357.6	399.1	413.0
60°	244.0	276.6	331.0	371.5	387.3
62.5°	217.3	250.9	304.3	343.8	358.6
65°	192.6	225.2	277.6	316.1	330.0
67.5°	167.9	200.6	249.9	286.5	302.3
70°	143.3	175.9	221.3	256.9	270.7
72.5°	121.5	150.2	193.6	226.2	239.1
75°	97.8	126.5	163.0	191.7	197.6
77.5°	76.1	101.8	132.4	145.2	147.2
80°	56.3	76.1	96.8	99.8	99.8
82.5°	37.5	52.4	60.3	61.3	60.3
85°	22.7	27.7	28.7	24.7	22.7
87.5°	7.9	7.9	4.9	3.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)