

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: P387721

Luminaire Tested: **22CZ2-24-SQR-UNV-L930-CD1-SWPD1-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: P387721
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-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1917.3 lumens
Efficiency: N/A
Efficacy: 87.5 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

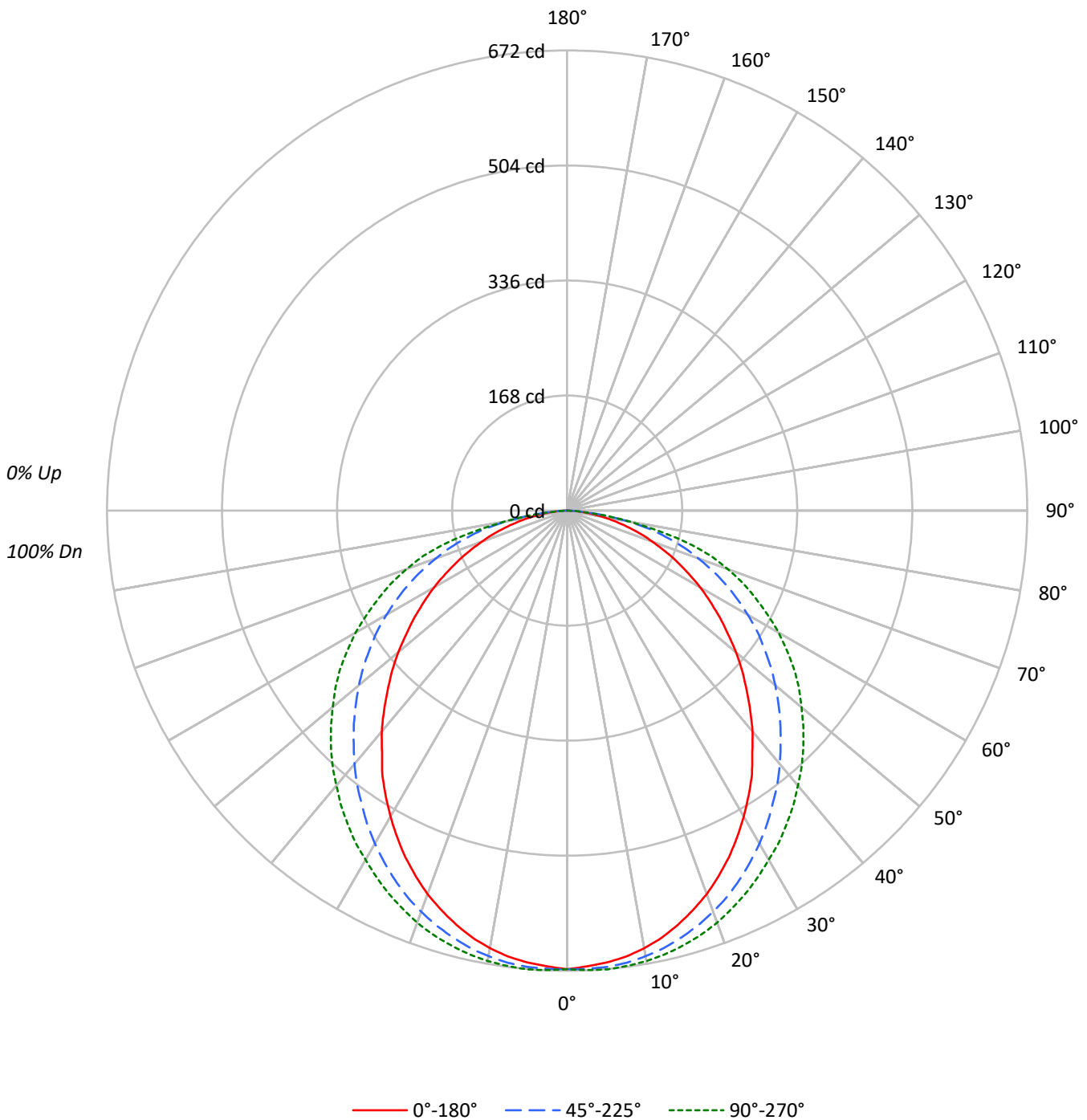
Input Watts (W): 21.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1802	1802	1802
5°	1790	1807	1817
10°	1773	1805	1825
15°	1744	1797	1830
20°	1707	1785	1834
25°	1659	1767	1832
30°	1603	1745	1830
35°	1546	1719	1835
40°	1480	1697	1841
45°	1410	1676	1856
50°	1348	1661	1870
55°	1277	1648	1900
60°	1210	1640	1920
65°	1130	1628	1935
70°	1038	1603	1961
75°	937	1561	1892
80°	804	1382	1424
85°	645	815	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.3
10°-20°	181.5	9.5
20°-30°	272.7	14.2
30°-40°	325.2	17.0
40°-50°	336.2	17.5
50°-60°	309.1	16.1
60°-70°	246.1	12.8
70°-80°	150.3	7.8
80°-90°	32.7	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°	517.7	27.0
0°-40°	842.9	44.0
0°-60°	1488.2	77.6
0°-90°	1917.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	662	664	669	672	672	63
15°	626	633	645	654	657	176
25°	559	572	595	612	617	257
35°	470	490	523	550	559	294
45°	370	397	440	476	488	286
55°	272	302	351	391	405	243
65°	177	208	256	291	304	176
75°	90	116	150	176	182	96
85°	21	26	26	23	21	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.8	669.8	669.8	669.8	669.8
2.5°	666.1	667.0	669.8	671.6	671.6
5°	662.5	664.3	668.8	671.6	672.5
7.5°	657.0	659.7	666.1	669.8	670.7
10°	648.8	652.5	660.7	666.1	667.9
12.5°	638.8	644.3	654.3	661.6	663.4
15°	626.1	633.4	645.2	654.3	657.0
17.5°	611.5	620.6	635.2	646.1	649.7
20°	596.0	605.1	623.3	636.1	640.6
22.5°	577.8	589.7	610.6	625.2	628.8
25°	558.7	572.4	595.1	611.5	617.0
27.5°	537.8	554.2	578.8	598.8	603.3
30°	516.0	533.3	561.5	583.3	588.8
32.5°	493.2	513.2	543.3	567.8	575.1
35°	470.5	490.5	523.2	550.5	558.7
37.5°	444.1	467.7	504.1	532.3	542.4
40°	421.3	444.1	483.2	514.1	524.2
42.5°	395.8	420.4	461.4	495.0	506.9
45°	370.4	396.8	440.4	475.9	487.8
47.5°	346.7	373.1	418.6	455.9	467.7
50°	322.1	349.4	396.8	435.0	446.8
52.5°	295.7	325.8	374.9	413.1	426.8
55°	272.1	302.1	351.3	391.3	404.9
57.5°	247.5	278.5	329.4	367.6	380.4
60°	224.8	254.8	304.8	342.2	356.7
62.5°	200.2	231.1	280.3	316.7	330.3
65°	177.4	207.5	255.7	291.2	303.9
67.5°	154.7	184.7	230.2	263.9	278.5
70°	131.9	162.0	203.8	236.6	249.3
72.5°	111.9	138.3	178.4	208.4	220.2
75°	90.1	116.5	150.1	176.5	182.0
77.5°	70.1	93.7	121.9	133.8	135.6
80°	51.9	70.1	89.2	91.9	91.9
82.5°	34.6	48.2	55.5	56.4	55.5
85°	20.9	25.5	26.4	22.7	20.9
87.5°	7.3	7.3	4.5	2.7	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)