

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: P387648

Luminaire Tested: **22CZ2-20-SQR-UNV-L930-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: P387648
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: 22CZ2-20-SQR-UNV-L930-CD1-SDWPD1-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: 1624.3 lumens
Efficiency: N/A
Efficacy: 90.7 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

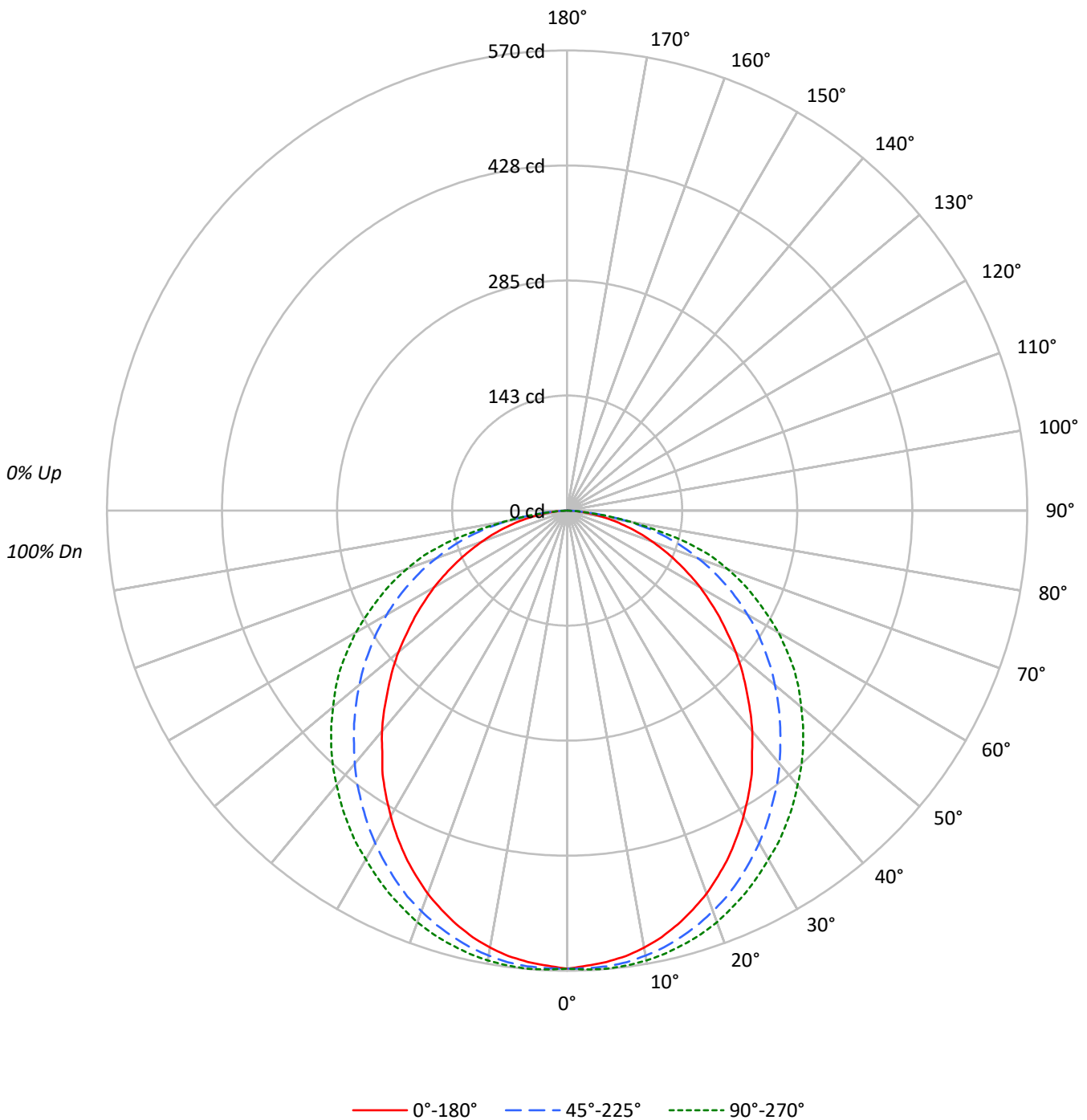
Input Watts (W): 17.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1527	1527	1527
5°	1516	1531	1539
10°	1502	1529	1546
15°	1478	1523	1551
20°	1446	1512	1554
25°	1406	1497	1552
30°	1358	1478	1550
35°	1309	1456	1555
40°	1254	1438	1560
45°	1194	1420	1572
50°	1142	1407	1585
55°	1081	1396	1610
60°	1025	1390	1626
65°	957	1379	1640
70°	880	1359	1662
75°	793	1323	1603
80°	680	1172	1207
85°	546	692	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	3.3
10°-20°	153.8	9.5
20°-30°	231.0	14.2
30°-40°	275.5	17.0
40°-50°	284.8	17.5
50°-60°	261.9	16.1
60°-70°	208.5	12.8
70°-80°	127.4	7.8
80°-90°	27.7	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°	438.6	27.0
0°-40°	714.1	44.0
0°-60°	1260.8	77.6
0°-90°	1624.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	561	563	567	569	570	53
15°	530	537	547	554	557	149
25°	473	485	504	518	523	218
35°	399	416	443	466	473	249
45°	314	336	373	403	413	243
55°	230	256	298	332	343	206
65°	150	176	217	247	258	149
75°	76	99	127	150	154	81
85°	18	22	22	19	18	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.4	567.4	567.4	567.4	567.4
2.5°	564.3	565.1	567.4	568.9	568.9
5°	561.2	562.8	566.6	568.9	569.7
7.5°	556.6	558.9	564.3	567.4	568.2
10°	549.7	552.8	559.7	564.3	565.9
12.5°	541.2	545.8	554.3	560.5	562.0
15°	530.4	536.6	546.6	554.3	556.6
17.5°	518.1	525.8	538.1	547.4	550.4
20°	505.0	512.7	528.1	538.9	542.7
22.5°	489.5	499.6	517.3	529.6	532.7
25°	473.4	484.9	504.2	518.1	522.7
27.5°	455.6	469.5	490.3	507.3	511.1
30°	437.1	451.8	475.7	494.2	498.8
32.5°	417.8	434.8	460.2	481.1	487.2
35°	398.6	415.5	443.3	466.4	473.4
37.5°	376.2	396.3	427.1	451.0	459.5
40°	356.9	376.2	409.4	435.6	444.1
42.5°	335.4	356.2	390.9	419.4	429.4
45°	313.8	336.1	373.1	403.2	413.2
47.5°	293.7	316.1	354.6	386.2	396.3
50°	272.9	296.0	336.1	368.5	378.5
52.5°	250.6	276.0	317.6	350.0	361.6
55°	230.5	255.9	297.6	331.5	343.1
57.5°	209.7	235.9	279.1	311.5	322.3
60°	190.4	215.9	258.3	289.9	302.2
62.5°	169.6	195.8	237.4	268.3	279.8
65°	150.3	175.8	216.6	246.7	257.5
67.5°	131.1	156.5	195.0	223.6	235.9
70°	111.8	137.2	172.7	200.4	211.2
72.5°	94.8	117.2	151.1	176.5	186.6
75°	76.3	98.7	127.2	149.6	154.2
77.5°	59.4	79.4	103.3	113.3	114.9
80°	43.9	59.4	75.6	77.9	77.9
82.5°	29.3	40.9	47.0	47.8	47.0
85°	17.7	21.6	22.4	19.3	17.7
87.5°	6.2	6.2	3.9	2.3	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)