

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: P387826

Luminaire Tested: **22CZ2-29VHE-SQR-UNV-L950-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: P387826
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: 22CZ2-29VHE-SQR-UNV-L950-CD1-SWPD1-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: 2678.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

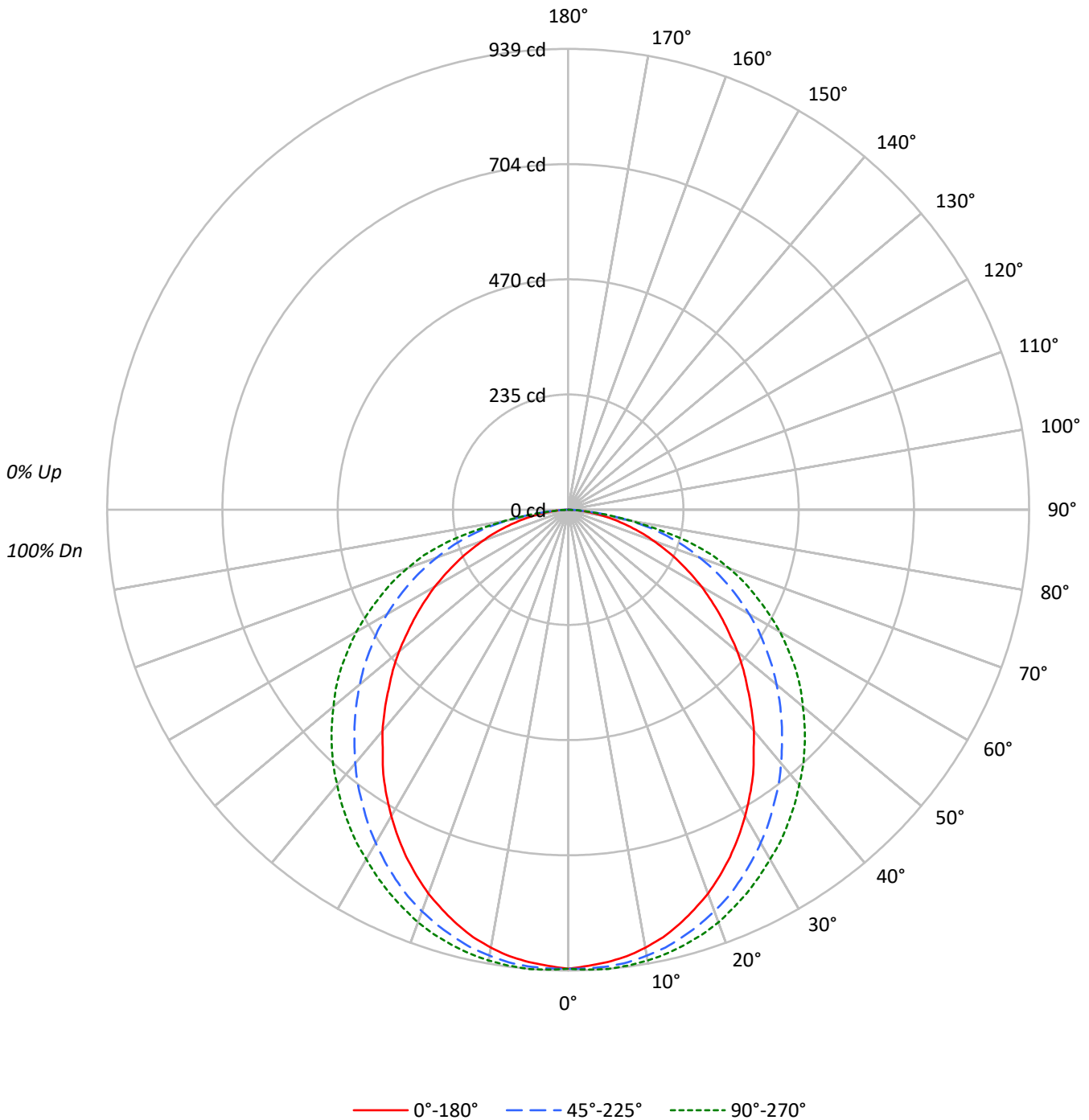
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P387826

CATALOG NUMBER: 22CZ2-29VHE-SQR-UNV-L950-CD1-SWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P387826

CATALOG NUMBER: 22CZ2-29VHE-SQR-UNV-L950-CD1-SWPD1-U

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°	2517	2517	2517
5°	2499	2524	2537
10°	2476	2522	2549
15°	2436	2511	2557
20°	2384	2493	2562
25°	2317	2468	2559
30°	2239	2437	2555
35°	2159	2401	2564
40°	2067	2371	2572
45°	1969	2341	2593
50°	1884	2320	2613
55°	1783	2302	2654
60°	1689	2292	2682
65°	1578	2274	2703
70°	1450	2240	2740
75°	1308	2180	2643
80°	1122	1931	1990
85°	902	1139	902



TEST NUMBER: P387826

CATALOG NUMBER: 22CZ2-29VHE-SQR-UNV-L950-CD1-SWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.3
10°-20°	253.6	9.5
20°-30°	380.8	14.2
30°-40°	454.2	17.0
40°-50°	469.6	17.5
50°-60°	431.7	16.1
60°-70°	343.7	12.8
70°-80°	210.0	7.8
80°-90°	45.7	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°	723.1	27.0
0°-40°	1177.3	44.0
0°-60°	2078.6	77.6
0°-90°	2678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	925	928	934	938	939	88
15°	874	885	901	914	918	246
25°	780	800	831	854	862	359
35°	657	685	731	769	780	410
45°	517	554	615	665	681	400
55°	380	422	491	546	566	340
65°	248	290	357	407	424	246
75°	126	163	210	247	254	134
85°	29	36	37	32	29	34
90°	0	0	0	0	0	



TEST NUMBER: P387826

CATALOG NUMBER: 22CZ2-29VHE-SQR-UNV-L950-CD1-SWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.5	935.5	935.5	935.5	935.5
2.5°	930.4	931.7	935.5	938.0	938.0
5°	925.3	927.9	934.2	938.0	939.3
7.5°	917.7	921.5	930.4	935.5	936.8
10°	906.3	911.3	922.8	930.4	932.9
12.5°	892.3	899.9	913.9	924.1	926.6
15°	874.5	884.6	901.2	913.9	917.7
17.5°	854.1	866.9	887.2	902.4	907.5
20°	832.5	845.2	870.7	888.5	894.8
22.5°	807.1	823.6	852.9	873.2	878.3
25°	780.4	799.5	831.3	854.1	861.8
27.5°	751.2	774.1	808.4	836.3	842.7
30°	720.7	744.8	784.2	814.7	822.4
32.5°	688.9	716.9	758.8	793.1	803.3
35°	657.1	685.1	730.9	769.0	780.4
37.5°	620.3	653.3	704.2	743.6	757.5
40°	588.5	620.3	674.9	718.1	732.1
42.5°	552.9	587.2	644.4	691.4	708.0
45°	517.3	554.2	615.2	664.8	681.3
47.5°	484.3	521.1	584.7	636.8	653.3
50°	450.0	488.1	554.2	607.6	624.1
52.5°	413.1	455.0	523.7	577.1	596.1
55°	380.0	422.0	490.6	546.5	565.6
57.5°	345.7	388.9	460.1	513.5	531.3
60°	313.9	355.9	425.8	477.9	498.3
62.5°	279.6	322.8	391.5	442.3	461.4
65°	247.9	289.8	357.2	406.7	424.5
67.5°	216.1	258.0	321.6	368.6	388.9
70°	184.3	226.2	284.7	330.5	348.3
72.5°	156.3	193.2	249.1	291.1	307.6
75°	125.8	162.7	209.7	246.6	254.2
77.5°	97.9	130.9	170.3	186.8	189.4
80°	72.4	97.9	124.6	128.4	128.4
82.5°	48.3	67.4	77.5	78.8	77.5
85°	29.2	35.6	36.9	31.8	29.2
87.5°	10.2	10.2	6.4	3.8	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)