

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: P388366

Luminaire Tested: **22CZ2-55VHE-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: P388366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-UNV-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

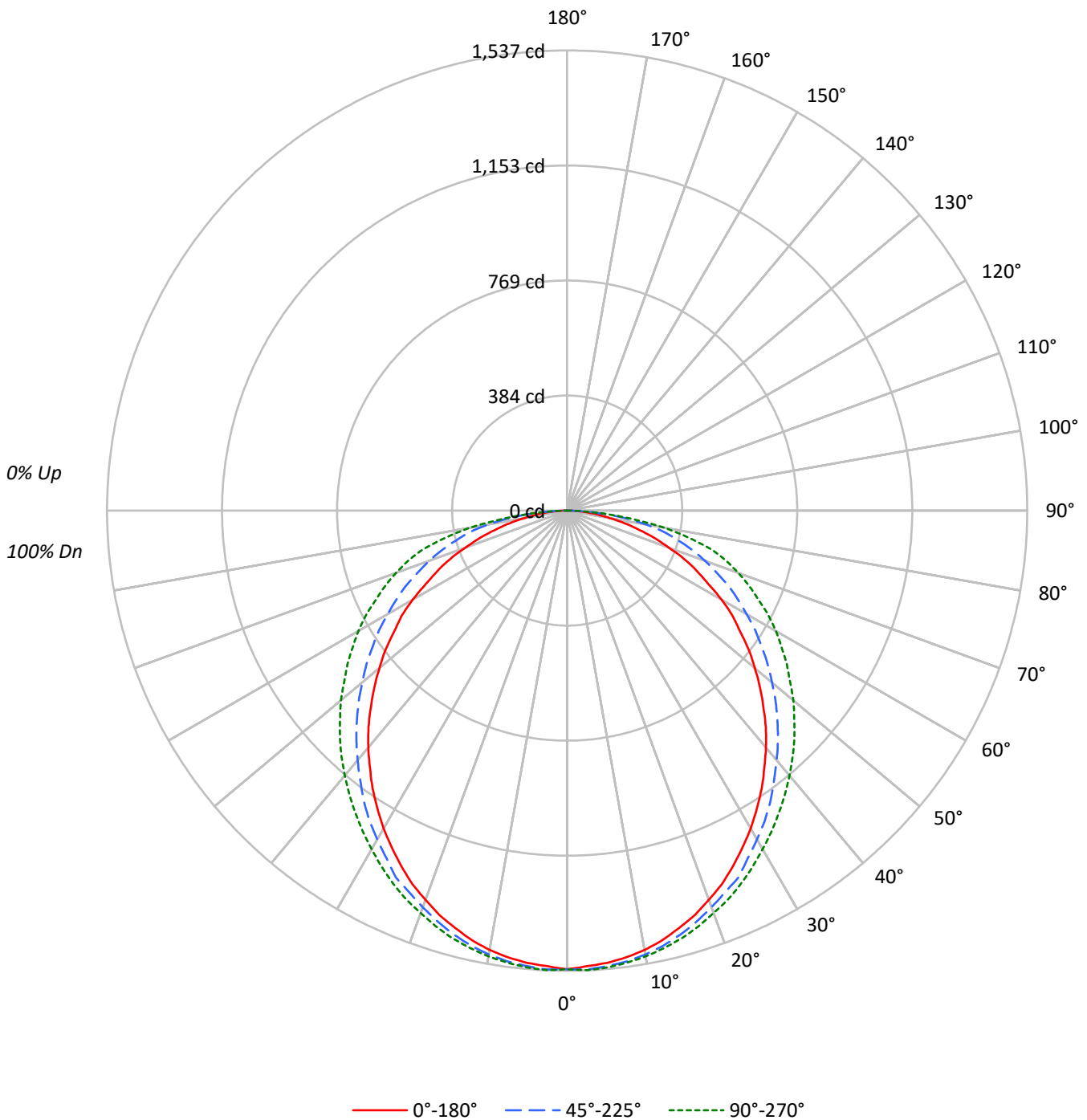
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P388366

CATALOG NUMBER: 22CZ2-55VHE-UNV-L930-CD1-SWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P388366

CATALOG NUMBER: 22CZ2-55VHE-UNV-L930-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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	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	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	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	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4123	4123	4123
5°	4097	4127	4139
10°	4071	4114	4132
15°	4021	4083	4120
20°	3962	4038	4095
25°	3891	4016	4082
30°	3810	3941	4058
35°	3722	3890	4050
40°	3629	3824	4058
45°	3527	3780	4084
50°	3425	3741	4131
55°	3308	3724	4203
60°	3210	3723	4332
65°	3049	3784	4490
70°	2843	3855	4780
75°	2604	3988	5164
80°	2267	4158	5086
85°	1985	3696	4039



TEST NUMBER: P388366

CATALOG NUMBER: 22CZ2-55VHE-UNV-L930-CD1-SWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	3.2
10°-20°	412.7	9.2
20°-30°	619.6	13.7
30°-40°	740.3	16.4
40°-50°	769.8	17.1
50°-60°	713.5	15.8
60°-70°	585.2	13.0
70°-80°	395.6	8.8
80°-90°	124.3	2.8
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°	1177.2	26.1
0°-40°	1917.5	42.6
0°-60°	3400.8	75.5
0°-90°	4506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1517	1519	1528	1530	1532	144
15°	1443	1450	1466	1474	1479	407
25°	1310	1322	1352	1368	1375	603
35°	1133	1148	1184	1220	1233	708
45°	927	945	993	1051	1073	716
55°	705	727	794	865	896	634
65°	479	506	594	672	705	473
75°	250	293	384	461	497	266
85°	64	89	120	133	131	73
90°	0	0	0	0	0	



TEST NUMBER: P388366

CATALOG NUMBER: 22CZ2-55VHE-UNV-L930-CD1-SWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1523.3	1527.7	1534.3	1536.6	1536.6
5°	1516.6	1518.8	1527.7	1529.9	1532.1
7.5°	1505.5	1510.0	1518.8	1521.0	1523.3
10°	1490.0	1494.4	1505.5	1510.0	1512.2
12.5°	1470.0	1474.5	1487.8	1494.4	1496.6
15°	1443.4	1450.1	1465.6	1474.5	1478.9
17.5°	1416.8	1423.5	1439.0	1452.3	1456.7
20°	1383.6	1399.1	1410.2	1427.9	1430.1
22.5°	1350.3	1359.2	1379.1	1396.9	1405.7
25°	1310.4	1321.5	1352.5	1368.0	1374.7
27.5°	1268.3	1283.8	1308.2	1332.6	1341.4
30°	1226.1	1237.2	1268.3	1297.1	1306.0
32.5°	1179.6	1195.1	1228.4	1257.2	1270.5
35°	1133.0	1148.5	1184.0	1219.5	1232.8
37.5°	1082.0	1099.8	1135.2	1177.4	1195.1
40°	1033.2	1046.5	1088.7	1139.7	1155.2
42.5°	982.2	997.8	1042.1	1097.5	1115.3
45°	926.8	944.6	993.3	1051.0	1073.2
47.5°	873.6	891.3	944.6	1002.2	1028.8
50°	818.2	840.3	893.6	960.1	986.7
52.5°	765.0	784.9	844.8	913.5	937.9
55°	705.1	727.3	793.8	864.7	895.8
57.5°	656.3	671.8	745.0	818.2	849.2
60°	596.4	616.4	691.8	769.4	804.9
62.5°	532.1	565.4	643.0	722.8	758.3
65°	478.9	505.5	594.2	671.8	705.1
67.5°	423.5	452.3	538.8	620.8	658.5
70°	361.4	399.1	490.0	572.1	607.5
72.5°	306.0	345.9	439.0	518.8	556.5
75°	250.5	292.7	383.6	461.2	496.7
77.5°	197.3	243.9	332.6	392.5	414.6
80°	146.3	190.7	268.3	310.4	328.2
82.5°	102.0	139.7	197.3	219.5	223.9
85°	64.3	88.7	119.7	133.0	130.8
87.5°	28.8	35.5	44.3	48.8	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)