

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: P389301

Luminaire Tested: **22CZ2-55VHE-S-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: P389301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-S-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4677.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

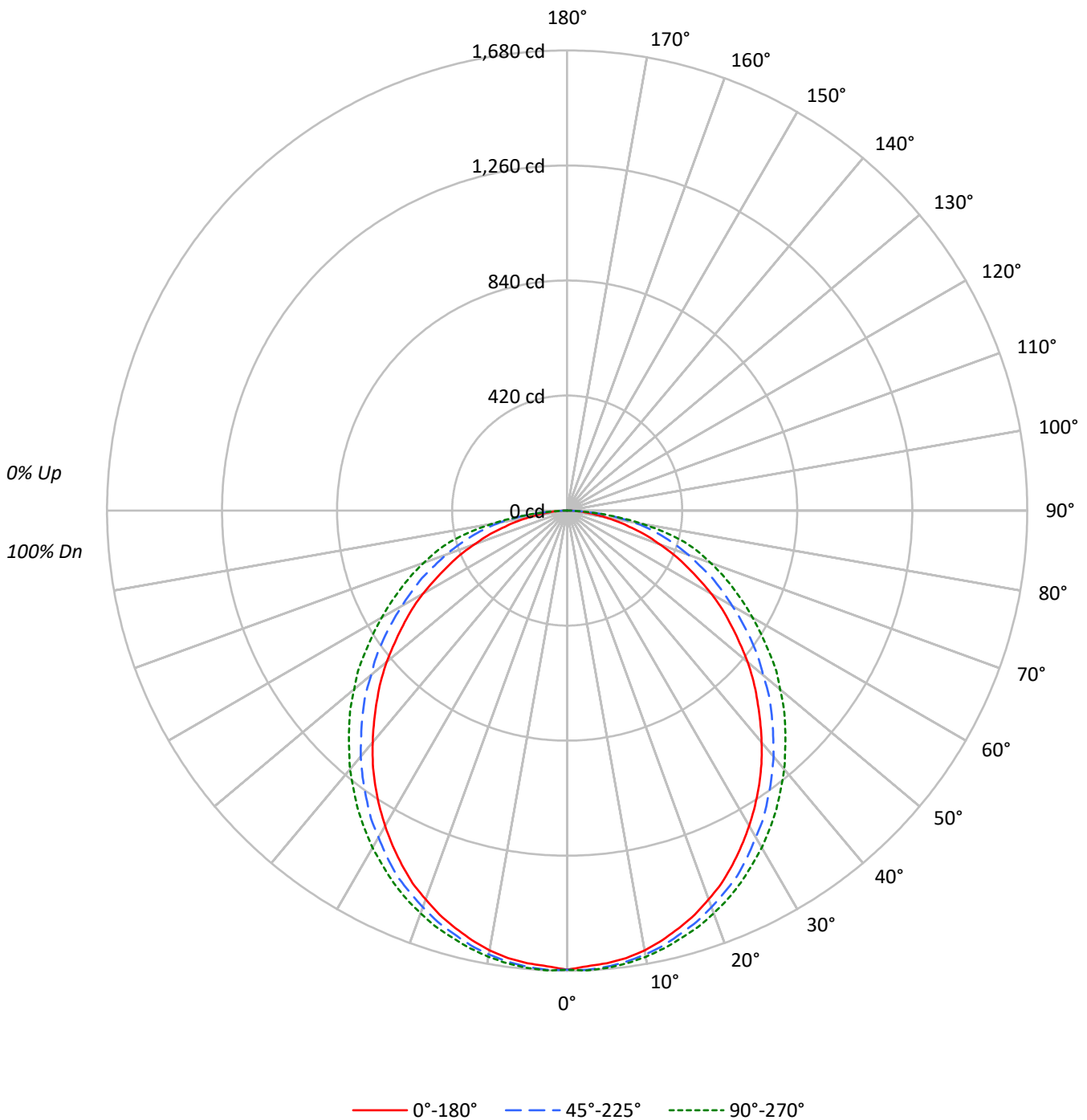
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4510	4510	4510
5°	4481	4516	4528
10°	4455	4497	4520
15°	4396	4457	4499
20°	4325	4412	4481
25°	4238	4368	4452
30°	4130	4279	4415
35°	4015	4201	4373
40°	3879	4117	4332
45°	3737	4020	4286
50°	3600	3911	4248
55°	3430	3840	4219
60°	3277	3747	4205
65°	3057	3724	4252
70°	2816	3692	4378
75°	2541	3744	4606
80°	2199	3856	4330
85°	1819	3236	3236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	3.4
10°-20°	451.1	9.6
20°-30°	674.9	14.4
30°-40°	799.3	17.1
40°-50°	814.6	17.4
50°-60°	730.1	15.6
60°-70°	571.6	12.2
70°-80°	368.6	7.9
80°-90°	108.9	2.3
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°	1284.5	27.5
0°-40°	2083.8	44.5
0°-60°	3628.5	77.6
0°-90°	4677.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1659	1663	1672	1674	1676	157
15°	1578	1587	1600	1613	1615	445
25°	1427	1440	1471	1491	1499	657
35°	1222	1238	1279	1318	1331	764
45°	982	1004	1056	1111	1126	758
55°	731	755	818	875	899	656
65°	480	508	585	642	668	477
75°	244	282	360	421	443	262
85°	59	81	105	105	105	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.1	1676.1	1676.1	1676.1	1676.1
2.5°	1665.2	1669.6	1678.3	1680.5	1680.5
5°	1658.7	1663.0	1671.8	1673.9	1676.1
7.5°	1647.8	1649.9	1660.9	1665.2	1667.4
10°	1630.3	1634.7	1645.6	1652.1	1654.3
12.5°	1606.3	1612.8	1625.9	1634.7	1636.8
15°	1577.9	1586.6	1599.7	1612.8	1615.0
17.5°	1547.4	1556.1	1573.6	1588.8	1593.2
20°	1510.3	1521.2	1540.8	1558.3	1564.8
22.5°	1473.2	1481.9	1505.9	1527.7	1534.3
25°	1427.3	1440.4	1471.0	1490.6	1499.4
27.5°	1379.3	1394.6	1425.1	1451.3	1460.1
30°	1329.1	1344.4	1377.1	1409.9	1420.8
32.5°	1276.7	1294.2	1333.5	1366.2	1377.1
35°	1222.2	1237.5	1278.9	1318.2	1331.3
37.5°	1165.4	1178.5	1226.5	1268.0	1281.1
40°	1104.3	1121.8	1172.0	1220.0	1233.1
42.5°	1043.2	1062.9	1113.1	1165.4	1178.5
45°	982.1	1003.9	1056.3	1110.9	1126.1
47.5°	923.2	940.6	999.6	1051.9	1073.8
50°	859.9	877.3	934.1	993.0	1014.8
52.5°	794.4	818.4	879.5	936.3	962.5
55°	731.1	755.1	818.4	875.2	899.2
57.5°	672.2	691.8	757.3	816.2	840.2
60°	608.9	626.4	696.2	759.5	781.3
62.5°	541.3	567.4	639.5	698.4	724.6
65°	480.1	508.5	584.9	641.6	667.8
67.5°	423.4	449.6	523.8	584.9	613.3
70°	357.9	392.8	469.2	530.3	556.5
72.5°	305.5	336.1	414.7	475.8	504.1
75°	244.4	281.5	360.1	421.2	443.0
77.5°	194.2	231.3	305.5	353.6	364.5
80°	141.9	179.0	248.8	272.8	279.4
82.5°	96.0	130.9	179.0	185.5	187.7
85°	58.9	80.8	104.8	104.8	104.8
87.5°	28.4	32.7	37.1	34.9	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)