

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: P390054

Luminaire Tested: **22CZ2-100VHE-RDP-UNV-L950-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: P390054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-100VHE-RDP-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6014.1 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

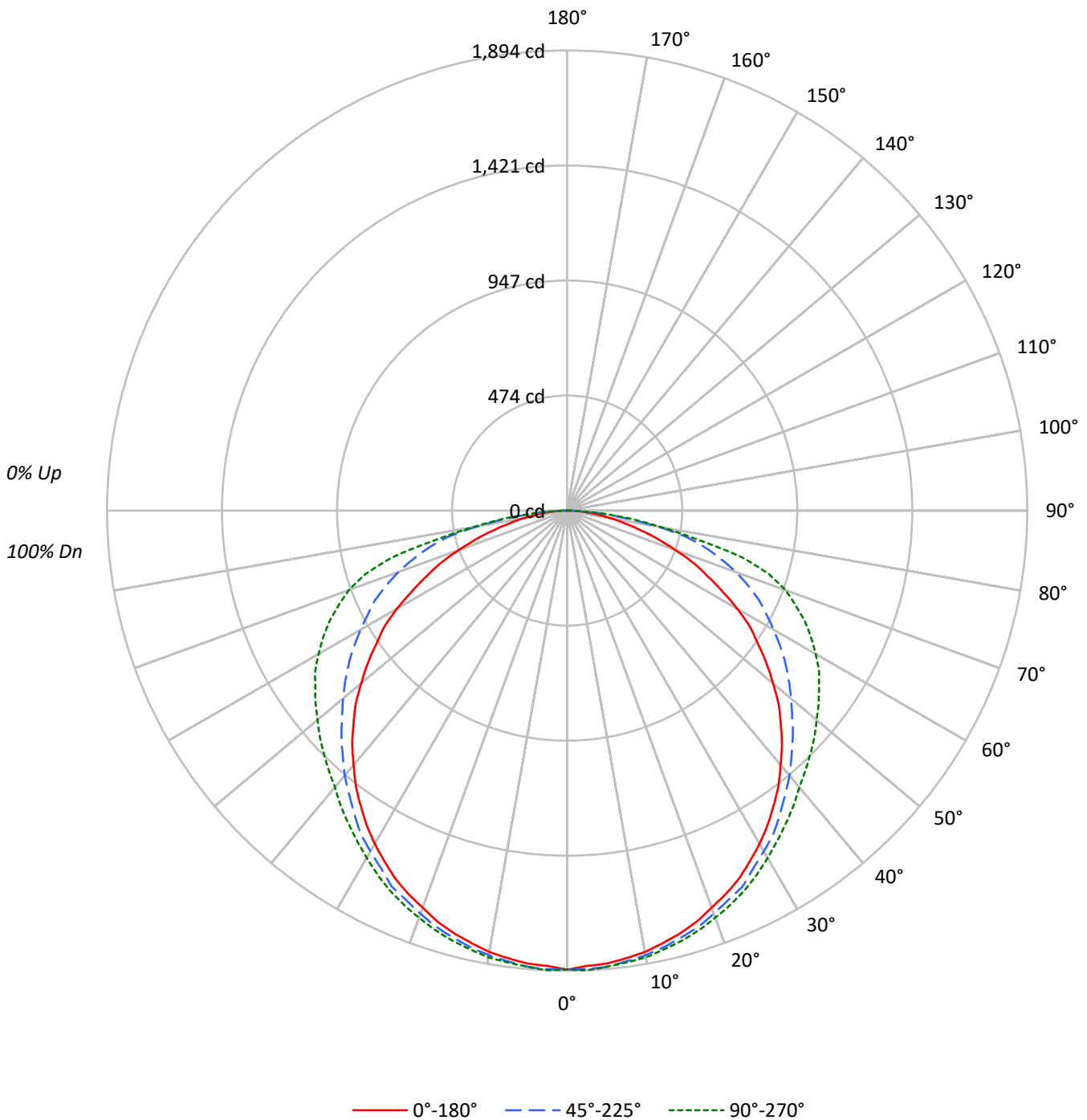
Input Watts (W): 77.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P390054

CATALOG NUMBER: 22CZ2-100VHE-RDP-UNV-L950-CD1-SDWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P390054

CATALOG NUMBER: 22CZ2-100VHE-RDP-UNV-L950-CD1-SDWPD1-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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5084	5084	5084
5°	5055	5091	5091
10°	5041	5078	5102
15°	5016	5066	5103
20°	4979	5055	5106
25°	4965	5070	5123
30°	4922	5032	5128
35°	4869	5014	5160
40°	4802	5004	5222
45°	4731	5001	5388
50°	4631	5038	5612
55°	4504	5148	5936
60°	4357	5286	6358
65°	4057	5550	6874
70°	3725	5813	7519
75°	3266	6118	7774
80°	2811	5828	6103
85°	2458	4236	4644



TEST NUMBER: P390054

CATALOG NUMBER: 22CZ2-100VHE-RDP-UNV-L950-CD1-SDWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.0
10°-20°	513.1	8.5
20°-30°	782.8	13.0
30°-40°	955.8	15.9
40°-50°	1022.0	17.0
50°-60°	986.4	16.4
60°-70°	849.1	14.1
70°-80°	574.5	9.6
80°-90°	151.6	2.5
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°	1474.6	24.5
0°-40°	2430.4	40.4
0°-60°	4438.8	73.8
0°-90°	6014.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6014.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1871	1876	1885	1885	1885	178
15°	1801	1805	1818	1827	1832	508
25°	1672	1681	1708	1717	1725	770
35°	1482	1495	1526	1557	1571	927
45°	1243	1265	1314	1380	1416	960
55°	960	991	1097	1208	1265	860
65°	637	699	872	1009	1080	634
75°	314	416	588	708	748	337
85°	80	111	137	142	150	90
90°	0	0	0	0	0	



TEST NUMBER: P390054

CATALOG NUMBER: 22CZ2-100VHE-RDP-UNV-L950-CD1-SDWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1875.9	1880.3	1889.1	1889.1	1893.6
5°	1871.4	1875.9	1884.7	1884.7	1884.7
7.5°	1858.2	1862.6	1871.4	1875.9	1875.9
10°	1844.9	1849.3	1858.2	1862.6	1867.0
12.5°	1822.8	1827.2	1840.5	1849.3	1849.3
15°	1800.6	1805.1	1818.3	1827.2	1831.6
17.5°	1774.1	1783.0	1796.2	1805.1	1809.5
20°	1738.7	1747.6	1765.3	1778.5	1783.0
22.5°	1707.7	1716.6	1734.3	1747.6	1756.4
25°	1672.3	1681.2	1707.7	1716.6	1725.4
27.5°	1628.1	1637.0	1659.1	1676.8	1690.0
30°	1583.9	1592.7	1619.3	1641.4	1650.2
32.5°	1535.2	1548.5	1579.4	1597.1	1610.4
35°	1482.1	1495.4	1526.3	1557.3	1570.6
37.5°	1429.0	1442.3	1473.3	1513.1	1530.8
40°	1367.1	1384.8	1424.6	1477.7	1486.5
42.5°	1309.6	1331.7	1367.1	1429.0	1451.1
45°	1243.2	1265.3	1314.0	1380.4	1415.7
47.5°	1181.3	1203.4	1256.5	1336.1	1380.4
50°	1106.1	1137.0	1203.4	1296.3	1340.5
52.5°	1035.3	1061.8	1150.3	1252.0	1305.1
55°	960.1	991.0	1097.2	1207.8	1265.3
57.5°	893.7	920.2	1039.7	1163.6	1229.9
60°	809.6	845.0	982.2	1114.9	1181.3
62.5°	721.1	774.2	924.7	1061.8	1132.6
65°	637.1	699.0	871.6	1008.7	1079.5
67.5°	561.9	628.2	805.2	951.2	1017.6
70°	473.4	557.4	738.8	880.4	955.6
72.5°	393.8	486.7	663.6	805.2	871.6
75°	314.1	415.9	588.4	707.9	747.7
77.5°	243.3	340.7	504.4	539.8	544.2
80°	181.4	269.9	376.1	380.5	393.8
82.5°	123.9	190.2	243.3	265.5	269.9
85°	79.6	110.6	137.2	141.6	150.4
87.5°	35.4	39.8	48.7	44.2	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)