

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: P390656

Luminaire Tested: **22CZ2-75VHE-HRP-UNV-L950-CD1-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: P390656
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: 22CZ2-75VHE-HRP-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5816.2 lumens
Efficiency: N/A
Efficacy: 106.3 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

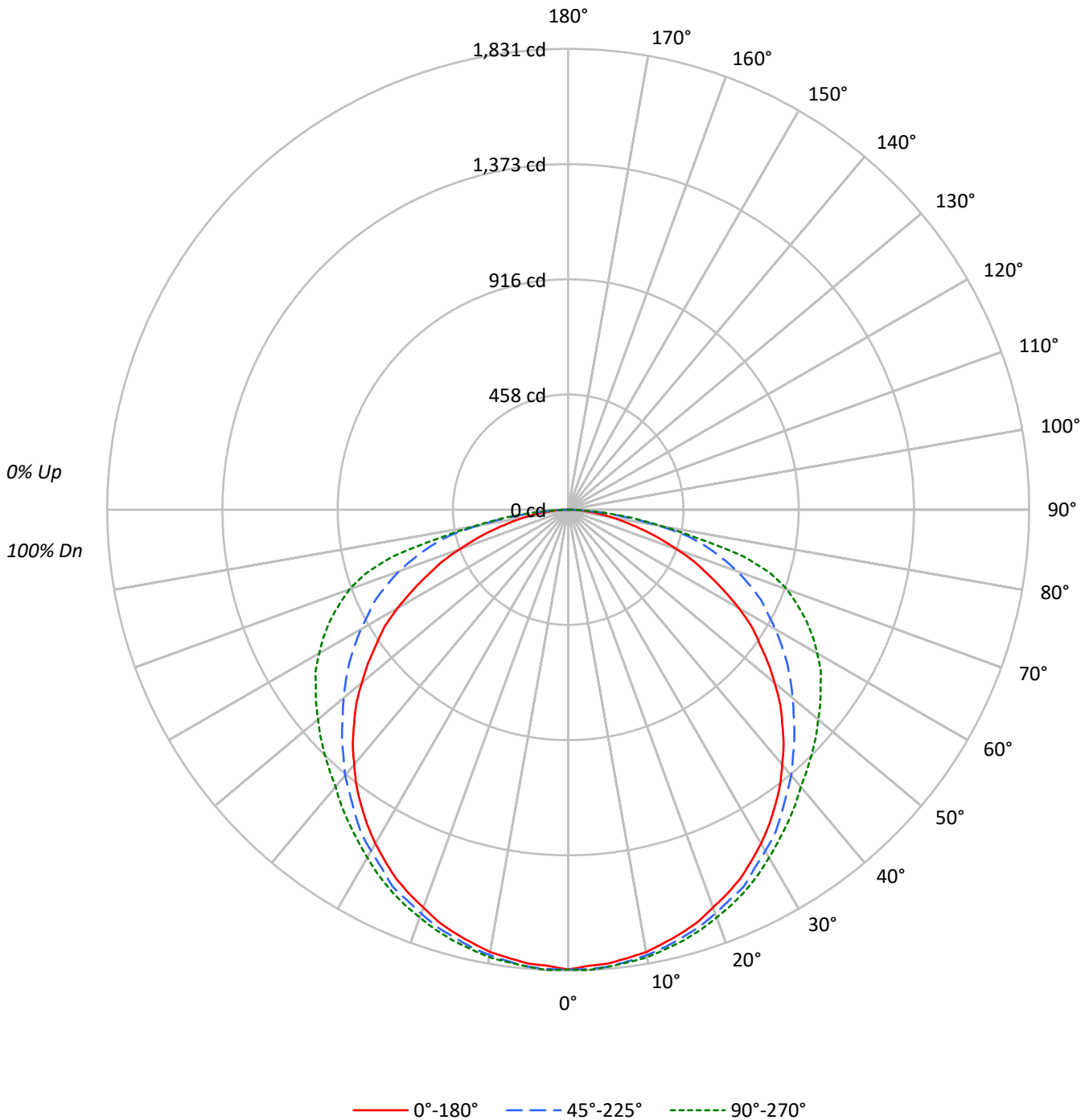
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P390656

CATALOG NUMBER: 22CZ2-75VHE-HRP-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P390656

CATALOG NUMBER: 22CZ2-75VHE-HRP-UNV-L950-CD1-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°	4916	4916	4916
5°	4889	4924	4924
10°	4875	4910	4934
15°	4851	4899	4935
20°	4815	4889	4938
25°	4802	4904	4955
30°	4759	4866	4959
35°	4709	4849	4990
40°	4644	4840	5050
45°	4575	4836	5211
50°	4478	4872	5427
55°	4356	4978	5741
60°	4214	5112	6148
65°	3923	5367	6648
70°	3602	5622	7272
75°	3159	5917	7518
80°	2718	5636	5901
85°	2377	4094	4492



TEST NUMBER: P390656

CATALOG NUMBER: 22CZ2-75VHE-HRP-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	3.0
10°-20°	496.2	8.5
20°-30°	757.0	13.0
30°-40°	924.4	15.9
40°-50°	988.4	17.0
50°-60°	954.0	16.4
60°-70°	821.2	14.1
70°-80°	555.6	9.6
80°-90°	146.6	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°	1426.1	24.5
0°-40°	2350.4	40.4
0°-60°	4292.8	73.8
0°-90°	5816.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5816.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1810	1814	1823	1823	1823	172
15°	1741	1746	1758	1767	1771	491
25°	1617	1626	1652	1660	1669	744
35°	1433	1446	1476	1506	1519	897
45°	1202	1224	1271	1335	1369	928
55°	928	958	1061	1168	1224	832
65°	616	676	843	976	1044	613
75°	304	402	569	685	723	326
85°	77	107	133	137	146	87
90°	0	0	0	0	0	



TEST NUMBER: P390656

CATALOG NUMBER: 22CZ2-75VHE-HRP-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.0	1827.0	1827.0	1827.0	1827.0
2.5°	1814.1	1818.4	1827.0	1827.0	1831.2
5°	1809.9	1814.1	1822.7	1822.7	1822.7
7.5°	1797.0	1801.3	1809.9	1814.1	1814.1
10°	1784.2	1788.5	1797.0	1801.3	1805.6
12.5°	1762.8	1767.1	1779.9	1788.5	1788.5
15°	1741.4	1745.7	1758.5	1767.1	1771.3
17.5°	1715.7	1724.3	1737.1	1745.7	1750.0
20°	1681.5	1690.1	1707.2	1720.0	1724.3
22.5°	1651.5	1660.1	1677.2	1690.1	1698.6
25°	1617.3	1625.9	1651.5	1660.1	1668.7
27.5°	1574.5	1583.1	1604.5	1621.6	1634.4
30°	1531.7	1540.3	1566.0	1587.4	1595.9
32.5°	1484.7	1497.5	1527.5	1544.6	1557.4
35°	1433.3	1446.2	1476.1	1506.1	1518.9
37.5°	1382.0	1394.8	1424.8	1463.3	1480.4
40°	1322.1	1339.2	1377.7	1429.1	1437.6
42.5°	1266.5	1287.9	1322.1	1382.0	1403.4
45°	1202.3	1223.7	1270.7	1334.9	1369.2
47.5°	1142.4	1163.8	1215.1	1292.1	1334.9
50°	1069.7	1099.6	1163.8	1253.6	1296.4
52.5°	1001.2	1026.9	1112.4	1210.8	1262.2
55°	928.5	958.4	1061.1	1168.1	1223.7
57.5°	864.3	890.0	1005.5	1125.3	1189.5
60°	783.0	817.2	949.9	1078.2	1142.4
62.5°	697.4	748.8	894.2	1026.9	1095.3
65°	616.1	676.0	842.9	975.5	1044.0
67.5°	543.4	607.6	778.7	919.9	984.1
70°	457.8	539.1	714.5	851.4	924.2
72.5°	380.8	470.6	641.8	778.7	842.9
75°	303.8	402.2	569.1	684.6	723.1
77.5°	235.3	329.5	487.8	522.0	526.3
80°	175.4	261.0	363.7	368.0	380.8
82.5°	119.8	184.0	235.3	256.7	261.0
85°	77.0	107.0	132.6	136.9	145.5
87.5°	34.2	38.5	47.1	42.8	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)