

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: P389312

Luminaire Tested: **22CZ2-55VHE-S-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: P389312
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5268.5 lumens
Efficiency: N/A
Efficacy: 133.7 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

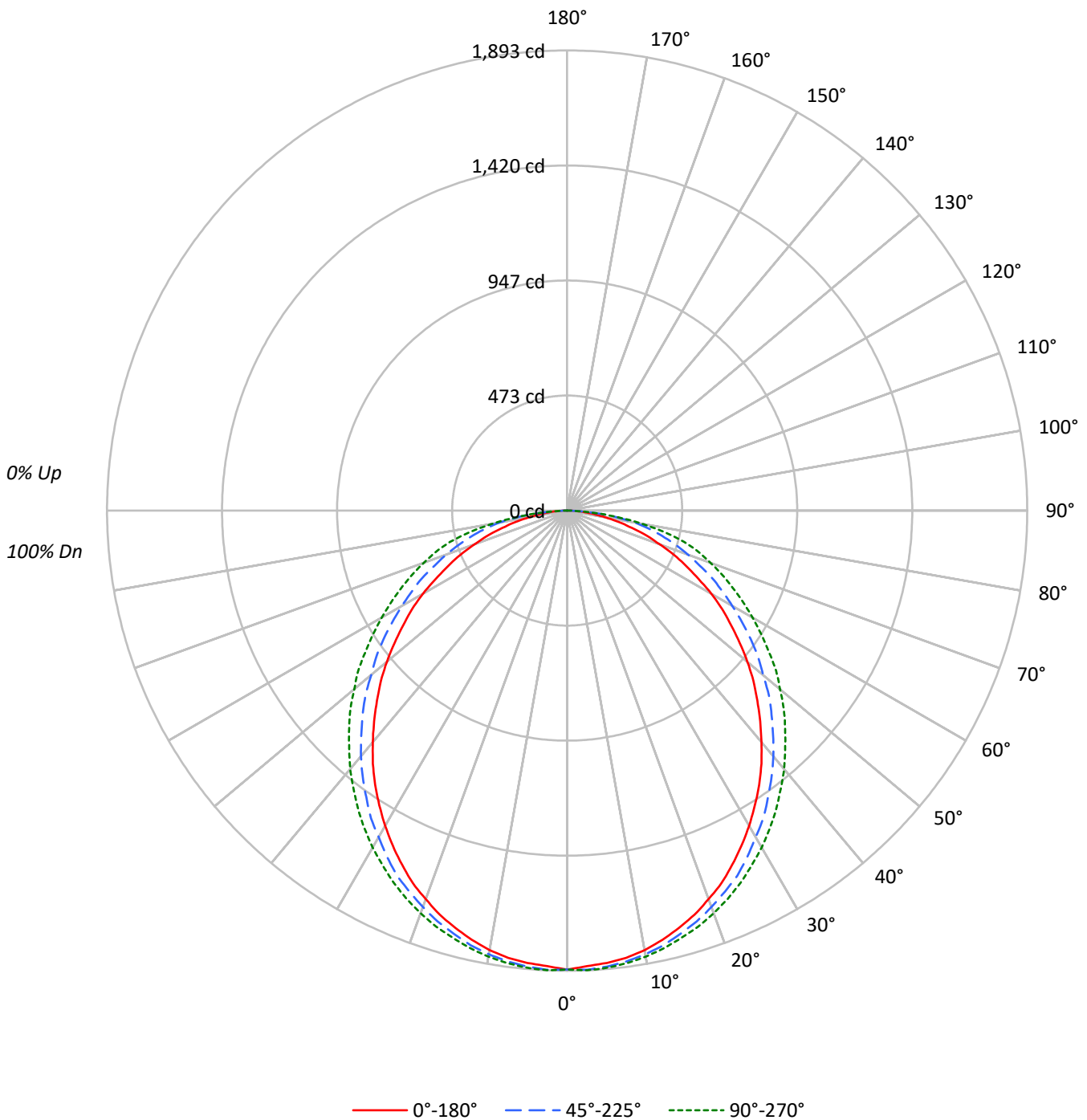
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5080	5080	5080
5°	5046	5086	5100
10°	5017	5065	5091
15°	4951	5020	5068
20°	4871	4970	5047
25°	4773	4919	5014
30°	4652	4820	4973
35°	4522	4732	4926
40°	4369	4637	4879
45°	4210	4528	4827
50°	4055	4405	4785
55°	3864	4325	4752
60°	3691	4221	4736
65°	3443	4195	4790
70°	3172	4158	4932
75°	2862	4217	5188
80°	2476	4342	4875
85°	2050	3643	3643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.4
10°-20°	508.1	9.6
20°-30°	760.2	14.4
30°-40°	900.3	17.1
40°-50°	917.5	17.4
50°-60°	822.3	15.6
60°-70°	643.8	12.2
70°-80°	415.2	7.9
80°-90°	122.7	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°	1446.8	27.5
0°-40°	2347.1	44.5
0°-60°	4086.9	77.6
0°-90°	5268.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5268.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1868	1873	1883	1885	1888	177
15°	1777	1787	1802	1817	1819	501
25°	1608	1622	1657	1679	1689	740
35°	1377	1394	1440	1485	1500	860
45°	1106	1131	1190	1251	1268	854
55°	824	850	922	986	1013	738
65°	541	573	659	723	752	537
75°	275	317	406	474	499	295
85°	66	91	118	118	118	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	1875.6	1880.5	1890.3	1892.8	1892.8
5°	1868.2	1873.1	1883.0	1885.4	1887.9
7.5°	1855.9	1858.4	1870.7	1875.6	1878.0
10°	1836.2	1841.2	1853.5	1860.8	1863.3
12.5°	1809.2	1816.6	1831.3	1841.2	1843.6
15°	1777.3	1787.1	1801.8	1816.6	1819.0
17.5°	1742.8	1752.7	1772.3	1789.5	1794.5
20°	1701.0	1713.3	1735.5	1755.1	1762.5
22.5°	1659.3	1669.1	1696.1	1720.7	1728.1
25°	1607.6	1622.4	1656.8	1678.9	1688.8
27.5°	1553.6	1570.8	1605.2	1634.7	1644.5
30°	1497.0	1514.2	1551.1	1588.0	1600.3
32.5°	1438.0	1457.7	1501.9	1538.8	1551.1
35°	1376.6	1393.8	1440.5	1484.7	1499.5
37.5°	1312.7	1327.4	1381.5	1428.2	1442.9
40°	1243.8	1263.5	1320.0	1374.1	1388.9
42.5°	1175.0	1197.1	1253.7	1312.7	1327.4
45°	1106.2	1130.8	1189.8	1251.2	1268.4
47.5°	1039.8	1059.5	1125.8	1184.8	1209.4
50°	968.5	988.2	1052.1	1118.5	1143.0
52.5°	894.8	921.8	990.6	1054.6	1084.0
55°	823.5	850.5	921.8	985.7	1012.8
57.5°	757.1	779.2	853.0	919.4	946.4
60°	685.8	705.5	784.2	855.4	880.0
62.5°	609.6	639.1	720.2	786.6	816.1
65°	540.8	572.8	658.8	722.7	752.2
67.5°	476.9	506.4	590.0	658.8	690.7
70°	403.1	442.5	528.5	597.3	626.8
72.5°	344.1	378.6	467.1	535.9	567.8
75°	275.3	317.1	405.6	474.4	499.0
77.5°	218.8	260.6	344.1	398.2	410.5
80°	159.8	201.6	280.2	307.3	314.6
82.5°	108.2	147.5	201.6	208.9	211.4
85°	66.4	91.0	118.0	118.0	118.0
87.5°	32.0	36.9	41.8	39.3	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)