

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: P389264

Luminaire Tested: **22CZ2-44VHE-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: P389264
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: 22CZ2-44VHE-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: 4401.5 lumens
Efficiency: N/A
Efficacy: 135.0 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

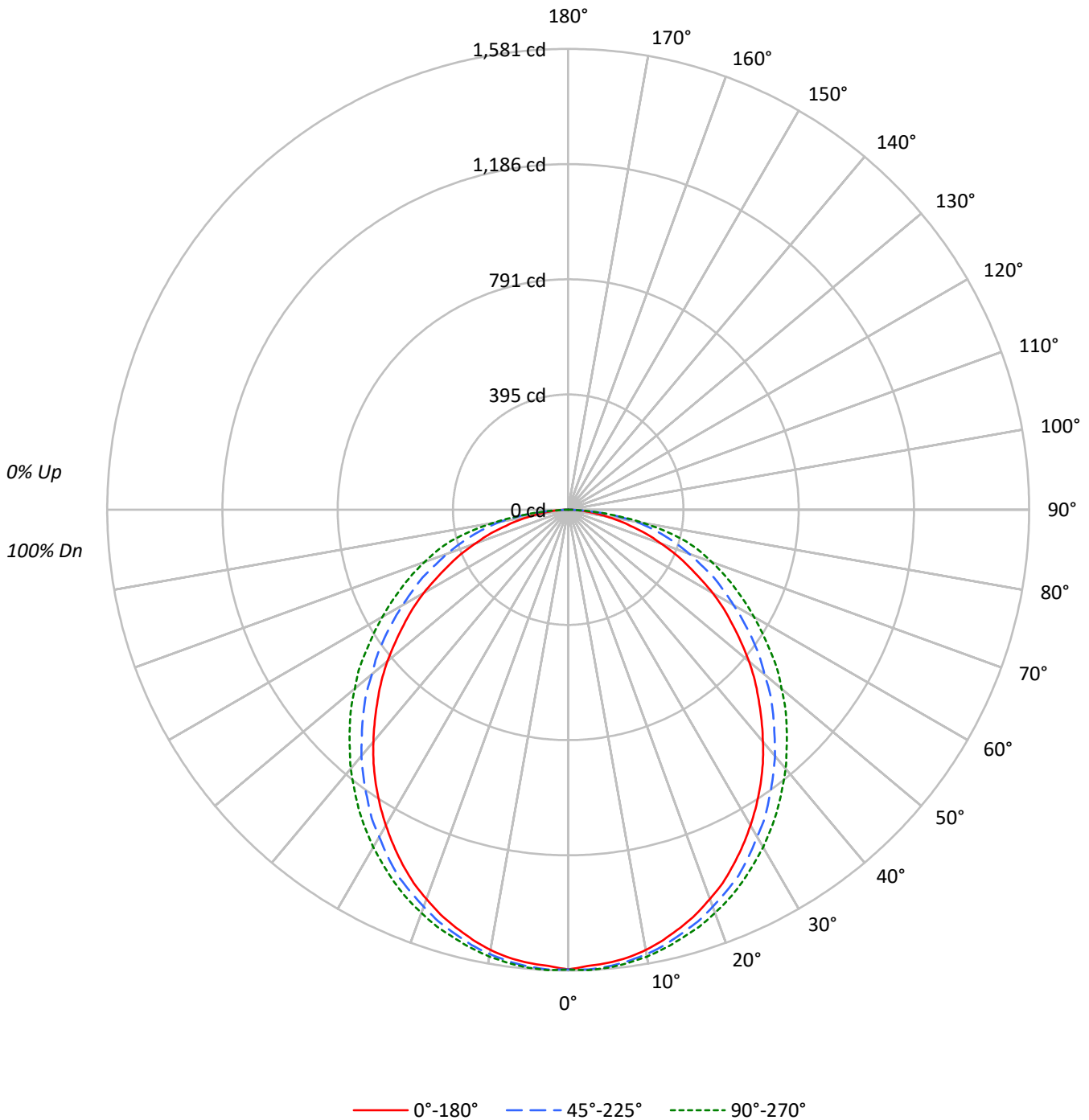
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4244	4244	4244
5°	4216	4249	4260
10°	4192	4231	4254
15°	4137	4194	4234
20°	4070	4152	4217
25°	3988	4110	4189
30°	3886	4026	4154
35°	3778	3953	4115
40°	3650	3874	4076
45°	3517	3783	4033
50°	3387	3680	3998
55°	3228	3613	3970
60°	3084	3526	3957
65°	2877	3505	4001
70°	2650	3474	4120
75°	2391	3524	4335
80°	2069	3628	4074
85°	1711	3044	3044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.4
10°-20°	424.5	9.6
20°-30°	635.1	14.4
30°-40°	752.1	17.1
40°-50°	766.5	17.4
50°-60°	687.0	15.6
60°-70°	537.9	12.2
70°-80°	346.8	7.9
80°-90°	102.5	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°	1208.7	27.5
0°-40°	1960.8	44.5
0°-60°	3414.4	77.6
0°-90°	4401.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1561	1565	1573	1575	1577	148
15°	1485	1493	1505	1518	1520	419
25°	1343	1355	1384	1403	1411	618
35°	1150	1164	1203	1240	1253	719
45°	924	945	994	1045	1060	714
55°	688	711	770	824	846	617
65°	452	478	550	604	628	449
75°	230	265	339	396	417	247
85°	55	76	99	99	99	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.2	1577.2	1577.2	1577.2	1577.2
2.5°	1566.9	1571.0	1579.2	1581.3	1581.3
5°	1560.8	1564.9	1573.1	1575.1	1577.2
7.5°	1550.5	1552.6	1562.8	1566.9	1569.0
10°	1534.1	1538.2	1548.4	1554.6	1556.7
12.5°	1511.5	1517.6	1530.0	1538.2	1540.2
15°	1484.8	1493.0	1505.3	1517.6	1519.7
17.5°	1456.0	1464.2	1480.7	1495.0	1499.2
20°	1421.1	1431.4	1449.9	1466.3	1472.5
22.5°	1386.2	1394.4	1417.0	1437.5	1443.7
25°	1343.1	1355.4	1384.2	1402.6	1410.8
27.5°	1297.9	1312.3	1341.0	1365.7	1373.9
30°	1250.7	1265.0	1295.8	1326.7	1336.9
32.5°	1201.4	1217.8	1254.8	1285.6	1295.8
35°	1150.0	1164.4	1203.4	1240.4	1252.7
37.5°	1096.6	1109.0	1154.1	1193.2	1205.5
40°	1039.1	1055.6	1102.8	1148.0	1160.3
42.5°	981.6	1000.1	1047.4	1096.6	1109.0
45°	924.1	944.7	994.0	1045.3	1059.7
47.5°	868.7	885.1	940.6	989.9	1010.4
50°	809.1	825.6	879.0	934.4	954.9
52.5°	747.5	770.1	827.6	881.0	905.7
55°	688.0	710.6	770.1	823.5	846.1
57.5°	632.5	651.0	712.6	768.1	790.7
60°	573.0	589.4	655.1	714.7	735.2
62.5°	509.3	533.9	601.7	657.2	681.8
65°	451.8	478.5	550.4	603.8	628.4
67.5°	398.4	423.0	492.9	550.4	577.1
70°	336.8	369.7	441.5	499.0	523.7
72.5°	287.5	316.3	390.2	447.7	474.4
75°	230.0	264.9	338.9	396.4	416.9
77.5°	182.8	217.7	287.5	332.7	343.0
80°	133.5	168.4	234.1	256.7	262.9
82.5°	90.4	123.2	168.4	174.6	176.6
85°	55.4	76.0	98.6	98.6	98.6
87.5°	26.7	30.8	34.9	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)