

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: P880763

Luminaire Tested: **22CZ2-44VHE-S-B2750-W2D-3000K**

Issue Date: 10/2/2024

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: P880763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-S-B2750-W2D-3000K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

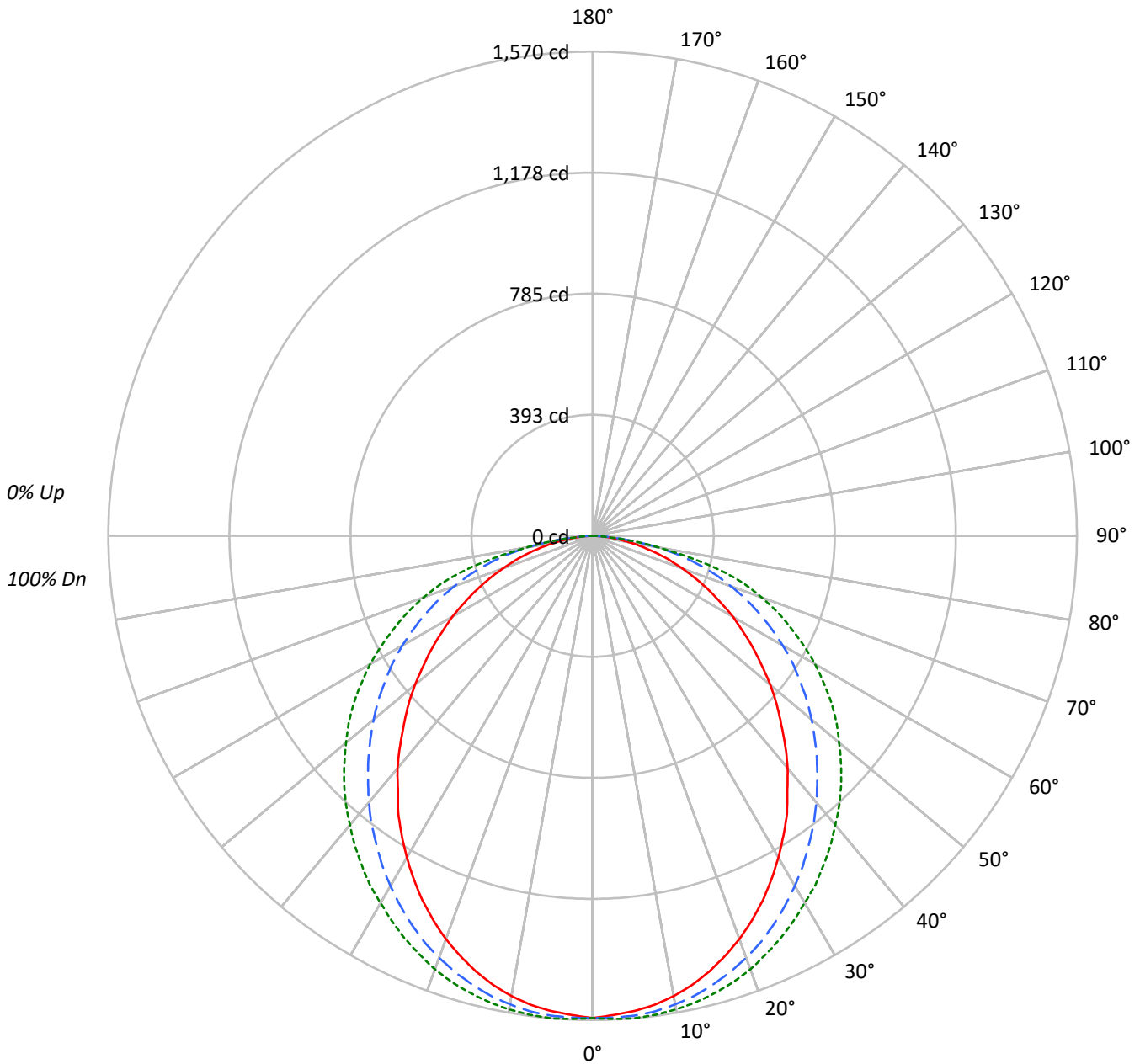
Lumens per Lamp: N/A
Luminaire Lumens: 4477.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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: P880763

CATALOG NUMBER: 22CZ2-44VHE-S-B2750-W2D-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43				43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4438	4438	4438
5°	4406	4448	4473
10°	4365	4445	4494
15°	4295	4425	4507
20°	4202	4395	4517
25°	4085	4351	4511
30°	3947	4296	4505
35°	3805	4232	4520
40°	3645	4180	4534
45°	3470	4127	4571
50°	3321	4090	4606
55°	3143	4057	4678
60°	2979	4041	4728
65°	2781	4009	4765
70°	2554	3947	4830
75°	2308	3843	4657
80°	1977	3404	3507
85°	1589	2006	1589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.3
10°-20°	423.9	9.5
20°-30°	636.7	14.2
30°-40°	759.3	17.0
40°-50°	785.1	17.5
50°-60°	721.8	16.1
60°-70°	574.6	12.8
70°-80°	351.1	7.8
80°-90°	76.3	1.7
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°	1208.9	27.0
0°-40°	1968.2	44.0
0°-60°	3475.1	77.6
0°-90°	4477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1547	1551	1562	1568	1570	147
15°	1462	1479	1506	1528	1534	412
25°	1305	1337	1390	1428	1441	600
35°	1098	1145	1222	1286	1305	685
45°	865	926	1028	1111	1139	669
55°	635	705	820	914	946	568
65°	414	484	597	680	710	410
75°	210	272	350	412	425	224
85°	49	59	62	53	49	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1555.5	1557.4	1563.9	1568.2	1568.2
5°	1546.8	1551.1	1561.7	1568.2	1570.4
7.5°	1534.3	1540.6	1555.5	1563.9	1566.3
10°	1515.1	1523.7	1542.7	1555.5	1559.6
12.5°	1491.7	1504.5	1527.8	1544.9	1549.0
15°	1462.1	1479.0	1506.4	1527.8	1534.3
17.5°	1428.0	1449.1	1483.3	1508.8	1517.2
20°	1391.6	1413.1	1455.6	1485.2	1495.8
22.5°	1349.3	1377.0	1425.8	1460.0	1468.4
25°	1304.8	1336.6	1389.7	1428.0	1440.7
27.5°	1255.7	1294.2	1351.5	1398.4	1409.0
30°	1204.7	1245.1	1311.1	1362.1	1374.8
32.5°	1151.6	1198.5	1268.5	1326.0	1343.1
35°	1098.4	1145.3	1221.8	1285.8	1304.8
37.5°	1036.8	1092.2	1177.3	1243.2	1266.3
40°	983.9	1036.8	1128.5	1200.6	1224.0
42.5°	924.2	981.7	1077.5	1155.9	1183.6
45°	864.8	926.4	1028.4	1111.4	1139.1
47.5°	809.5	871.1	977.4	1064.7	1092.2
50°	752.2	816.0	926.4	1015.7	1043.3
52.5°	690.7	760.7	875.4	964.7	996.6
55°	635.3	705.3	820.1	913.7	945.6
57.5°	577.8	650.2	769.3	858.6	888.4
60°	524.9	594.9	712.1	798.9	833.1
62.5°	467.4	539.6	654.3	739.5	771.5
65°	414.2	484.5	597.1	680.1	709.7
67.5°	361.1	431.6	537.4	616.3	650.2
70°	307.9	378.4	475.8	552.6	582.2
72.5°	261.5	323.1	416.4	486.7	514.3
75°	210.5	272.1	350.5	412.1	424.8
77.5°	163.6	218.9	284.8	312.2	316.8
80°	121.0	163.6	208.3	214.6	214.6
82.5°	80.6	112.6	129.7	131.6	129.7
85°	48.8	59.4	61.6	53.2	48.8
87.5°	16.8	16.8	10.6	6.3	2.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)