

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: P880762

Luminaire Tested: **22CZ2-44VHE-S-B2750-W2D-2700K**

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: P880762
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-2700K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

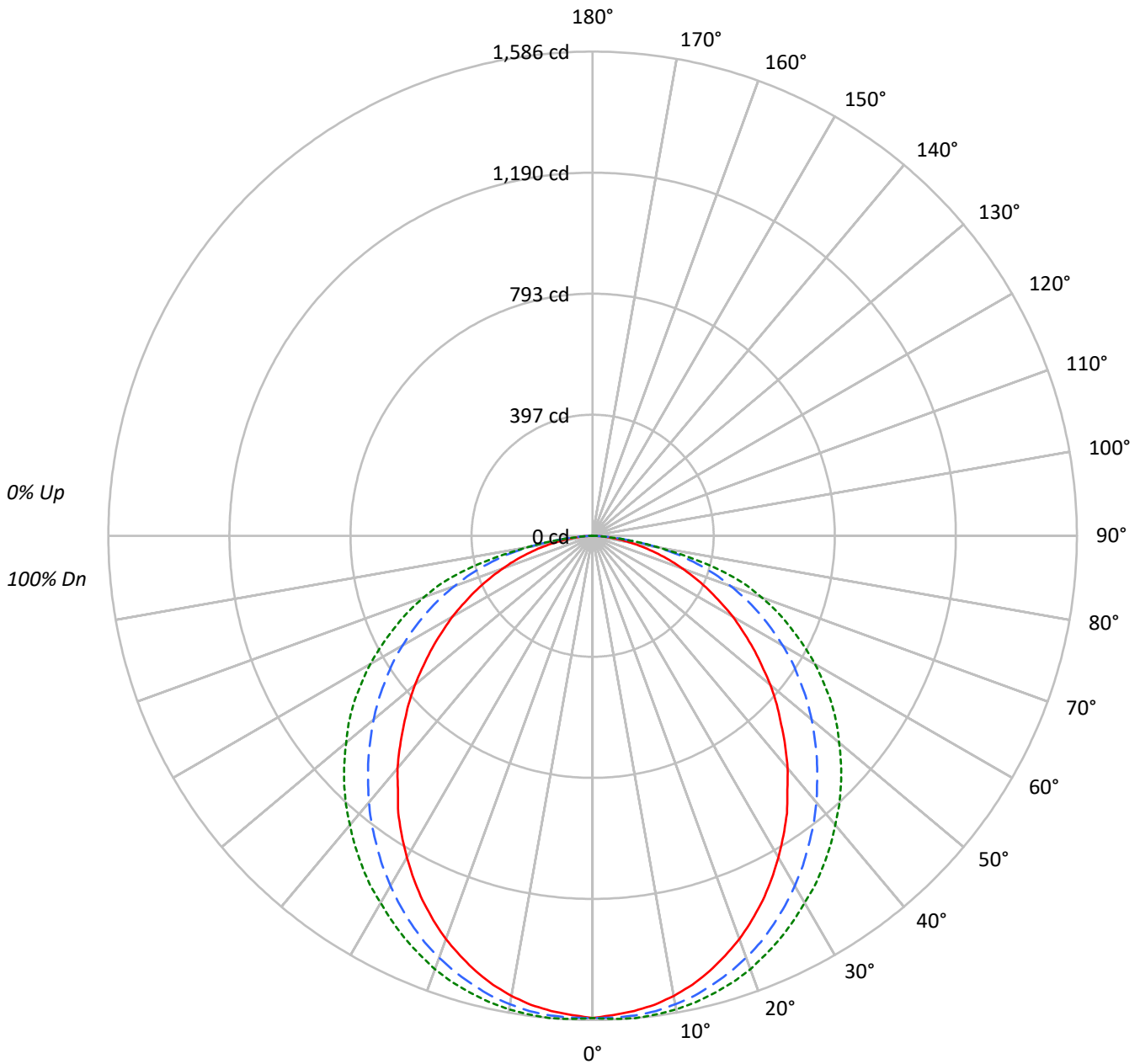
Lumens per Lamp: N/A
Luminaire Lumens: 4521.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4482	4482	4482
5°	4450	4493	4518
10°	4409	4490	4539
15°	4338	4470	4552
20°	4244	4440	4562
25°	4126	4395	4556
30°	3987	4339	4550
35°	3843	4275	4565
40°	3681	4222	4579
45°	3505	4168	4617
50°	3354	4131	4652
55°	3175	4098	4725
60°	3009	4082	4775
65°	2809	4049	4813
70°	2580	3987	4878
75°	2331	3881	4704
80°	1997	3438	3541
85°	1605	2025	1605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.3
10°-20°	428.2	9.5
20°-30°	643.1	14.2
30°-40°	767.0	17.0
40°-50°	793.0	17.5
50°-60°	729.0	16.1
60°-70°	580.4	12.8
70°-80°	354.6	7.8
80°-90°	77.0	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°	1221.0	27.0
0°-40°	1988.0	44.0
0°-60°	3510.0	77.6
0°-90°	4521.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4521.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1562	1567	1577	1584	1586	148
15°	1477	1494	1522	1543	1550	416
25°	1318	1350	1404	1442	1455	606
35°	1109	1157	1234	1299	1318	692
45°	874	936	1039	1123	1150	675
55°	642	712	828	923	955	574
65°	418	489	603	687	717	414
75°	213	275	354	416	429	226
85°	49	60	62	54	49	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1571.1	1573.1	1579.6	1584.0	1584.0
5°	1562.4	1566.7	1577.4	1584.0	1586.2
7.5°	1549.7	1556.0	1571.1	1579.6	1582.0
10°	1530.3	1539.0	1558.2	1571.1	1575.2
12.5°	1506.7	1519.6	1543.2	1560.4	1564.5
15°	1476.8	1493.8	1521.5	1543.2	1549.7
17.5°	1442.3	1463.7	1498.2	1524.0	1532.5
20°	1405.6	1427.3	1470.3	1500.2	1510.8
22.5°	1362.9	1390.8	1440.1	1474.6	1483.1
25°	1317.9	1350.0	1403.7	1442.3	1455.2
27.5°	1268.4	1307.2	1365.1	1412.4	1423.1
30°	1216.8	1257.7	1324.2	1375.8	1388.6
32.5°	1163.1	1210.5	1281.2	1339.3	1356.6
35°	1109.4	1156.8	1234.1	1298.7	1317.9
37.5°	1047.2	1103.1	1189.1	1255.7	1279.0
40°	993.8	1047.2	1139.8	1212.7	1236.3
42.5°	933.5	991.6	1088.3	1167.5	1195.5
45°	873.5	935.7	1038.7	1122.6	1150.5
47.5°	817.6	879.8	987.2	1075.4	1103.1
50°	759.8	824.2	935.7	1025.9	1053.8
52.5°	697.6	768.3	884.2	974.3	1006.7
55°	641.7	712.4	828.3	922.8	955.2
57.5°	583.6	656.8	777.0	867.2	897.3
60°	530.2	600.9	719.2	806.9	841.4
62.5°	472.1	545.0	660.9	746.9	779.2
65°	418.4	489.4	603.1	686.9	716.8
67.5°	364.7	435.9	542.8	622.5	656.8
70°	311.0	382.2	480.6	558.1	588.0
72.5°	264.1	326.3	420.6	491.5	519.5
75°	212.6	274.8	354.0	416.2	429.1
77.5°	165.2	221.1	287.7	315.4	320.0
80°	122.2	165.2	210.4	216.7	216.7
82.5°	81.4	113.7	131.0	132.9	131.0
85°	49.3	60.0	62.2	53.7	49.3
87.5°	17.0	17.0	10.7	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)