

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: P880789

Luminaire Tested: **22CZ2-50VHE-S-B2750-W2D-3500K**

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: P880789
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: 22CZ2-50VHE-S-B2750-W2D-3500K
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

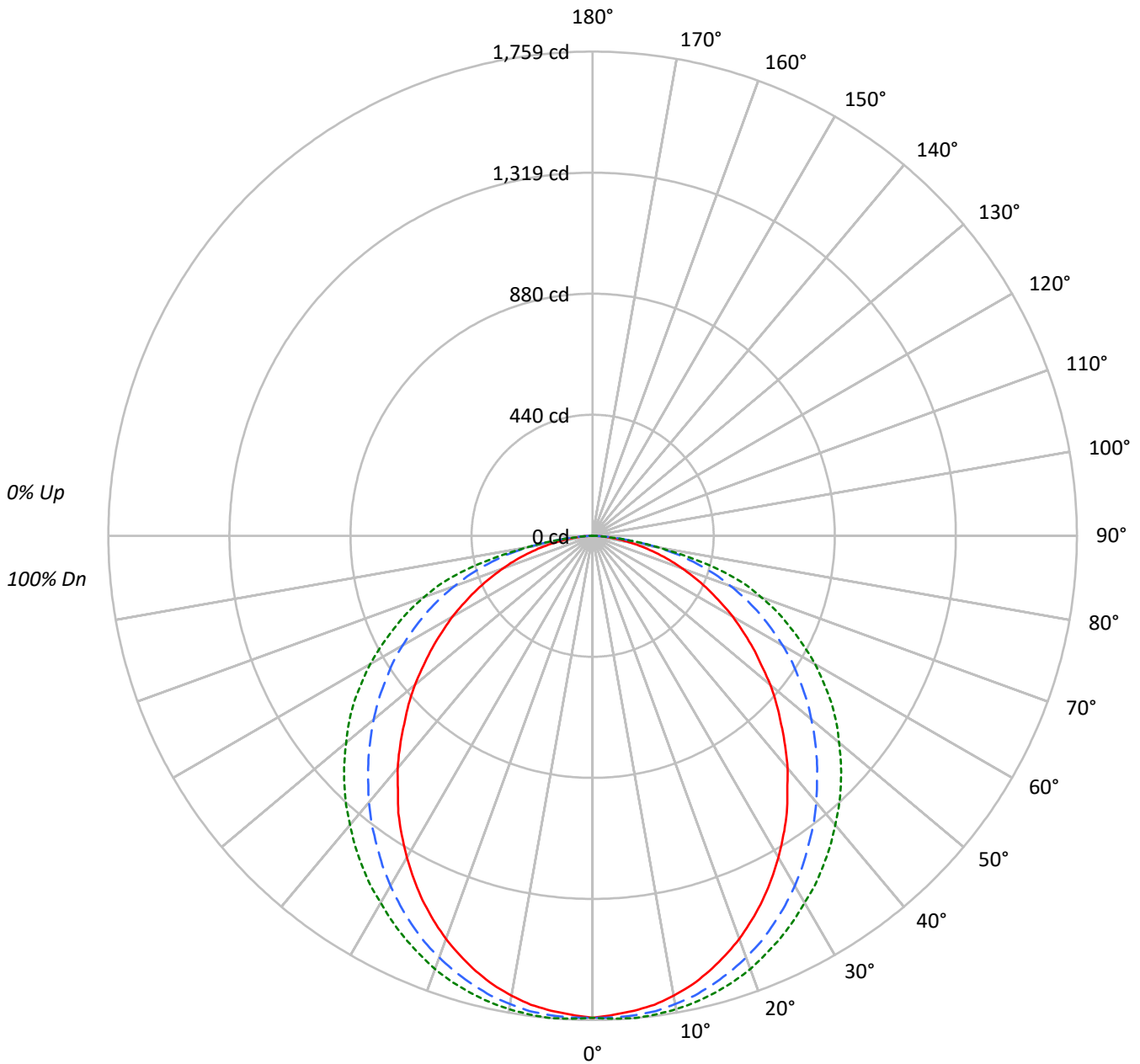
Lumens per Lamp: N/A
Luminaire Lumens: 5014.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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°	4970	4970	4970
5°	4934	4982	5009
10°	4889	4978	5032
15°	4810	4956	5048
20°	4706	4923	5059
25°	4575	4873	5052
30°	4421	4811	5045
35°	4261	4740	5062
40°	4082	4681	5078
45°	3887	4622	5119
50°	3719	4580	5158
55°	3520	4543	5239
60°	3336	4526	5295
65°	3115	4490	5336
70°	2861	4421	5409
75°	2584	4303	5216
80°	2214	3812	3927
85°	1781	2246	1781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.3
10°-20°	474.8	9.5
20°-30°	713.1	14.2
30°-40°	850.4	17.0
40°-50°	879.2	17.5
50°-60°	808.4	16.1
60°-70°	643.5	12.8
70°-80°	393.2	7.8
80°-90°	85.4	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°	1353.9	27.0
0°-40°	2204.3	44.0
0°-60°	3891.9	77.6
0°-90°	5014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1732	1737	1749	1756	1759	164
15°	1638	1656	1687	1711	1718	461
25°	1461	1497	1556	1599	1614	672
35°	1230	1283	1368	1440	1461	768
45°	969	1038	1152	1245	1276	749
55°	712	790	918	1023	1059	636
65°	464	543	669	762	795	460
75°	236	305	392	462	476	251
85°	55	66	69	60	55	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.5	1751.5	1751.5	1751.5	1751.5
2.5°	1742.0	1744.2	1751.5	1756.3	1756.3
5°	1732.3	1737.2	1749.1	1756.3	1758.7
7.5°	1718.3	1725.3	1742.0	1751.5	1754.2
10°	1696.8	1706.5	1727.8	1742.0	1746.6
12.5°	1670.7	1684.9	1711.1	1730.2	1734.8
15°	1637.5	1656.4	1687.1	1711.1	1718.3
17.5°	1599.3	1623.0	1661.2	1689.8	1699.2
20°	1558.6	1582.6	1630.2	1663.4	1675.2
22.5°	1511.2	1542.1	1596.8	1635.1	1644.5
25°	1461.3	1496.9	1556.4	1599.3	1613.5
27.5°	1406.4	1449.5	1513.6	1566.1	1578.0
30°	1349.2	1394.5	1468.3	1525.4	1539.7
32.5°	1289.7	1342.2	1420.6	1485.0	1504.2
35°	1230.2	1282.7	1368.4	1440.0	1461.3
37.5°	1161.2	1223.1	1318.5	1392.3	1418.2
40°	1101.9	1161.2	1263.8	1344.7	1370.8
42.5°	1035.1	1099.5	1206.7	1294.5	1325.5
45°	968.6	1037.5	1151.8	1244.7	1275.7
47.5°	906.6	975.6	1094.6	1192.4	1223.1
50°	842.5	913.9	1037.5	1137.5	1168.5
52.5°	773.5	851.9	980.4	1080.4	1116.2
55°	711.5	789.9	918.4	1023.2	1059.1
57.5°	647.1	728.2	861.6	961.5	995.0
60°	587.9	666.3	797.5	894.7	933.0
62.5°	523.5	604.3	732.8	828.2	864.0
65°	463.9	542.6	668.7	761.6	794.8
67.5°	404.4	483.3	601.9	690.2	728.2
70°	344.9	423.8	532.9	618.8	652.0
72.5°	292.9	361.8	466.4	545.0	576.0
75°	235.7	304.7	392.5	461.5	475.8
77.5°	183.2	245.2	319.0	349.7	354.8
80°	135.5	183.2	233.3	240.3	240.3
82.5°	90.3	126.1	145.2	147.4	145.2
85°	54.7	66.5	69.0	59.5	54.7
87.5°	18.9	18.9	11.9	7.0	2.4
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)