

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: P880773

Luminaire Tested: **22CZ2-50VHE-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: P880773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-50VHE-B2750-W2D-3000K  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

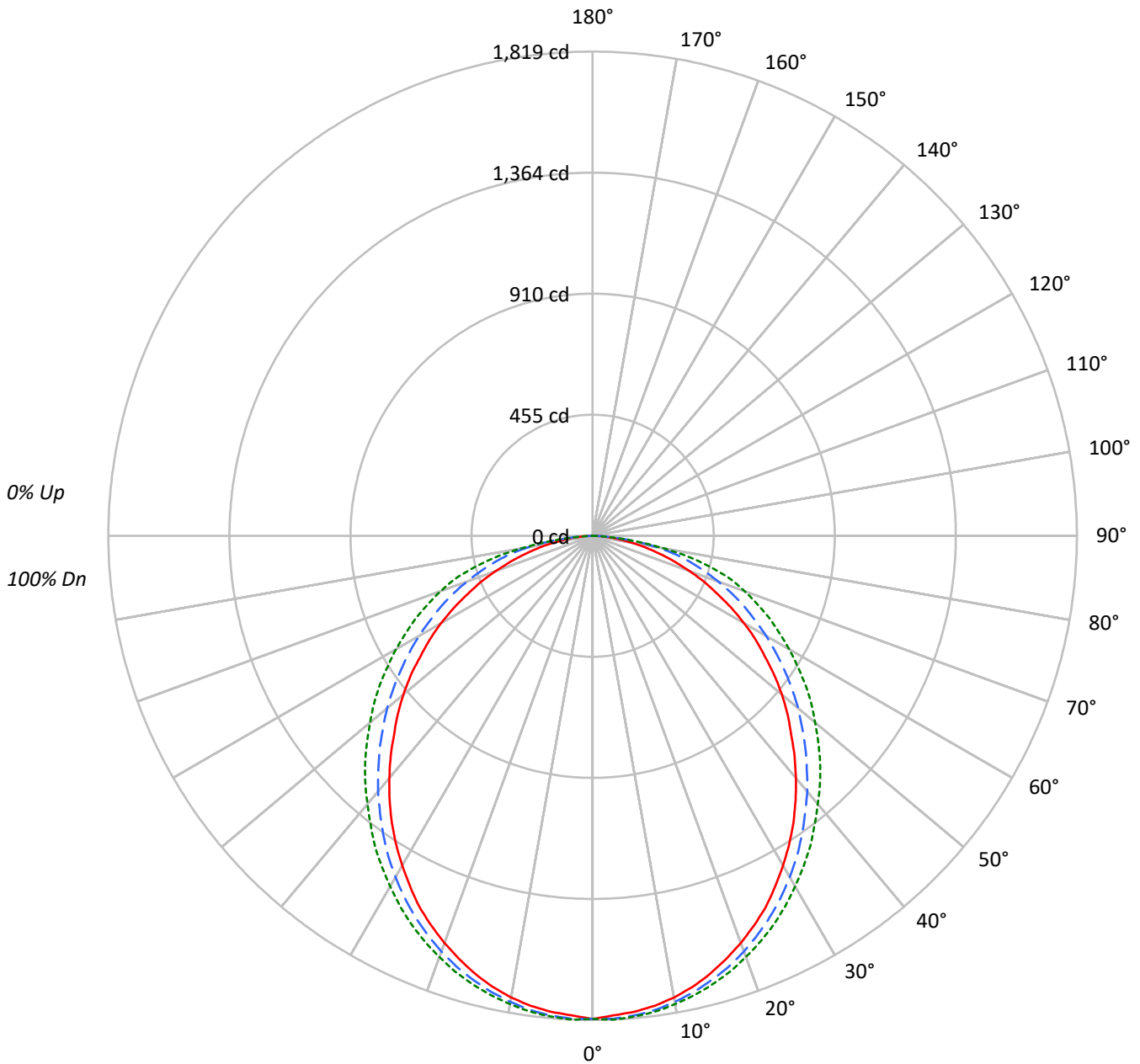
Lumens per Lamp: N/A  
Luminaire Lumens: 5005.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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									
RC	80									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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5151	5151	5151
5°	5113	5152	5164
10°	5075	5123	5148
15°	5006	5077	5124
20°	4915	5017	5085
25°	4818	4941	5044
30°	4686	4852	4984
35°	4554	4749	4936
40°	4400	4643	4874
45°	4232	4537	4851
50°	4095	4445	4814
55°	3903	4348	4824
60°	3727	4273	4839
65°	3465	4218	4915
70°	3203	4159	5036
75°	2866	4141	5068
80°	2402	3925	4423
85°	1862	2689	2513



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	3.4
10°-20°	486.8	9.7
20°-30°	725.8	14.5
30°-40°	856.9	17.1
40°-50°	873.3	17.4
50°-60°	787.5	15.7
60°-70°	619.0	12.4
70°-80°	387.6	7.7
80°-90°	96.7	1.9
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°	1384.1	27.7
0°-40°	2241.0	44.8
0°-60°	3901.8	78.0
0°-90°	5005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5005.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1795	1799	1809	1813	1813	170
15°	1704	1711	1728	1741	1744	480
25°	1539	1551	1578	1602	1611	708
35°	1315	1332	1371	1409	1425	822
45°	1054	1078	1131	1186	1209	816
55°	789	813	879	946	975	708
65°	516	548	628	698	732	515
75°	261	300	378	445	462	277
85°	57	73	83	83	77	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1815.2	1815.2	1815.2	1815.2	1815.2
2.5°	1803.4	1807.8	1816.2	1819.4	1819.4
5°	1795.0	1799.2	1808.8	1813.0	1813.0
7.5°	1781.2	1785.4	1797.2	1802.4	1803.4
10°	1761.2	1766.4	1778.0	1786.6	1786.6
12.5°	1735.8	1741.0	1755.8	1766.4	1767.4
15°	1704.0	1711.4	1728.4	1741.0	1744.2
17.5°	1667.0	1678.6	1697.6	1713.6	1716.8
20°	1627.8	1639.4	1661.6	1679.6	1684.0
22.5°	1584.4	1595.0	1621.4	1643.8	1649.0
25°	1539.0	1550.6	1578.2	1602.4	1611.0
27.5°	1485.0	1498.8	1531.6	1559.0	1567.6
30°	1430.1	1447.1	1480.8	1511.4	1521.0
32.5°	1374.1	1389.9	1427.8	1460.6	1473.5
35°	1314.7	1331.7	1370.9	1408.9	1424.9
37.5°	1252.3	1269.3	1311.7	1354.9	1369.6
40°	1187.9	1207.9	1253.5	1299.9	1315.9
42.5°	1122.3	1143.3	1190.9	1242.9	1263.9
45°	1054.5	1077.7	1130.7	1185.7	1208.9
47.5°	993.1	1012.1	1067.4	1127.5	1149.7
50°	927.6	945.6	1007.0	1067.4	1090.5
52.5°	861.0	878.0	943.6	1007.0	1035.6
55°	789.0	813.4	879.0	946.5	975.2
57.5°	725.6	747.8	815.6	884.2	911.8
60°	656.8	680.0	753.0	823.0	852.6
62.5°	588.0	613.4	687.4	762.6	790.2
65°	516.1	547.9	628.2	698.0	732.0
67.5°	454.9	485.5	564.9	637.9	667.4
70°	386.1	422.1	501.3	575.5	607.0
72.5°	321.5	357.5	438.9	513.1	544.7
75°	261.4	300.3	377.7	445.3	462.3
77.5°	203.2	240.2	317.3	356.5	374.5
80°	147.0	182.9	240.2	266.5	270.7
82.5°	99.4	130.2	163.0	170.4	166.2
85°	57.2	73.0	82.6	82.6	77.2
87.5°	23.2	23.2	20.2	12.6	7.4
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)