

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: P880967

Luminaire Tested: **24CZ2-60VHE-SQR-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: P880967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-SQR-B2750-W2D-2700K
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

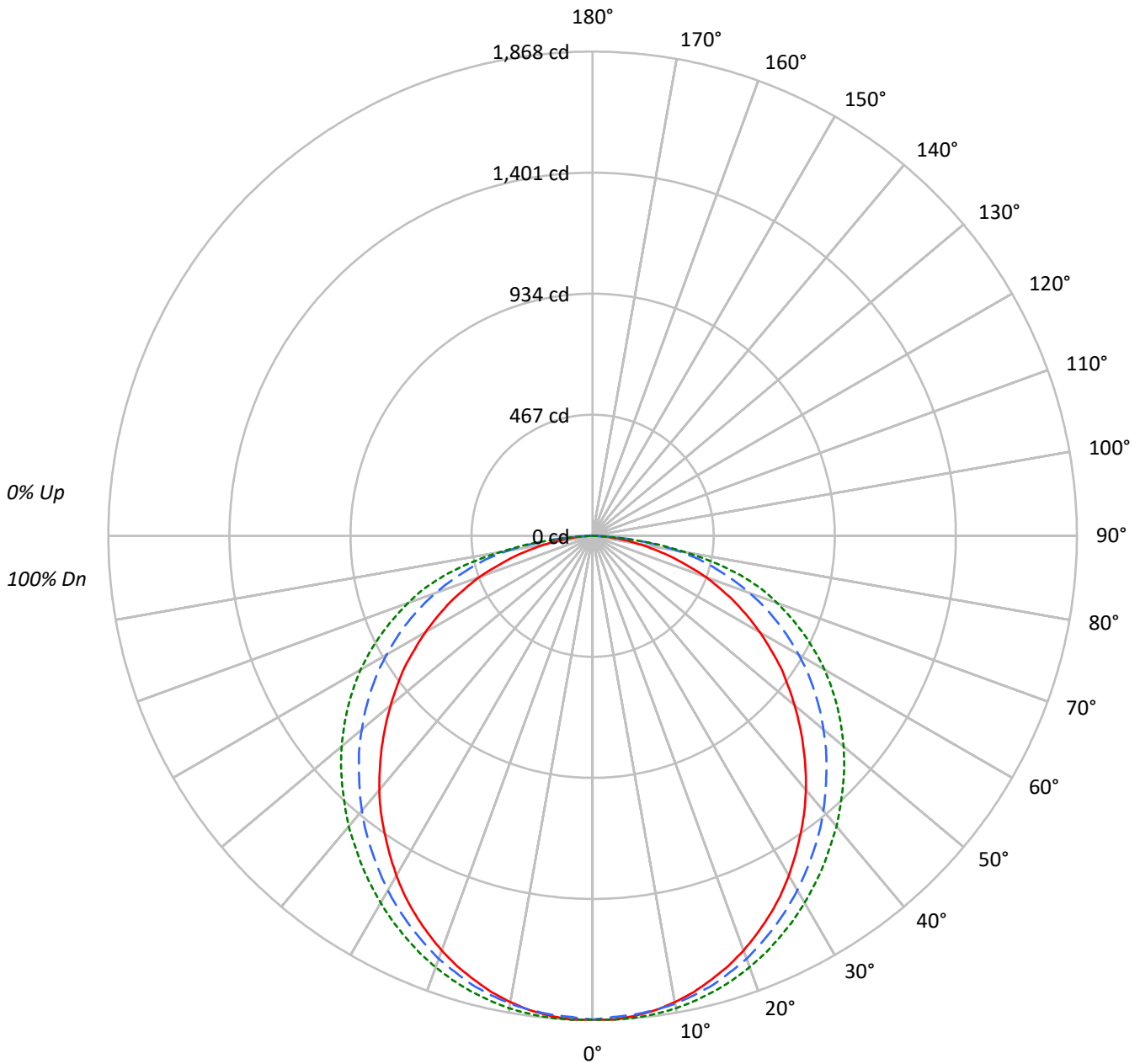
Lumens per Lamp: N/A
Luminaire Lumens: 5683.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P880967

CATALOG NUMBER: 24CZ2-60VHE-SQR-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P880967

CATALOG NUMBER: 24CZ2-60VHE-SQR-B2750-W2D-2700K

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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2635	2635	2635
5°	2634	2627	2645
10°	2618	2627	2653
15°	2589	2621	2657
20°	2557	2609	2660
25°	2515	2590	2661
30°	2467	2575	2665
35°	2411	2559	2675
40°	2358	2551	2696
45°	2294	2544	2725
50°	2233	2552	2775
55°	2181	2569	2837
60°	2107	2589	2916
65°	2022	2620	3005
70°	1918	2656	3125
75°	1718	2693	3228
80°	1447	2701	2929
85°	1074	2042	1925



TEST NUMBER: P880967

CATALOG NUMBER: 24CZ2-60VHE-SQR-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.1
10°-20°	507.0	8.9
20°-30°	767.5	13.5
30°-40°	928.4	16.3
40°-50°	980.0	17.2
50°-60°	924.1	16.3
60°-70°	761.9	13.4
70°-80°	499.8	8.8
80°-90°	137.4	2.4
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°	1451.3	25.5
0°-40°	2379.7	41.9
0°-60°	4283.9	75.4
0°-90°	5683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1859	1859	1854	1867	1867	176
15°	1772	1782	1794	1815	1819	500
25°	1615	1635	1663	1698	1709	744
35°	1399	1435	1485	1536	1553	876
45°	1149	1201	1275	1343	1366	887
55°	886	949	1044	1122	1153	789
65°	606	678	784	868	900	598
75°	315	396	494	572	592	333
85°	66	114	126	122	119	82
90°	0	0	0	0	0	



TEST NUMBER: P880967

CATALOG NUMBER: 24CZ2-60VHE-SQR-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.7	1866.7	1866.7	1866.7	1866.7
2.5°	1868.4	1866.7	1858.6	1869.4	1868.4
5°	1859.3	1859.3	1854.0	1866.7	1866.7
7.5°	1846.7	1847.6	1845.7	1860.3	1860.3
10°	1826.8	1830.4	1833.0	1849.5	1851.2
12.5°	1803.1	1809.5	1814.8	1834.9	1836.8
15°	1772.2	1782.3	1794.0	1814.8	1818.6
17.5°	1740.4	1752.4	1765.0	1792.3	1796.9
20°	1702.4	1716.0	1736.8	1764.1	1771.3
22.5°	1659.8	1678.7	1700.5	1733.2	1742.3
25°	1615.3	1635.1	1663.4	1697.8	1708.6
27.5°	1567.2	1590.6	1622.5	1662.4	1674.1
30°	1513.6	1540.6	1579.8	1622.5	1635.1
32.5°	1457.1	1489.0	1532.5	1579.8	1594.2
35°	1399.2	1435.4	1485.4	1536.3	1552.6
37.5°	1341.8	1378.2	1437.3	1490.8	1506.2
40°	1280.1	1320.0	1384.6	1441.8	1463.6
42.5°	1214.8	1262.1	1330.1	1393.7	1414.5
45°	1149.4	1201.1	1274.8	1342.8	1365.5
47.5°	1083.2	1140.3	1221.2	1290.1	1316.4
50°	1016.9	1077.7	1162.1	1236.5	1263.8
52.5°	949.7	1013.3	1104.9	1183.9	1208.5
55°	886.2	948.7	1044.1	1122.2	1153.0
57.5°	812.6	883.4	984.1	1063.3	1093.2
60°	746.3	815.4	917.1	1000.6	1033.2
62.5°	674.5	745.3	852.5	936.0	967.8
65°	605.6	678.3	784.5	868.0	899.7
67.5°	531.2	607.5	716.4	797.2	828.1
70°	464.9	536.7	643.6	726.4	757.3
72.5°	384.0	465.8	568.3	650.1	683.6
75°	315.1	395.8	493.9	572.1	591.9
77.5°	242.4	323.2	420.4	471.1	484.8
80°	178.0	254.1	332.3	359.6	360.4
82.5°	119.9	187.1	231.6	245.2	243.3
85°	66.3	114.4	126.1	122.5	118.9
87.5°	27.3	38.1	30.9	21.8	17.2
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)