

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: P880943

Luminaire Tested: **24CZ2-55VHE-SQR-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: P880943
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: 24CZ2-55VHE-SQR-B2750-W2D-3000K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

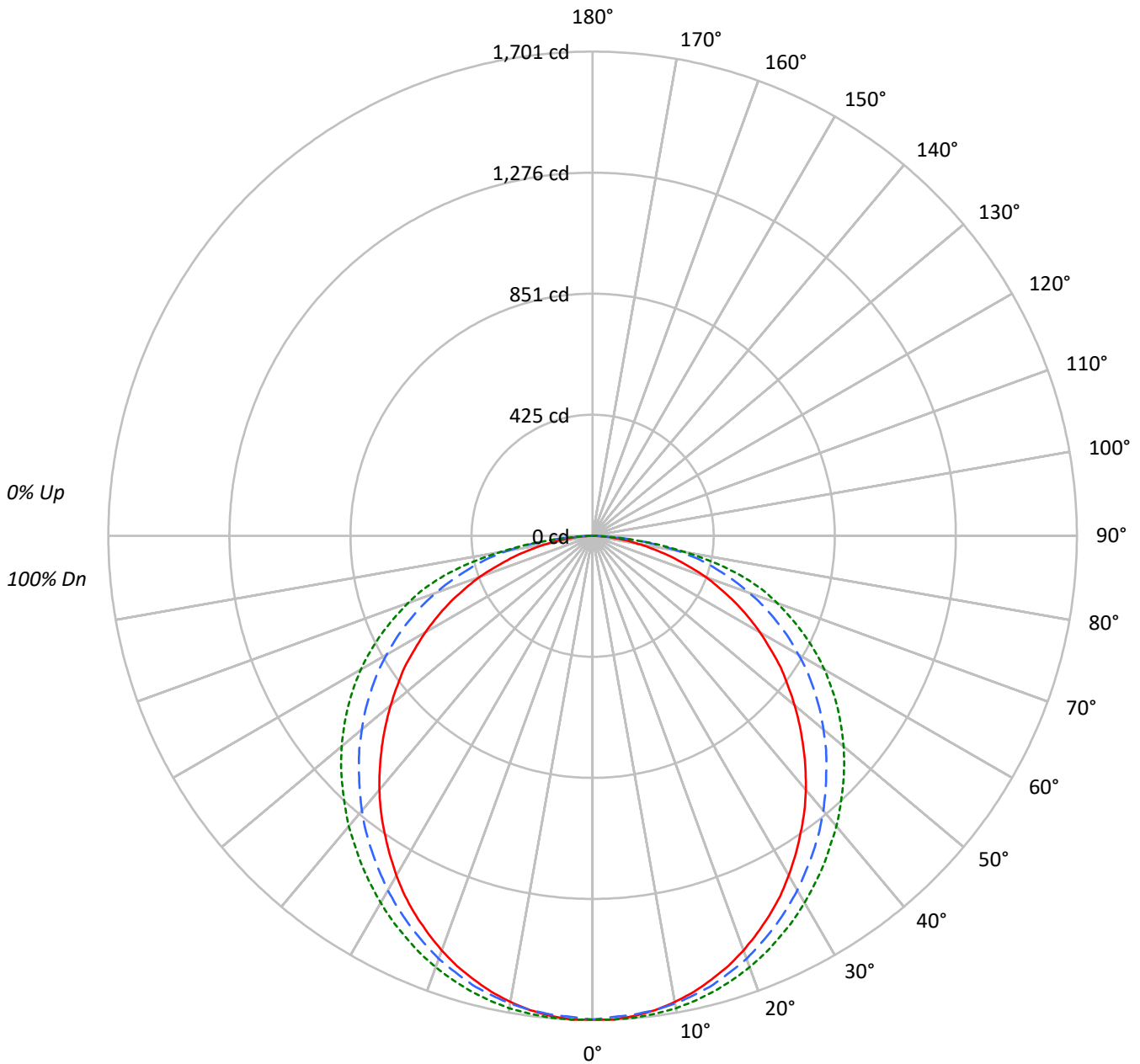
Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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	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°	2399	2399	2399
5°	2398	2391	2408
10°	2384	2392	2415
15°	2358	2386	2419
20°	2328	2375	2422
25°	2290	2358	2422
30°	2246	2344	2426
35°	2195	2330	2435
40°	2147	2322	2455
45°	2089	2316	2481
50°	2033	2323	2526
55°	1985	2339	2583
60°	1918	2357	2655
65°	1841	2385	2735
70°	1746	2418	2845
75°	1564	2452	2939
80°	1317	2459	2667
85°	976	1859	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	3.1
10°-20°	461.6	8.9
20°-30°	698.7	13.5
30°-40°	845.2	16.3
40°-50°	892.2	17.2
50°-60°	841.4	16.3
60°-70°	693.7	13.4
70°-80°	455.0	8.8
80°-90°	125.1	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°	1321.3	25.5
0°-40°	2166.6	41.9
0°-60°	3900.2	75.4
0°-90°	5174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1693	1693	1688	1700	1700	161
15°	1614	1623	1633	1652	1656	455
25°	1471	1489	1514	1546	1556	677
35°	1274	1307	1352	1399	1414	797
45°	1046	1094	1161	1222	1243	808
55°	807	864	951	1022	1050	719
65°	551	618	714	790	819	544
75°	287	360	450	521	539	303
85°	60	104	115	112	108	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1699.5	1699.5	1699.5	1699.5	1699.5
2.5°	1701.1	1699.5	1692.1	1701.9	1701.1
5°	1692.8	1692.8	1688.0	1699.5	1699.5
7.5°	1681.3	1682.1	1680.4	1693.7	1693.7
10°	1663.2	1666.4	1668.8	1683.8	1685.4
12.5°	1641.6	1647.5	1652.3	1670.6	1672.3
15°	1613.5	1622.6	1633.3	1652.3	1655.7
17.5°	1584.5	1595.4	1607.0	1631.8	1635.9
20°	1549.9	1562.3	1581.3	1606.1	1612.6
22.5°	1511.1	1528.3	1548.2	1578.0	1586.3
25°	1470.6	1488.7	1514.4	1545.8	1555.6
27.5°	1426.8	1448.2	1477.1	1513.5	1524.2
30°	1378.0	1402.7	1438.3	1477.1	1488.7
32.5°	1326.6	1355.6	1395.2	1438.3	1451.4
35°	1273.9	1306.8	1352.3	1398.7	1413.5
37.5°	1221.6	1254.7	1308.5	1357.3	1371.3
40°	1165.4	1201.8	1260.6	1312.7	1332.5
42.5°	1106.0	1149.1	1210.9	1268.9	1287.8
45°	1046.5	1093.5	1160.6	1222.5	1243.2
47.5°	986.1	1038.2	1111.8	1174.6	1198.5
50°	925.8	981.1	1058.0	1125.8	1150.6
52.5°	864.6	922.5	1006.0	1077.9	1100.3
55°	806.8	863.7	950.6	1021.7	1049.8
57.5°	739.8	804.3	896.0	968.0	995.3
60°	679.4	742.4	834.9	911.0	940.6
62.5°	614.1	678.6	776.2	852.2	881.1
65°	551.3	617.5	714.3	790.3	819.1
67.5°	483.6	553.1	652.2	725.8	753.9
70°	423.2	488.6	586.0	661.3	689.4
72.5°	349.6	424.1	517.4	591.9	622.4
75°	286.9	360.3	449.6	520.8	538.9
77.5°	220.7	294.3	382.7	428.9	441.3
80°	162.1	231.4	302.6	327.4	328.1
82.5°	109.1	170.3	210.8	223.3	221.5
85°	60.3	104.1	114.8	111.5	108.3
87.5°	24.8	34.7	28.1	19.8	15.7
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)