

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: P880892

Luminaire Tested: **24CZ2-45VHE-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: P880892
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: 24CZ2-45VHE-SQR-B2750-W2D-2700K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

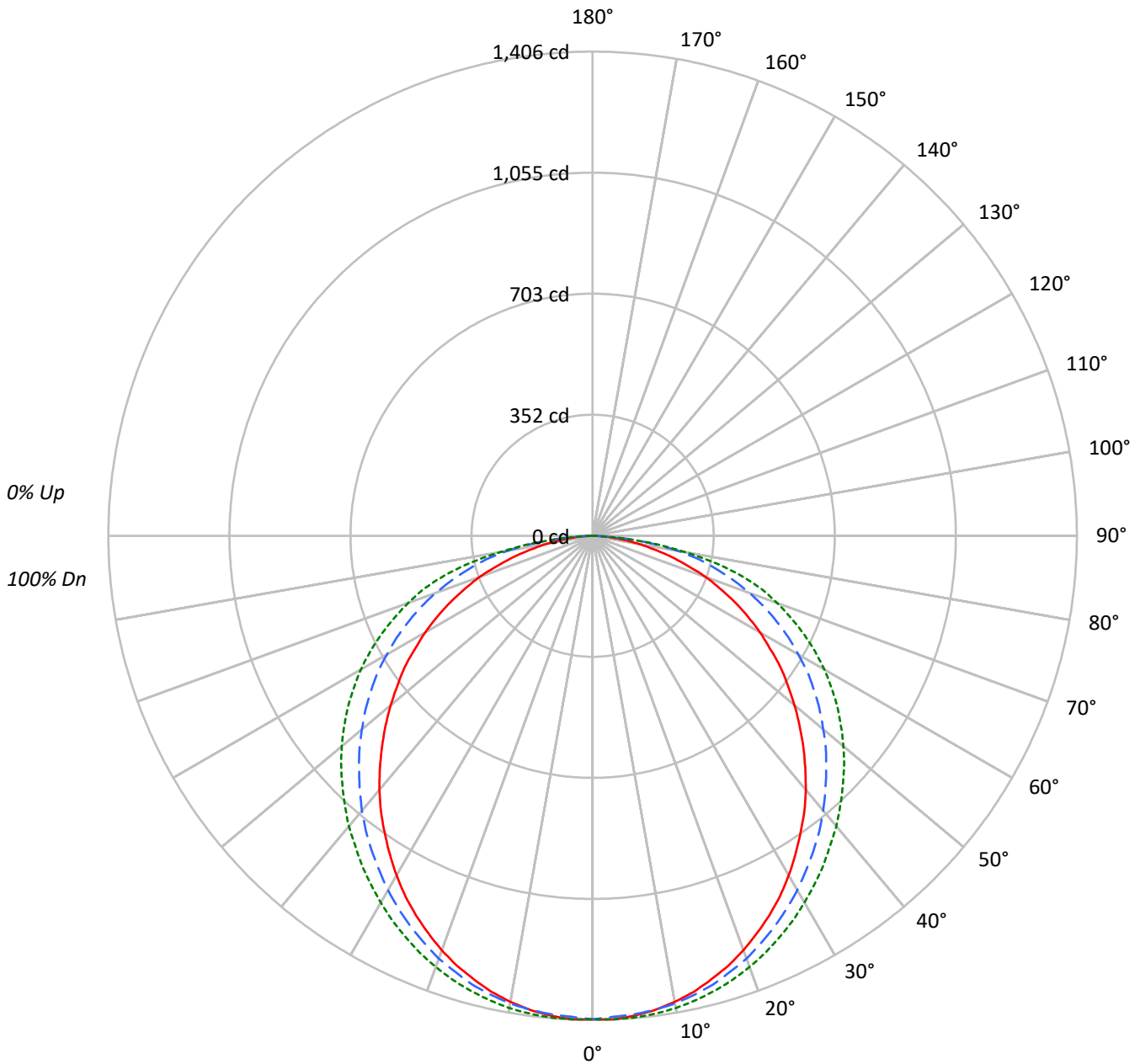
Lumens per Lamp: N/A
Luminaire Lumens: 4275.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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°	1982	1982	1982
5°	1982	1976	1989
10°	1969	1976	1996
15°	1948	1972	1999
20°	1923	1962	2001
25°	1892	1948	2002
30°	1856	1937	2004
35°	1813	1925	2012
40°	1774	1919	2028
45°	1726	1914	2050
50°	1679	1919	2087
55°	1640	1933	2134
60°	1585	1947	2194
65°	1521	1971	2260
70°	1443	1998	2350
75°	1292	2026	2428
80°	1088	2032	2203
85°	808	1537	1449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.1
10°-20°	381.4	8.9
20°-30°	577.3	13.5
30°-40°	698.4	16.3
40°-50°	737.2	17.2
50°-60°	695.2	16.3
60°-70°	573.2	13.4
70°-80°	376.0	8.8
80°-90°	103.4	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°	1091.8	25.5
0°-40°	1790.1	41.9
0°-60°	3222.5	75.4
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1399	1399	1395	1404	1404	133
15°	1333	1341	1350	1365	1368	376
25°	1215	1230	1251	1277	1285	560
35°	1052	1080	1117	1156	1168	659
45°	865	904	959	1010	1027	667
55°	667	714	785	844	867	594
65°	456	510	590	653	677	450
75°	237	298	372	430	445	250
85°	50	86	95	92	90	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1405.5	1404.2	1398.1	1406.2	1405.5
5°	1398.7	1398.7	1394.7	1404.2	1404.2
7.5°	1389.1	1389.8	1388.4	1399.4	1399.4
10°	1374.2	1376.9	1378.9	1391.3	1392.6
12.5°	1356.4	1361.2	1365.2	1380.3	1381.7
15°	1333.2	1340.7	1349.5	1365.2	1368.1
17.5°	1309.2	1318.2	1327.7	1348.3	1351.7
20°	1280.6	1290.8	1306.5	1327.0	1332.4
22.5°	1248.5	1262.8	1279.2	1303.8	1310.6
25°	1215.1	1230.0	1251.2	1277.2	1285.3
27.5°	1178.9	1196.5	1220.5	1250.5	1259.4
30°	1138.6	1158.9	1188.4	1220.5	1230.0
32.5°	1096.1	1120.1	1152.8	1188.4	1199.3
35°	1052.5	1079.7	1117.3	1155.7	1167.9
37.5°	1009.4	1036.7	1081.2	1121.5	1133.0
40°	962.9	993.0	1041.6	1084.6	1101.0
42.5°	913.8	949.4	1000.5	1048.4	1064.1
45°	864.6	903.5	958.9	1010.1	1027.2
47.5°	814.8	857.8	918.6	970.5	990.3
50°	764.9	810.7	874.2	930.2	950.7
52.5°	714.4	762.2	831.2	890.6	909.1
55°	666.6	713.7	785.4	844.1	867.4
57.5°	611.2	664.5	740.3	799.8	822.3
60°	561.4	613.4	689.9	752.7	777.2
62.5°	507.4	560.7	641.3	704.1	728.0
65°	455.5	510.2	590.2	653.0	676.8
67.5°	399.6	457.0	538.9	599.7	622.9
70°	349.7	403.7	484.2	546.4	569.6
72.5°	288.9	350.4	427.5	489.0	514.2
75°	237.0	297.7	371.5	430.3	445.3
77.5°	182.3	243.2	316.2	354.4	364.7
80°	133.9	191.2	250.0	270.5	271.1
82.5°	90.2	140.7	174.2	184.5	183.0
85°	49.9	86.0	94.9	92.2	89.5
87.5°	20.5	28.6	23.2	16.4	13.0
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)