

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: P880872

Luminaire Tested: **24CZ2-45VHE-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: P880872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45VHE-B2750-W2D-2700K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

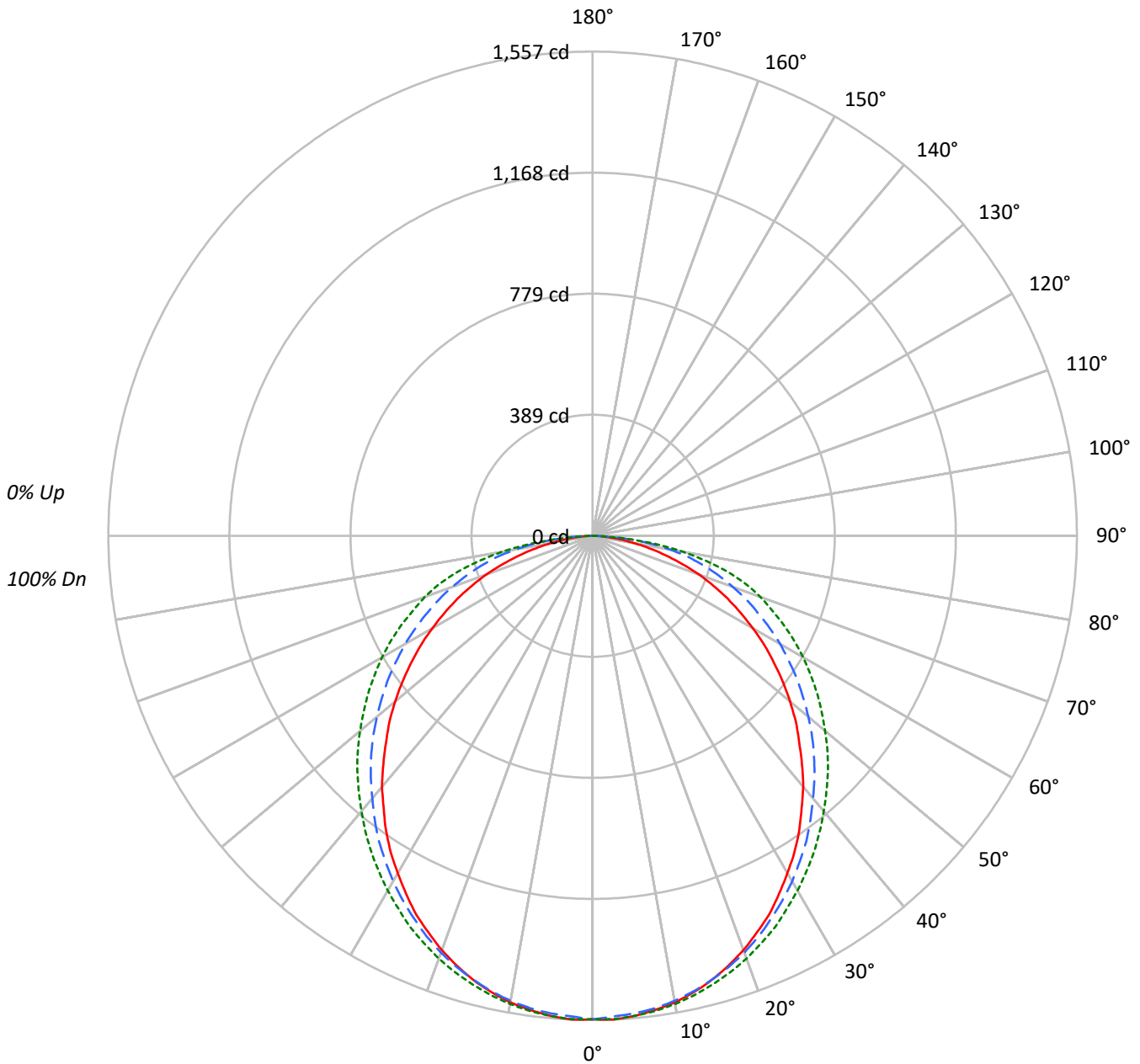
Lumens per Lamp: N/A
Luminaire Lumens: 4500.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): 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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2195	2195	2195
5°	2196	2184	2196
10°	2184	2176	2191
15°	2162	2160	2182
20°	2129	2142	2173
25°	2092	2116	2162
30°	2041	2091	2147
35°	1995	2064	2138
40°	1941	2030	2130
45°	1875	2010	2136
50°	1818	1987	2142
55°	1751	1973	2166
60°	1679	1964	2206
65°	1600	1957	2263
70°	1506	1977	2367
75°	1325	2018	2462
80°	1105	2033	2375
85°	790	1742	1765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.3
10°-20°	418.7	9.3
20°-30°	628.1	14.0
30°-40°	749.9	16.7
40°-50°	776.8	17.3
50°-60°	715.1	15.9
60°-70°	576.9	12.8
70°-80°	376.9	8.4
80°-90°	110.5	2.5
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°	1193.9	26.5
0°-40°	1943.8	43.2
0°-60°	3435.7	76.4
0°-90°	4500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1550	1548	1542	1551	1550	147
15°	1479	1479	1479	1493	1493	417
25°	1344	1346	1359	1383	1388	618
35°	1158	1168	1198	1231	1241	723
45°	939	963	1007	1052	1070	726
55°	712	742	802	861	880	637
65°	479	512	586	653	678	474
75°	243	289	370	434	452	259
85°	49	84	108	114	109	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.0	1555.0	1555.0	1555.0	1555.0
2.5°	1557.2	1555.0	1547.0	1556.4	1555.7
5°	1549.9	1548.5	1541.9	1550.6	1549.9
7.5°	1538.3	1537.6	1532.5	1541.9	1541.9
10°	1523.8	1522.3	1518.7	1529.6	1528.9
12.5°	1503.5	1502.7	1500.6	1513.6	1512.9
15°	1479.4	1479.4	1478.6	1493.3	1493.3
17.5°	1450.3	1451.1	1454.0	1470.7	1471.4
20°	1417.7	1420.6	1426.4	1445.3	1446.7
22.5°	1380.5	1386.3	1394.3	1415.5	1417.7
25°	1343.5	1346.4	1358.7	1383.4	1388.5
27.5°	1298.3	1305.8	1321.7	1347.1	1352.2
30°	1252.6	1262.8	1283.1	1309.4	1317.4
32.5°	1207.5	1216.3	1240.3	1270.0	1279.5
35°	1158.1	1168.3	1198.0	1230.8	1241.0
37.5°	1103.5	1119.5	1150.9	1188.6	1199.5
40°	1053.5	1068.0	1102.1	1144.3	1155.9
42.5°	996.0	1014.1	1055.6	1098.5	1113.0
45°	939.2	962.6	1006.9	1052.0	1070.1
47.5°	886.2	905.1	957.5	1008.3	1024.3
50°	828.0	849.8	905.1	959.0	975.6
52.5°	770.7	796.8	852.7	909.5	927.6
55°	711.7	742.2	801.9	860.8	880.4
57.5°	655.0	685.6	747.3	809.9	830.2
60°	594.7	627.4	695.8	756.0	781.6
62.5°	536.5	569.2	641.2	706.7	730.6
65°	479.0	511.8	586.0	652.8	677.6
67.5°	419.5	455.1	534.3	599.1	623.0
70°	364.9	399.1	479.0	548.1	573.5
72.5°	302.4	343.2	424.6	492.8	516.9
75°	242.9	288.6	370.0	434.0	451.5
77.5°	187.6	233.4	314.7	362.8	373.7
80°	136.0	182.5	250.1	283.5	292.2
82.5°	88.0	136.0	181.0	203.5	206.4
85°	48.8	84.3	107.6	114.1	109.0
87.5°	17.4	31.9	31.2	25.4	20.3
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)