

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: P880901

Luminaire Tested: **24CZ2-50VHE-B2750-W2D-5000K**

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: P880901
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: 24CZ2-50VHE-B2750-W2D-5000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

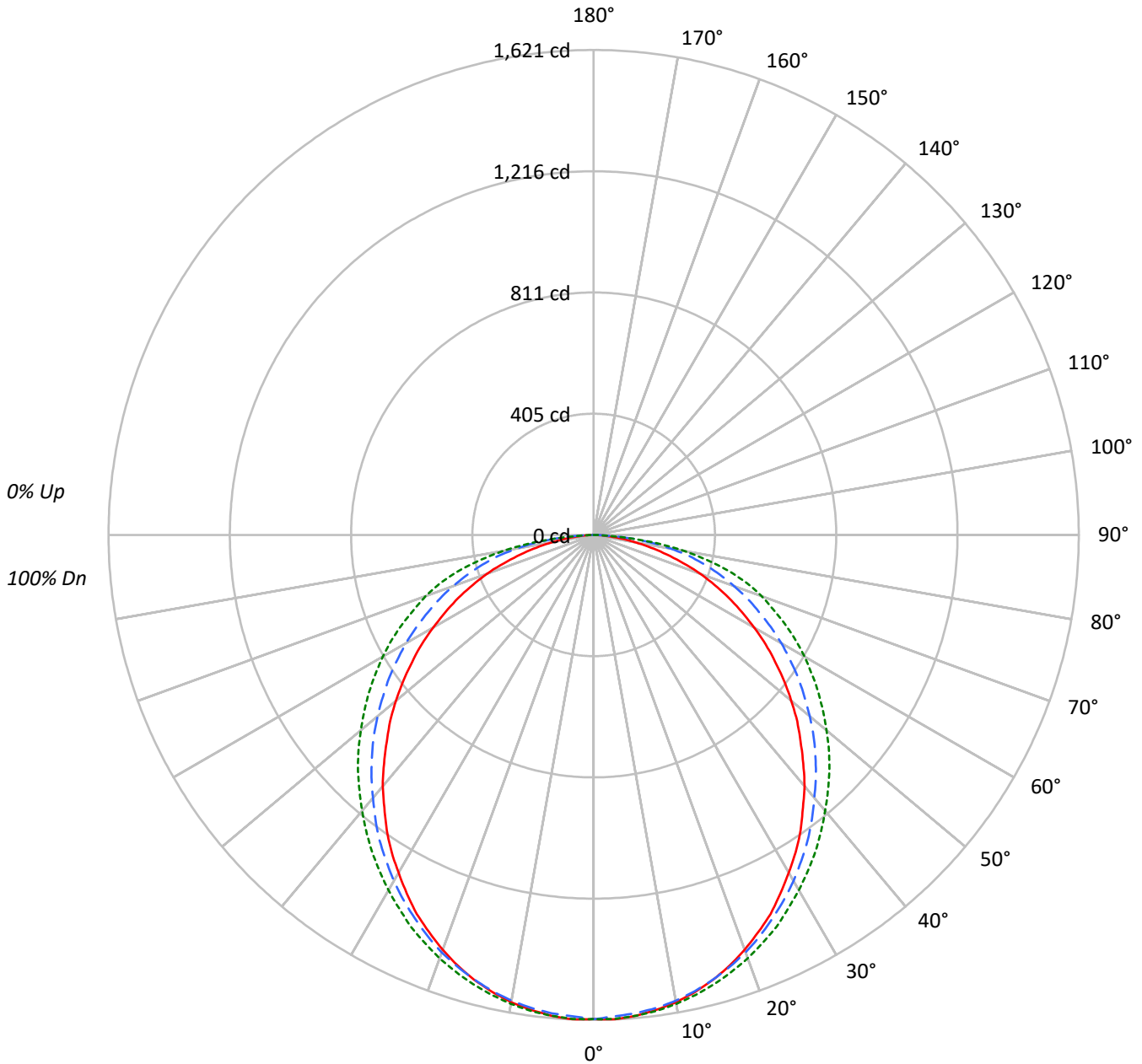
Lumens per Lamp: N/A
Luminaire Lumens: 4684.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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	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°	2284	2284	2284
5°	2286	2274	2286
10°	2273	2265	2281
15°	2250	2249	2271
20°	2216	2230	2262
25°	2178	2202	2251
30°	2125	2177	2235
35°	2077	2148	2226
40°	2020	2113	2217
45°	1951	2092	2223
50°	1892	2069	2230
55°	1823	2054	2255
60°	1748	2044	2296
65°	1665	2037	2355
70°	1568	2057	2464
75°	1379	2100	2562
80°	1151	2116	2472
85°	823	1814	1838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.3
10°-20°	435.8	9.3
20°-30°	653.8	14.0
30°-40°	780.6	16.7
40°-50°	808.6	17.3
50°-60°	744.4	15.9
60°-70°	600.5	12.8
70°-80°	392.3	8.4
80°-90°	115.0	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°	1242.7	26.5
0°-40°	2023.3	43.2
0°-60°	3576.2	76.3
0°-90°	4684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1619	1619	1619	1619	1619	
5°	1613	1612	1605	1614	1613	153
15°	1540	1540	1539	1554	1554	434
25°	1398	1401	1414	1440	1445	643
35°	1206	1216	1247	1281	1292	753
45°	978	1002	1048	1095	1114	756
55°	741	773	835	896	916	663
65°	499	533	610	680	705	493
75°	253	300	385	452	470	270
85°	51	88	112	119	114	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1618.6	1618.6	1618.6	1618.6	1618.6
2.5°	1620.8	1618.6	1610.3	1620.1	1619.3
5°	1613.3	1611.8	1605.0	1614.0	1613.3
7.5°	1601.2	1600.4	1595.2	1605.0	1605.0
10°	1586.1	1584.6	1580.8	1592.1	1591.4
12.5°	1564.9	1564.2	1561.9	1575.5	1574.8
15°	1539.9	1539.9	1539.1	1554.4	1554.4
17.5°	1509.6	1510.4	1513.4	1530.8	1531.5
20°	1475.6	1478.7	1484.7	1504.3	1505.9
22.5°	1437.0	1443.0	1451.3	1473.4	1475.6
25°	1398.4	1401.4	1414.3	1440.0	1445.3
27.5°	1351.4	1359.1	1375.8	1402.2	1407.5
30°	1303.8	1314.4	1335.6	1362.9	1371.2
32.5°	1256.8	1266.1	1291.0	1322.0	1331.8
35°	1205.5	1216.1	1247.0	1281.2	1291.8
37.5°	1148.7	1165.3	1197.9	1237.2	1248.5
40°	1096.5	1111.6	1147.1	1191.1	1203.2
42.5°	1036.7	1055.6	1098.8	1143.4	1158.5
45°	977.6	1001.9	1048.0	1095.0	1113.9
47.5°	922.5	942.1	996.7	1049.5	1066.2
50°	861.9	884.5	942.1	998.2	1015.5
52.5°	802.2	829.4	887.6	946.6	965.5
55°	740.8	772.6	834.7	896.0	916.4
57.5°	681.8	713.6	777.9	843.0	864.1
60°	619.1	653.1	724.2	786.9	813.5
62.5°	558.5	592.5	667.4	735.6	760.5
65°	498.6	532.8	610.0	679.5	705.3
67.5°	436.7	473.7	556.2	623.6	648.5
70°	379.9	415.4	498.6	570.6	597.0
72.5°	314.7	357.2	442.0	513.0	538.1
75°	252.8	300.4	385.2	451.8	469.9
77.5°	195.2	243.0	327.6	377.6	388.9
80°	141.6	189.9	260.3	295.1	304.2
82.5°	91.6	141.6	188.4	211.8	214.9
85°	50.8	87.8	112.0	118.8	113.5
87.5°	18.1	33.2	32.5	26.4	21.2
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)