

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: P880723

Luminaire Tested: **22CZ2-39VHE-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: P880723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39VHE-B2750-W2D-3000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

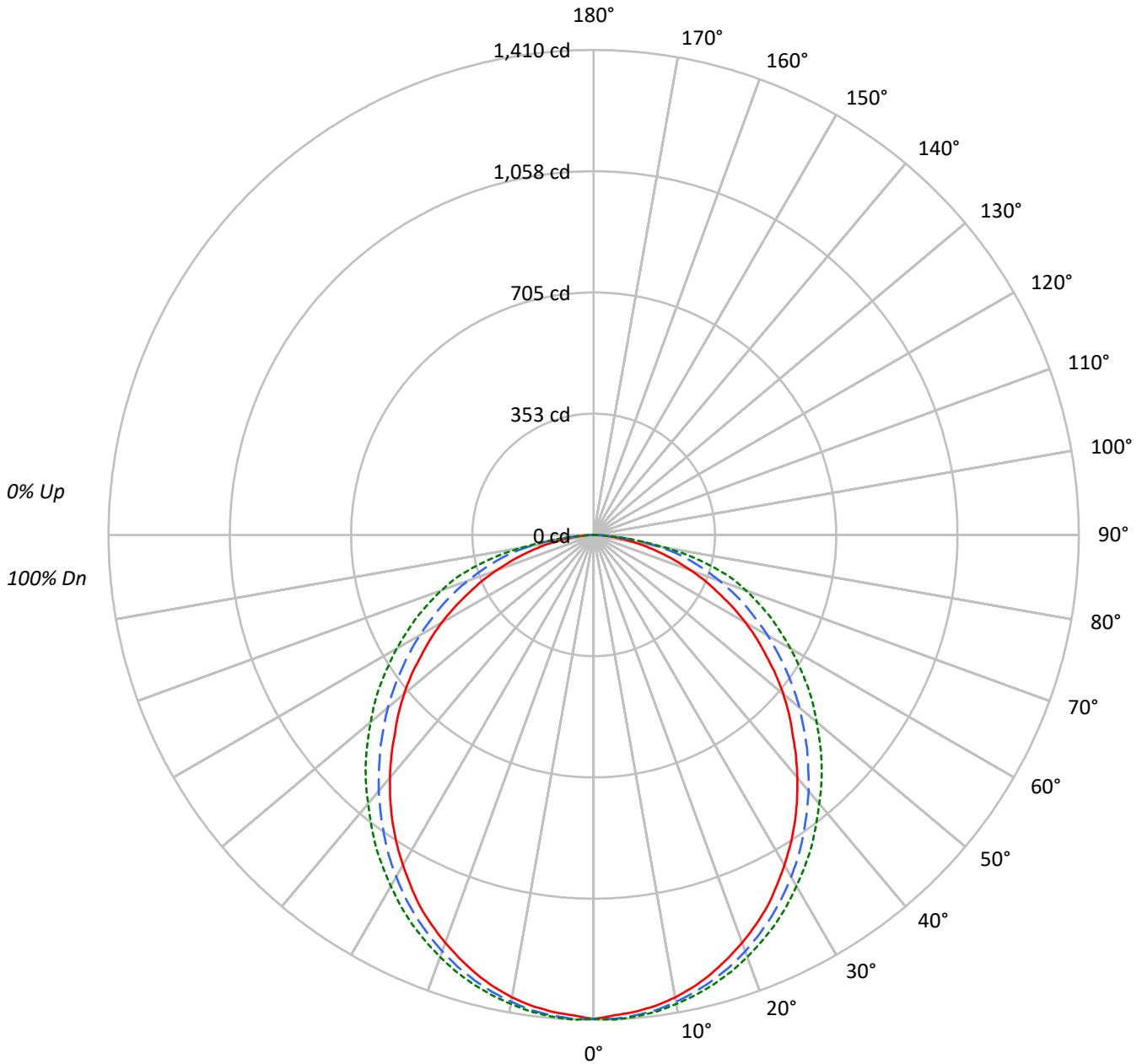
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3880.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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					20					
RC	80					70					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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83								
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69								
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3993	3993	3993
5°	3964	3994	4003
10°	3934	3971	3991
15°	3881	3936	3972
20°	3810	3890	3942
25°	3735	3831	3910
30°	3632	3761	3863
35°	3530	3681	3826
40°	3411	3600	3779
45°	3281	3518	3761
50°	3174	3446	3732
55°	3026	3371	3740
60°	2890	3313	3751
65°	2686	3270	3810
70°	2483	3224	3904
75°	2221	3210	3929
80°	1861	3043	3430
85°	1442	2084	1947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.4
10°-20°	377.4	9.7
20°-30°	562.7	14.5
30°-40°	664.3	17.1
40°-50°	677.0	17.4
50°-60°	610.5	15.7
60°-70°	479.9	12.4
70°-80°	300.5	7.7
80°-90°	74.9	1.9
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°	1073.0	27.7
0°-40°	1737.2	44.8
0°-60°	3024.8	78.0
0°-90°	3880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1392	1395	1402	1406	1406	132
15°	1321	1327	1340	1350	1352	372
25°	1193	1202	1224	1242	1249	548
35°	1019	1032	1063	1092	1105	637
45°	818	836	877	919	937	632
55°	612	631	681	734	756	549
65°	400	425	487	541	568	399
75°	203	233	293	345	358	215
85°	44	57	64	64	60	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.2	1407.2	1407.2	1407.2	1407.2
2.5°	1398.0	1401.4	1407.9	1410.4	1410.4
5°	1391.5	1394.8	1402.2	1405.5	1405.5
7.5°	1380.8	1384.0	1393.2	1397.2	1398.0
10°	1365.3	1369.3	1378.3	1385.0	1385.0
12.5°	1345.6	1349.6	1361.1	1369.3	1370.1
15°	1321.0	1326.7	1339.9	1349.6	1352.1
17.5°	1292.3	1301.3	1316.0	1328.4	1330.9
20°	1261.9	1270.9	1288.1	1302.0	1305.5
22.5°	1228.3	1236.5	1256.9	1274.3	1278.3
25°	1193.1	1202.1	1223.5	1242.2	1248.9
27.5°	1151.2	1161.9	1187.4	1208.6	1215.3
30°	1108.6	1121.8	1148.0	1171.7	1179.1
32.5°	1065.2	1077.5	1106.9	1132.3	1142.3
35°	1019.2	1032.4	1062.7	1092.2	1104.6
37.5°	970.8	984.0	1016.9	1050.3	1061.8
40°	920.9	936.4	971.8	1007.7	1020.1
42.5°	870.1	886.3	923.2	963.5	979.8
45°	817.5	835.5	876.6	919.2	937.2
47.5°	769.9	784.6	827.4	874.1	891.3
50°	719.1	733.0	780.6	827.4	845.4
52.5°	667.5	680.7	731.5	780.6	802.8
55°	611.6	630.6	681.4	733.8	756.0
57.5°	562.5	579.7	632.3	685.4	706.8
60°	509.2	527.2	583.7	638.0	661.0
62.5°	455.9	475.6	532.9	591.2	612.6
65°	400.1	424.7	487.0	541.1	567.5
67.5°	352.7	376.4	437.9	494.5	517.4
70°	299.3	327.2	388.6	446.1	470.6
72.5°	249.2	277.2	340.2	397.8	422.2
75°	202.6	232.8	292.8	345.2	358.4
77.5°	157.5	186.2	246.0	276.4	290.3
80°	113.9	141.8	186.2	206.6	209.9
82.5°	77.0	100.9	126.3	132.1	128.8
85°	44.3	56.6	64.0	64.0	59.8
87.5°	18.0	18.0	15.7	9.7	5.7
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)