

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: P880742

Luminaire Tested: **22CZ2-39VHE-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: P880742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39VHE-SQR-B2750-W2D-2700K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

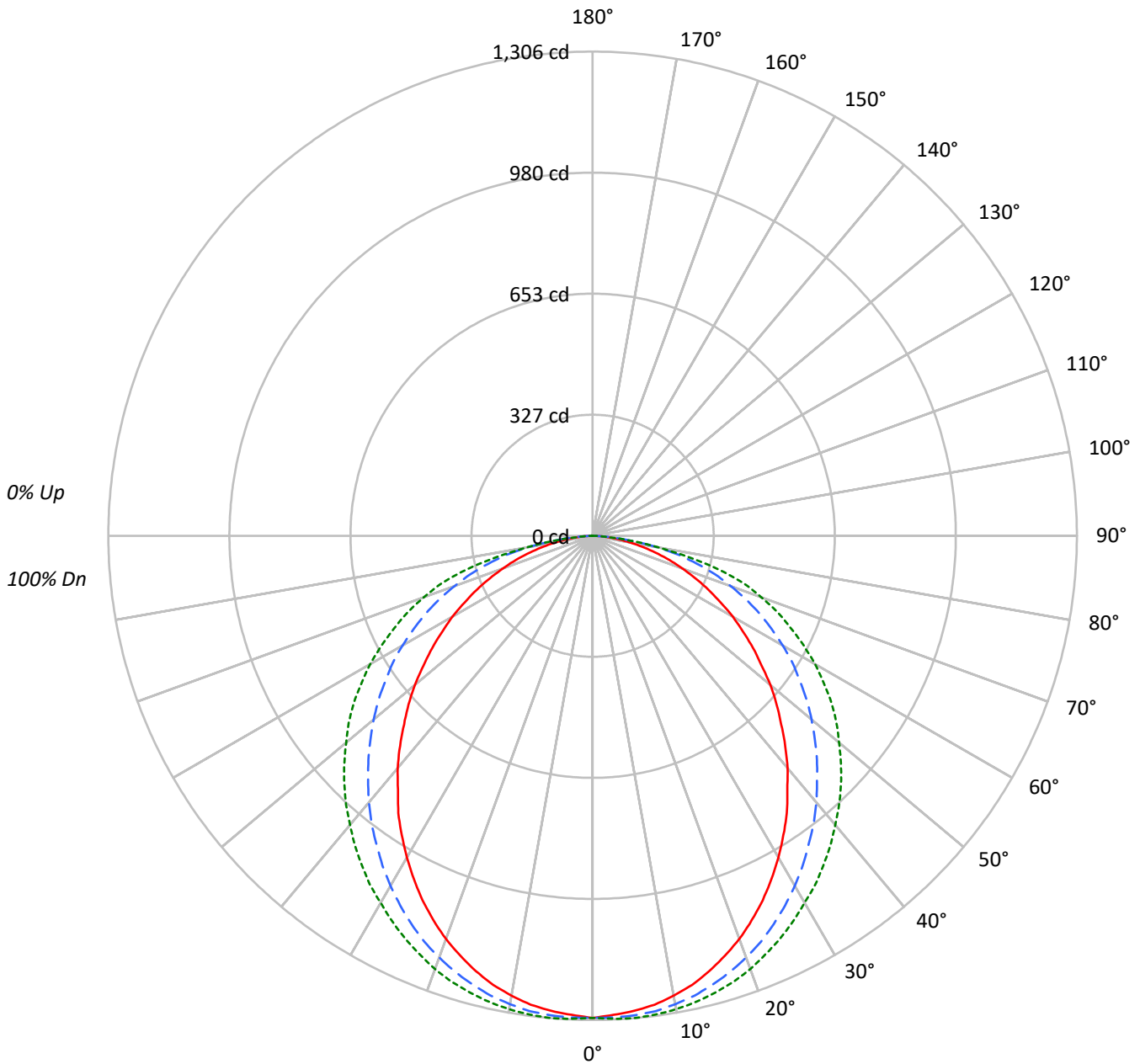
Lumens per Lamp: N/A
Luminaire Lumens: 3723.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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									
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	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	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3690	3690	3690
5°	3664	3699	3720
10°	3630	3696	3737
15°	3572	3680	3748
20°	3495	3655	3756
25°	3397	3618	3751
30°	3282	3572	3746
35°	3164	3519	3759
40°	3031	3476	3770
45°	2886	3432	3801
50°	2761	3401	3830
55°	2614	3374	3890
60°	2477	3360	3932
65°	2313	3334	3962
70°	2125	3283	4016
75°	1919	3196	3873
80°	1644	2830	2915
85°	1322	1667	1322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.3
10°-20°	352.5	9.5
20°-30°	529.5	14.2
30°-40°	631.4	17.0
40°-50°	652.9	17.5
50°-60°	600.2	16.1
60°-70°	477.8	12.8
70°-80°	291.9	7.8
80°-90°	63.4	1.7
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°	1005.3	27.0
0°-40°	1636.7	44.0
0°-60°	2889.8	77.6
0°-90°	3723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1286	1290	1299	1304	1306	122
15°	1216	1230	1253	1270	1276	342
25°	1085	1112	1156	1188	1198	499
35°	913	952	1016	1069	1085	570
45°	719	770	855	924	947	556
55°	528	586	682	760	786	473
65°	344	403	496	566	590	341
75°	175	226	292	343	353	186
85°	41	49	51	44	41	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.5	1300.5	1300.5	1300.5	1300.5
2.5°	1293.5	1295.1	1300.5	1304.1	1304.1
5°	1286.3	1289.9	1298.7	1304.1	1305.9
7.5°	1275.9	1281.1	1293.5	1300.5	1302.5
10°	1259.9	1267.1	1282.9	1293.5	1296.9
12.5°	1240.5	1251.1	1270.5	1284.7	1288.1
15°	1215.9	1229.9	1252.7	1270.5	1275.9
17.5°	1187.5	1205.1	1233.5	1254.7	1261.7
20°	1157.3	1175.1	1210.5	1235.1	1243.9
22.5°	1122.1	1145.1	1185.7	1214.1	1221.1
25°	1085.1	1111.5	1155.7	1187.5	1198.1
27.5°	1044.2	1076.3	1123.9	1162.9	1171.7
30°	1001.8	1035.4	1090.3	1132.7	1143.3
32.5°	957.6	996.6	1054.8	1102.7	1116.9
35°	913.4	952.4	1016.0	1069.3	1085.1
37.5°	862.2	908.2	979.0	1033.8	1053.0
40°	818.2	862.2	938.4	998.4	1017.8
42.5°	768.6	816.4	896.0	961.2	984.2
45°	719.2	770.4	855.2	924.2	947.2
47.5°	673.2	724.4	812.8	885.4	908.2
50°	625.5	678.6	770.4	844.6	867.6
52.5°	574.3	632.5	728.0	802.2	828.8
55°	528.3	586.5	682.0	759.8	786.4
57.5°	480.5	540.7	639.8	714.0	738.8
60°	436.5	494.7	592.1	664.4	692.8
62.5°	388.7	448.7	544.1	614.9	641.6
65°	344.5	402.9	496.5	565.5	590.1
67.5°	300.3	358.9	446.9	512.5	540.7
70°	256.1	314.7	395.7	459.5	484.1
72.5°	217.5	268.7	346.3	404.7	427.7
75°	175.0	226.3	291.5	342.7	353.3
77.5°	136.0	182.0	236.9	259.7	263.5
80°	100.6	136.0	173.2	178.4	178.4
82.5°	67.0	93.6	107.8	109.4	107.8
85°	40.6	49.4	51.2	44.2	40.6
87.5°	14.0	14.0	8.8	5.2	1.8
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)