

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: P881131

Luminaire Tested: **22CZ2-44VHE-SQR-UNV-B35**

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: P881131
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: 22CZ2-44VHE-SQR-UNV-B35
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

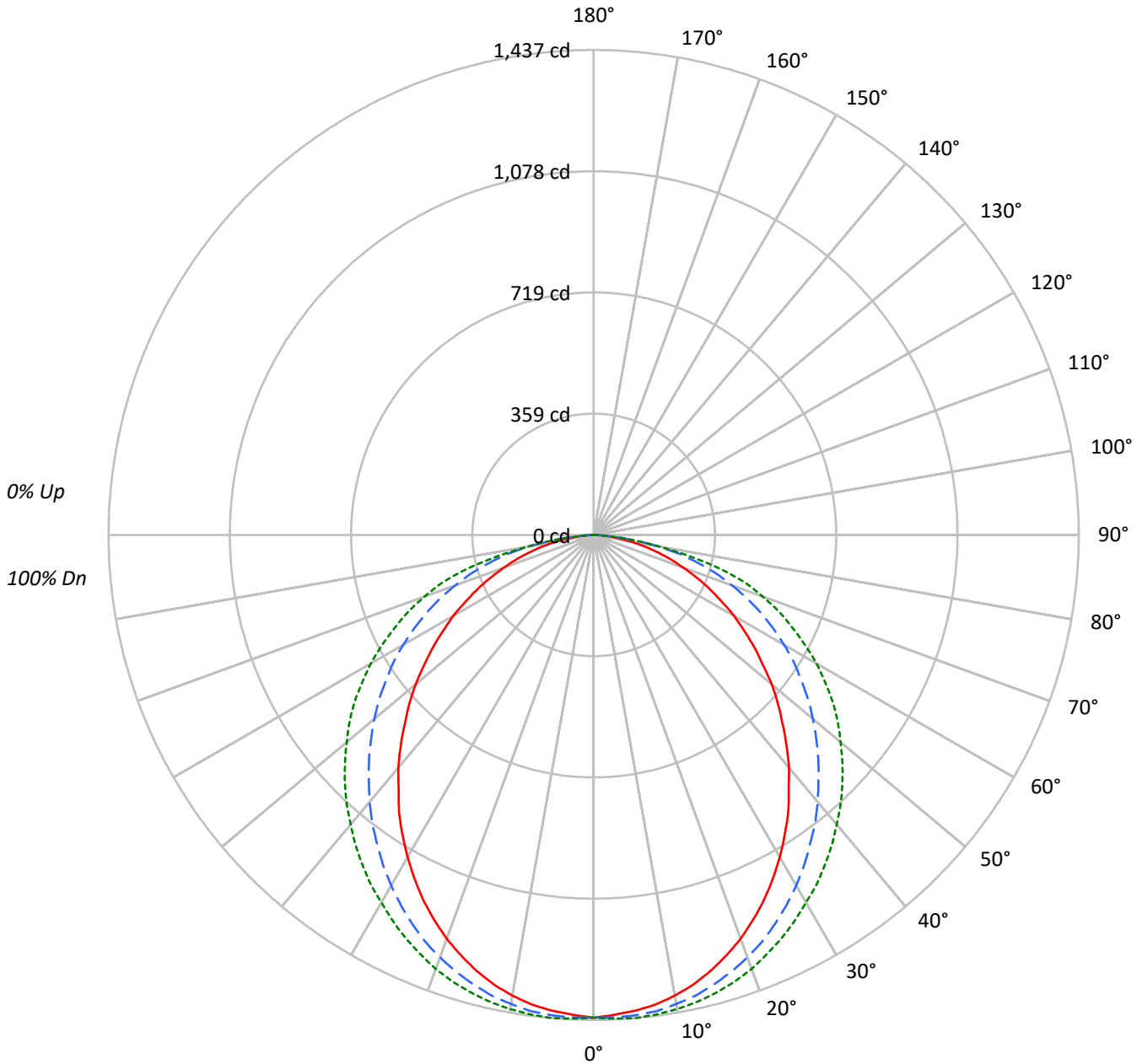
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 110.7 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): 37
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°	4060	4060	4060
5°	4031	4070	4092
10°	3994	4067	4111
15°	3930	4049	4124
20°	3845	4022	4132
25°	3738	3981	4127
30°	3611	3930	4121
35°	3481	3872	4135
40°	3334	3824	4148
45°	3175	3776	4182
50°	3038	3742	4214
55°	2876	3712	4280
60°	2725	3697	4326
65°	2545	3668	4360
70°	2337	3611	4419
75°	2112	3516	4261
80°	1809	3115	3208
85°	1455	1833	1455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.3
10°-20°	387.8	9.5
20°-30°	582.5	14.2
30°-40°	694.7	17.0
40°-50°	718.3	17.5
50°-60°	660.4	16.1
60°-70°	525.7	12.8
70°-80°	321.2	7.8
80°-90°	69.8	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°	1106.0	27.0
0°-40°	1800.7	44.0
0°-60°	3179.3	77.6
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1415	1419	1429	1435	1437	134
15°	1338	1353	1378	1398	1404	377
25°	1194	1223	1272	1306	1318	549
35°	1005	1048	1118	1176	1194	627
45°	791	848	941	1017	1042	612
55°	581	645	750	836	865	520
65°	379	443	546	622	649	375
75°	193	249	321	377	389	205
85°	45	54	56	49	45	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.8	1430.8	1430.8	1430.8	1430.8
2.5°	1423.1	1424.9	1430.8	1434.8	1434.8
5°	1415.2	1419.1	1428.8	1434.8	1436.7
7.5°	1403.7	1409.5	1423.1	1430.8	1433.0
10°	1386.1	1394.0	1411.4	1423.1	1426.8
12.5°	1364.8	1376.4	1397.8	1413.4	1417.2
15°	1337.7	1353.1	1378.2	1397.8	1403.7
17.5°	1306.5	1325.8	1357.1	1380.4	1388.1
20°	1273.2	1292.8	1331.8	1358.8	1368.5
22.5°	1234.5	1259.8	1304.5	1335.7	1343.4
25°	1193.8	1222.8	1271.5	1306.5	1318.1
27.5°	1148.9	1184.1	1236.5	1279.4	1289.1
30°	1102.2	1139.2	1199.5	1246.1	1257.8
32.5°	1053.6	1096.5	1160.5	1213.1	1228.8
35°	1004.9	1047.8	1117.8	1176.4	1193.8
37.5°	948.6	999.2	1077.1	1137.4	1158.6
40°	900.2	948.6	1032.4	1098.5	1119.8
42.5°	845.6	898.2	985.8	1057.5	1082.8
45°	791.2	847.6	940.9	1016.8	1042.1
47.5°	740.6	796.9	894.2	974.1	999.2
50°	688.2	746.5	847.6	929.2	954.5
52.5°	631.9	695.9	800.9	882.6	911.8
55°	581.3	645.3	750.3	835.9	865.2
57.5°	528.7	594.9	703.8	785.5	812.8
60°	480.2	544.3	651.5	730.9	762.2
62.5°	427.6	493.7	598.6	676.6	705.8
65°	379.0	443.3	546.3	622.2	649.3
67.5°	330.4	394.8	491.7	563.9	594.9
70°	281.7	346.2	435.3	505.5	532.6
72.5°	239.2	295.6	381.0	445.2	470.6
75°	192.6	248.9	320.7	377.0	388.7
77.5°	149.7	200.3	260.6	285.7	289.9
80°	110.7	149.7	190.6	196.3	196.3
82.5°	73.7	103.0	118.6	120.4	118.6
85°	44.7	54.4	56.3	48.6	44.7
87.5°	15.4	15.4	9.7	5.7	2.0
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)