

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: P880643

Luminaire Tested: **22CZ2-20VHE-SQR-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: P880643
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: 22CZ2-20VHE-SQR-B2750-W2D-3000K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

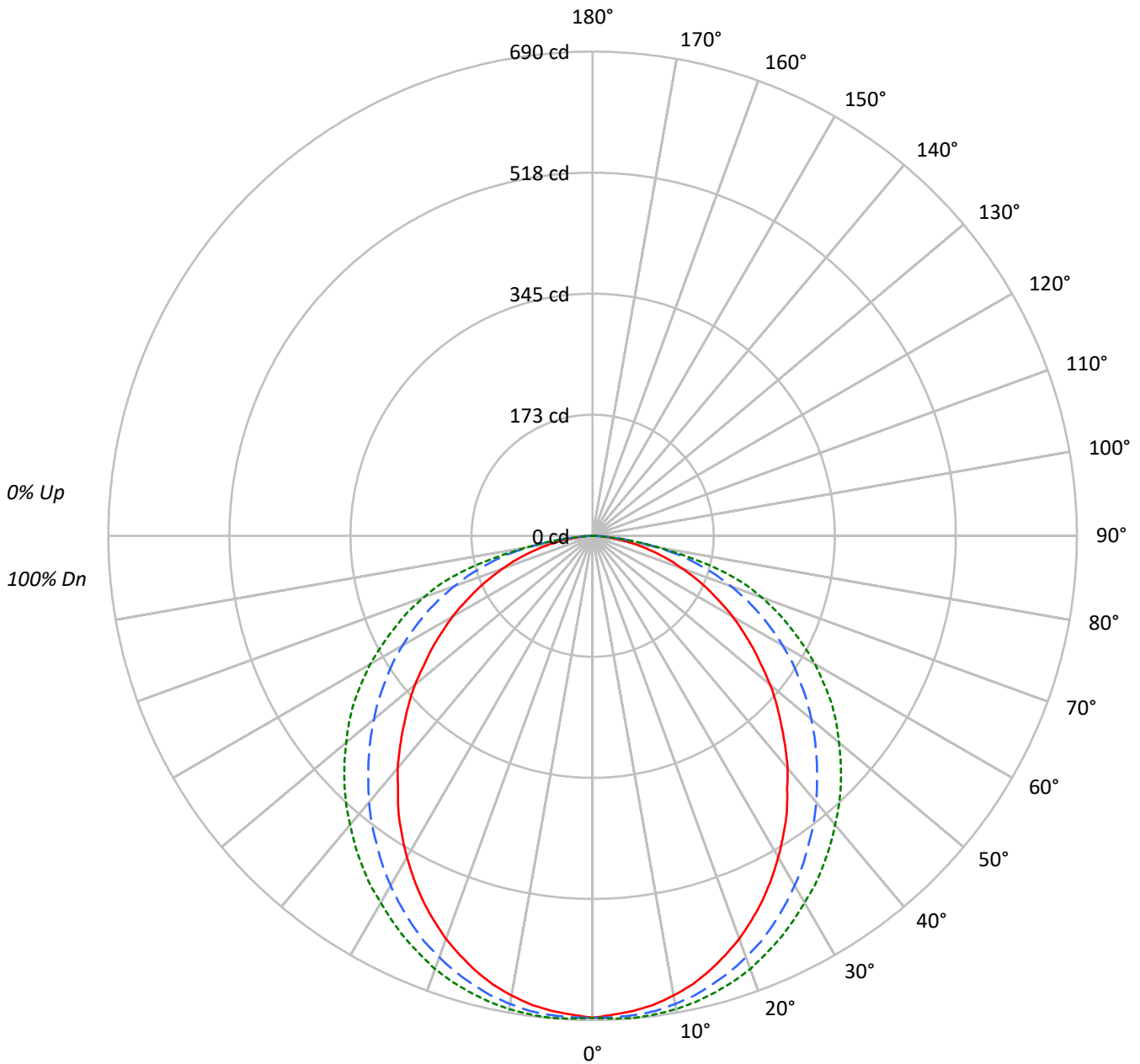
Lumens per Lamp: N/A
Luminaire Lumens: 1966.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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

TEST NUMBER: P880643

CATALOG NUMBER: 22CZ2-20VHE-SQR-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P880643

CATALOG NUMBER: 22CZ2-20VHE-SQR-B2750-W2D-3000K

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°	1949	1949	1949
5°	1935	1953	1964
10°	1917	1952	1973
15°	1886	1943	1979
20°	1845	1930	1984
25°	1794	1911	1981
30°	1733	1886	1978
35°	1671	1858	1985
40°	1601	1836	1991
45°	1524	1812	2007
50°	1458	1796	2023
55°	1380	1781	2055
60°	1308	1775	2076
65°	1221	1760	2092
70°	1122	1734	2121
75°	1013	1687	2046
80°	868	1495	1539
85°	697	879	697



TEST NUMBER: P880643

CATALOG NUMBER: 22CZ2-20VHE-SQR-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.3
10°-20°	186.2	9.5
20°-30°	279.6	14.2
30°-40°	333.4	17.0
40°-50°	344.8	17.5
50°-60°	316.9	16.1
60°-70°	252.3	12.8
70°-80°	154.2	7.8
80°-90°	33.5	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°	530.9	27.0
0°-40°	864.3	44.0
0°-60°	1526.0	77.6
0°-90°	1966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	679	681	686	689	690	64
15°	642	650	662	671	674	181
25°	573	587	610	627	633	264
35°	482	503	536	565	573	301
45°	380	407	452	488	500	294
55°	279	310	360	401	415	250
65°	182	213	262	299	312	180
75°	92	120	154	181	187	98
85°	21	26	27	23	21	25
90°	0	0	0	0	0	



TEST NUMBER: P880643

CATALOG NUMBER: 22CZ2-20VHE-SQR-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.8	686.8	686.8	686.8	686.8
2.5°	683.1	683.9	686.8	688.7	688.7
5°	679.3	681.2	685.8	688.7	689.6
7.5°	673.8	676.5	683.1	686.8	687.8
10°	665.3	669.1	677.5	683.1	684.9
12.5°	655.1	660.7	670.9	678.4	680.2
15°	642.1	649.5	661.5	670.9	673.8
17.5°	627.1	636.4	651.4	662.6	666.3
20°	611.1	620.5	639.2	652.2	656.9
22.5°	592.5	604.7	626.1	641.1	644.8
25°	573.0	586.9	610.3	627.1	632.7
27.5°	551.4	568.3	593.5	614.1	618.7
30°	529.0	546.8	575.7	598.1	603.7
32.5°	505.7	526.3	557.0	582.3	589.8
35°	482.3	502.9	536.5	564.6	573.0
37.5°	455.3	479.6	517.0	545.9	556.1
40°	432.1	455.3	495.6	527.2	537.5
42.5°	405.9	431.1	473.2	507.6	519.7
45°	379.8	406.8	451.6	488.1	500.2
47.5°	355.5	382.5	429.2	467.6	479.6
50°	330.3	358.3	406.8	446.0	458.2
52.5°	303.3	334.0	384.4	423.6	437.7
55°	279.0	309.7	360.1	401.2	415.3
57.5°	253.7	285.5	337.8	377.0	390.1
60°	230.5	261.2	312.7	350.8	365.8
62.5°	205.3	236.9	287.3	324.7	338.8
65°	181.9	212.8	262.2	298.6	311.6
67.5°	158.6	189.5	236.0	270.6	285.5
70°	135.2	166.2	209.0	242.7	255.6
72.5°	114.8	141.9	182.9	213.7	225.9
75°	92.4	119.5	153.9	181.0	186.6
77.5°	71.8	96.1	125.1	137.1	139.1
80°	53.1	71.8	91.5	94.2	94.2
82.5°	35.4	49.4	56.9	57.8	56.9
85°	21.4	26.1	27.0	23.3	21.4
87.5°	7.4	7.4	4.6	2.7	1.0
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)