

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: FAIL-SAFE

Report Number: P732518

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-SQR-B2750-W2D-CA125-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

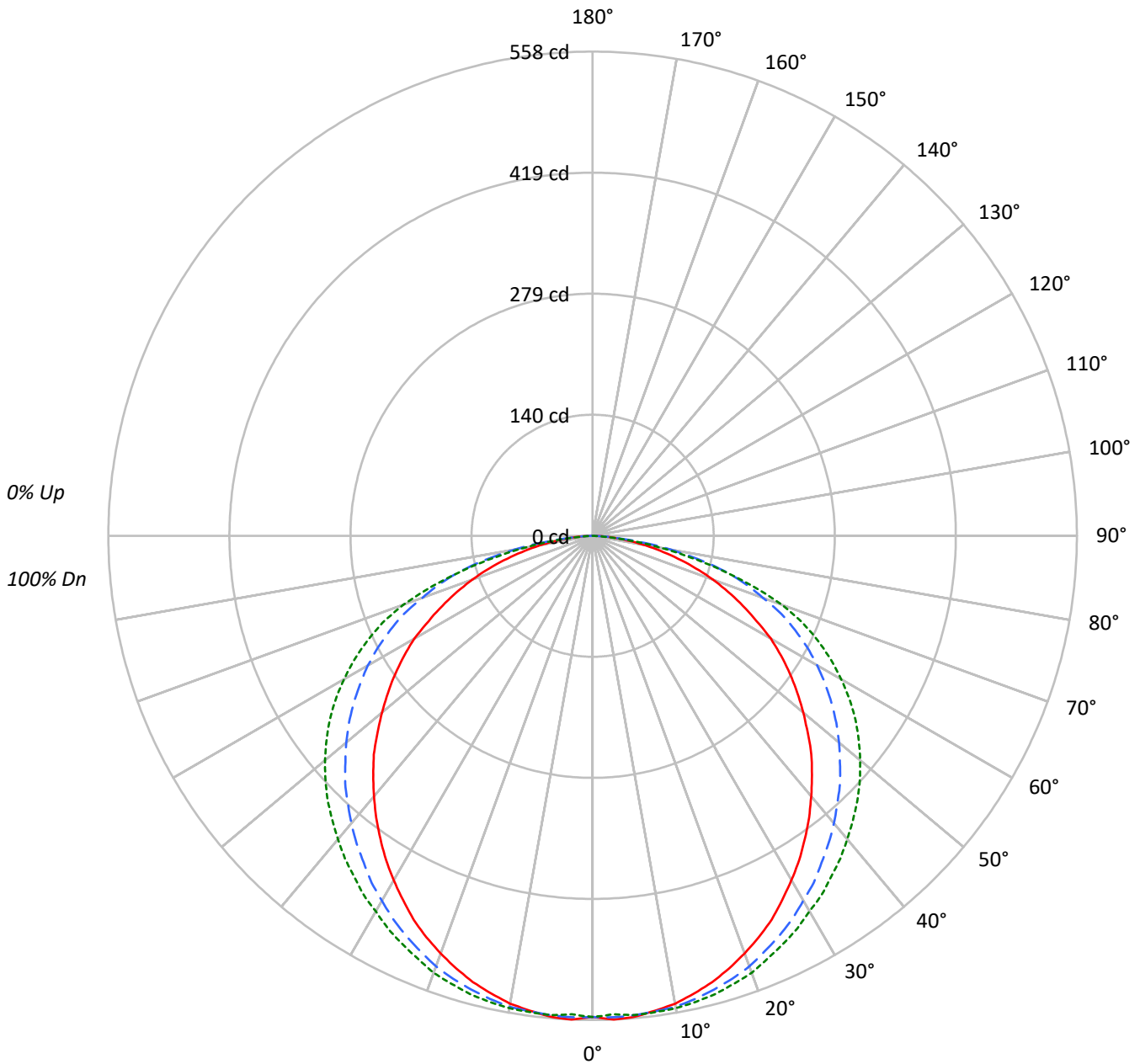
Lumens per Lamp: N/A
Luminaire Lumens: 1755.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{in}): 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: P732518

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P732518

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-3500K

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1565	1565	1565
5°	1577	1571	1571
10°	1569	1580	1584
15°	1556	1582	1598
20°	1538	1586	1610
25°	1520	1584	1617
30°	1493	1583	1629
35°	1469	1585	1652
40°	1444	1594	1682
45°	1423	1610	1723
50°	1391	1627	1767
55°	1367	1654	1819
60°	1338	1688	1867
65°	1276	1719	1914
70°	1212	1722	1912
75°	1109	1718	1688
80°	948	1466	1309
85°	745	829	489



TEST NUMBER: P732518

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.0
10°-20°	152.2	8.7
20°-30°	232.8	13.3
30°-40°	285.4	16.3
40°-50°	306.9	17.5
50°-60°	295.0	16.8
60°-70°	245.6	14.0
70°-80°	150.7	8.6
80°-90°	33.6	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°	437.8	24.9
0°-40°	723.2	41.2
0°-60°	1325.1	75.5
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	556	551	555	555	555	53
15°	532	531	541	545	547	150
25°	488	493	509	515	519	225
35°	426	437	460	472	479	267
45°	356	372	403	422	432	274
55°	278	302	336	359	370	248
65°	191	220	257	279	287	189
75°	102	133	158	157	155	108
85°	23	34	26	18	15	28
90°	0	0	0	0	0	



TEST NUMBER: P732518

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.6	554.6	554.6	554.6	554.6
2.5°	558.1	552.8	555.5	554.6	552.0
5°	556.4	551.1	554.6	554.6	554.6
7.5°	552.0	547.5	552.8	553.7	553.7
10°	547.5	544.0	551.1	552.0	552.8
12.5°	540.4	537.7	546.7	548.4	550.1
15°	532.5	530.7	541.3	544.8	546.7
17.5°	522.8	523.6	535.2	539.6	541.3
20°	512.1	514.8	528.1	532.5	536.0
22.5°	500.6	504.2	518.4	523.6	527.2
25°	488.2	492.6	508.6	514.8	519.2
27.5°	473.2	480.3	498.0	506.0	510.4
30°	458.2	466.2	485.6	495.3	499.7
32.5°	443.1	452.0	474.1	483.8	490.9
35°	426.3	437.0	459.9	472.3	479.4
37.5°	409.6	421.9	446.7	460.8	468.8
40°	391.8	405.1	432.5	448.4	456.4
42.5°	374.1	389.2	417.5	435.2	444.0
45°	356.5	372.4	403.3	421.9	431.6
47.5°	336.1	355.6	386.5	407.7	417.5
50°	316.7	337.9	370.6	392.8	402.4
52.5°	297.2	319.4	353.8	376.8	386.5
55°	277.7	301.6	336.1	359.1	369.7
57.5°	257.4	282.1	317.5	341.4	351.1
60°	237.0	262.7	299.0	321.1	330.8
62.5°	213.1	243.3	278.7	300.7	309.6
65°	191.1	220.2	257.4	278.7	286.6
67.5°	169.0	199.0	235.3	254.8	261.8
70°	146.8	177.0	208.7	227.3	231.7
72.5°	124.7	154.8	184.9	195.5	193.7
75°	101.7	132.7	157.5	156.6	154.8
77.5°	79.6	109.7	124.7	118.5	115.9
80°	58.3	87.6	90.2	84.1	80.5
82.5°	39.8	62.8	56.6	49.5	46.0
85°	23.0	34.4	25.6	17.7	15.1
87.5°	9.7	8.8	2.7	2.7	1.7
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)