

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: P732520

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732520
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-CA125-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

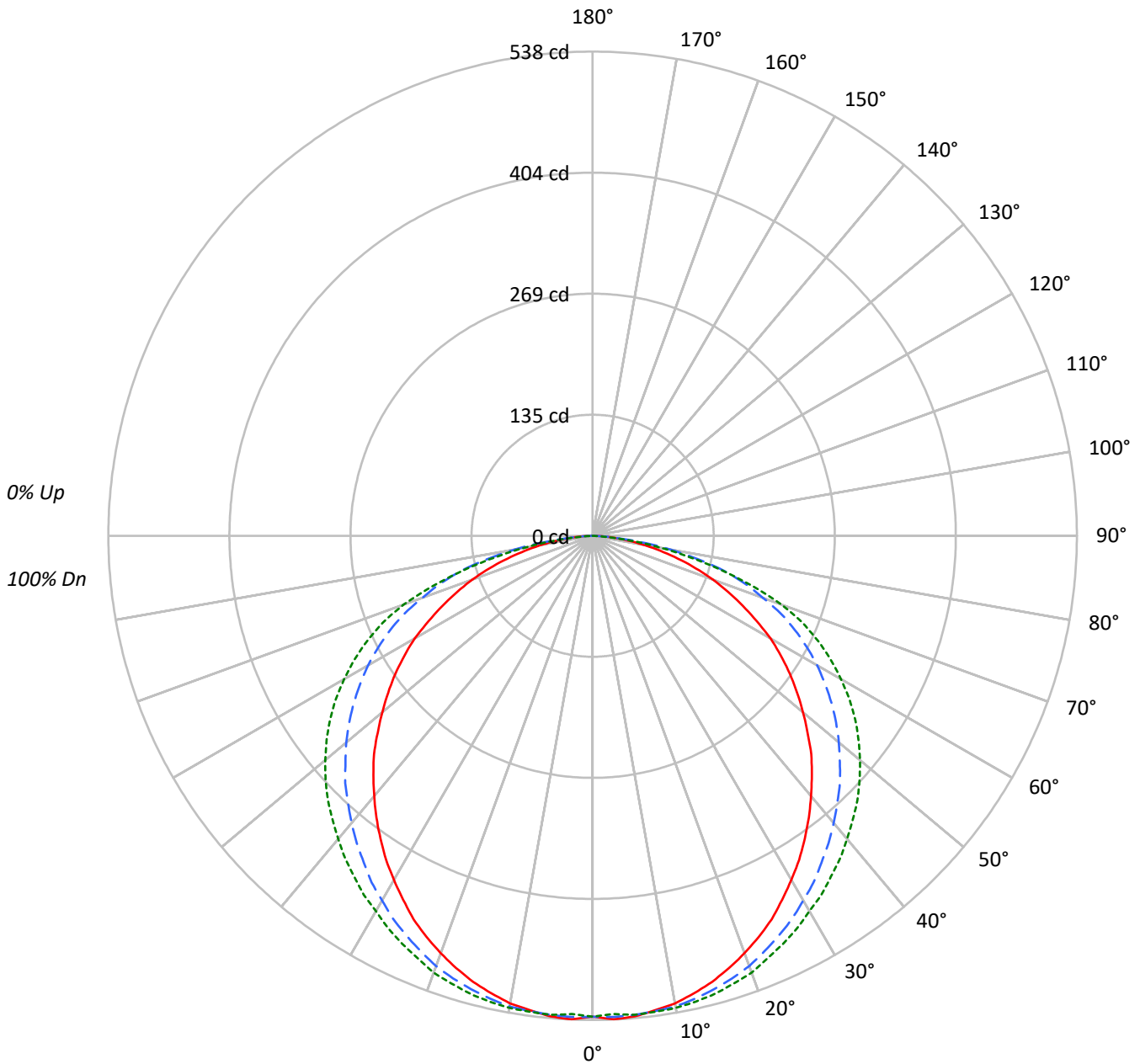
Lumens per Lamp: N/A
Luminaire Lumens: 1691.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732520

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P732520

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-5000K

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	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°	1508	1508	1508
5°	1519	1514	1514
10°	1512	1522	1527
15°	1499	1524	1539
20°	1482	1528	1551
25°	1465	1526	1558
30°	1439	1525	1569
35°	1416	1527	1592
40°	1391	1535	1620
45°	1371	1551	1660
50°	1340	1568	1703
55°	1317	1594	1753
60°	1289	1626	1799
65°	1230	1656	1845
70°	1168	1660	1843
75°	1069	1654	1626
80°	914	1413	1261
85°	719	800	470



TEST NUMBER: P732520

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.0
10°-20°	146.7	8.7
20°-30°	224.4	13.3
30°-40°	275.0	16.3
40°-50°	295.7	17.5
50°-60°	284.2	16.8
60°-70°	236.7	14.0
70°-80°	145.3	8.6
80°-90°	32.4	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°	421.8	24.9
0°-40°	696.8	41.2
0°-60°	1276.8	75.5
0°-90°	1691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	536	531	534	534	534	51
15°	513	511	522	525	527	145
25°	470	475	490	496	500	216
35°	411	421	443	455	462	257
45°	344	359	389	406	416	264
55°	268	291	324	346	356	239
65°	184	212	248	268	276	182
75°	98	128	152	151	149	104
85°	22	33	25	17	14	27
90°	0	0	0	0	0	



TEST NUMBER: P732520

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA125-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.4	534.4	534.4	534.4	534.4
2.5°	537.7	532.7	535.2	534.4	531.8
5°	536.1	531.0	534.4	534.4	534.4
7.5°	531.8	527.6	532.7	533.5	533.5
10°	527.6	524.1	531.0	531.8	532.7
12.5°	520.7	518.1	526.7	528.4	530.1
15°	513.1	511.4	521.6	525.0	526.7
17.5°	503.7	504.5	515.6	519.9	521.6
20°	493.5	496.0	508.8	513.1	516.5
22.5°	482.4	485.8	499.5	504.5	508.0
25°	470.4	474.7	490.0	496.0	500.3
27.5°	455.9	462.8	479.9	487.5	491.8
30°	441.5	449.2	467.9	477.3	481.5
32.5°	427.0	435.5	456.8	466.2	473.0
35°	410.8	421.1	443.2	455.1	461.9
37.5°	394.6	406.5	430.4	444.0	451.7
40°	377.5	390.4	416.7	432.1	439.7
42.5°	360.5	375.0	402.3	419.3	427.8
45°	343.5	358.8	388.6	406.5	415.9
47.5°	323.9	342.7	372.4	392.9	402.3
50°	305.1	325.5	357.1	378.4	387.8
52.5°	286.3	307.7	340.9	363.1	372.4
55°	267.6	290.6	323.9	346.0	356.2
57.5°	248.0	271.8	305.9	329.0	338.3
60°	228.4	253.2	288.1	309.4	318.7
62.5°	205.3	234.4	268.5	289.8	298.3
65°	184.1	212.2	248.0	268.5	276.2
67.5°	162.8	191.8	226.7	245.5	252.2
70°	141.5	170.5	201.1	219.0	223.3
72.5°	120.2	149.1	178.2	188.3	186.7
75°	98.0	127.9	151.7	150.9	149.1
77.5°	76.7	105.7	120.2	114.2	111.7
80°	56.2	84.4	86.9	81.0	77.6
82.5°	38.4	60.5	54.6	47.7	44.3
85°	22.2	33.2	24.7	17.0	14.5
87.5°	9.3	8.5	2.6	2.6	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)