

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: P732512

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732512
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-CA08-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

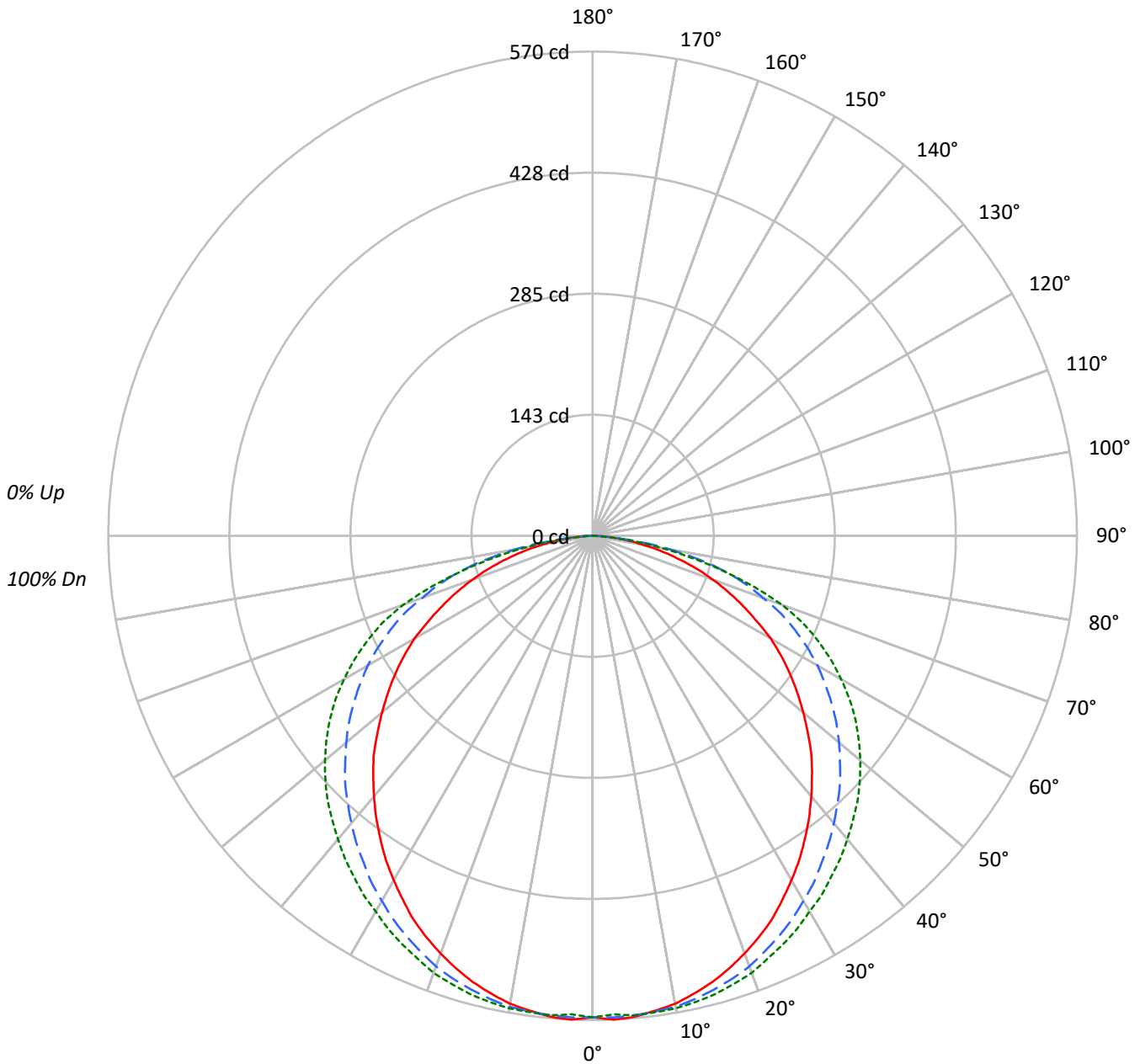
Lumens per Lamp: N/A
Luminaire Lumens: 1793.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	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°	1600	1600	1600
5°	1611	1606	1606
10°	1603	1614	1619
15°	1590	1616	1632
20°	1572	1621	1645
25°	1554	1618	1652
30°	1526	1617	1664
35°	1501	1619	1688
40°	1475	1628	1718
45°	1454	1645	1760
50°	1421	1663	1806
55°	1396	1690	1859
60°	1367	1725	1908
65°	1304	1756	1956
70°	1238	1760	1954
75°	1133	1755	1724
80°	969	1499	1338
85°	761	849	499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.0
10°-20°	155.5	8.7
20°-30°	237.9	13.3
30°-40°	291.6	16.3
40°-50°	313.6	17.5
50°-60°	301.3	16.8
60°-70°	250.9	14.0
70°-80°	154.0	8.6
80°-90°	34.3	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°	447.3	24.9
0°-40°	738.9	41.2
0°-60°	1353.8	75.5
0°-90°	1793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	568	563	567	567	567	54
15°	544	542	553	557	558	153
25°	499	503	520	526	530	229
35°	436	446	470	482	490	273
45°	364	380	412	431	441	280
55°	284	308	343	367	378	253
65°	195	225	263	285	293	193
75°	104	136	161	160	158	110
85°	24	35	26	18	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.7	566.7	566.7	566.7	566.7
2.5°	570.2	564.8	567.5	566.7	563.9
5°	568.4	563.0	566.7	566.7	566.7
7.5°	563.9	559.4	564.8	565.7	565.7
10°	559.4	555.8	563.0	563.9	564.8
12.5°	552.1	549.4	558.5	560.3	562.0
15°	544.0	542.2	553.0	556.6	558.5
17.5°	534.1	535.0	546.7	551.3	553.0
20°	523.2	526.0	539.5	544.0	547.6
22.5°	511.4	515.1	529.6	535.0	538.6
25°	498.8	503.3	519.6	526.0	530.5
27.5°	483.4	490.7	508.8	516.9	521.5
30°	468.1	476.3	496.2	506.1	510.6
32.5°	452.7	461.7	484.4	494.3	501.6
35°	435.6	446.5	469.9	482.5	489.8
37.5°	418.4	431.1	456.4	470.8	478.9
40°	400.3	413.9	441.8	458.1	466.3
42.5°	382.2	397.6	426.6	444.6	453.6
45°	364.2	380.5	412.0	431.1	441.0
47.5°	343.4	363.3	394.9	416.5	426.6
50°	323.5	345.2	378.6	401.3	411.2
52.5°	303.6	326.3	361.5	385.0	394.9
55°	283.7	308.1	343.4	366.8	377.7
57.5°	262.9	288.2	324.4	348.8	358.7
60°	242.1	268.4	305.5	328.0	337.9
62.5°	217.7	248.5	284.7	307.2	316.3
65°	195.2	225.0	262.9	284.7	292.8
67.5°	172.6	203.3	240.4	260.3	267.4
70°	150.0	180.8	213.2	232.2	236.8
72.5°	127.5	158.1	188.9	199.7	197.9
75°	103.9	135.6	160.9	160.0	158.1
77.5°	81.4	112.1	127.5	121.1	118.4
80°	59.6	89.5	92.2	85.9	82.3
82.5°	40.7	64.1	57.8	50.6	47.0
85°	23.5	35.2	26.2	18.0	15.4
87.5°	9.9	9.0	2.7	2.7	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)