

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: P732531

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732531  
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-CP375-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

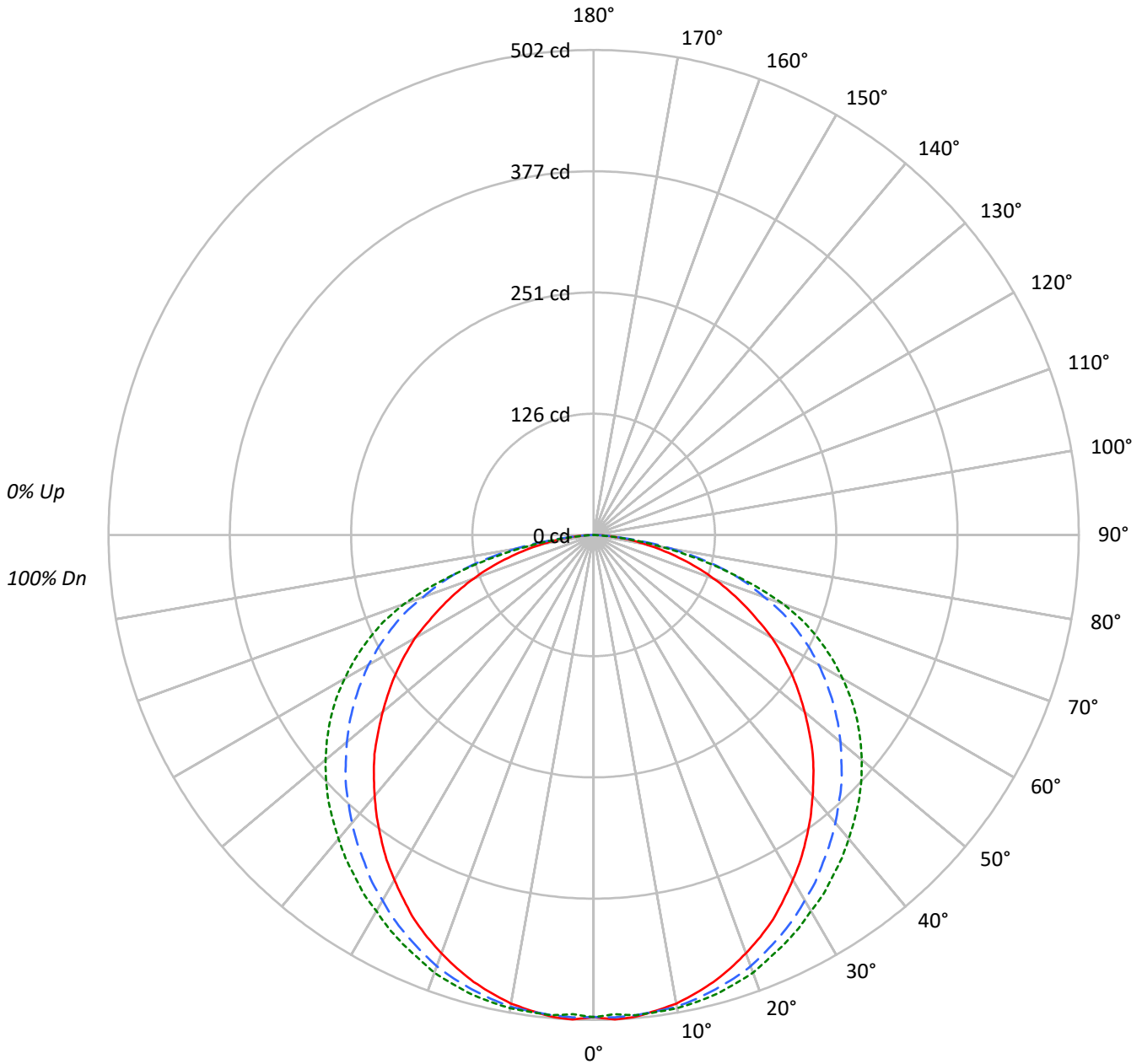
Lumens per Lamp: N/A  
Luminaire Lumens: 1579.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (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	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°	1409	1409	1409
5°	1418	1414	1414
10°	1412	1421	1426
15°	1400	1423	1437
20°	1384	1427	1449
25°	1368	1425	1455
30°	1344	1424	1465
35°	1322	1426	1486
40°	1299	1434	1513
45°	1280	1449	1550
50°	1251	1464	1590
55°	1229	1488	1637
60°	1204	1519	1680
65°	1148	1546	1723
70°	1090	1550	1721
75°	998	1545	1519
80°	853	1320	1177
85°	670	745	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	3.0
10°-20°	137.0	8.7
20°-30°	209.5	13.3
30°-40°	256.8	16.3
40°-50°	276.2	17.5
50°-60°	265.4	16.8
60°-70°	221.0	14.0
70°-80°	135.6	8.6
80°-90°	30.2	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°	393.9	24.9
0°-40°	650.7	41.2
0°-60°	1192.2	75.5
0°-90°	1579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	501	496	499	499	499	47
15°	479	478	487	490	492	135
25°	439	443	458	463	467	202
35°	384	393	414	425	431	240
45°	321	335	363	380	388	247
55°	250	271	302	323	333	223
65°	172	198	232	251	258	170
75°	92	119	142	141	139	97
85°	21	31	23	16	14	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	499.0	499.0	499.0	499.0	499.0
2.5°	502.1	497.4	499.8	499.0	496.6
5°	500.6	495.8	499.0	499.0	499.0
7.5°	496.6	492.6	497.4	498.1	498.1
10°	492.6	489.4	495.8	496.6	497.4
12.5°	486.2	483.8	491.9	493.4	495.0
15°	479.1	477.5	487.0	490.2	491.9
17.5°	470.4	471.1	481.5	485.5	487.0
20°	460.8	463.2	475.1	479.1	482.3
22.5°	450.4	453.6	466.4	471.1	474.3
25°	439.3	443.2	457.6	463.2	467.2
27.5°	425.7	432.1	448.1	455.2	459.2
30°	412.3	419.4	436.9	445.7	449.6
32.5°	398.7	406.6	426.6	435.3	441.7
35°	383.6	393.2	413.8	424.9	431.3
37.5°	368.5	379.6	401.9	414.6	421.7
40°	352.5	364.5	389.1	403.4	410.6
42.5°	336.6	350.2	375.6	391.5	399.5
45°	320.7	335.1	362.9	379.6	388.3
47.5°	302.4	320.0	347.8	366.8	375.6
50°	284.9	304.0	333.4	353.4	362.1
52.5°	267.4	287.3	318.3	339.0	347.8
55°	249.8	271.3	302.4	323.1	332.6
57.5°	231.5	253.8	285.7	307.2	315.9
60°	213.2	236.4	269.0	288.9	297.6
62.5°	191.7	218.9	250.7	270.6	278.5
65°	171.9	198.1	231.5	250.7	257.9
67.5°	152.0	179.1	211.7	229.2	235.5
70°	132.1	159.2	187.8	204.5	208.5
72.5°	112.2	139.3	166.4	175.9	174.3
75°	91.5	119.4	141.7	140.9	139.3
77.5°	71.7	98.7	112.2	106.6	104.3
80°	52.5	78.8	81.2	75.6	72.4
82.5°	35.8	56.5	50.9	44.5	41.4
85°	20.7	31.0	23.0	15.9	13.6
87.5°	8.7	7.9	2.4	2.4	1.5
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)