

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: P732534

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732534  
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-CP375-4000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

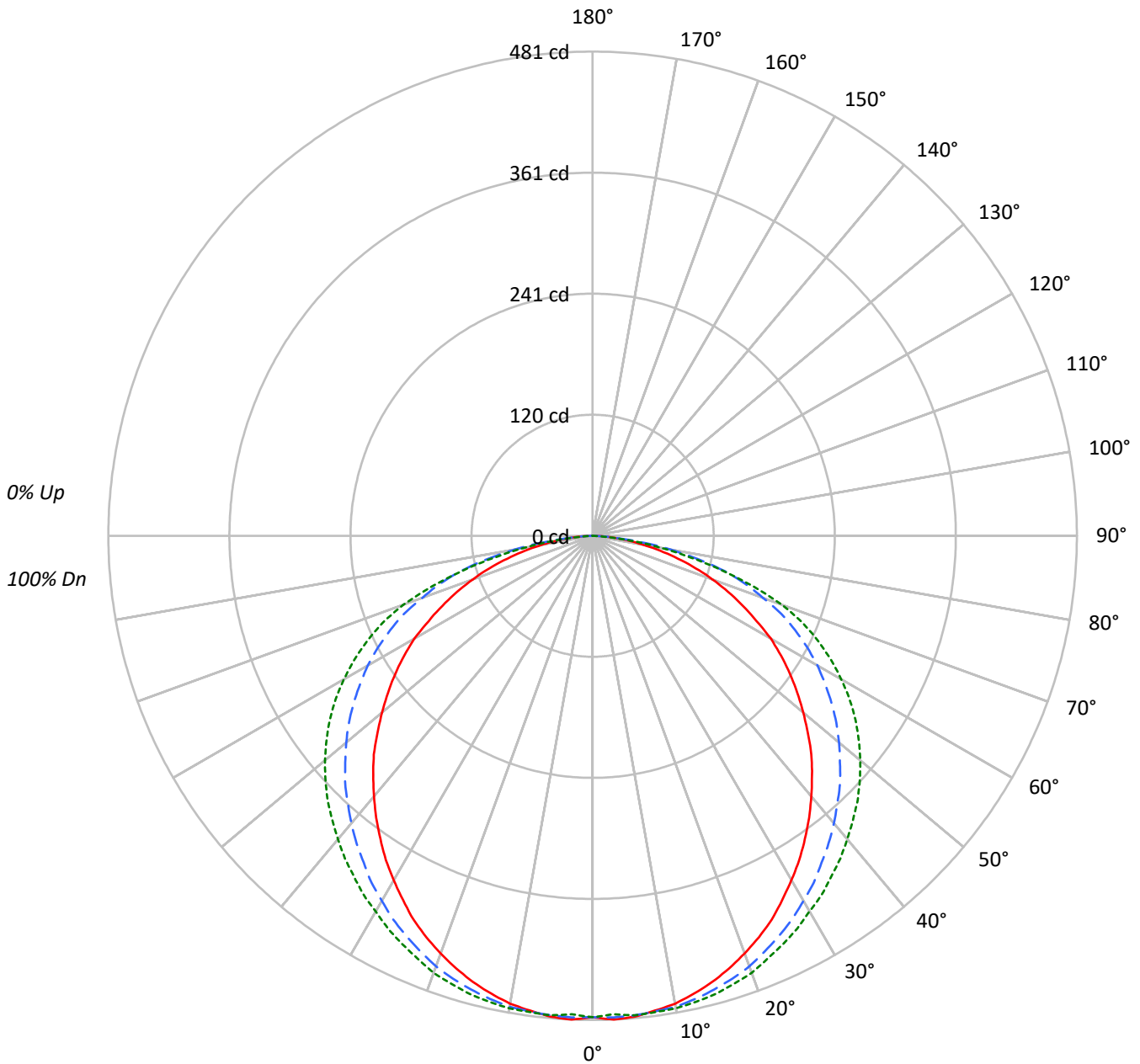
Lumens per Lamp: N/A  
Luminaire Lumens: 1513.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1350	1350	1350
5°	1359	1355	1355
10°	1353	1362	1366
15°	1341	1364	1377
20°	1326	1367	1388
25°	1311	1365	1394
30°	1287	1365	1404
35°	1267	1366	1424
40°	1245	1374	1450
45°	1227	1388	1485
50°	1199	1403	1524
55°	1178	1426	1568
60°	1153	1455	1610
65°	1100	1482	1650
70°	1045	1485	1649
75°	956	1481	1455
80°	818	1265	1128
85°	644	716	421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	3.0
10°-20°	131.3	8.7
20°-30°	200.7	13.3
30°-40°	246.0	16.3
40°-50°	264.6	17.5
50°-60°	254.3	16.8
60°-70°	211.7	14.0
70°-80°	130.0	8.6
80°-90°	28.9	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°	377.4	24.9
0°-40°	623.5	41.2
0°-60°	1142.3	75.5
0°-90°	1513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	480	475	478	478	478	45
15°	459	458	467	470	471	129
25°	421	425	438	444	448	194
35°	368	377	396	407	413	230
45°	307	321	348	364	372	236
55°	239	260	290	310	319	214
65°	165	190	222	240	247	163
75°	88	114	136	135	133	93
85°	20	30	22	15	13	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	478.2	478.2	478.2	478.2	478.2
2.5°	481.1	476.6	478.9	478.2	475.8
5°	479.6	475.1	478.2	478.2	478.2
7.5°	475.8	472.0	476.6	477.3	477.3
10°	472.0	469.0	475.1	475.8	476.6
12.5°	465.9	463.6	471.3	472.8	474.3
15°	459.0	457.6	466.7	469.7	471.3
17.5°	450.7	451.4	461.4	465.2	466.7
20°	441.5	443.8	455.2	459.0	462.1
22.5°	431.6	434.6	446.9	451.4	454.5
25°	420.9	424.7	438.4	443.8	447.6
27.5°	407.9	414.0	429.4	436.2	440.0
30°	395.0	401.9	418.7	427.0	430.8
32.5°	382.0	389.6	408.8	417.1	423.2
35°	367.6	376.7	396.5	407.2	413.3
37.5°	353.1	363.7	385.1	397.2	404.1
40°	337.8	349.3	372.8	386.6	393.4
42.5°	322.5	335.5	359.9	375.2	382.8
45°	307.3	321.1	347.7	363.7	372.1
47.5°	289.8	306.6	333.2	351.5	359.9
50°	273.0	291.3	319.5	338.6	347.0
52.5°	256.2	275.3	305.0	324.9	333.2
55°	239.4	260.0	289.8	309.6	318.7
57.5°	221.9	243.2	273.7	294.3	302.7
60°	204.3	226.5	257.8	276.8	285.2
62.5°	183.7	209.7	240.2	259.3	266.9
65°	164.7	189.9	221.9	240.2	247.1
67.5°	145.7	171.6	202.8	219.6	225.7
70°	126.6	152.6	179.9	196.0	199.8
72.5°	107.5	133.4	159.4	168.5	167.0
75°	87.7	114.4	135.8	135.0	133.4
77.5°	68.7	94.6	107.5	102.2	99.9
80°	50.3	75.5	77.8	72.5	69.4
82.5°	34.3	54.1	48.8	42.7	39.6
85°	19.9	29.7	22.1	15.2	13.0
87.5°	8.4	7.6	2.3	2.3	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)