

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: P732535

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732535  
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-CP375-5000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

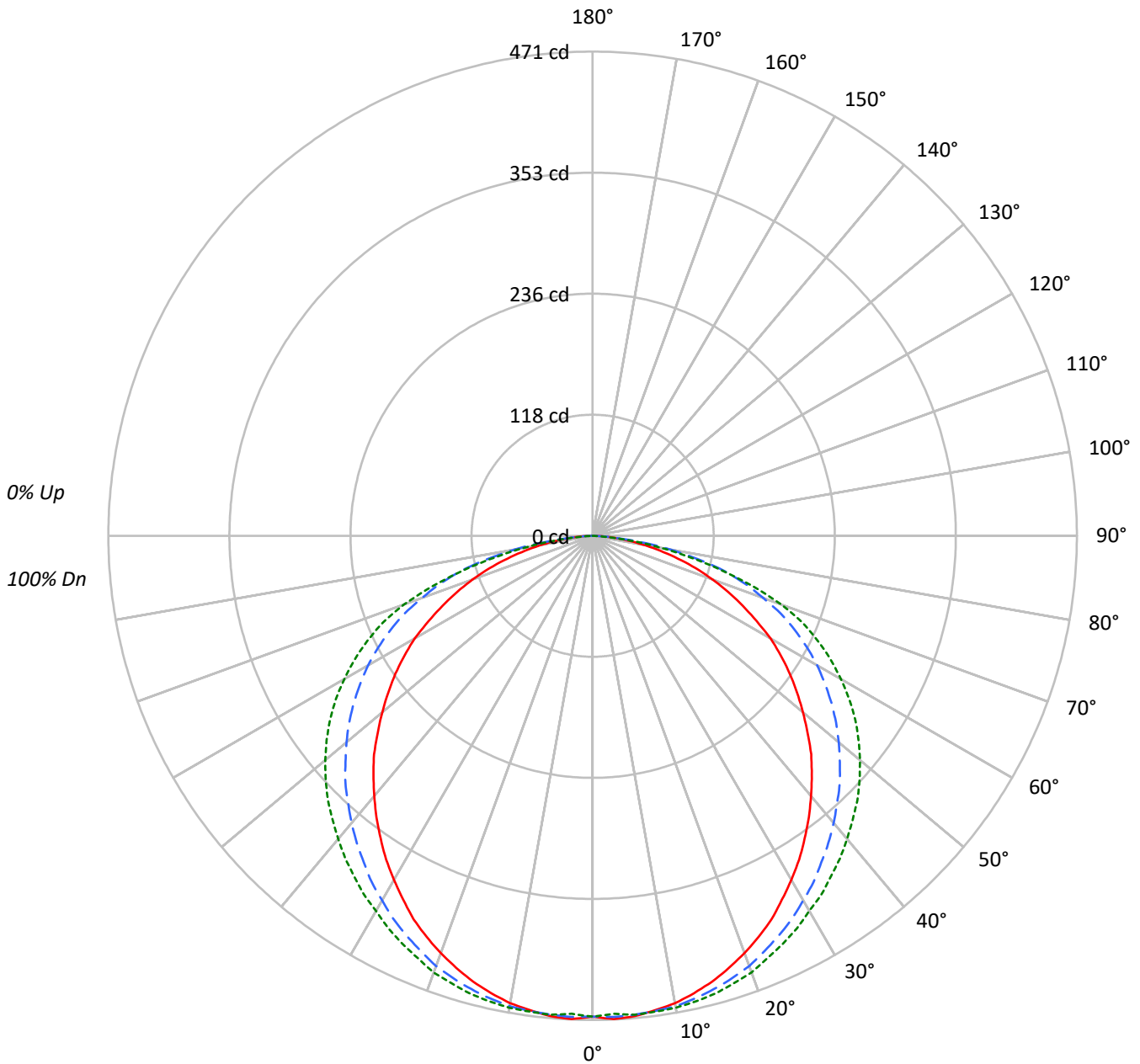
Lumens per Lamp: N/A  
Luminaire Lumens: 1480.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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°	1320	1320	1320
5°	1329	1325	1325
10°	1323	1332	1336
15°	1312	1334	1347
20°	1297	1338	1358
25°	1282	1336	1364
30°	1259	1335	1373
35°	1239	1337	1393
40°	1217	1344	1418
45°	1200	1358	1453
50°	1172	1372	1490
55°	1153	1395	1534
60°	1129	1424	1574
65°	1076	1449	1614
70°	1022	1453	1613
75°	936	1448	1423
80°	800	1237	1104
85°	628	700	411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	3.0
10°-20°	128.4	8.7
20°-30°	196.4	13.3
30°-40°	240.7	16.3
40°-50°	258.8	17.5
50°-60°	248.7	16.8
60°-70°	207.1	14.0
70°-80°	127.1	8.6
80°-90°	28.3	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°	369.2	24.9
0°-40°	609.9	41.2
0°-60°	1117.4	75.5
0°-90°	1480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	469	465	468	468	468	45
15°	449	448	456	460	461	127
25°	412	416	429	434	438	189
35°	360	368	388	398	404	225
45°	301	314	340	356	364	231
55°	234	254	284	303	312	209
65°	161	186	217	235	242	160
75°	86	112	133	132	130	91
85°	19	29	22	15	13	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	467.7	467.7	467.7	467.7	467.7
2.5°	470.6	466.2	468.5	467.7	465.5
5°	469.2	464.7	467.7	467.7	467.7
7.5°	465.5	461.7	466.2	466.9	466.9
10°	461.7	458.7	464.7	465.5	466.2
12.5°	455.8	453.5	461.0	462.5	463.9
15°	449.0	447.6	456.5	459.5	461.0
17.5°	440.9	441.6	451.3	455.0	456.5
20°	431.9	434.1	445.3	449.0	452.0
22.5°	422.2	425.2	437.1	441.6	444.6
25°	411.7	415.5	428.9	434.1	437.9
27.5°	399.0	405.0	420.0	426.7	430.4
30°	386.4	393.1	409.6	417.7	421.4
32.5°	373.7	381.1	399.8	408.0	414.0
35°	359.5	368.5	387.9	398.3	404.3
37.5°	345.4	355.8	376.7	388.6	395.3
40°	330.4	341.7	364.7	378.1	384.9
42.5°	315.5	328.2	352.1	367.0	374.4
45°	300.6	314.1	340.1	355.8	364.0
47.5°	283.5	299.9	326.0	343.8	352.1
50°	267.0	284.9	312.5	331.2	339.4
52.5°	250.6	269.3	298.4	317.8	326.0
55°	234.2	254.3	283.5	302.8	311.8
57.5°	217.0	237.9	267.8	287.9	296.1
60°	199.9	221.6	252.2	270.8	278.9
62.5°	179.7	205.1	235.0	253.6	261.1
65°	161.1	185.7	217.0	235.0	241.7
67.5°	142.5	167.8	198.4	214.9	220.8
70°	123.8	149.2	176.0	191.7	195.4
72.5°	105.2	130.5	155.9	164.8	163.4
75°	85.8	111.9	132.8	132.1	130.5
77.5°	67.2	92.5	105.2	99.9	97.8
80°	49.2	73.9	76.1	70.9	67.9
82.5°	33.6	52.9	47.7	41.8	38.8
85°	19.4	29.0	21.6	14.9	12.7
87.5°	8.2	7.4	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)