

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: P732692

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-29-HRP-B2750-W2D-CA125-3000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

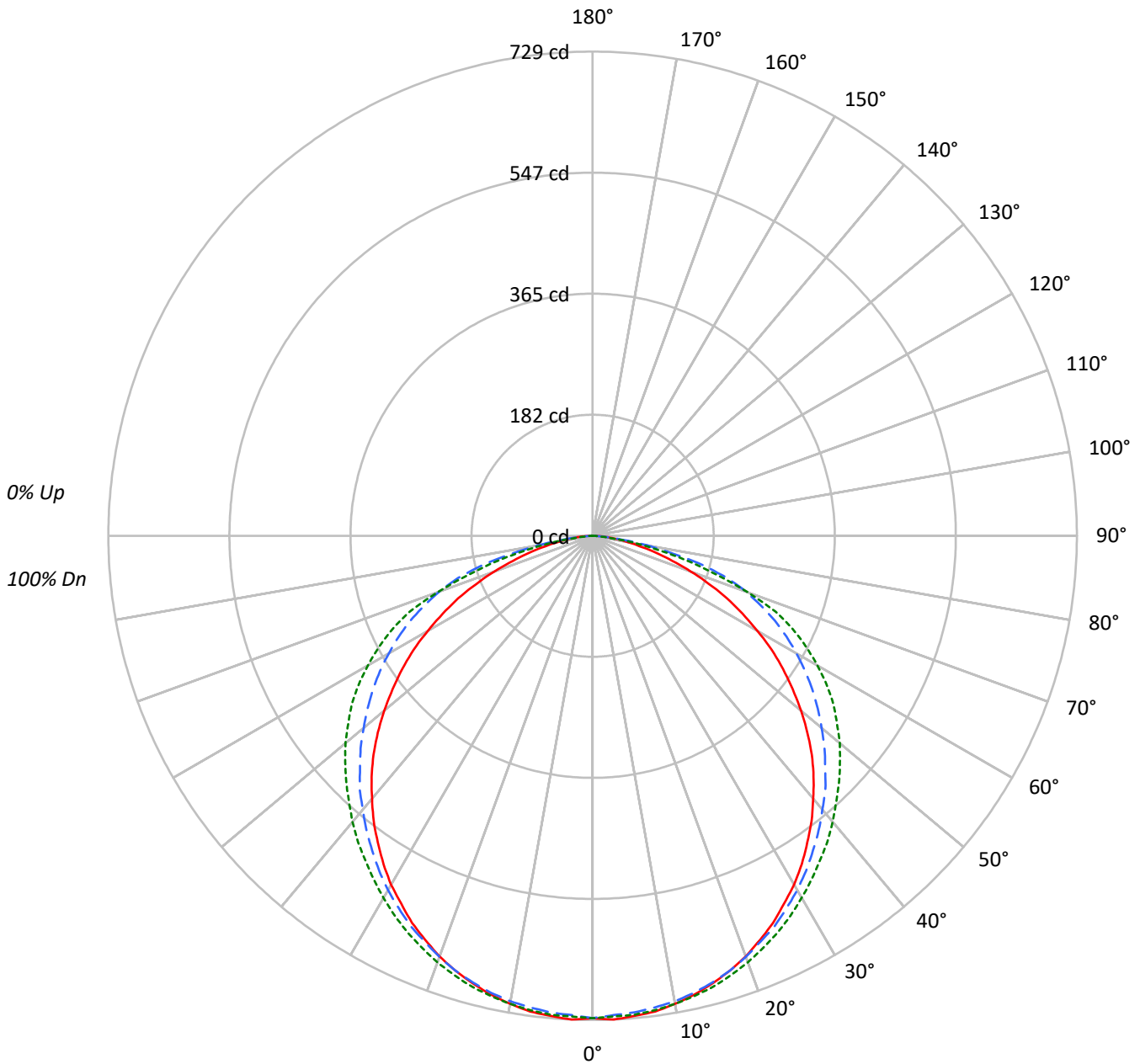
Lumens per Lamp: N/A  
Luminaire Lumens: 2139.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2050	2050	2050
5°	2057	2041	2051
10°	2051	2040	2051
15°	2039	2034	2054
20°	2024	2026	2053
25°	2003	2019	2053
30°	1977	2008	2052
35°	1942	1993	2056
40°	1904	1983	2072
45°	1863	1976	2094
50°	1798	1976	2132
55°	1721	1986	2178
60°	1617	2001	2206
65°	1491	2022	2219
70°	1300	2026	2043
75°	1071	1886	1650
80°	840	1356	1104
85°	657	525	259



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	3.2
10°-20°	197.3	9.2
20°-30°	299.7	14.0
30°-40°	363.1	17.0
40°-50°	382.6	17.9
50°-60°	357.2	16.7
60°-70°	285.5	13.3
70°-80°	157.1	7.3
80°-90°	27.7	1.3
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°	565.8	26.5
0°-40°	928.9	43.4
0°-60°	1668.7	78.0
0°-90°	2139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	726	724	720	725	724	69
15°	698	698	696	703	703	197
25°	643	644	648	658	659	296
35°	564	569	578	593	597	353
45°	467	476	495	517	525	359
55°	350	367	404	432	443	312
65°	223	252	303	328	332	220
75°	98	141	173	155	151	106
85°	20	26	16	10	8	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	726.3	726.3	726.3	726.3	726.3
2.5°	729.1	727.0	722.4	726.3	724.5
5°	725.8	723.8	720.4	725.1	723.8
7.5°	722.4	719.7	716.3	721.7	720.4
10°	715.6	713.6	711.7	716.3	715.6
12.5°	707.6	706.9	704.9	710.3	709.6
15°	697.6	697.6	696.2	702.8	702.8
17.5°	686.7	686.0	686.7	694.2	693.5
20°	673.9	673.9	674.6	683.4	683.4
22.5°	658.4	659.1	661.1	671.9	671.2
25°	643.1	644.3	648.4	657.7	659.1
27.5°	624.2	627.6	632.2	643.6	645.0
30°	606.7	608.7	616.0	626.9	629.5
32.5°	585.9	589.8	598.0	610.1	613.5
35°	563.6	569.0	578.4	593.2	596.6
37.5°	541.5	546.2	559.0	574.3	580.5
40°	516.6	524.6	538.1	555.6	562.2
42.5°	492.3	500.4	518.7	536.7	542.8
45°	466.7	475.6	495.0	517.3	524.6
47.5°	438.5	448.7	473.6	497.0	505.0
50°	409.5	422.3	449.9	476.3	485.6
52.5°	379.4	395.4	427.1	454.7	463.5
55°	349.8	367.2	403.6	431.8	442.6
57.5°	319.5	338.4	379.4	411.6	417.7
60°	286.5	309.5	354.4	382.7	390.8
62.5°	254.3	280.5	328.9	355.8	362.6
65°	223.3	251.6	302.7	327.5	332.3
67.5°	189.6	223.3	273.7	296.7	297.9
70°	157.5	196.4	245.5	256.2	247.5
72.5°	125.8	167.5	212.6	203.8	196.4
75°	98.2	140.6	172.9	155.4	151.3
77.5°	72.7	115.1	123.8	114.4	106.9
80°	51.7	90.7	83.4	71.3	67.9
82.5°	35.6	57.2	45.8	35.6	31.0
85°	20.3	25.5	16.2	10.0	8.0
87.5°	8.7	6.1	3.4	2.7	2.7
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)