

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: P732694

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732694  
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-CA125-4000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

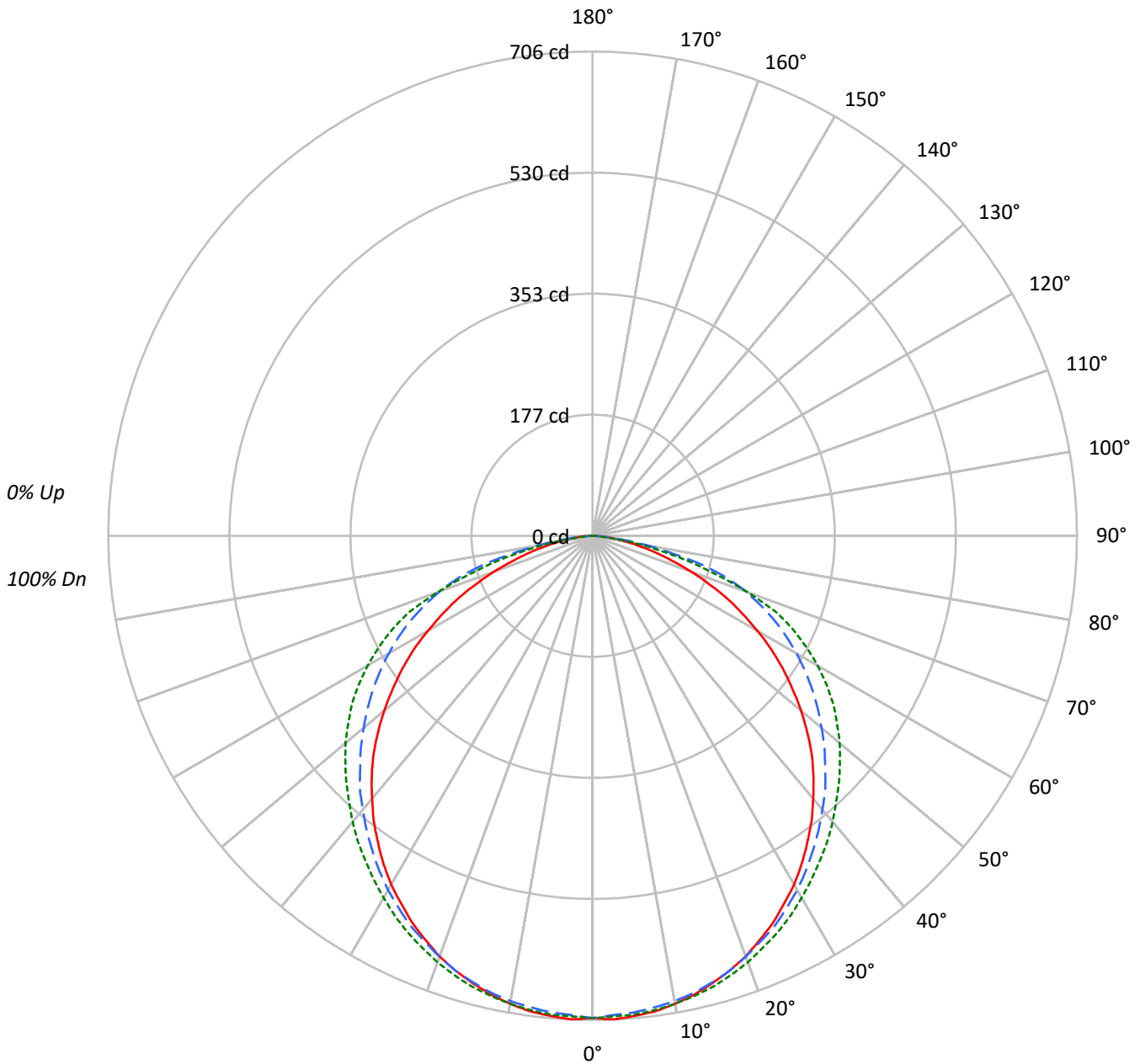
Lumens per Lamp: N/A  
Luminaire Lumens: 2071.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1985	1985	1985
5°	1991	1976	1986
10°	1986	1975	1986
15°	1974	1970	1989
20°	1960	1962	1988
25°	1939	1955	1987
30°	1915	1944	1987
35°	1880	1930	1991
40°	1843	1920	2006
45°	1804	1913	2027
50°	1741	1913	2065
55°	1667	1923	2109
60°	1566	1937	2136
65°	1444	1957	2149
70°	1258	1962	1977
75°	1037	1826	1598
80°	814	1313	1070
85°	635	508	249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.2
10°-20°	191.1	9.2
20°-30°	290.1	14.0
30°-40°	351.6	17.0
40°-50°	370.5	17.9
50°-60°	345.9	16.7
60°-70°	276.4	13.3
70°-80°	152.1	7.3
80°-90°	26.8	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°	547.8	26.5
0°-40°	899.4	43.4
0°-60°	1615.7	78.0
0°-90°	2071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	703	701	698	702	701	67
15°	675	675	674	680	680	191
25°	623	624	628	637	638	287
35°	546	551	560	574	578	341
45°	452	460	479	501	508	348
55°	339	356	391	418	428	302
65°	216	244	293	317	322	213
75°	95	136	167	150	146	102
85°	20	25	16	10	8	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.2	703.2	703.2	703.2	703.2
2.5°	705.9	703.9	699.4	703.2	701.4
5°	702.7	700.8	697.5	702.1	700.8
7.5°	699.4	696.8	693.5	698.8	697.5
10°	692.9	690.9	689.1	693.5	692.9
12.5°	685.1	684.5	682.5	687.7	687.1
15°	675.4	675.4	674.1	680.5	680.5
17.5°	664.8	664.2	664.8	672.1	671.4
20°	652.5	652.5	653.1	661.7	661.7
22.5°	637.5	638.1	640.1	650.5	649.8
25°	622.6	623.8	627.8	636.8	638.1
27.5°	604.4	607.6	612.1	623.1	624.5
30°	587.4	589.4	596.4	607.0	609.5
32.5°	567.3	571.1	579.0	590.7	594.0
35°	545.7	551.0	560.0	574.4	577.7
37.5°	524.3	528.9	541.2	556.1	562.0
40°	500.2	507.9	521.0	537.9	544.4
42.5°	476.6	484.5	502.2	519.6	525.6
45°	451.9	460.5	479.3	500.9	507.9
47.5°	424.5	434.4	458.5	481.2	489.0
50°	396.5	408.9	435.6	461.1	470.2
52.5°	367.4	382.9	413.5	440.2	448.8
55°	338.7	355.5	390.8	418.1	428.5
57.5°	309.3	327.6	367.4	398.5	404.4
60°	277.4	299.6	343.1	370.5	378.4
62.5°	246.2	271.6	318.4	344.5	351.0
65°	216.2	243.6	293.0	317.1	321.7
67.5°	183.6	216.2	265.0	287.3	288.4
70°	152.4	190.2	237.7	248.0	239.6
72.5°	121.8	162.2	205.8	197.3	190.2
75°	95.1	136.1	167.4	150.5	146.5
77.5°	70.4	111.4	119.8	110.8	103.5
80°	50.1	87.8	80.8	69.1	65.8
82.5°	34.4	55.4	44.3	34.4	30.0
85°	19.6	24.7	15.7	9.7	7.7
87.5°	8.4	5.9	3.3	2.6	2.6
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)