

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: P732693

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732693  
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-CA125-3500K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

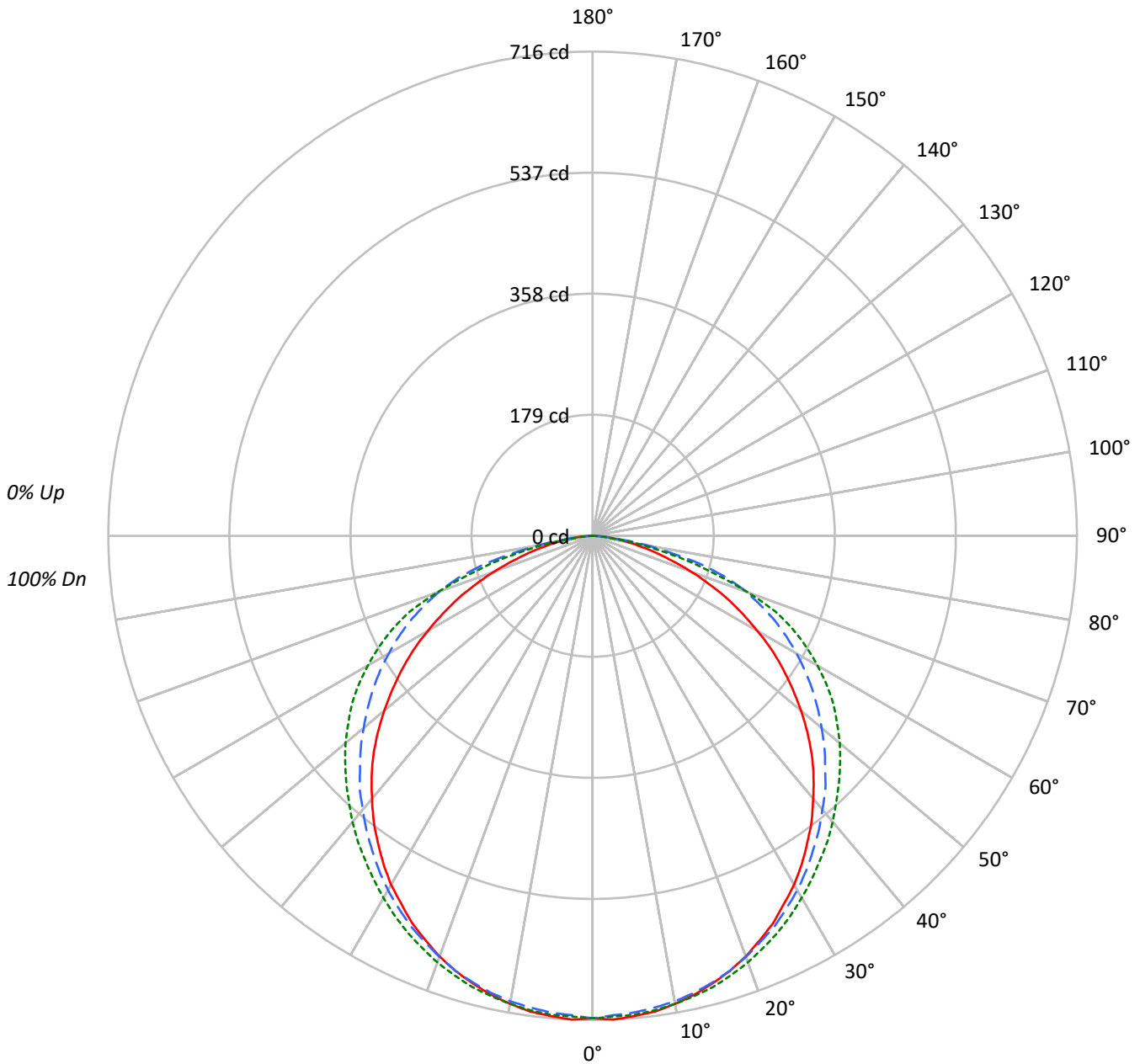
Lumens per Lamp: N/A  
Luminaire Lumens: 2101.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	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°	2014	2014	2014
5°	2020	2005	2014
10°	2015	2003	2015
15°	2002	1998	2018
20°	1988	1990	2016
25°	1967	1984	2016
30°	1942	1972	2015
35°	1908	1958	2019
40°	1870	1947	2035
45°	1830	1941	2057
50°	1767	1941	2095
55°	1691	1951	2139
60°	1589	1965	2167
65°	1465	1986	2180
70°	1277	1990	2006
75°	1052	1853	1621
80°	826	1331	1084
85°	644	515	256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	3.2
10°-20°	193.8	9.2
20°-30°	294.3	14.0
30°-40°	356.7	17.0
40°-50°	375.8	17.9
50°-60°	350.9	16.7
60°-70°	280.4	13.3
70°-80°	154.3	7.3
80°-90°	27.2	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°	555.7	26.5
0°-40°	912.4	43.4
0°-60°	1639.1	78.0
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	713	711	708	712	711	68
15°	685	685	684	690	690	193
25°	632	633	637	646	647	291
35°	554	559	568	583	586	346
45°	458	467	486	508	515	353
55°	344	361	396	424	435	307
65°	219	247	297	322	326	216
75°	96	138	170	153	149	104
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°	713.4	713.4	713.4	713.4	713.4
2.5°	716.1	714.1	709.6	713.4	711.6
5°	712.9	710.9	707.6	712.3	710.9
7.5°	709.6	706.9	703.6	708.9	707.6
10°	702.9	700.9	699.0	703.6	702.9
12.5°	695.0	694.4	692.4	697.7	697.0
15°	685.2	685.2	683.8	690.4	690.4
17.5°	674.5	673.8	674.5	681.8	681.2
20°	661.9	661.9	662.6	671.3	671.3
22.5°	646.7	647.4	649.4	659.9	659.3
25°	631.7	632.8	636.9	646.0	647.4
27.5°	613.1	616.5	621.0	632.2	633.5
30°	595.9	597.9	605.1	615.8	618.3
32.5°	575.5	579.3	587.4	599.2	602.6
35°	553.6	558.9	568.1	582.7	586.0
37.5°	531.9	536.5	549.1	564.1	570.1
40°	507.4	515.3	528.5	545.7	552.2
42.5°	483.5	491.6	509.4	527.2	533.2
45°	458.5	467.1	486.2	508.1	515.3
47.5°	430.7	440.7	465.1	488.2	496.1
50°	402.3	414.8	441.9	467.8	477.0
52.5°	372.7	388.4	419.5	446.6	455.3
55°	343.6	360.6	396.4	424.2	434.7
57.5°	313.8	332.4	372.7	404.3	410.3
60°	281.4	304.0	348.1	375.9	383.9
62.5°	249.8	275.5	323.0	349.4	356.1
65°	219.4	247.1	297.3	321.7	326.4
67.5°	186.3	219.4	268.9	291.4	292.6
70°	154.7	192.9	241.1	251.6	243.1
72.5°	123.6	164.5	208.8	200.1	192.9
75°	96.5	138.1	169.9	152.7	148.6
77.5°	71.4	113.0	121.6	112.4	105.0
80°	50.8	89.1	81.9	70.1	66.7
82.5°	34.9	56.2	45.0	34.9	30.4
85°	19.9	25.1	15.9	9.9	7.9
87.5°	8.5	6.0	3.3	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)