

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: P732688

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732688  
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-CA08-3500K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

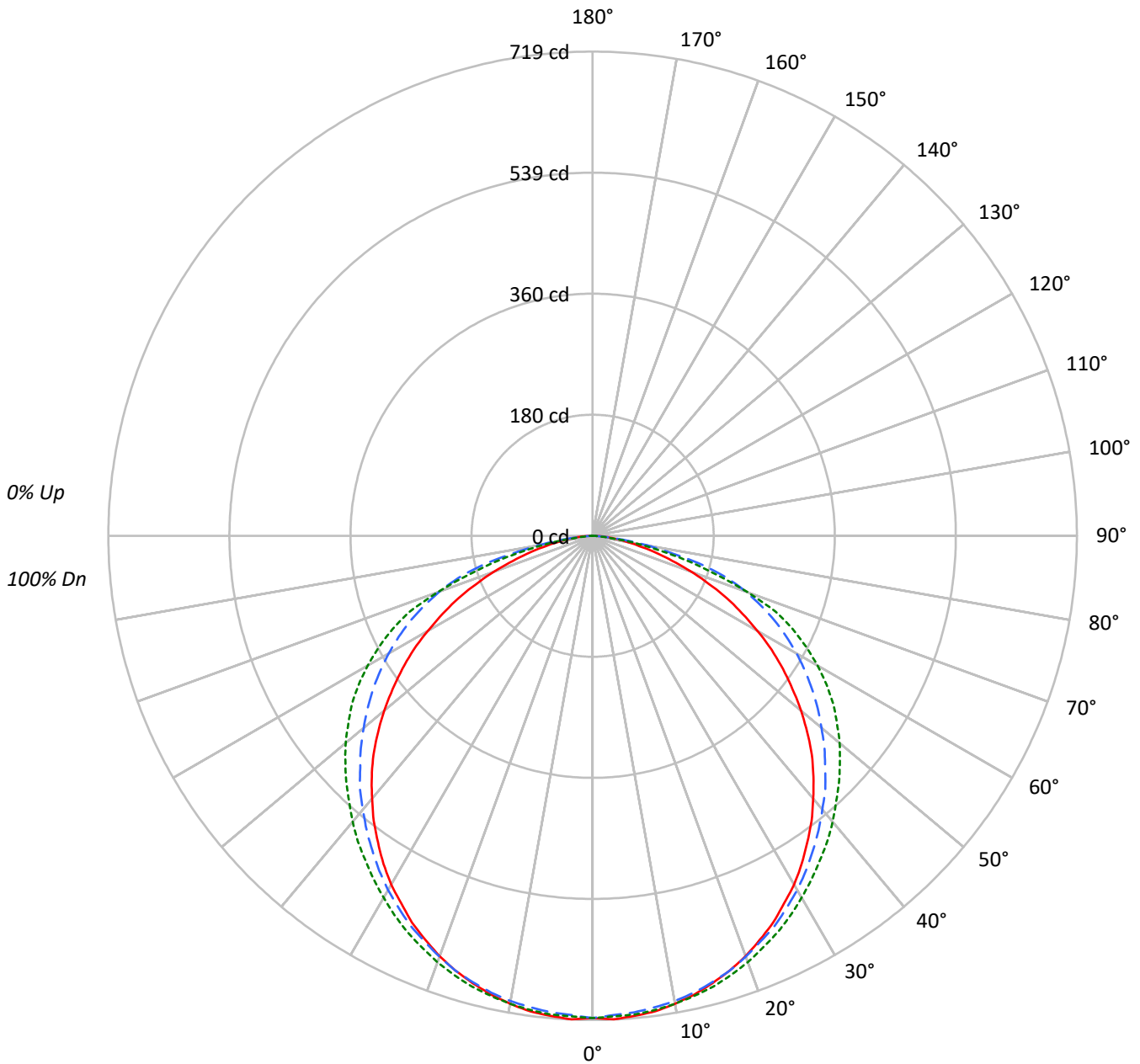
Lumens per Lamp: N/A  
Luminaire Lumens: 2109.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2021	2021	2021
5°	2028	2013	2022
10°	2022	2011	2022
15°	2010	2006	2025
20°	1996	1998	2024
25°	1975	1991	2024
30°	1950	1980	2023
35°	1915	1965	2027
40°	1877	1955	2043
45°	1837	1948	2065
50°	1773	1948	2103
55°	1697	1958	2148
60°	1595	1972	2175
65°	1471	1993	2188
70°	1281	1997	2014
75°	1056	1859	1627
80°	829	1336	1089
85°	648	515	256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	3.2
10°-20°	194.6	9.2
20°-30°	295.5	14.0
30°-40°	358.0	17.0
40°-50°	377.3	17.9
50°-60°	352.2	16.7
60°-70°	281.5	13.3
70°-80°	154.9	7.3
80°-90°	27.4	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°	557.8	26.4
0°-40°	915.8	43.4
0°-60°	1645.3	78.0
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	716	714	710	715	714	68
15°	688	688	686	693	693	194
25°	634	635	639	648	650	292
35°	556	561	570	585	588	348
45°	460	469	488	510	517	354
55°	345	362	398	426	436	308
65°	220	248	298	323	328	217
75°	97	139	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°	716.1	716.1	716.1	716.1	716.1
2.5°	718.8	716.8	712.3	716.1	714.3
5°	715.6	713.6	710.3	715.0	713.6
7.5°	712.3	709.6	706.2	711.6	710.3
10°	705.6	703.6	701.7	706.2	705.6
12.5°	697.7	697.0	695.0	700.4	699.7
15°	687.8	687.8	686.4	693.0	693.0
17.5°	677.0	676.4	677.0	684.4	683.8
20°	664.4	664.4	665.1	673.8	673.8
22.5°	649.2	649.8	651.9	662.4	661.8
25°	634.1	635.2	639.3	648.5	649.8
27.5°	615.4	618.8	623.3	634.6	635.9
30°	598.2	600.2	607.4	618.1	620.6
32.5°	577.7	581.5	589.6	601.5	604.9
35°	555.7	561.1	570.3	584.9	588.3
37.5°	533.9	538.6	551.2	566.3	572.3
40°	509.4	517.3	530.5	547.8	554.4
42.5°	485.4	493.4	511.4	529.2	535.2
45°	460.2	468.9	488.1	510.0	517.3
47.5°	432.3	442.4	466.9	490.1	498.0
50°	403.8	416.4	443.6	469.6	478.8
52.5°	374.1	389.9	421.1	448.3	457.0
55°	344.9	362.0	397.9	425.8	436.4
57.5°	315.0	333.7	374.1	405.8	411.9
60°	282.5	305.1	349.4	377.3	385.3
62.5°	250.7	276.6	324.3	350.8	357.5
65°	220.2	248.1	298.4	322.9	327.6
67.5°	187.0	220.2	269.9	292.5	293.7
70°	155.2	193.7	242.0	252.6	244.0
72.5°	124.0	165.1	209.6	200.9	193.7
75°	96.8	138.6	170.5	153.2	149.2
77.5°	71.7	113.5	122.0	112.8	105.4
80°	51.0	89.5	82.2	70.3	67.0
82.5°	35.1	56.4	45.1	35.1	30.5
85°	20.0	25.2	15.9	9.9	7.9
87.5°	8.6	6.0	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)