

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: P732707

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732707  
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-CP375-3000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

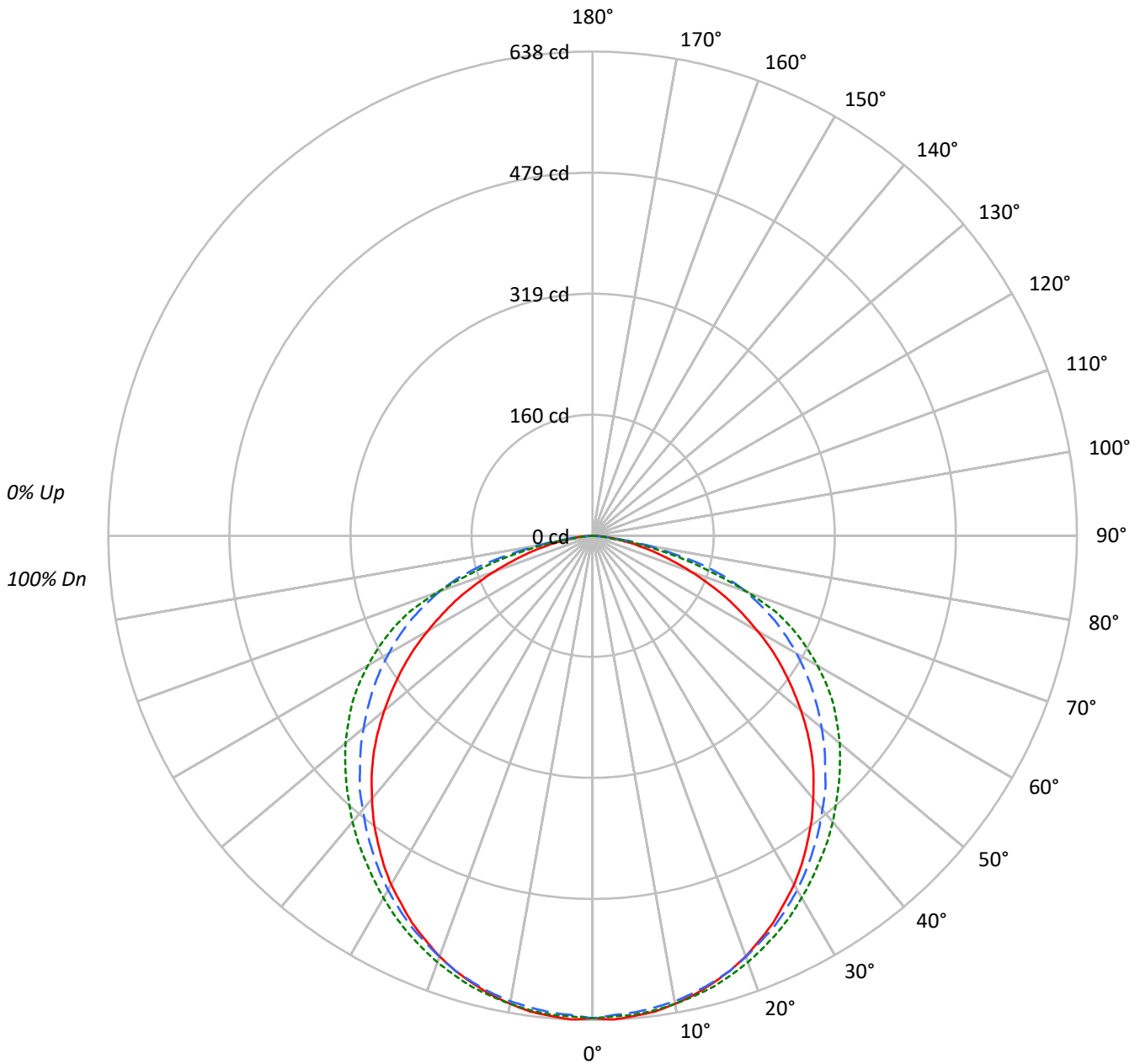
Lumens per Lamp: N/A  
Luminaire Lumens: 1872.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732707

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CP375-3000K

### 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°	1794	1794	1794
5°	1800	1786	1795
10°	1795	1785	1795
15°	1784	1781	1797
20°	1772	1773	1797
25°	1753	1767	1796
30°	1730	1757	1796
35°	1699	1744	1799
40°	1666	1735	1813
45°	1631	1729	1833
50°	1574	1729	1866
55°	1506	1738	1906
60°	1415	1751	1931
65°	1306	1769	1942
70°	1137	1773	1788
75°	938	1651	1444
80°	736	1187	966
85°	573	460	227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	3.2
10°-20°	172.7	9.2
20°-30°	262.3	14.0
30°-40°	317.8	17.0
40°-50°	334.9	17.9
50°-60°	312.6	16.7
60°-70°	249.8	13.3
70°-80°	137.5	7.3
80°-90°	24.3	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°	495.2	26.5
0°-40°	812.9	43.4
0°-60°	1460.4	78.0
0°-90°	1872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	635	633	630	635	633	60
15°	610	610	609	615	615	172
25°	563	564	567	576	577	259
35°	493	498	506	519	522	309
45°	408	416	433	453	459	314
55°	306	321	353	378	387	273
65°	196	220	265	287	291	192
75°	86	123	151	136	132	93
85°	18	22	14	9	7	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	635.7	635.7	635.7	635.7	635.7
2.5°	638.0	636.3	632.2	635.7	634.0
5°	635.2	633.4	630.5	634.6	633.4
7.5°	632.2	629.9	626.9	631.6	630.5
10°	626.3	624.5	622.9	626.9	626.3
12.5°	619.3	618.7	616.9	621.7	621.1
15°	610.5	610.5	609.3	615.1	615.1
17.5°	601.0	600.4	601.0	607.5	606.9
20°	589.8	589.8	590.4	598.1	598.1
22.5°	576.2	576.8	578.6	588.0	587.4
25°	562.8	563.9	567.4	575.6	576.8
27.5°	546.3	549.3	553.3	563.3	564.5
30°	530.9	532.7	539.1	548.7	550.9
32.5°	512.8	516.2	523.3	533.9	536.9
35°	493.2	498.0	506.2	519.2	522.1
37.5°	473.9	478.1	489.2	502.6	508.0
40°	452.1	459.1	470.9	486.2	492.1
42.5°	430.8	438.0	453.9	469.7	475.1
45°	408.5	416.2	433.2	452.7	459.1
47.5°	383.8	392.7	414.4	435.0	442.0
50°	358.4	369.6	393.7	416.8	425.0
52.5°	332.1	346.1	373.8	397.9	405.7
55°	306.1	321.3	353.2	377.9	387.3
57.5°	279.6	296.2	332.1	360.2	365.6
60°	250.7	270.8	310.2	334.9	342.0
62.5°	222.6	245.5	287.8	311.4	317.3
65°	195.5	220.2	264.9	286.6	290.8
67.5°	166.0	195.5	239.5	259.7	260.7
70°	137.8	171.9	214.8	224.2	216.6
72.5°	110.1	146.6	186.1	178.3	171.9
75°	86.0	123.1	151.4	136.0	132.4
77.5°	63.6	100.7	108.3	100.1	93.6
80°	45.3	79.4	73.0	62.4	59.4
82.5°	31.1	50.1	40.1	31.1	27.1
85°	17.7	22.3	14.2	8.8	7.0
87.5°	7.6	5.4	3.0	2.4	2.4
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)