

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: P732706

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732706  
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-CP375-2700K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

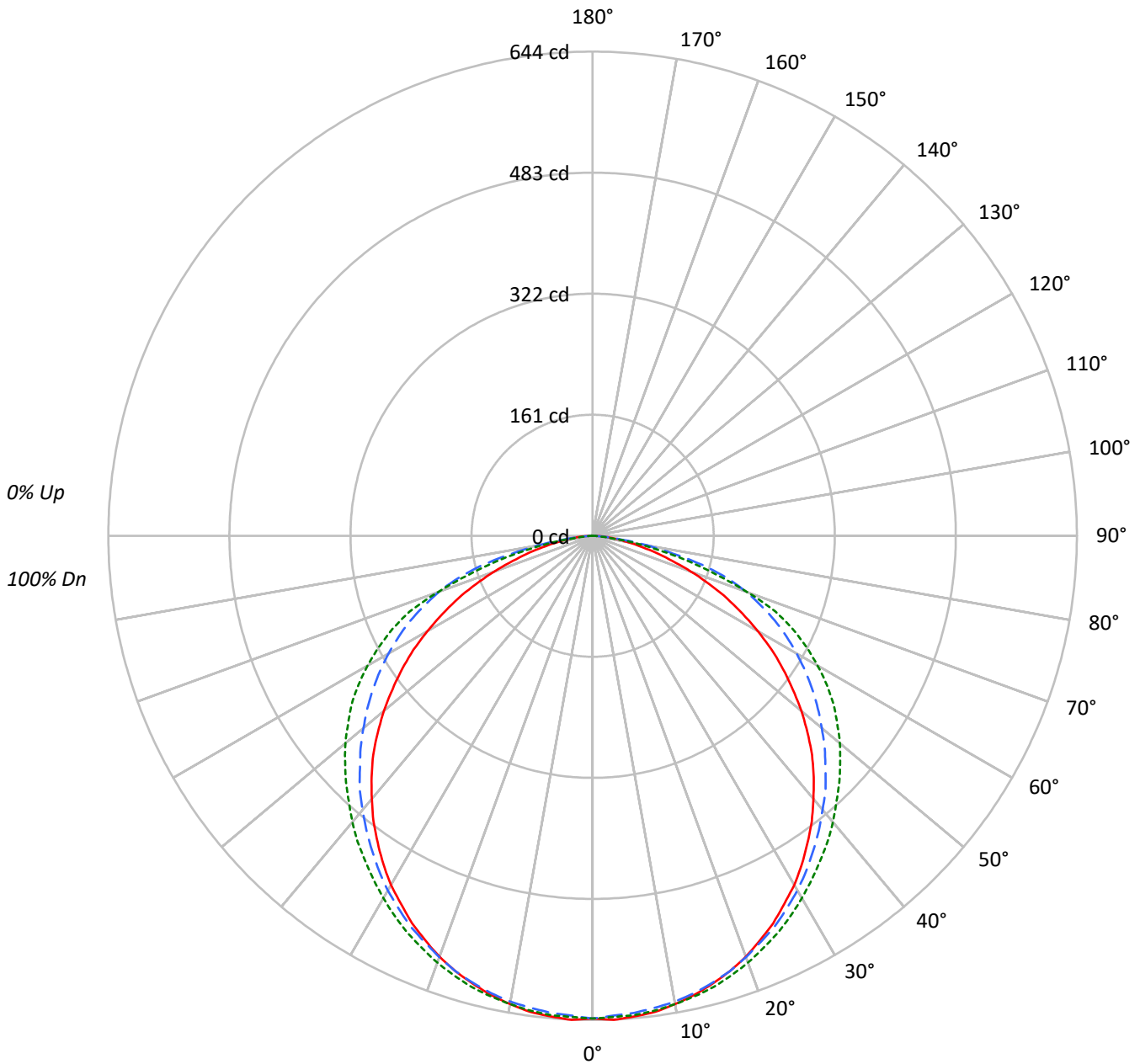
Lumens per Lamp: N/A  
Luminaire Lumens: 1891.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1812	1812	1812
5°	1818	1805	1813
10°	1813	1803	1813
15°	1802	1799	1816
20°	1790	1791	1815
25°	1771	1785	1815
30°	1748	1775	1814
35°	1717	1762	1817
40°	1683	1753	1832
45°	1647	1747	1851
50°	1590	1746	1885
55°	1522	1756	1926
60°	1430	1769	1950
65°	1318	1787	1962
70°	1149	1791	1806
75°	947	1668	1459
80°	743	1198	975
85°	580	463	230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	3.2
10°-20°	174.5	9.2
20°-30°	264.9	14.0
30°-40°	321.0	17.0
40°-50°	338.3	17.9
50°-60°	315.8	16.7
60°-70°	252.4	13.3
70°-80°	138.9	7.3
80°-90°	24.5	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°	500.2	26.5
0°-40°	821.2	43.4
0°-60°	1475.3	78.0
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	642	640	637	641	640	61
15°	617	617	616	621	621	174
25°	568	570	573	582	583	262
35°	498	503	511	524	527	312
45°	413	420	438	457	464	317
55°	309	325	357	382	391	276
65°	197	222	268	290	294	194
75°	87	124	153	137	134	93
85°	18	23	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°	642.1	642.1	642.1	642.1	642.1
2.5°	644.5	642.7	638.7	642.1	640.5
5°	641.7	639.9	636.9	641.1	639.9
7.5°	638.7	636.2	633.2	638.1	636.9
10°	632.6	630.8	629.2	633.2	632.6
12.5°	625.6	625.0	623.2	628.0	627.4
15°	616.7	616.7	615.5	621.4	621.4
17.5°	607.1	606.5	607.1	613.7	613.1
20°	595.8	595.8	596.4	604.2	604.2
22.5°	582.1	582.7	584.5	594.0	593.4
25°	568.5	569.6	573.2	581.5	582.7
27.5°	551.8	554.8	558.9	569.0	570.2
30°	536.3	538.1	544.6	554.2	556.5
32.5°	518.0	521.4	528.7	539.3	542.3
35°	498.3	503.1	511.3	524.4	527.4
37.5°	478.7	482.9	494.2	507.7	513.2
40°	456.7	463.8	475.7	491.2	497.1
42.5°	435.2	442.4	458.5	474.5	479.9
45°	412.6	420.5	437.6	457.3	463.8
47.5°	387.6	396.7	418.6	439.4	446.5
50°	362.1	373.4	397.7	421.1	429.3
52.5°	335.4	349.6	377.6	401.9	409.8
55°	309.2	324.6	356.8	381.8	391.3
57.5°	282.5	299.2	335.4	363.9	369.3
60°	253.3	273.6	313.3	338.3	345.5
62.5°	224.8	248.0	290.7	314.5	320.5
65°	197.4	222.4	267.6	289.5	293.7
67.5°	167.6	197.4	242.0	262.3	263.3
70°	139.2	173.7	217.0	226.5	218.8
72.5°	111.2	148.1	188.0	180.1	173.7
75°	86.8	124.3	152.9	137.4	133.8
77.5°	64.3	101.7	109.4	101.1	94.5
80°	45.7	80.2	73.7	63.1	60.0
82.5°	31.5	50.6	40.5	31.5	27.4
85°	17.9	22.6	14.3	8.9	7.1
87.5°	7.7	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)