

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: P732695

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732695
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-CA125-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

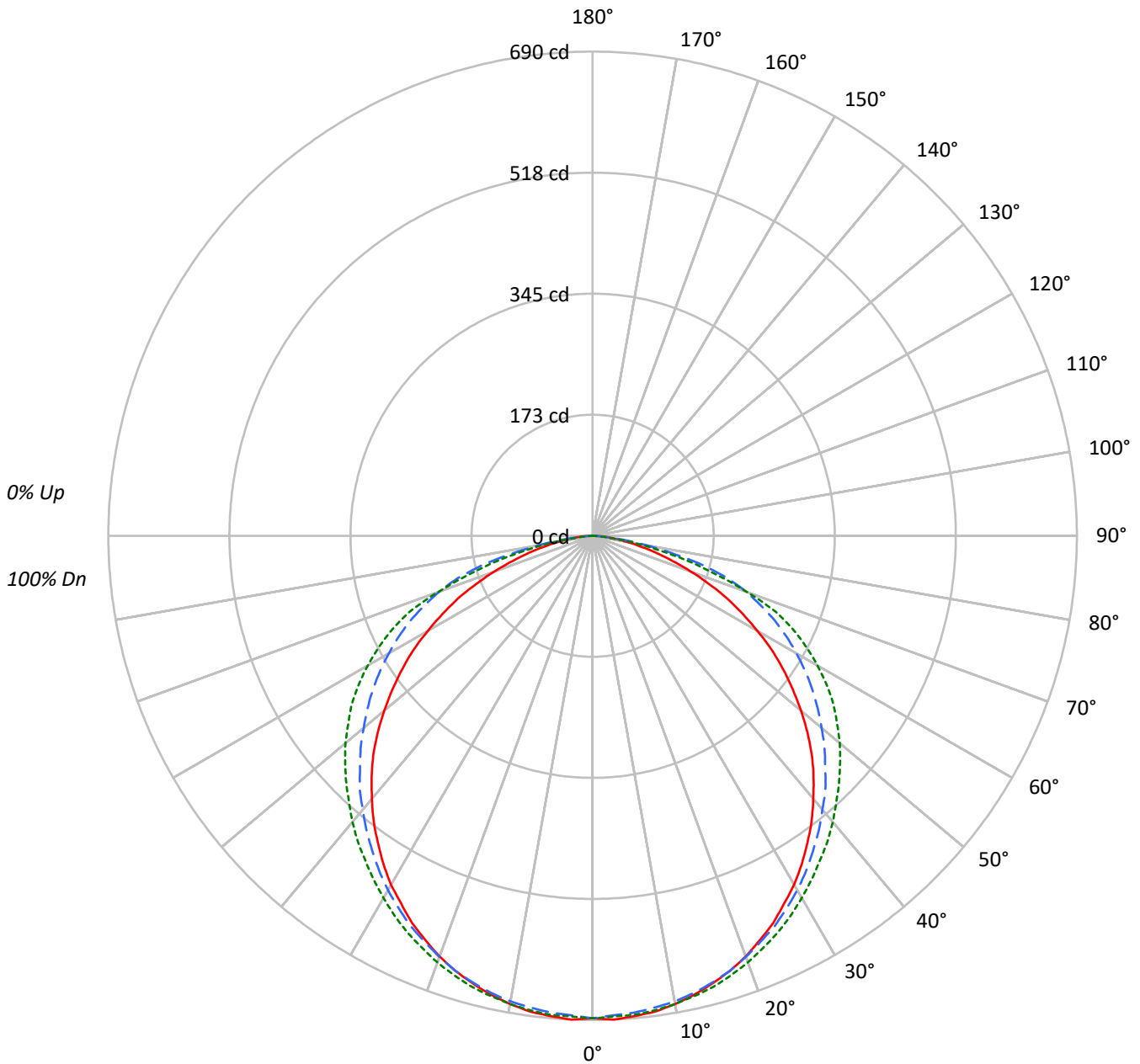
Lumens per Lamp: N/A
Luminaire Lumens: 2025.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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°	1941	1941	1941
5°	1947	1932	1941
10°	1942	1931	1942
15°	1930	1926	1944
20°	1916	1918	1943
25°	1896	1912	1943
30°	1872	1901	1942
35°	1839	1887	1946
40°	1802	1877	1961
45°	1764	1871	1983
50°	1703	1870	2019
55°	1630	1880	2062
60°	1531	1894	2089
65°	1412	1914	2101
70°	1231	1918	1934
75°	1014	1785	1563
80°	797	1284	1045
85°	622	496	246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.2
10°-20°	186.8	9.2
20°-30°	283.7	14.0
30°-40°	343.8	17.0
40°-50°	362.2	17.9
50°-60°	338.2	16.7
60°-70°	270.2	13.3
70°-80°	148.7	7.3
80°-90°	26.3	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°	535.6	26.5
0°-40°	879.4	43.4
0°-60°	1579.8	78.0
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	687	685	682	686	685	65
15°	660	660	659	665	665	186
25°	609	610	614	623	624	280
35°	534	539	548	562	565	334
45°	442	450	469	490	497	340
55°	331	348	382	409	419	296
65°	211	238	286	310	315	208
75°	93	133	164	147	143	100
85°	19	24	15	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.6	687.6	687.6	687.6	687.6
2.5°	690.2	688.3	683.9	687.6	685.8
5°	687.1	685.2	682.0	686.5	685.2
7.5°	683.9	681.3	678.1	683.3	682.0
10°	677.5	675.5	673.8	678.1	677.5
12.5°	669.9	669.2	667.3	672.5	671.8
15°	660.4	660.4	659.1	665.4	665.4
17.5°	650.1	649.4	650.1	657.2	656.5
20°	638.0	638.0	638.6	647.0	647.0
22.5°	623.3	624.0	625.9	636.1	635.4
25°	608.8	609.9	613.8	622.7	624.0
27.5°	590.9	594.2	598.5	609.3	610.6
30°	574.3	576.3	583.2	593.5	595.9
32.5°	554.7	558.4	566.1	577.6	580.8
35°	533.6	538.7	547.6	561.6	564.8
37.5°	512.6	517.1	529.2	543.7	549.5
40°	489.1	496.7	509.4	526.0	532.3
42.5°	466.0	473.8	491.0	508.1	513.9
45°	441.9	450.2	468.6	489.7	496.7
47.5°	415.1	424.8	448.3	470.6	478.1
50°	387.7	399.8	425.9	450.9	459.8
52.5°	359.2	374.3	404.3	430.4	438.8
55°	331.2	347.6	382.1	408.8	419.0
57.5°	302.5	320.4	359.2	389.7	395.5
60°	271.2	293.0	335.5	362.3	370.0
62.5°	240.8	265.6	311.3	336.8	343.2
65°	211.4	238.2	286.5	310.0	314.6
67.5°	179.5	211.4	259.1	280.9	282.0
70°	149.1	186.0	232.4	242.5	234.3
72.5°	119.1	158.6	201.3	192.9	186.0
75°	93.0	133.1	163.7	147.1	143.3
77.5°	68.8	108.9	117.2	108.3	101.2
80°	49.0	85.9	79.0	67.5	64.3
82.5°	33.7	54.1	43.3	33.7	29.3
85°	19.2	24.2	15.3	9.5	7.6
87.5°	8.2	5.8	3.2	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)