

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: P732699

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732699
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-CP187-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

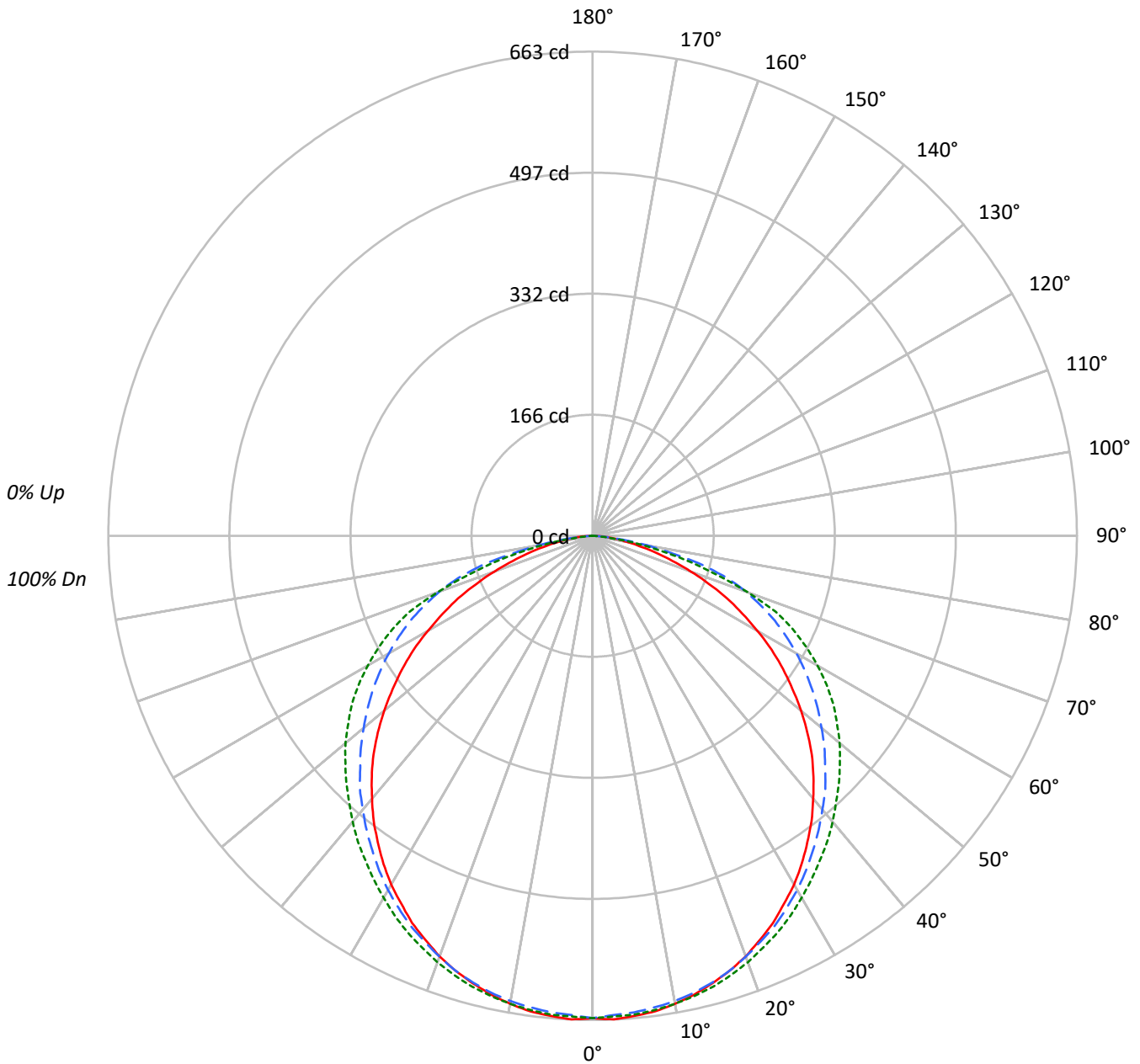
Lumens per Lamp: N/A
Luminaire Lumens: 1945.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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°	1864	1864	1864
5°	1870	1856	1865
10°	1865	1855	1865
15°	1854	1850	1868
20°	1841	1843	1867
25°	1821	1836	1867
30°	1798	1826	1866
35°	1766	1812	1869
40°	1731	1803	1884
45°	1694	1797	1904
50°	1635	1796	1939
55°	1565	1806	1980
60°	1471	1819	2006
65°	1357	1838	2018
70°	1182	1842	1858
75°	974	1716	1501
80°	766	1232	1005
85°	596	476	236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	3.2
10°-20°	179.4	9.2
20°-30°	272.5	14.0
30°-40°	330.2	17.0
40°-50°	347.9	17.9
50°-60°	324.8	16.7
60°-70°	259.6	13.3
70°-80°	142.8	7.3
80°-90°	25.2	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°	514.5	26.5
0°-40°	844.6	43.4
0°-60°	1517.4	78.0
0°-90°	1945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	660	658	655	659	658	63
15°	634	634	633	639	639	179
25°	585	586	590	598	599	269
35°	512	517	526	539	542	321
45°	424	432	450	470	477	327
55°	318	334	367	393	402	284
65°	203	229	275	298	302	200
75°	89	128	157	141	138	96
85°	18	23	15	9	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.5	660.5	660.5	660.5	660.5
2.5°	662.9	661.1	656.9	660.5	658.8
5°	660.0	658.1	655.0	659.4	658.1
7.5°	656.9	654.4	651.3	656.3	655.0
10°	650.7	648.8	647.1	651.3	650.7
12.5°	643.4	642.8	641.0	645.9	645.3
15°	634.3	634.3	633.1	639.1	639.1
17.5°	624.4	623.8	624.4	631.2	630.6
20°	612.8	612.8	613.4	621.4	621.4
22.5°	598.7	599.3	601.2	610.9	610.3
25°	584.8	585.8	589.6	598.1	599.3
27.5°	567.6	570.7	574.9	585.2	586.5
30°	551.6	553.5	560.2	570.1	572.4
32.5°	532.8	536.3	543.7	554.7	557.8
35°	512.5	517.4	525.9	539.4	542.5
37.5°	492.4	496.7	508.3	522.2	527.8
40°	469.8	477.0	489.3	505.2	511.2
42.5°	447.6	455.1	471.6	488.0	493.6
45°	424.4	432.5	450.1	470.4	477.0
47.5°	398.7	408.0	430.6	452.0	459.2
50°	372.4	384.0	409.1	433.1	441.6
52.5°	345.0	359.6	388.3	413.4	421.5
55°	318.1	333.9	367.0	392.7	402.4
57.5°	290.5	307.7	345.0	374.3	379.8
60°	260.5	281.4	322.3	347.9	355.4
62.5°	231.2	255.1	299.0	323.5	329.7
65°	203.1	228.8	275.2	297.8	302.1
67.5°	172.4	203.1	248.9	269.8	270.9
70°	143.2	178.6	223.2	232.9	225.1
72.5°	114.4	152.3	193.3	185.3	178.6
75°	89.3	127.8	157.3	141.3	137.6
77.5°	66.1	104.6	112.5	104.0	97.2
80°	47.1	82.5	75.8	64.9	61.8
82.5°	32.3	52.0	41.6	32.3	28.2
85°	18.4	23.2	14.7	9.1	7.3
87.5°	7.9	5.6	3.1	2.5	2.5
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)