

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: P732687

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732687
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-CA08-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

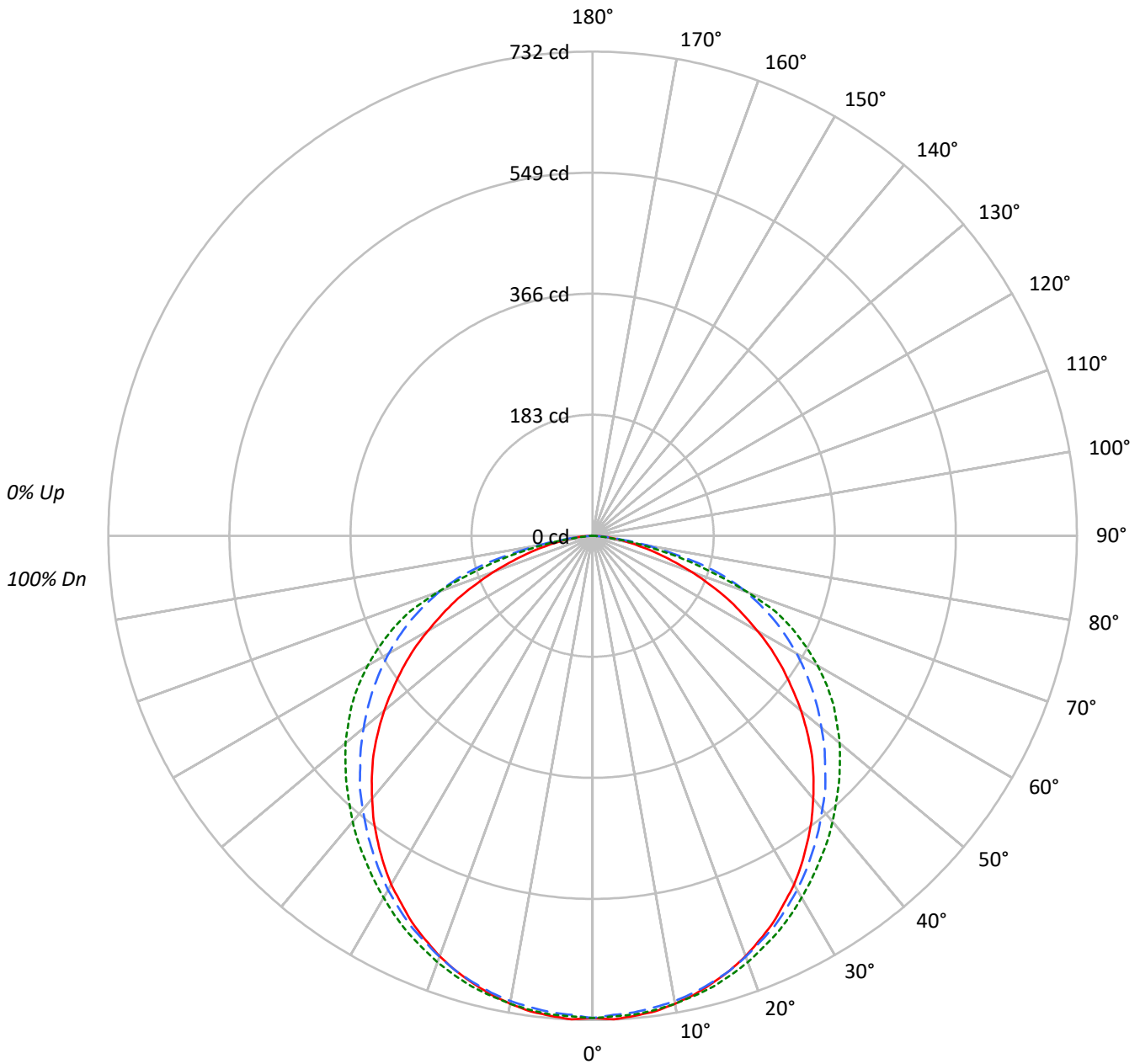
Lumens per Lamp: N/A
Luminaire Lumens: 2147.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732687

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CA08-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732687

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CA08-3000K

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°	2058	2058	2058
5°	2064	2049	2059
10°	2059	2048	2059
15°	2046	2042	2062
20°	2032	2034	2061
25°	2010	2027	2061
30°	1985	2015	2059
35°	1949	2001	2064
40°	1911	1990	2079
45°	1870	1984	2102
50°	1805	1983	2141
55°	1728	1994	2186
60°	1624	2008	2215
65°	1497	2029	2227
70°	1304	2034	2050
75°	1075	1893	1657
80°	844	1361	1109
85°	657	525	259



TEST NUMBER: P732687

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CA08-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.2
10°-20°	198.1	9.2
20°-30°	300.8	14.0
30°-40°	364.5	17.0
40°-50°	384.1	17.9
50°-60°	358.5	16.7
60°-70°	286.5	13.3
70°-80°	157.7	7.3
80°-90°	27.8	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°	567.9	26.5
0°-40°	932.4	43.4
0°-60°	1675.0	78.0
0°-90°	2147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	728	726	723	728	726	69
15°	700	700	699	706	706	198
25°	646	647	651	660	662	297
35°	566	571	581	595	599	354
45°	468	477	497	519	527	360
55°	351	368	405	434	444	313
65°	224	252	304	329	334	221
75°	99	141	174	156	152	106
85°	20	26	16	10	8	25
90°	0	0	0	0	0	



TEST NUMBER: P732687

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CA08-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	729.0	729.0	729.0	729.0	729.0
2.5°	731.8	729.7	725.1	729.0	727.2
5°	728.5	726.5	723.1	727.8	726.5
7.5°	725.1	722.4	719.0	724.4	723.1
10°	718.3	716.2	714.4	719.0	718.3
12.5°	710.3	709.6	707.5	713.0	712.3
15°	700.2	700.2	698.8	705.5	705.5
17.5°	689.2	688.6	689.2	696.8	696.1
20°	676.4	676.4	677.1	686.0	686.0
22.5°	660.9	661.6	663.6	674.4	673.7
25°	645.5	646.7	650.8	660.2	661.6
27.5°	626.5	629.9	634.6	646.0	647.4
30°	608.9	611.0	618.3	629.3	631.8
32.5°	588.1	592.0	600.2	612.4	615.8
35°	565.7	571.2	580.6	595.4	598.9
37.5°	543.5	548.3	561.1	576.5	582.6
40°	518.6	526.6	540.1	557.7	564.3
42.5°	494.1	502.3	520.6	538.7	544.9
45°	468.5	477.4	496.9	519.2	526.6
47.5°	440.1	450.4	475.3	498.9	506.9
50°	411.1	423.9	451.6	478.1	487.5
52.5°	380.8	396.9	428.7	456.4	465.2
55°	351.1	368.5	405.1	433.5	444.2
57.5°	320.7	339.7	380.8	413.1	419.3
60°	287.6	310.6	355.7	384.1	392.3
62.5°	255.3	281.6	330.1	357.1	363.9
65°	224.2	252.5	303.8	328.7	333.5
67.5°	190.3	224.2	274.7	297.8	299.0
70°	158.0	197.2	246.4	257.1	248.4
72.5°	126.3	168.1	213.4	204.5	197.2
75°	98.6	141.1	173.6	156.0	151.9
77.5°	73.0	115.5	124.2	114.8	107.3
80°	51.9	91.1	83.7	71.6	68.2
82.5°	35.7	57.4	46.0	35.7	31.1
85°	20.3	25.6	16.2	10.1	8.0
87.5°	8.7	6.2	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)