

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: P732686

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732686
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-CA08-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

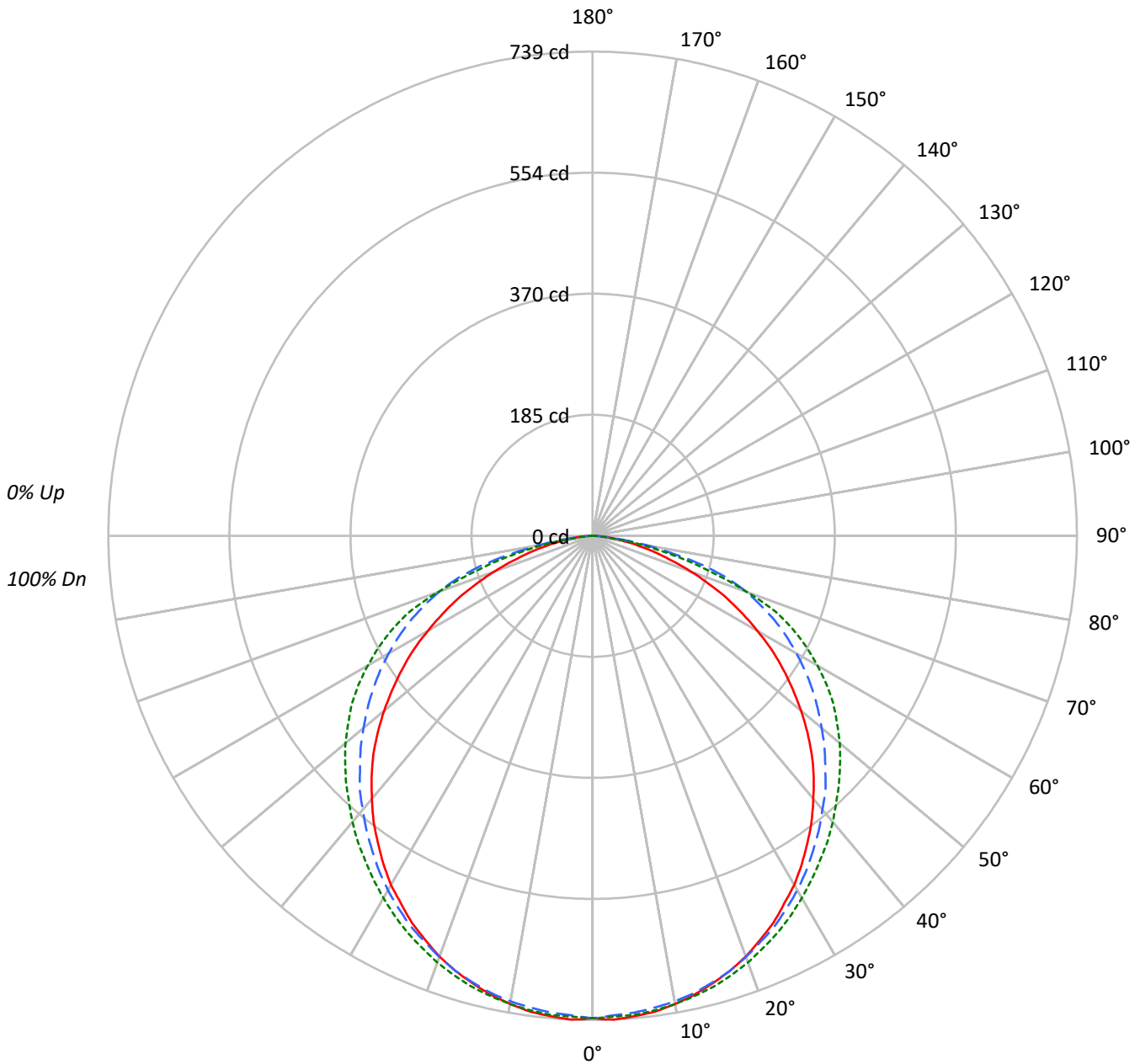
Lumens per Lamp: N/A
Luminaire Lumens: 2169.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	2079	2079	2079
5°	2085	2070	2079
10°	2080	2069	2080
15°	2067	2063	2083
20°	2053	2055	2082
25°	2031	2048	2081
30°	2005	2036	2080
35°	1969	2021	2085
40°	1930	2010	2101
45°	1889	2004	2124
50°	1824	2003	2162
55°	1746	2014	2209
60°	1640	2029	2237
65°	1513	2050	2250
70°	1318	2054	2071
75°	1086	1913	1673
80°	853	1375	1120
85°	664	531	262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	3.2
10°-20°	200.1	9.2
20°-30°	303.9	14.0
30°-40°	368.2	17.0
40°-50°	388.0	17.9
50°-60°	362.2	16.7
60°-70°	289.5	13.3
70°-80°	159.3	7.3
80°-90°	28.1	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°	573.7	26.4
0°-40°	941.9	43.4
0°-60°	1692.1	78.0
0°-90°	2169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	736	734	730	735	734	70
15°	707	707	706	713	713	200
25°	652	653	658	667	668	300
35°	572	577	586	602	605	358
45°	473	482	502	525	532	364
55°	355	372	409	438	449	317
65°	226	255	307	332	337	223
75°	100	143	175	158	153	107
85°	20	26	16	10	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.5	736.5	736.5	736.5	736.5
2.5°	739.3	737.2	732.5	736.5	734.6
5°	736.0	733.9	730.5	735.3	733.9
7.5°	732.5	729.8	726.3	731.9	730.5
10°	725.6	723.6	721.7	726.3	725.6
12.5°	717.5	716.8	714.8	720.3	719.6
15°	707.3	707.3	706.0	712.7	712.7
17.5°	696.3	695.6	696.3	703.9	703.2
20°	683.4	683.4	684.0	693.0	693.0
22.5°	667.6	668.3	670.4	681.3	680.6
25°	652.1	653.3	657.5	667.0	668.3
27.5°	633.0	636.4	641.1	652.6	654.0
30°	615.2	617.2	624.7	635.7	638.3
32.5°	594.1	598.1	606.4	618.6	622.1
35°	571.5	577.0	586.5	601.5	605.0
37.5°	549.1	553.9	566.8	582.4	588.6
40°	523.9	532.0	545.6	563.4	570.1
42.5°	499.2	507.5	525.9	544.2	550.4
45°	473.3	482.3	501.9	524.6	532.0
47.5°	444.6	455.0	480.2	504.0	512.1
50°	415.3	428.2	456.2	483.0	492.4
52.5°	384.7	401.0	433.1	461.0	470.0
55°	354.7	372.3	409.3	437.9	448.8
57.5°	324.0	343.1	384.7	417.4	423.6
60°	290.5	313.8	359.4	388.0	396.3
62.5°	257.9	284.5	333.5	360.7	367.7
65°	226.5	255.1	306.9	332.1	336.9
67.5°	192.3	226.5	277.6	300.9	302.1
70°	159.7	199.2	248.9	259.8	251.0
72.5°	127.6	169.8	215.6	206.6	199.2
75°	99.6	142.6	175.4	157.6	153.4
77.5°	73.7	116.7	125.5	116.0	108.4
80°	52.5	92.0	84.6	72.3	68.9
82.5°	36.1	58.0	46.4	36.1	31.4
85°	20.5	25.9	16.4	10.2	8.1
87.5°	8.8	6.2	3.5	2.8	2.8
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)