

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: P732690

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732690
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-CA08-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

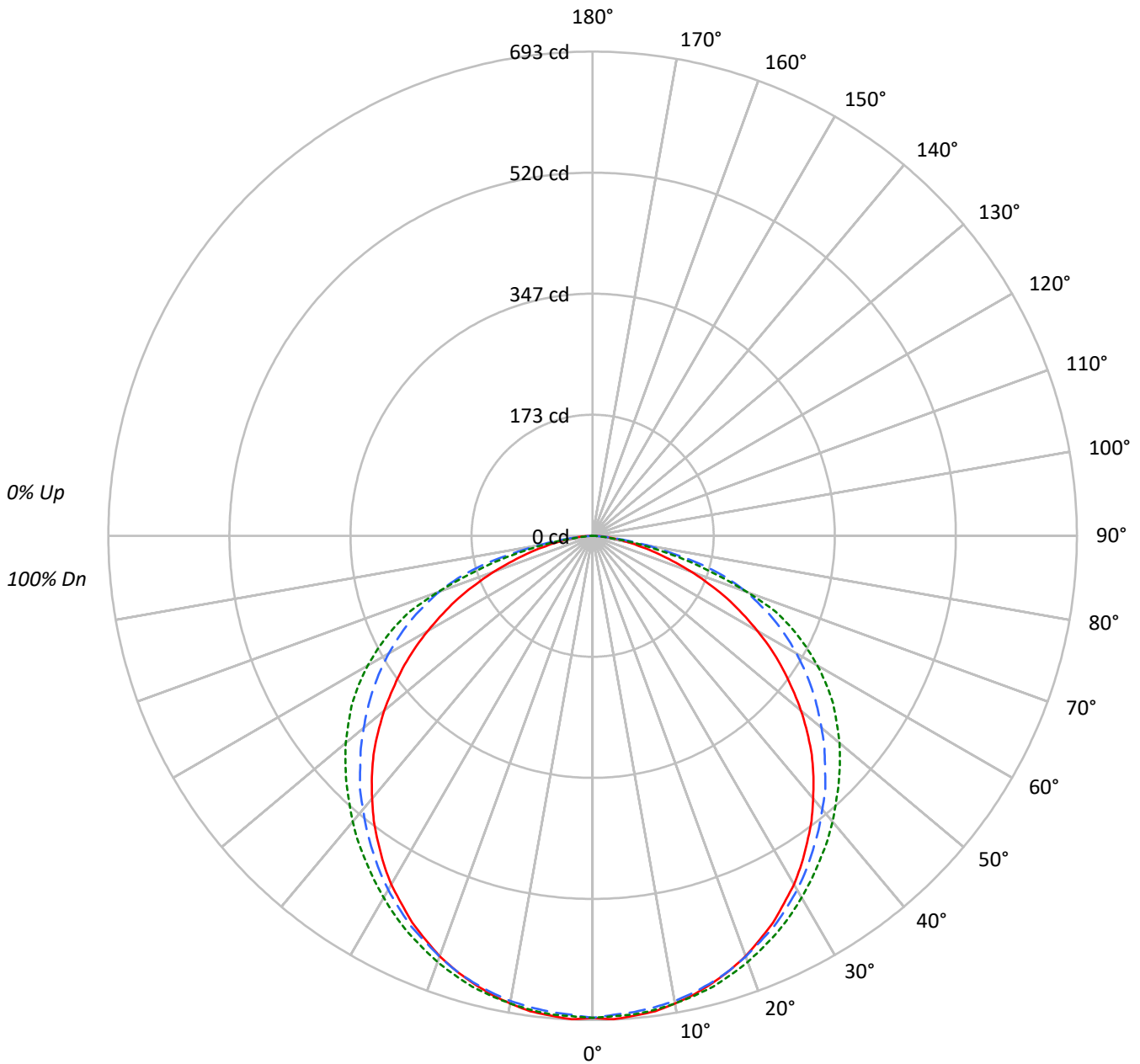
Lumens per Lamp: N/A
Luminaire Lumens: 2032.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1948	1948	1948
5°	1954	1939	1948
10°	1948	1938	1948
15°	1937	1933	1951
20°	1923	1925	1950
25°	1903	1918	1950
30°	1878	1907	1949
35°	1845	1893	1953
40°	1808	1884	1968
45°	1770	1877	1990
50°	1709	1877	2026
55°	1635	1887	2069
60°	1536	1901	2096
65°	1417	1920	2108
70°	1235	1925	1940
75°	1018	1792	1568
80°	800	1287	1048
85°	622	499	246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.2
10°-20°	187.5	9.2
20°-30°	284.7	14.0
30°-40°	344.9	17.0
40°-50°	363.5	17.9
50°-60°	339.3	16.7
60°-70°	271.2	13.3
70°-80°	149.2	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°	537.5	26.4
0°-40°	882.4	43.4
0°-60°	1585.2	78.0
0°-90°	2032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	690	688	684	689	688	66
15°	663	663	661	668	668	187
25°	611	612	616	625	626	281
35°	535	541	550	564	567	335
45°	443	452	470	491	498	341
55°	332	349	383	410	420	297
65°	212	239	288	311	316	209
75°	93	134	164	148	144	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°	690.0	690.0	690.0	690.0	690.0
2.5°	692.6	690.6	686.3	690.0	688.2
5°	689.5	687.6	684.3	688.9	687.6
7.5°	686.3	683.7	680.5	685.6	684.3
10°	679.8	677.9	676.1	680.5	679.8
12.5°	672.2	671.6	669.6	674.8	674.1
15°	662.7	662.7	661.4	667.7	667.7
17.5°	652.3	651.7	652.3	659.4	658.8
20°	640.2	640.2	640.8	649.2	649.2
22.5°	625.5	626.1	628.1	638.3	637.6
25°	610.9	612.1	615.9	624.8	626.1
27.5°	593.0	596.2	600.6	611.4	612.7
30°	576.3	578.3	585.2	595.6	598.0
32.5°	556.6	560.3	568.1	579.6	582.8
35°	535.4	540.6	549.5	563.5	566.8
37.5°	514.4	518.9	531.0	545.6	551.4
40°	490.8	498.4	511.2	527.8	534.1
42.5°	467.7	475.4	492.7	509.9	515.7
45°	443.4	451.8	470.2	491.4	498.4
47.5°	416.6	426.3	449.9	472.2	479.8
50°	389.1	401.2	427.4	452.5	461.3
52.5°	360.4	375.6	405.7	431.9	440.3
55°	332.3	348.8	383.4	410.2	420.4
57.5°	303.5	321.5	360.4	391.0	396.8
60°	272.1	294.0	336.7	363.5	371.3
62.5°	241.6	266.5	312.4	338.0	344.4
65°	212.2	239.0	287.5	311.1	315.6
67.5°	180.1	212.2	260.0	281.9	283.0
70°	149.6	186.6	233.2	243.4	235.1
72.5°	119.5	159.1	202.0	193.6	186.6
75°	93.3	133.6	164.3	147.6	143.8
77.5°	69.0	109.3	117.6	108.7	101.6
80°	49.2	86.2	79.2	67.8	64.5
82.5°	33.8	54.3	43.5	33.8	29.4
85°	19.2	24.3	15.4	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)