

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: P732689

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732689
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-CA08-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

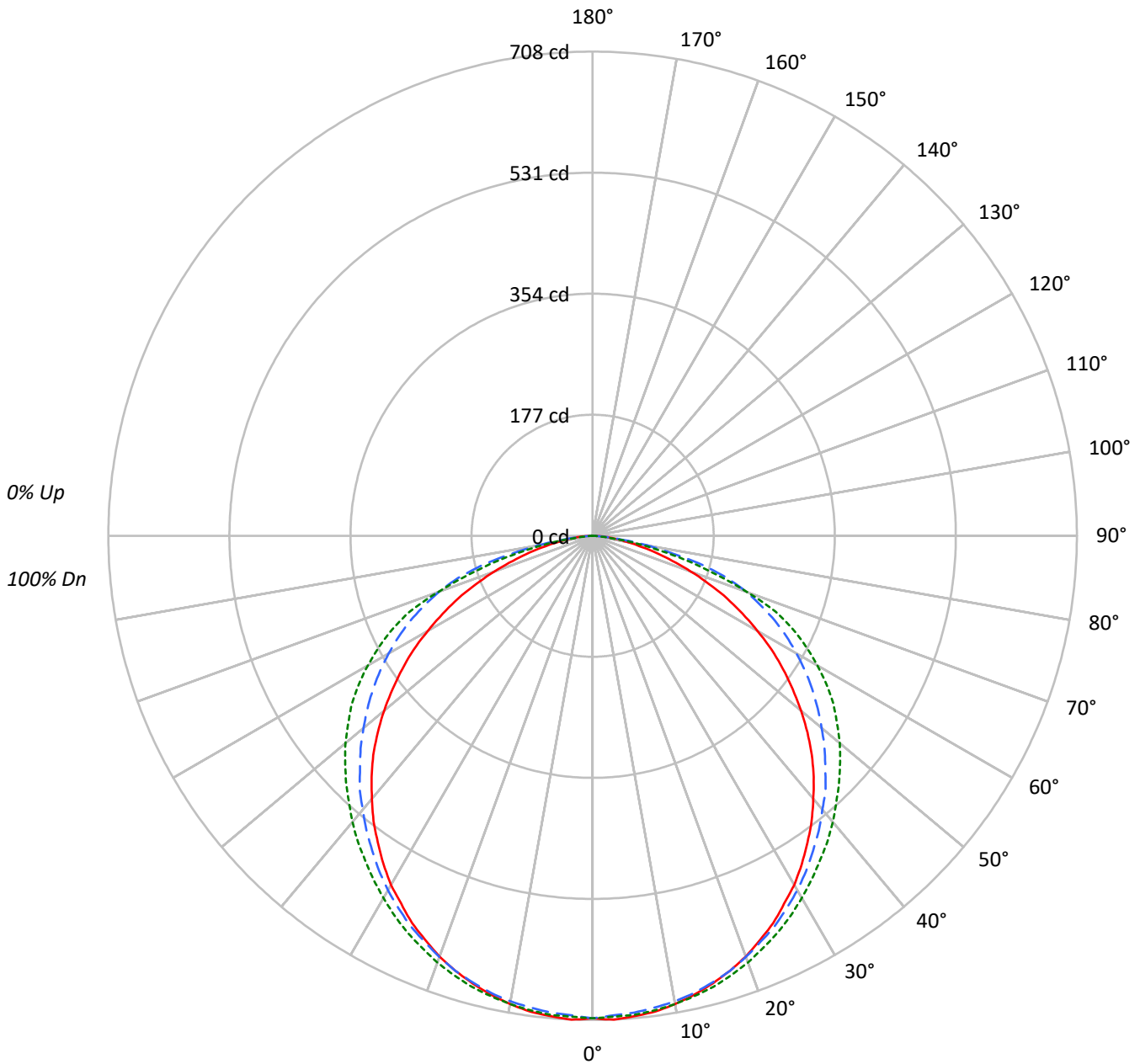
Lumens per Lamp: N/A
Luminaire Lumens: 2078.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	1992	1992	1992
5°	1998	1983	1992
10°	1993	1982	1993
15°	1980	1976	1995
20°	1967	1968	1994
25°	1946	1962	1994
30°	1921	1951	1993
35°	1887	1936	1997
40°	1849	1926	2013
45°	1810	1920	2035
50°	1747	1919	2072
55°	1672	1930	2116
60°	1571	1944	2144
65°	1449	1964	2156
70°	1263	1968	1984
75°	1040	1832	1603
80°	818	1317	1073
85°	638	508	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.2
10°-20°	191.7	9.2
20°-30°	291.1	14.0
30°-40°	352.8	17.0
40°-50°	371.7	17.9
50°-60°	347.0	16.7
60°-70°	277.3	13.3
70°-80°	152.6	7.3
80°-90°	27.0	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°	549.6	26.5
0°-40°	902.4	43.4
0°-60°	1621.1	78.0
0°-90°	2078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	705	703	700	704	703	67
15°	678	678	676	683	683	191
25°	625	626	630	639	640	288
35°	548	553	562	576	580	343
45°	453	462	481	502	510	349
55°	340	357	392	420	430	303
65°	217	244	294	318	323	214
75°	95	137	168	151	147	103
85°	20	25	16	10	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.6	705.6	705.6	705.6	705.6
2.5°	708.3	706.3	701.8	705.6	703.8
5°	705.1	703.1	699.8	704.5	703.1
7.5°	701.8	699.2	695.9	701.2	699.8
10°	695.2	693.2	691.4	695.9	695.2
12.5°	687.4	686.8	684.8	690.1	689.4
15°	677.7	677.7	676.3	682.8	682.8
17.5°	667.1	666.4	667.1	674.4	673.7
20°	654.7	654.7	655.3	663.9	663.9
22.5°	639.6	640.3	642.3	652.7	652.0
25°	624.8	625.9	629.9	639.0	640.3
27.5°	606.4	609.7	614.2	625.2	626.6
30°	589.4	591.3	598.5	609.0	611.5
32.5°	569.2	573.0	580.9	592.7	596.0
35°	547.5	552.8	561.9	576.3	579.6
37.5°	526.0	530.7	543.1	557.9	563.9
40°	501.9	509.7	522.7	539.8	546.2
42.5°	478.2	486.2	503.9	521.4	527.4
45°	453.4	462.0	480.9	502.5	509.7
47.5°	426.0	435.9	460.0	482.9	490.6
50°	397.9	410.3	437.1	462.7	471.8
52.5°	368.6	384.1	414.9	441.7	450.3
55°	339.8	356.7	392.1	419.5	430.0
57.5°	310.4	328.7	368.6	399.9	405.8
60°	278.3	300.6	344.3	371.7	379.7
62.5°	247.1	272.5	319.5	345.6	352.2
65°	217.0	244.4	294.0	318.2	322.8
67.5°	184.2	217.0	265.9	288.2	289.4
70°	153.0	190.8	238.5	248.9	240.4
72.5°	122.2	162.7	206.5	197.9	190.8
75°	95.4	136.6	168.0	151.0	147.0
77.5°	70.6	111.8	120.2	111.1	103.8
80°	50.3	88.1	81.0	69.3	66.0
82.5°	34.6	55.6	44.5	34.6	30.1
85°	19.7	24.8	15.7	9.8	7.8
87.5°	8.4	6.0	3.3	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)