

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: P732709

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732709
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-CP375-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

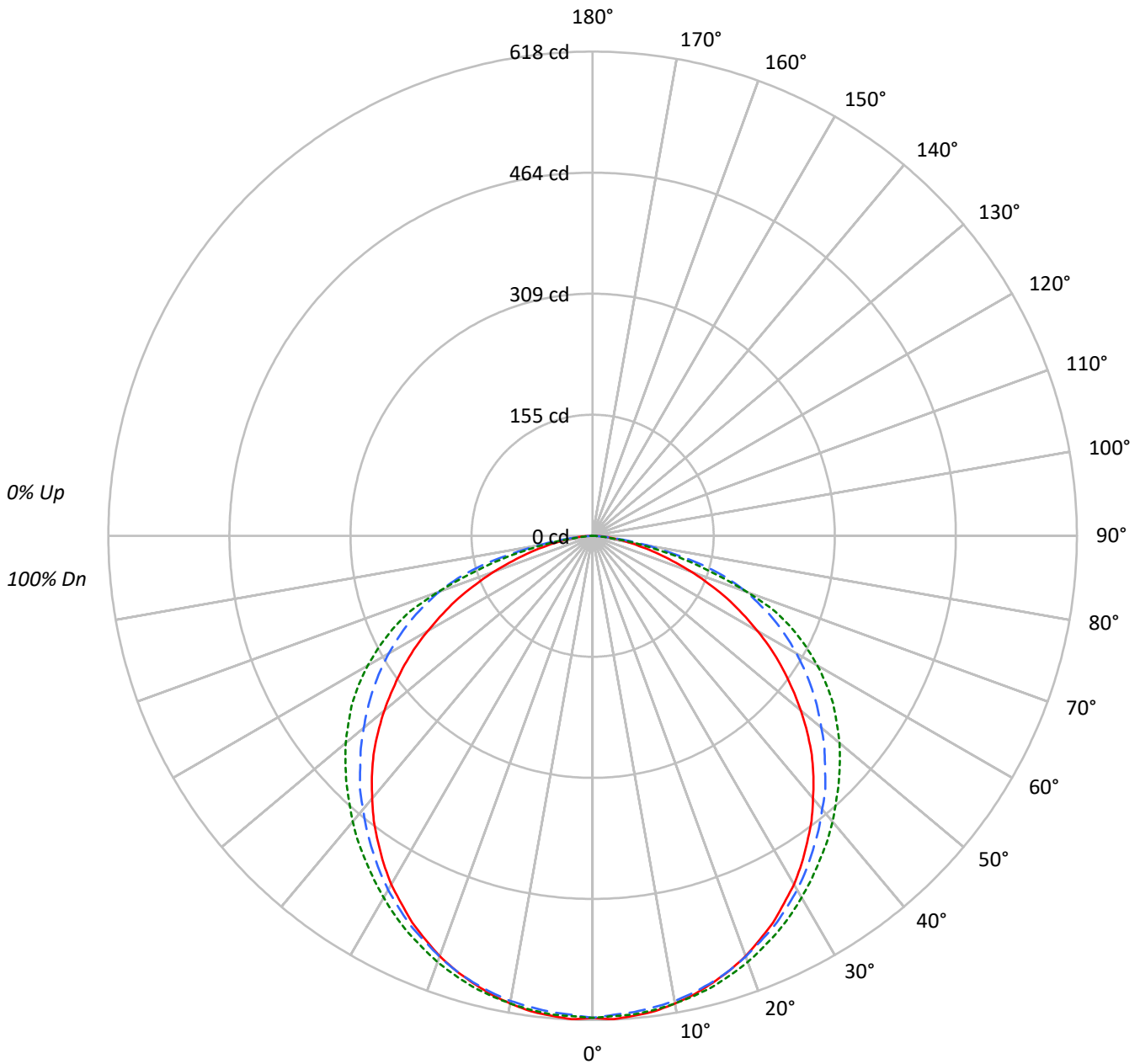
Lumens per Lamp: N/A
Luminaire Lumens: 1812.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1737	1737	1737
5°	1742	1729	1737
10°	1738	1728	1738
15°	1727	1724	1740
20°	1715	1717	1739
25°	1697	1710	1739
30°	1675	1701	1738
35°	1645	1688	1742
40°	1612	1680	1755
45°	1578	1674	1774
50°	1523	1674	1807
55°	1458	1683	1845
60°	1370	1695	1869
65°	1264	1713	1880
70°	1101	1716	1731
75°	907	1598	1398
80°	712	1149	935
85°	557	444	220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.2
10°-20°	167.2	9.2
20°-30°	253.9	14.0
30°-40°	307.6	17.0
40°-50°	324.1	17.9
50°-60°	302.6	16.7
60°-70°	241.8	13.3
70°-80°	133.1	7.3
80°-90°	23.5	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°	479.3	26.5
0°-40°	786.9	43.4
0°-60°	1413.6	78.0
0°-90°	1812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	615	613	610	614	613	58
15°	591	591	590	595	595	167
25°	545	546	549	557	558	251
35°	477	482	490	502	505	299
45°	395	403	419	438	444	304
55°	296	311	342	366	375	264
65°	189	213	256	277	282	186
75°	83	119	146	132	128	90
85°	17	22	14	8	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.3	615.3	615.3	615.3	615.3
2.5°	617.6	615.9	612.0	615.3	613.7
5°	614.9	613.1	610.2	614.3	613.1
7.5°	612.0	609.7	606.8	611.4	610.2
10°	606.2	604.5	602.9	606.8	606.2
12.5°	599.4	598.9	597.1	601.7	601.2
15°	590.9	590.9	589.8	595.4	595.4
17.5°	581.7	581.1	581.7	588.0	587.5
20°	570.9	570.9	571.5	579.0	579.0
22.5°	557.8	558.3	560.1	569.1	568.6
25°	544.8	545.8	549.2	557.2	558.3
27.5°	528.8	531.7	535.6	545.2	546.4
30°	513.9	515.7	521.9	531.1	533.2
32.5°	496.3	499.6	506.6	516.8	519.7
35°	477.4	482.1	490.0	502.5	505.4
37.5°	458.7	462.7	473.5	486.5	491.7
40°	437.6	444.4	455.8	470.7	476.3
42.5°	417.0	423.9	439.4	454.7	459.8
45°	395.4	402.9	419.3	438.2	444.4
47.5°	371.5	380.1	401.2	421.1	427.8
50°	346.9	357.8	381.1	403.5	411.4
52.5°	321.4	335.0	361.8	385.2	392.7
55°	296.3	311.0	341.9	365.8	374.9
57.5°	270.7	286.7	321.4	348.7	353.9
60°	242.7	262.2	300.2	324.2	331.1
62.5°	215.4	237.6	278.6	301.4	307.1
65°	189.2	213.1	256.4	277.4	281.5
67.5°	160.6	189.2	231.9	251.3	252.3
70°	133.4	166.4	207.9	217.0	209.7
72.5°	106.6	141.9	180.1	172.6	166.4
75°	83.2	119.1	146.5	131.7	128.2
77.5°	61.6	97.5	104.8	96.9	90.6
80°	43.8	76.9	70.7	60.4	57.5
82.5°	30.1	48.5	38.8	30.1	26.2
85°	17.2	21.6	13.7	8.5	6.8
87.5°	7.4	5.2	2.9	2.3	2.3
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)