

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: P732701

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732701
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-CP250-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

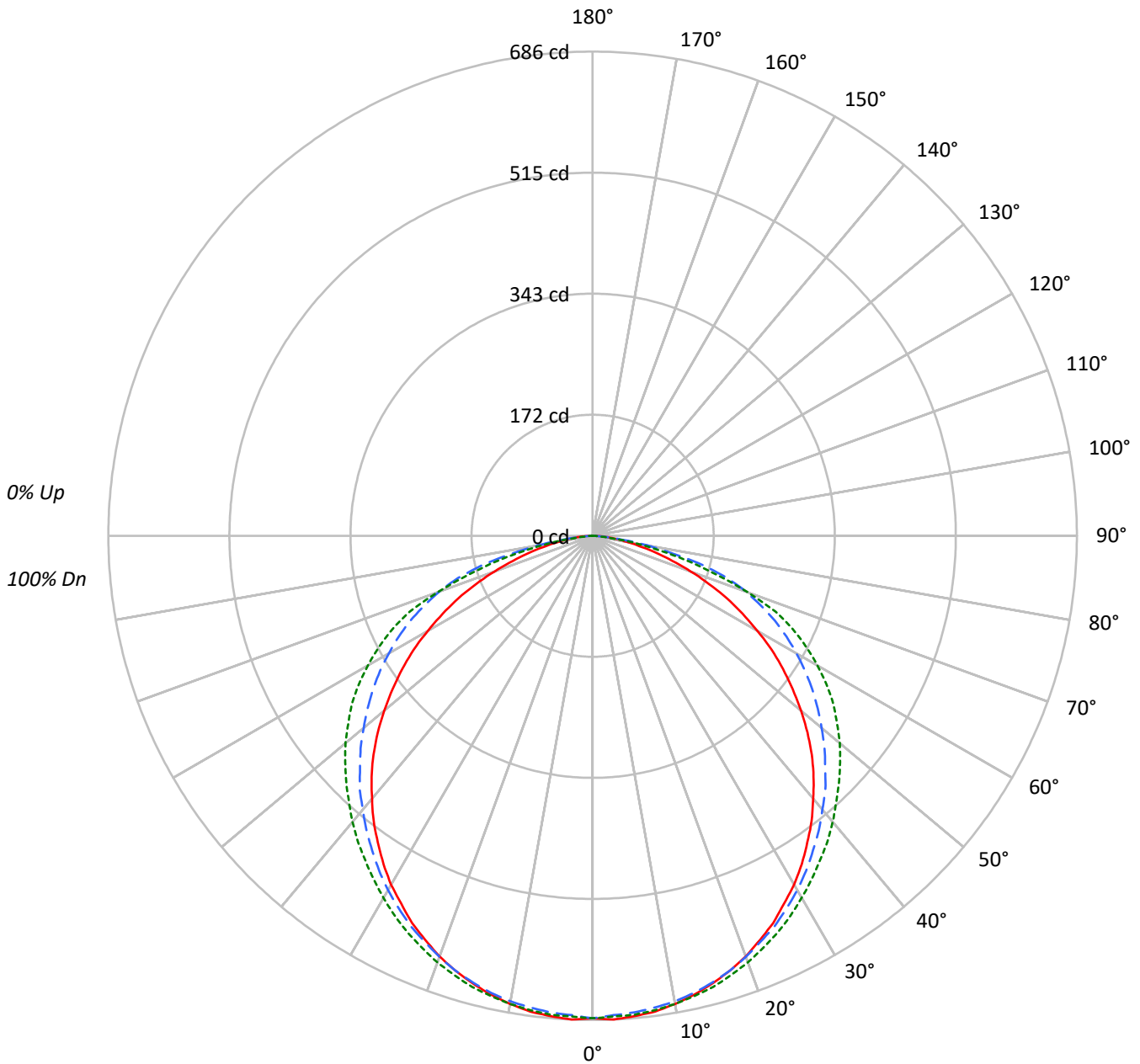
Lumens per Lamp: N/A
Luminaire Lumens: 2013.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1929	1929	1929
5°	1936	1921	1930
10°	1930	1920	1930
15°	1918	1915	1933
20°	1905	1907	1932
25°	1885	1900	1932
30°	1861	1889	1931
35°	1828	1876	1935
40°	1792	1866	1950
45°	1753	1859	1971
50°	1692	1859	2007
55°	1620	1869	2050
60°	1522	1883	2076
65°	1404	1902	2089
70°	1223	1906	1922
75°	1008	1775	1553
80°	792	1276	1039
85°	619	492	243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.2
10°-20°	185.7	9.2
20°-30°	282.0	14.0
30°-40°	341.7	17.0
40°-50°	360.1	17.9
50°-60°	336.2	16.7
60°-70°	268.6	13.3
70°-80°	147.8	7.3
80°-90°	26.1	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°	532.4	26.4
0°-40°	874.2	43.4
0°-60°	1570.4	78.0
0°-90°	2013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	683	681	678	682	681	65
15°	656	656	655	661	661	185
25°	605	606	610	619	620	279
35°	530	536	544	558	562	332
45°	439	448	466	487	494	338
55°	329	346	380	406	416	294
65°	210	237	285	308	313	207
75°	92	132	163	146	142	99
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°	683.5	683.5	683.5	683.5	683.5
2.5°	686.1	684.2	679.9	683.5	681.8
5°	683.1	681.1	677.9	682.4	681.1
7.5°	679.9	677.3	674.1	679.2	677.9
10°	673.5	671.5	669.8	674.1	673.5
12.5°	665.9	665.3	663.4	668.5	667.8
15°	656.5	656.5	655.2	661.4	661.4
17.5°	646.2	645.6	646.2	653.3	652.6
20°	634.2	634.2	634.8	643.2	643.2
22.5°	619.6	620.3	622.2	632.3	631.6
25°	605.2	606.3	610.2	619.0	620.3
27.5°	587.4	590.6	595.0	605.7	607.0
30°	570.9	572.9	579.7	590.0	592.4
32.5°	551.4	555.1	562.8	574.1	577.3
35°	530.4	535.5	544.3	558.3	561.5
37.5°	509.6	514.1	526.1	540.5	546.3
40°	486.2	493.7	506.4	522.9	529.1
42.5°	463.3	471.0	488.1	505.1	510.9
45°	439.2	447.6	465.8	486.8	493.7
47.5°	412.7	422.3	445.7	467.8	475.3
50°	385.4	397.4	423.4	448.2	457.0
52.5°	357.1	372.1	401.9	427.9	436.2
55°	329.2	345.5	379.8	406.4	416.5
57.5°	300.7	318.5	357.1	387.3	393.1
60°	269.6	291.2	333.5	360.1	367.8
62.5°	239.3	264.0	309.5	334.8	341.2
65°	210.2	236.8	284.8	308.2	312.7
67.5°	178.5	210.2	257.6	279.2	280.3
70°	148.2	184.9	231.0	241.1	232.9
72.5°	118.4	157.6	200.1	191.8	184.9
75°	92.4	132.3	162.8	146.3	142.4
77.5°	68.4	108.3	116.5	107.6	100.6
80°	48.7	85.4	78.5	67.1	63.9
82.5°	33.5	53.8	43.1	33.5	29.2
85°	19.1	24.0	15.2	9.5	7.5
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)