

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: P732703

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732703
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-CP250-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

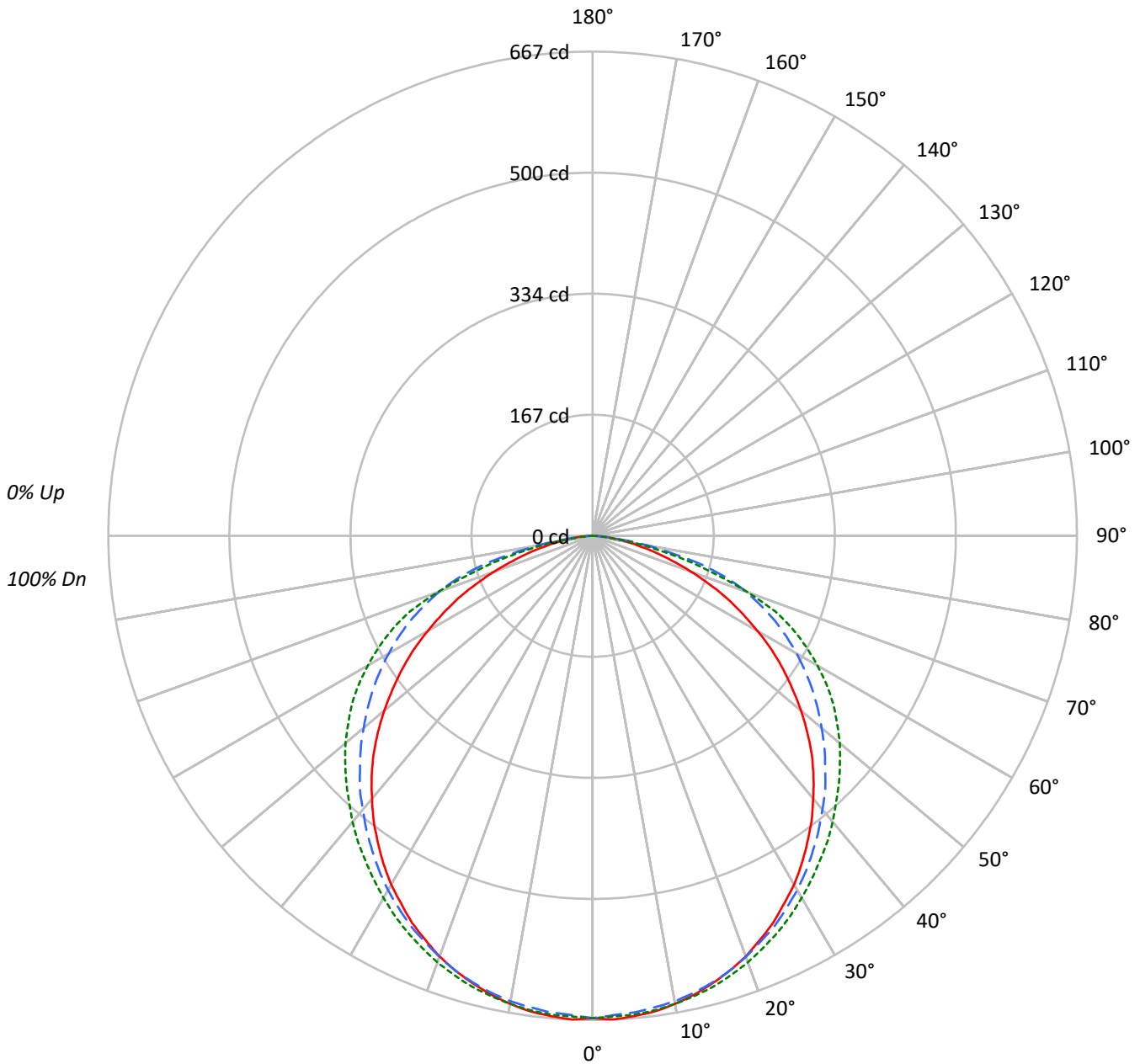
Lumens per Lamp: N/A
Luminaire Lumens: 1957.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1876	1876	1876
5°	1882	1868	1876
10°	1877	1866	1877
15°	1865	1861	1879
20°	1852	1854	1878
25°	1833	1848	1878
30°	1809	1837	1877
35°	1777	1824	1881
40°	1742	1814	1895
45°	1705	1808	1916
50°	1645	1807	1951
55°	1575	1817	1993
60°	1480	1830	2019
65°	1365	1849	2030
70°	1189	1854	1868
75°	980	1725	1509
80°	769	1240	1009
85°	599	479	236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.2
10°-20°	180.5	9.2
20°-30°	274.2	14.0
30°-40°	332.2	17.0
40°-50°	350.1	17.9
50°-60°	326.8	16.7
60°-70°	261.2	13.3
70°-80°	143.7	7.3
80°-90°	25.4	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°	517.6	26.5
0°-40°	849.8	43.4
0°-60°	1526.7	78.0
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	664	662	659	663	662	63
15°	638	638	637	643	643	180
25°	588	590	593	602	603	271
35°	516	521	529	543	546	323
45°	427	435	453	473	480	329
55°	320	336	369	395	405	286
65°	204	230	277	300	304	201
75°	90	129	158	142	138	97
85°	18	23	15	9	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.5	664.5	664.5	664.5	664.5
2.5°	667.0	665.2	660.9	664.5	662.8
5°	664.1	662.2	659.1	663.4	662.2
7.5°	660.9	658.5	655.3	660.3	659.1
10°	654.7	652.8	651.1	655.3	654.7
12.5°	647.4	646.8	644.9	649.9	649.3
15°	638.2	638.2	637.0	643.0	643.0
17.5°	628.2	627.6	628.2	635.1	634.5
20°	616.6	616.6	617.2	625.3	625.3
22.5°	602.4	603.0	604.9	614.7	614.1
25°	588.4	589.5	593.2	601.8	603.0
27.5°	571.1	574.2	578.4	588.8	590.1
30°	555.0	556.9	563.6	573.6	575.9
32.5°	536.0	539.6	547.1	558.2	561.3
35°	515.6	520.6	529.2	542.7	545.9
37.5°	495.4	499.8	511.4	525.5	531.1
40°	472.7	480.0	492.3	508.3	514.4
42.5°	450.4	457.9	474.5	491.0	496.6
45°	427.0	435.1	452.9	473.3	480.0
47.5°	401.2	410.5	433.3	454.8	462.1
50°	374.7	386.4	411.6	435.8	444.3
52.5°	347.1	361.8	390.7	416.0	424.1
55°	320.0	335.9	369.3	395.1	404.9
57.5°	292.3	309.6	347.1	376.6	382.2
60°	262.1	283.1	324.2	350.1	357.6
62.5°	232.7	256.7	300.9	325.5	331.7
65°	204.3	230.2	276.9	299.6	304.0
67.5°	173.5	204.3	250.4	271.4	272.5
70°	144.1	179.7	224.6	234.4	226.4
72.5°	115.1	153.2	194.5	186.4	179.7
75°	89.9	128.6	158.2	142.2	138.4
77.5°	66.5	105.3	113.2	104.7	97.8
80°	47.3	83.0	76.3	65.3	62.1
82.5°	32.5	52.3	41.9	32.5	28.3
85°	18.5	23.4	14.8	9.2	7.3
87.5°	7.9	5.6	3.1	2.5	2.5
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)