

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: P732704

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732704
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-CP250-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

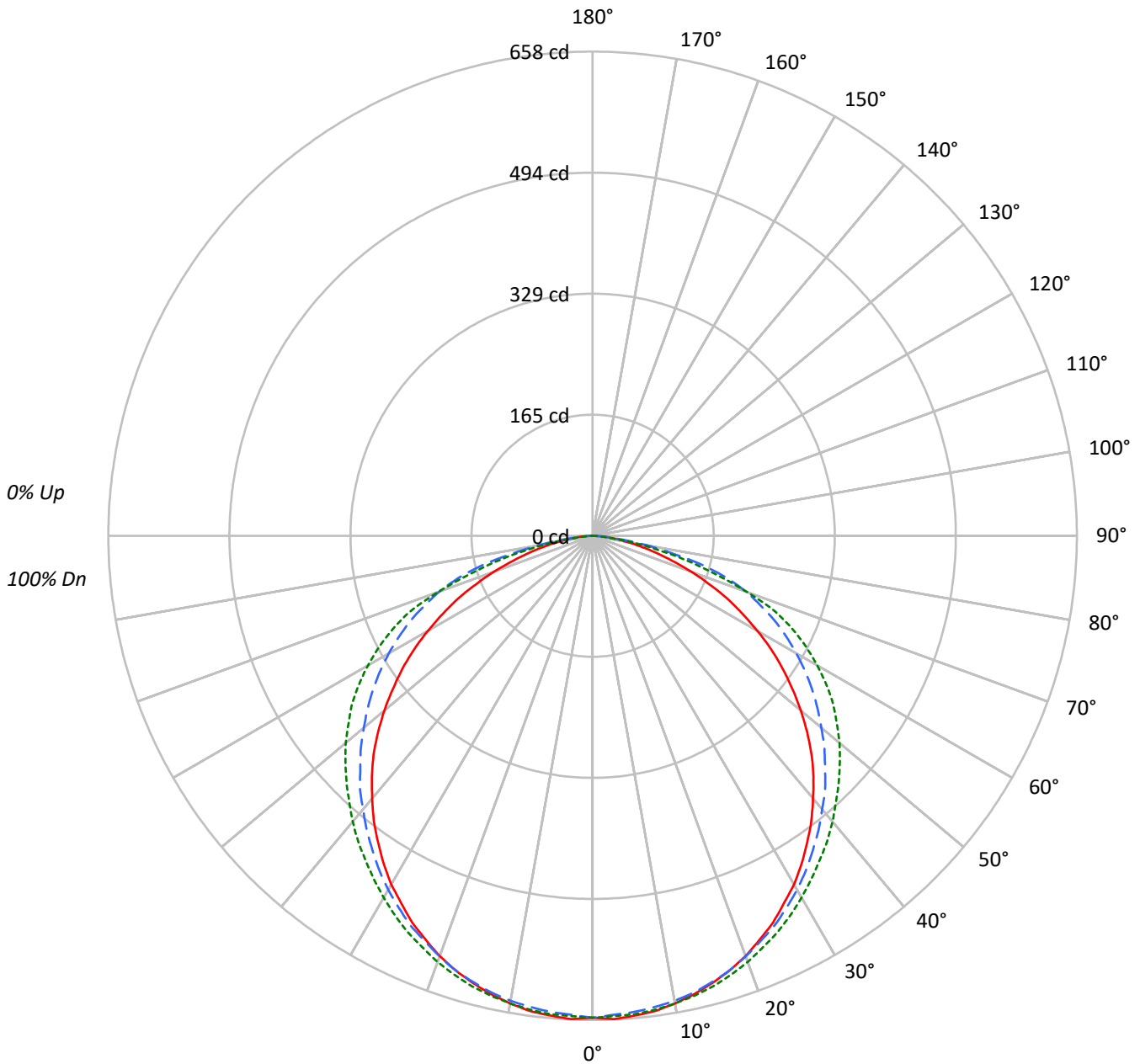
Lumens per Lamp: N/A
Luminaire Lumens: 1929.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732704

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CP250-4000K

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°	1849	1849	1849
5°	1855	1841	1849
10°	1850	1840	1850
15°	1838	1835	1852
20°	1825	1828	1851
25°	1806	1821	1851
30°	1783	1811	1850
35°	1752	1797	1854
40°	1717	1788	1868
45°	1680	1782	1889
50°	1622	1782	1923
55°	1553	1791	1964
60°	1459	1804	1990
65°	1345	1823	2001
70°	1172	1827	1842
75°	966	1701	1489
80°	759	1222	995
85°	593	473	233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.2
10°-20°	178.0	9.2
20°-30°	270.2	14.0
30°-40°	327.5	17.0
40°-50°	345.1	17.9
50°-60°	322.2	16.7
60°-70°	257.4	13.3
70°-80°	141.7	7.3
80°-90°	25.0	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°	510.2	26.4
0°-40°	837.7	43.4
0°-60°	1504.9	78.0
0°-90°	1929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	655	653	650	654	653	62
15°	629	629	628	634	634	178
25°	580	581	585	593	594	267
35°	508	513	522	535	538	318
45°	421	429	446	466	473	324
55°	316	331	364	390	399	282
65°	201	227	273	295	300	198
75°	89	127	156	140	136	95
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°	655.0	655.0	655.0	655.0	655.0
2.5°	657.5	655.6	651.5	655.0	653.3
5°	654.6	652.7	649.6	653.9	652.7
7.5°	651.5	649.0	646.0	650.9	649.6
10°	645.3	643.5	641.8	646.0	645.3
12.5°	638.1	637.5	635.7	640.6	640.0
15°	629.1	629.1	627.8	633.8	633.8
17.5°	619.3	618.6	619.3	626.0	625.4
20°	607.7	607.7	608.4	616.3	616.3
22.5°	593.8	594.4	596.2	605.9	605.3
25°	580.0	581.0	584.7	593.2	594.4
27.5°	562.9	566.0	570.1	580.4	581.6
30°	547.1	548.9	555.5	565.4	567.7
32.5°	528.4	531.9	539.3	550.2	553.2
35°	508.3	513.2	521.6	535.0	538.0
37.5°	488.3	492.6	504.1	517.9	523.5
40°	465.9	473.1	485.2	501.1	507.0
42.5°	443.9	451.3	467.7	484.0	489.5
45°	420.9	428.9	446.4	466.5	473.1
47.5°	395.4	404.6	427.1	448.2	455.5
50°	369.3	380.9	405.7	429.5	438.0
52.5°	342.2	356.6	385.2	410.0	418.0
55°	315.5	331.1	364.0	389.5	399.1
57.5°	288.1	305.2	342.2	371.2	376.7
60°	258.4	279.1	319.6	345.1	352.5
62.5°	229.3	253.0	296.6	320.8	327.0
65°	201.4	226.9	272.9	295.4	299.6
67.5°	171.0	201.4	246.8	267.6	268.6
70°	142.0	177.1	221.4	231.0	223.2
72.5°	113.4	151.1	191.7	183.7	177.1
75°	88.6	126.8	156.0	140.2	136.5
77.5°	65.5	103.8	111.6	103.2	96.4
80°	46.7	81.8	75.2	64.3	61.2
82.5°	32.1	51.6	41.3	32.1	27.9
85°	18.3	23.0	14.6	9.1	7.2
87.5°	7.8	5.5	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)