

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: P732716

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-RDP-B2750-W2D-CA125-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

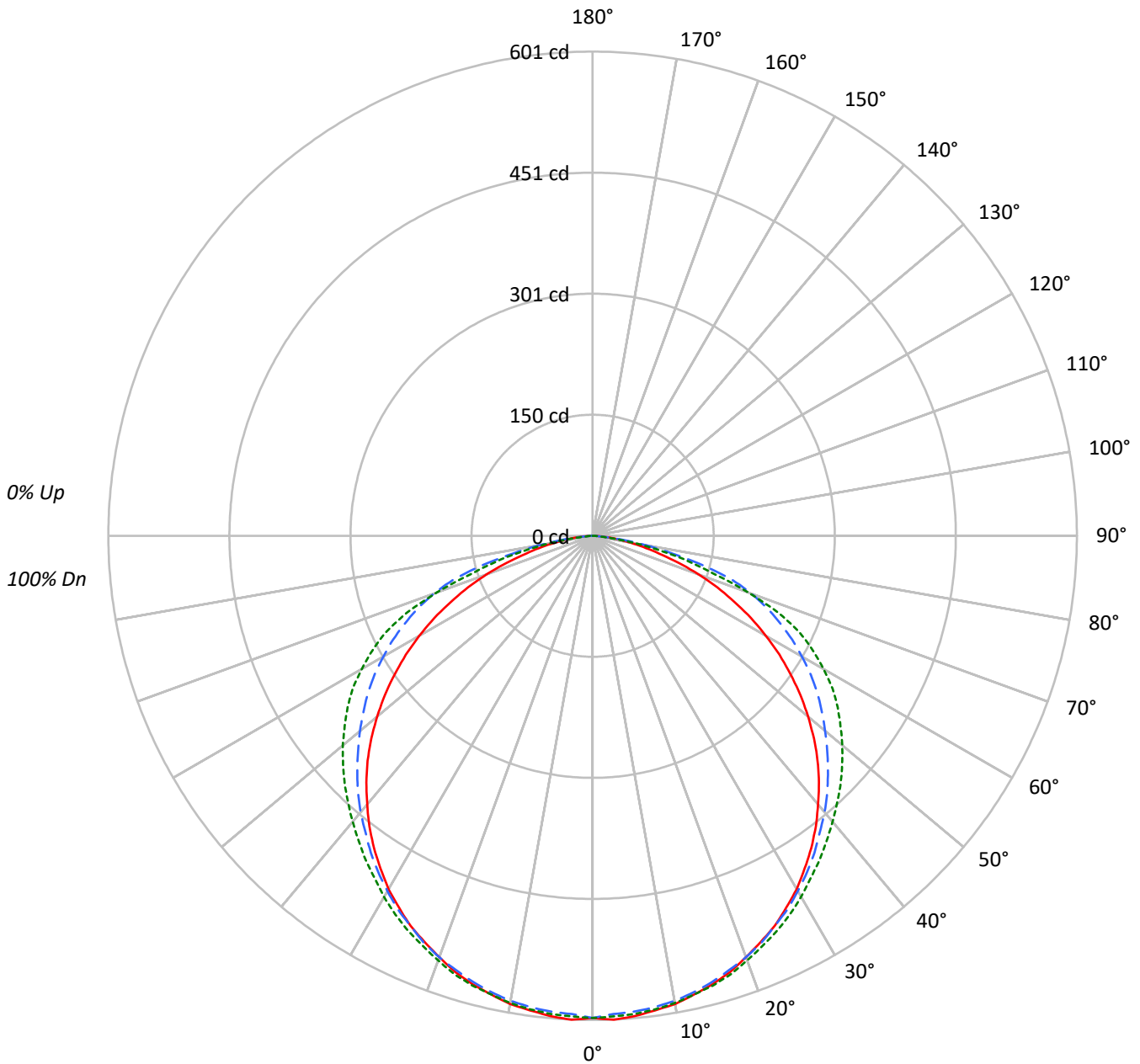
Lumens per Lamp: N/A
Luminaire Lumens: 1787.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732716

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P732716

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-2700K

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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1689	1689	1689
5°	1696	1680	1688
10°	1691	1680	1688
15°	1684	1676	1688
20°	1672	1672	1685
25°	1664	1664	1686
30°	1651	1660	1687
35°	1630	1654	1692
40°	1604	1650	1707
45°	1576	1649	1737
50°	1532	1654	1777
55°	1476	1676	1826
60°	1402	1693	1867
65°	1295	1715	1892
70°	1151	1727	1692
75°	929	1552	1353
80°	725	1089	884
85°	499	314	227



TEST NUMBER: P732716

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	3.2
10°-20°	162.5	9.1
20°-30°	247.5	13.8
30°-40°	301.5	16.9
40°-50°	319.8	17.9
50°-60°	301.8	16.9
60°-70°	243.7	13.6
70°-80°	132.2	7.4
80°-90°	21.4	1.2
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°	466.7	26.1
0°-40°	768.1	43.0
0°-60°	1389.7	77.8
0°-90°	1787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	597	593	597	596	57
15°	576	575	573	578	578	163
25°	534	533	534	540	541	246
35°	473	476	480	490	491	296
45°	395	400	413	428	435	304
55°	300	312	340	363	371	268
65°	194	218	257	278	283	192
75°	85	124	142	128	124	93
85°	15	17	10	8	7	20
90°	0	0	0	0	0	



TEST NUMBER: P732716

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.5	598.5	598.5	598.5	598.5
2.5°	601.3	598.5	594.2	598.5	597.1
5°	598.5	597.1	592.9	597.1	595.8
7.5°	594.2	594.2	590.1	592.9	592.9
10°	590.1	588.8	586.0	590.1	588.8
12.5°	583.1	581.8	580.4	584.5	583.1
15°	576.1	574.7	573.4	577.7	577.7
17.5°	567.7	566.4	565.0	570.6	570.6
20°	556.6	556.6	556.6	562.3	560.9
22.5°	545.5	545.5	546.9	552.5	551.1
25°	534.4	533.0	534.4	539.9	541.2
27.5°	520.4	521.7	523.1	528.7	530.1
30°	506.5	507.9	509.3	516.3	517.6
32.5°	489.8	492.5	495.2	503.6	503.6
35°	473.0	475.7	480.0	489.8	491.1
37.5°	454.9	457.6	463.3	474.4	477.1
40°	435.2	439.5	447.9	459.0	463.3
42.5°	415.7	421.4	431.1	443.6	449.2
45°	394.9	400.3	413.0	428.4	435.2
47.5°	372.4	379.5	394.9	414.3	420.0
50°	348.9	358.6	376.7	397.6	404.6
52.5°	325.1	336.2	358.6	380.8	387.8
55°	299.9	312.4	340.5	362.7	371.1
57.5°	274.8	288.8	320.8	344.6	353.0
60°	248.3	265.1	299.9	323.7	330.7
62.5°	221.8	241.3	279.1	302.7	308.3
65°	193.9	217.7	256.7	277.7	283.2
67.5°	167.4	195.3	234.4	249.7	249.7
70°	139.5	170.1	209.3	213.4	205.0
72.5°	111.7	146.6	181.4	166.0	159.0
75°	85.2	124.1	142.3	128.4	124.1
77.5°	64.1	100.4	100.4	92.0	89.3
80°	44.6	76.8	67.0	58.7	54.4
82.5°	29.2	43.3	34.9	27.9	23.8
85°	15.4	16.8	9.7	8.4	7.0
87.5°	5.6	2.7	1.4	2.7	1.4
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)