

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: P732717

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732717
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-CA125-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

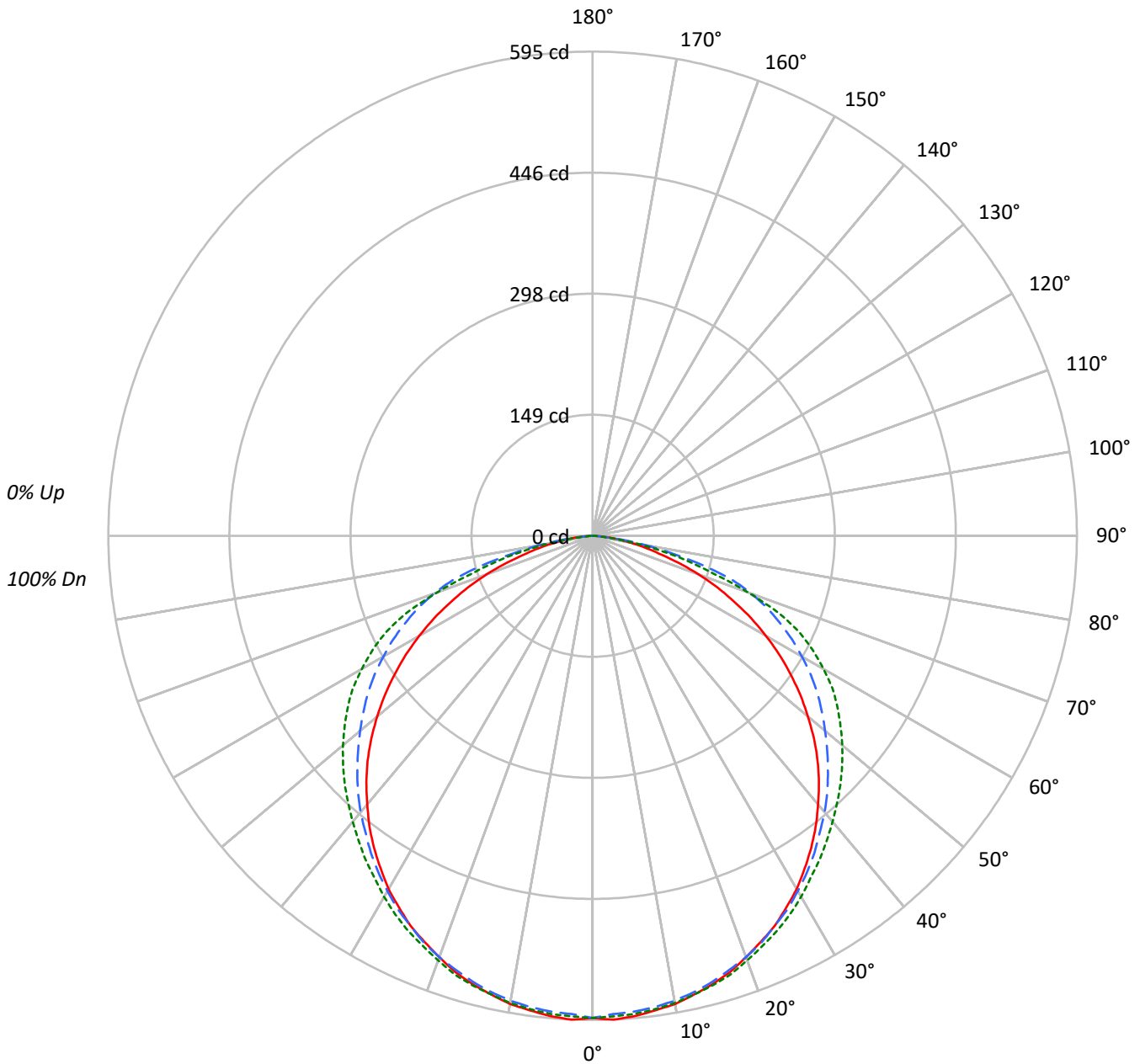
Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	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°	1672	1672	1672
5°	1679	1663	1671
10°	1674	1663	1670
15°	1667	1659	1671
20°	1655	1655	1668
25°	1648	1648	1669
30°	1634	1643	1670
35°	1613	1637	1675
40°	1587	1634	1690
45°	1560	1632	1720
50°	1516	1638	1759
55°	1461	1658	1808
60°	1388	1676	1848
65°	1282	1697	1872
70°	1140	1710	1675
75°	919	1536	1340
80°	718	1079	875
85°	492	311	223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.2
10°-20°	160.9	9.1
20°-30°	245.0	13.8
30°-40°	298.4	16.9
40°-50°	316.6	17.9
50°-60°	298.8	16.9
60°-70°	241.2	13.6
70°-80°	130.9	7.4
80°-90°	21.2	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°	462.0	26.1
0°-40°	760.4	43.0
0°-60°	1375.7	77.8
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	592	591	587	591	590	56
15°	570	569	568	572	572	161
25°	529	528	529	534	536	244
35°	468	471	475	485	486	293
45°	391	396	409	424	431	301
55°	297	309	337	359	367	265
65°	192	216	254	275	280	190
75°	84	123	141	127	123	92
85°	15	17	10	8	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.5	592.5	592.5	592.5	592.5
2.5°	595.2	592.5	588.3	592.5	591.1
5°	592.5	591.1	586.9	591.1	589.8
7.5°	588.3	588.3	584.2	586.9	586.9
10°	584.2	582.8	580.1	584.2	582.8
12.5°	577.3	575.9	574.5	578.6	577.3
15°	570.3	569.0	567.6	571.8	571.8
17.5°	562.0	560.7	559.3	564.9	564.9
20°	551.0	551.0	551.0	556.6	555.2
22.5°	540.0	540.0	541.4	547.0	545.6
25°	529.0	527.7	529.0	534.4	535.8
27.5°	515.1	516.5	517.8	523.4	524.8
30°	501.4	502.8	504.1	511.1	512.4
32.5°	484.8	487.5	490.2	498.5	498.5
35°	468.2	470.9	475.2	484.8	486.2
37.5°	450.3	453.0	458.6	469.6	472.3
40°	430.8	435.1	443.4	454.4	458.6
42.5°	411.5	417.1	426.8	439.1	444.7
45°	390.9	396.3	408.8	424.1	430.8
47.5°	368.7	375.6	390.9	410.2	415.8
50°	345.3	355.0	372.9	393.6	400.5
52.5°	321.8	332.8	355.0	377.0	383.9
55°	296.9	309.3	337.0	359.0	367.3
57.5°	272.0	285.9	317.6	341.1	349.4
60°	245.8	262.4	296.9	320.5	327.4
62.5°	219.6	238.9	276.3	299.6	305.2
65°	192.0	215.5	254.1	274.9	280.3
67.5°	165.7	193.3	232.1	247.2	247.2
70°	138.1	168.4	207.2	211.3	203.0
72.5°	110.5	145.1	179.6	164.4	157.4
75°	84.3	122.9	140.8	127.1	122.9
77.5°	63.5	99.4	99.4	91.1	88.4
80°	44.2	76.0	66.4	58.1	53.8
82.5°	28.9	42.8	34.5	27.6	23.5
85°	15.2	16.6	9.6	8.3	6.9
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)