

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: P732719

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732719
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-CA125-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

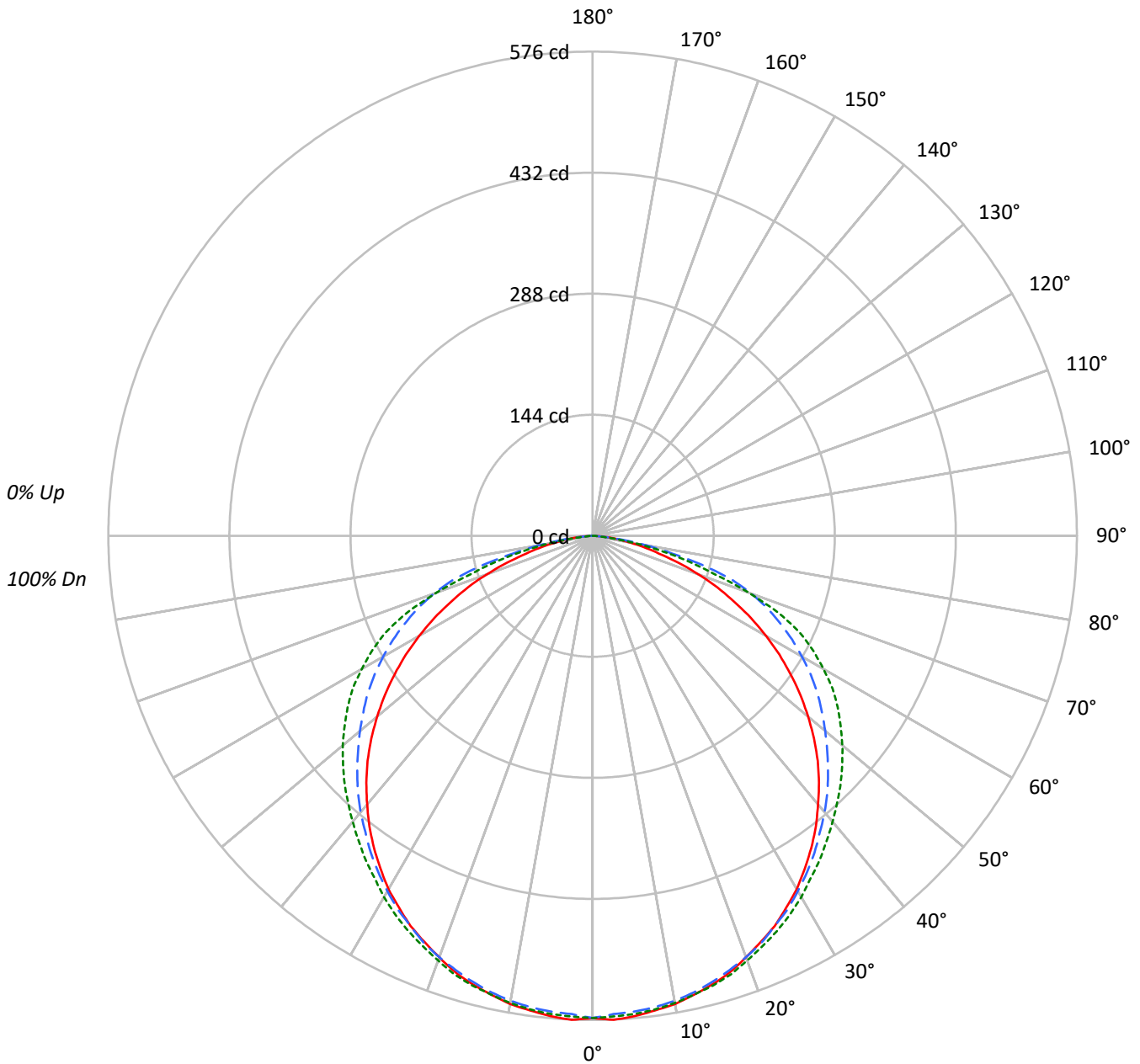
Lumens per Lamp: N/A
Luminaire Lumens: 1713.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1619	1619	1619
5°	1626	1610	1618
10°	1621	1610	1618
15°	1614	1606	1618
20°	1603	1603	1615
25°	1596	1596	1616
30°	1582	1591	1617
35°	1562	1585	1622
40°	1537	1582	1636
45°	1511	1580	1665
50°	1468	1586	1703
55°	1415	1606	1750
60°	1344	1623	1790
65°	1242	1643	1813
70°	1104	1656	1622
75°	890	1488	1298
80°	696	1045	847
85°	479	301	217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.2
10°-20°	155.8	9.1
20°-30°	237.2	13.8
30°-40°	289.0	16.9
40°-50°	306.6	17.9
50°-60°	289.3	16.9
60°-70°	233.6	13.6
70°-80°	126.7	7.4
80°-90°	20.5	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°	447.3	26.1
0°-40°	736.3	43.0
0°-60°	1332.2	77.8
0°-90°	1713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	574	572	568	572	571	54
15°	552	551	550	554	554	156
25°	512	511	512	518	519	236
35°	453	456	460	470	471	283
45°	378	384	396	411	417	291
55°	288	300	326	348	356	257
65°	186	209	246	266	272	184
75°	82	119	136	123	119	89
85°	15	16	9	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.7	573.7	573.7	573.7	573.7
2.5°	576.4	573.7	569.6	573.7	572.4
5°	573.7	572.4	568.3	572.4	571.1
7.5°	569.6	569.6	565.7	568.3	568.3
10°	565.7	564.4	561.8	565.7	564.4
12.5°	559.0	557.7	556.4	560.3	559.0
15°	552.3	550.9	549.6	553.7	553.7
17.5°	544.2	542.9	541.6	547.0	547.0
20°	533.6	533.6	533.6	539.0	537.7
22.5°	522.9	522.9	524.2	529.6	528.3
25°	512.3	510.9	512.3	517.5	518.8
27.5°	498.8	500.1	501.4	506.9	508.2
30°	485.5	486.9	488.2	494.9	496.2
32.5°	469.5	472.1	474.7	482.8	482.8
35°	453.4	456.0	460.1	469.5	470.8
37.5°	436.0	438.7	444.1	454.7	457.3
40°	417.2	421.3	429.3	440.0	444.1
42.5°	398.5	403.9	413.3	425.2	430.6
45°	378.5	383.7	395.9	410.6	417.2
47.5°	357.0	363.7	378.5	397.2	402.6
50°	334.4	343.7	361.1	381.1	387.8
52.5°	311.6	322.3	343.7	365.1	371.8
55°	287.5	299.5	326.4	347.7	355.7
57.5°	263.4	276.9	307.5	330.3	338.3
60°	238.0	254.1	287.5	310.3	317.0
62.5°	212.6	231.3	267.5	290.1	295.6
65°	185.9	208.7	246.0	266.2	271.5
67.5°	160.5	187.2	224.7	239.3	239.3
70°	133.8	163.1	200.6	204.6	196.5
72.5°	107.0	140.5	173.9	159.2	152.4
75°	81.6	119.0	136.4	123.1	119.0
77.5°	61.5	96.2	96.2	88.2	85.6
80°	42.8	73.6	64.3	56.2	52.1
82.5°	28.0	41.5	33.4	26.7	22.8
85°	14.8	16.1	9.3	8.0	6.7
87.5°	5.4	2.6	1.3	2.6	1.3
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)