

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: P732720

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732720
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-CA125-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

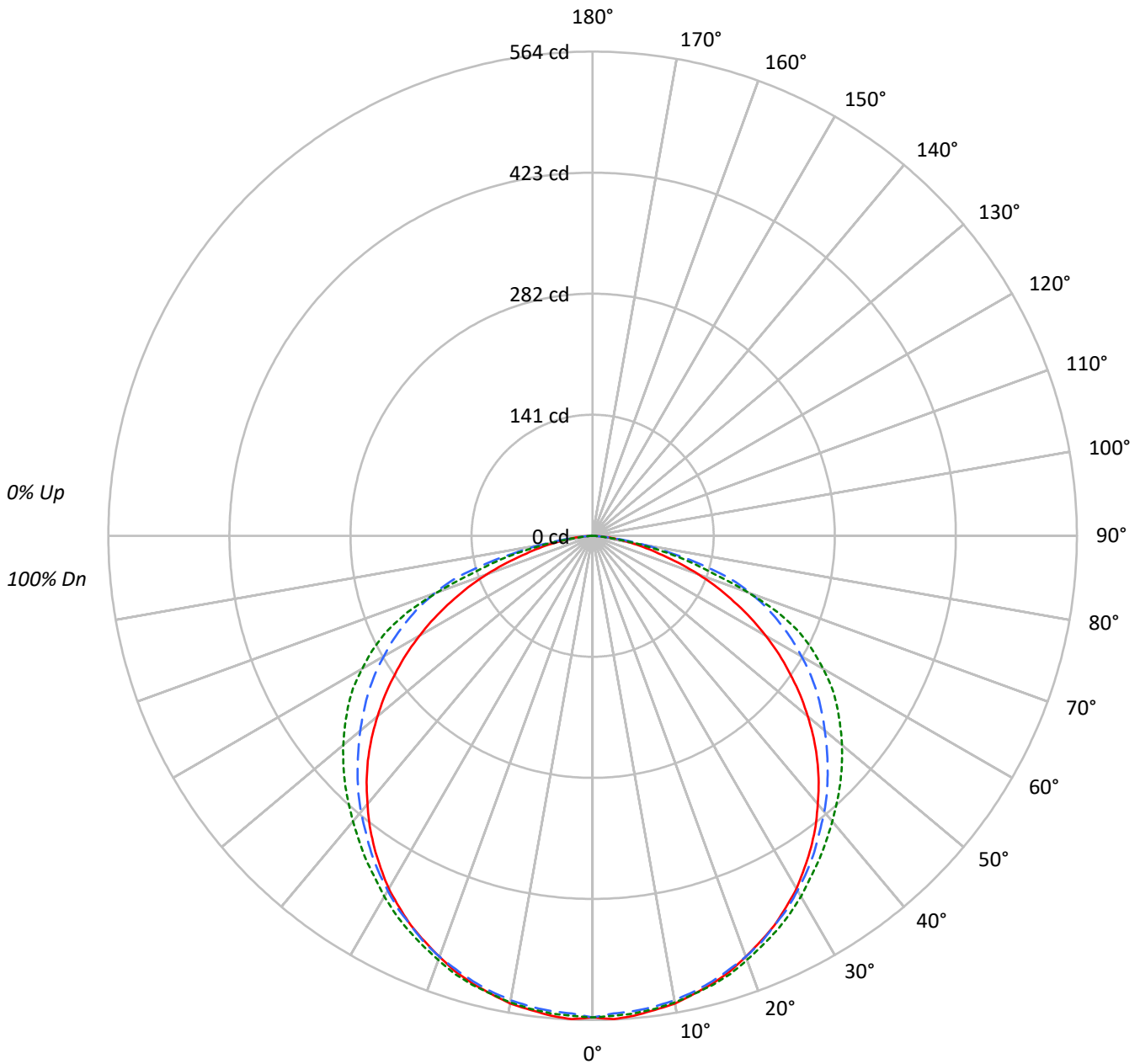
Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1584	1584	1584
5°	1590	1575	1582
10°	1586	1574	1582
15°	1578	1570	1582
20°	1567	1567	1579
25°	1560	1560	1580
30°	1548	1556	1581
35°	1528	1550	1586
40°	1503	1547	1600
45°	1477	1545	1628
50°	1436	1551	1665
55°	1383	1570	1712
60°	1314	1587	1750
65°	1214	1607	1773
70°	1079	1619	1586
75°	870	1455	1269
80°	679	1021	829
85°	466	295	214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.2
10°-20°	152.3	9.1
20°-30°	232.0	13.8
30°-40°	282.5	16.9
40°-50°	299.8	17.9
50°-60°	282.9	16.9
60°-70°	228.4	13.6
70°-80°	123.9	7.4
80°-90°	20.1	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°	437.4	26.1
0°-40°	720.0	43.0
0°-60°	1302.6	77.8
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	561	560	556	560	558	53
15°	540	539	537	542	542	152
25°	501	500	501	506	507	231
35°	443	446	450	459	460	277
45°	370	375	387	402	408	285
55°	281	293	319	340	348	251
65°	182	204	241	260	265	180
75°	80	116	133	120	116	87
85°	14	16	9	8	7	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.0	561.0	561.0	561.0	561.0
2.5°	563.6	561.0	557.0	561.0	559.7
5°	561.0	559.7	555.7	559.7	558.4
7.5°	557.0	557.0	553.2	555.7	555.7
10°	553.2	551.9	549.3	553.2	551.9
12.5°	546.6	545.3	544.0	547.9	546.6
15°	540.0	538.7	537.4	541.5	541.5
17.5°	532.2	530.9	529.6	534.9	534.9
20°	521.7	521.7	521.7	527.0	525.7
22.5°	511.3	511.3	512.6	517.9	516.6
25°	500.9	499.6	500.9	506.0	507.3
27.5°	487.8	489.0	490.3	495.6	496.9
30°	474.8	476.1	477.3	483.9	485.2
32.5°	459.1	461.6	464.2	472.0	472.0
35°	443.4	445.9	449.9	459.1	460.3
37.5°	426.4	428.9	434.2	444.6	447.2
40°	407.9	411.9	419.8	430.2	434.2
42.5°	389.7	394.9	404.1	415.8	421.1
45°	370.1	375.2	387.1	401.5	407.9
47.5°	349.1	355.7	370.1	388.4	393.7
50°	327.0	336.1	353.1	372.7	379.2
52.5°	304.7	315.1	336.1	357.0	363.5
55°	281.1	292.8	319.1	340.0	347.8
57.5°	257.6	270.7	300.7	323.0	330.8
60°	232.7	248.4	281.1	303.4	310.0
62.5°	207.9	226.2	261.6	283.7	289.0
65°	181.8	204.0	240.6	260.3	265.4
67.5°	156.9	183.0	219.8	234.0	234.0
70°	130.8	159.5	196.2	200.0	192.2
72.5°	104.7	137.4	170.1	155.6	149.1
75°	79.8	116.4	133.4	120.4	116.4
77.5°	60.1	94.1	94.1	86.2	83.7
80°	41.8	72.0	62.8	55.0	51.0
82.5°	27.4	40.6	32.7	26.1	22.3
85°	14.4	15.7	9.1	7.9	6.6
87.5°	5.3	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)