

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: P732712

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732712
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-CA08-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

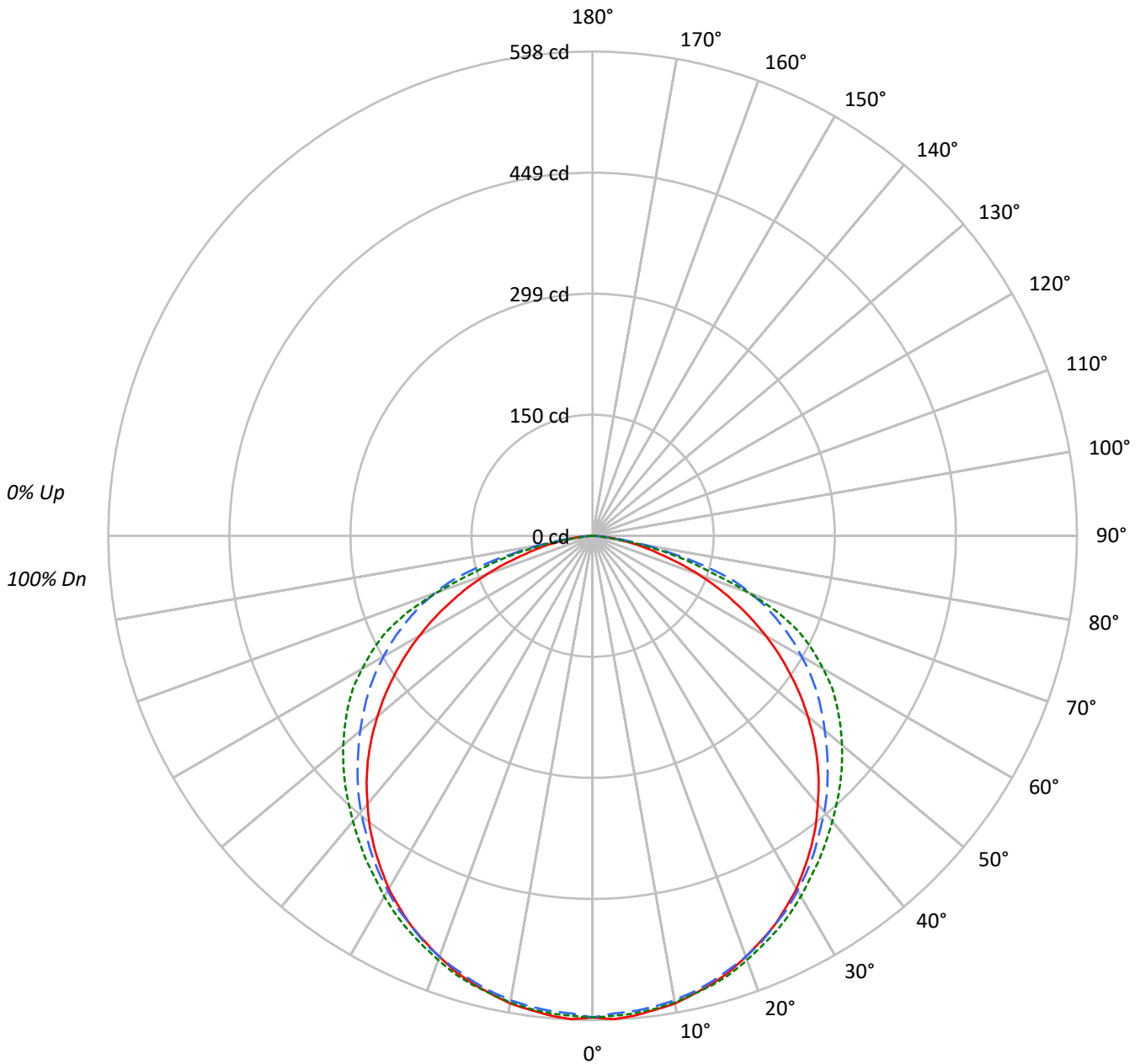
Lumens per Lamp: N/A
Luminaire Lumens: 1776.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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°	1679	1679	1679
5°	1685	1669	1678
10°	1681	1669	1677
15°	1673	1665	1678
20°	1662	1662	1674
25°	1654	1654	1675
30°	1641	1650	1677
35°	1620	1644	1682
40°	1594	1640	1696
45°	1566	1638	1726
50°	1522	1644	1766
55°	1467	1665	1815
60°	1393	1683	1856
65°	1287	1704	1879
70°	1145	1717	1682
75°	923	1542	1346
80°	722	1083	878
85°	496	314	227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	3.2
10°-20°	161.5	9.1
20°-30°	246.0	13.8
30°-40°	299.6	16.9
40°-50°	317.8	17.9
50°-60°	300.0	16.9
60°-70°	242.2	13.6
70°-80°	131.4	7.4
80°-90°	21.3	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°	463.8	26.1
0°-40°	763.4	43.0
0°-60°	1381.2	77.8
0°-90°	1776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	595	594	589	594	592	56
15°	573	571	570	574	574	162
25°	531	530	531	536	538	244
35°	470	473	477	487	488	294
45°	392	398	410	426	432	302
55°	298	310	338	360	369	266
65°	193	216	255	276	281	191
75°	85	123	141	128	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°	594.8	594.8	594.8	594.8	594.8
2.5°	597.6	594.8	590.6	594.8	593.5
5°	594.8	593.5	589.2	593.5	592.1
7.5°	590.6	590.6	586.5	589.2	589.2
10°	586.5	585.1	582.4	586.5	585.1
12.5°	579.5	578.2	576.8	580.9	579.5
15°	572.6	571.2	569.8	574.1	574.1
17.5°	564.2	562.9	561.5	567.1	567.1
20°	553.2	553.2	553.2	558.8	557.4
22.5°	542.1	542.1	543.5	549.1	547.8
25°	531.1	529.7	531.1	536.5	537.9
27.5°	517.2	518.5	519.9	525.5	526.9
30°	503.4	504.8	506.1	513.1	514.4
32.5°	486.7	489.5	492.2	500.5	500.5
35°	470.1	472.8	477.1	486.7	488.1
37.5°	452.1	454.8	460.4	471.4	474.2
40°	432.5	436.8	445.1	456.2	460.4
42.5°	413.2	418.8	428.4	440.9	446.5
45°	392.4	397.9	410.4	425.7	432.5
47.5°	370.2	377.1	392.4	411.8	417.4
50°	346.7	356.4	374.4	395.1	402.1
52.5°	323.1	334.1	356.4	378.5	385.5
55°	298.1	310.5	338.4	360.5	368.8
57.5°	273.1	287.0	318.8	342.5	350.8
60°	246.8	263.4	298.1	321.7	328.7
62.5°	220.4	239.8	277.4	300.8	306.4
65°	192.7	216.3	255.1	276.0	281.4
67.5°	166.4	194.1	233.0	248.1	248.1
70°	138.7	169.1	208.0	212.1	203.8
72.5°	111.0	145.6	180.3	165.0	158.1
75°	84.6	123.4	141.4	127.6	123.4
77.5°	63.7	99.8	99.8	91.4	88.7
80°	44.4	76.3	66.6	58.3	54.0
82.5°	29.1	43.0	34.7	27.7	23.6
85°	15.3	16.7	9.7	8.3	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)