

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: P732725

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732725
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-CP187-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

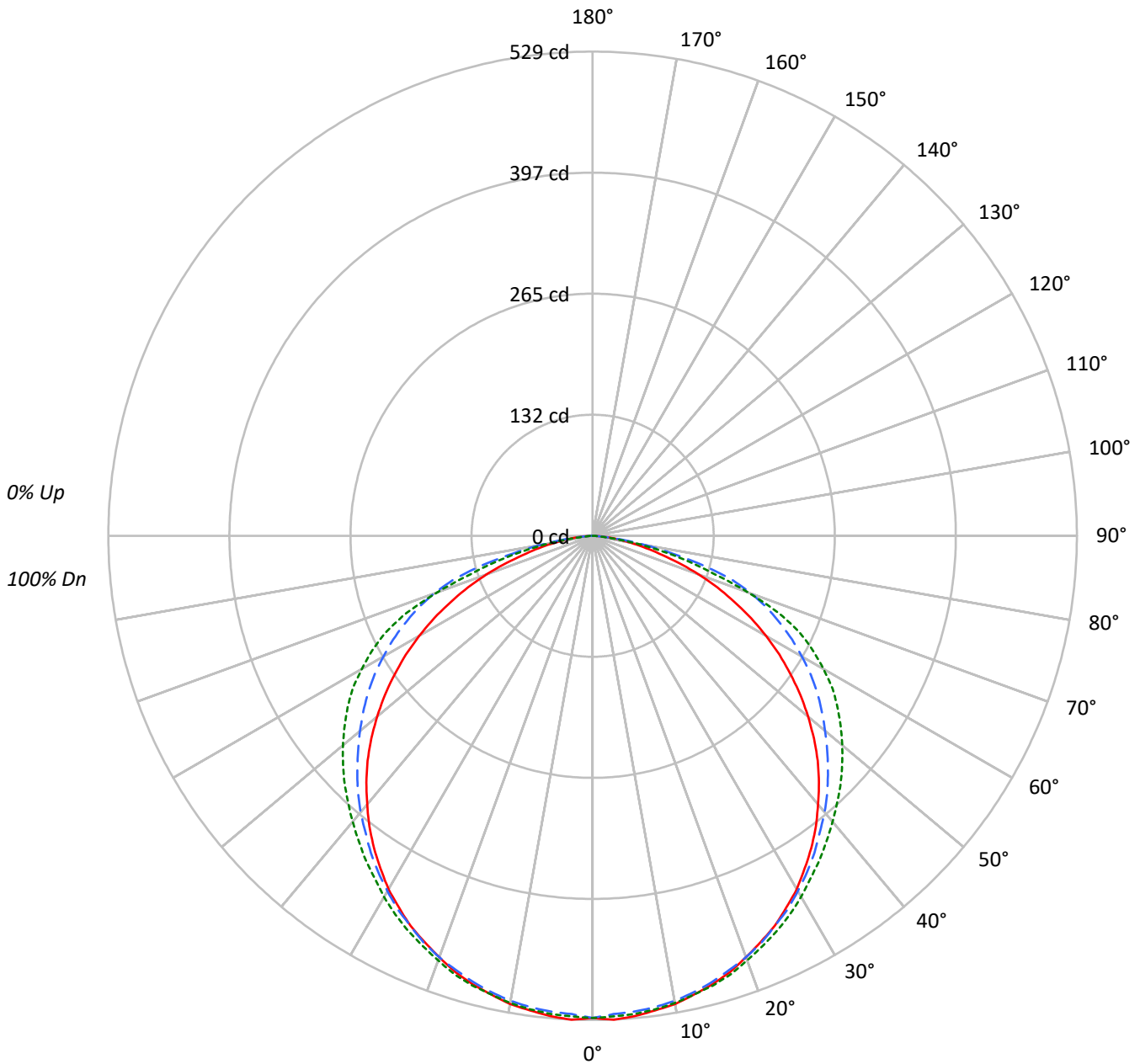
Lumens per Lamp: N/A
Luminaire Lumens: 1573.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1487	1487	1487
5°	1493	1479	1486
10°	1489	1479	1486
15°	1482	1475	1486
20°	1472	1472	1483
25°	1465	1465	1484
30°	1453	1461	1485
35°	1435	1456	1490
40°	1412	1453	1503
45°	1388	1451	1529
50°	1349	1456	1564
55°	1299	1475	1607
60°	1234	1490	1643
65°	1140	1509	1665
70°	1013	1520	1490
75°	818	1365	1192
80°	639	959	779
85°	437	279	201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.2
10°-20°	143.1	9.1
20°-30°	217.9	13.8
30°-40°	265.3	16.9
40°-50°	281.5	17.9
50°-60°	265.7	16.9
60°-70°	214.5	13.6
70°-80°	116.4	7.4
80°-90°	18.8	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°	410.8	26.1
0°-40°	676.1	43.0
0°-60°	1223.3	77.8
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	527	526	522	526	524	50
15°	507	506	505	508	508	143
25°	470	469	470	475	476	217
35°	416	419	422	431	432	260
45°	348	352	364	377	383	268
55°	264	275	300	319	327	236
65°	171	192	226	244	249	169
75°	75	109	125	113	109	82
85°	14	15	9	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.8	526.8	526.8	526.8	526.8
2.5°	529.3	526.8	523.1	526.8	525.6
5°	526.8	525.6	521.9	525.6	524.4
7.5°	523.1	523.1	519.5	521.9	521.9
10°	519.5	518.3	515.9	519.5	518.3
12.5°	513.3	512.1	510.9	514.5	513.3
15°	507.1	505.9	504.7	508.5	508.5
17.5°	499.7	498.5	497.3	502.3	502.3
20°	490.0	490.0	490.0	494.9	493.7
22.5°	480.2	480.2	481.4	486.4	485.1
25°	470.4	469.2	470.4	475.2	476.4
27.5°	458.1	459.3	460.5	465.4	466.6
30°	445.9	447.1	448.3	454.4	455.6
32.5°	431.1	433.5	435.9	443.3	443.3
35°	416.4	418.8	422.5	431.1	432.3
37.5°	400.4	402.8	407.8	417.6	420.0
40°	383.1	386.9	394.2	404.0	407.8
42.5°	365.9	370.9	379.5	390.5	395.4
45°	347.6	352.4	363.5	377.1	383.1
47.5°	327.8	334.0	347.6	364.7	369.7
50°	307.1	315.7	331.6	350.0	356.1
52.5°	286.2	295.9	315.7	335.2	341.4
55°	264.0	275.0	299.7	319.3	326.6
57.5°	241.9	254.2	282.4	303.3	310.7
60°	218.6	233.3	264.0	284.9	291.1
62.5°	195.2	212.4	245.7	266.4	271.4
65°	170.7	191.6	225.9	244.5	249.3
67.5°	147.4	171.9	206.4	219.8	219.8
70°	122.8	149.8	184.2	187.9	180.5
72.5°	98.3	129.0	159.7	146.2	140.0
75°	75.0	109.3	125.2	113.0	109.3
77.5°	56.4	88.4	88.4	81.0	78.6
80°	39.3	67.6	59.0	51.6	47.9
82.5°	25.7	38.1	30.7	24.5	20.9
85°	13.5	14.8	8.6	7.4	6.2
87.5°	5.0	2.4	1.2	2.4	1.2
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)