

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: P732721

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732721
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-CP187-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

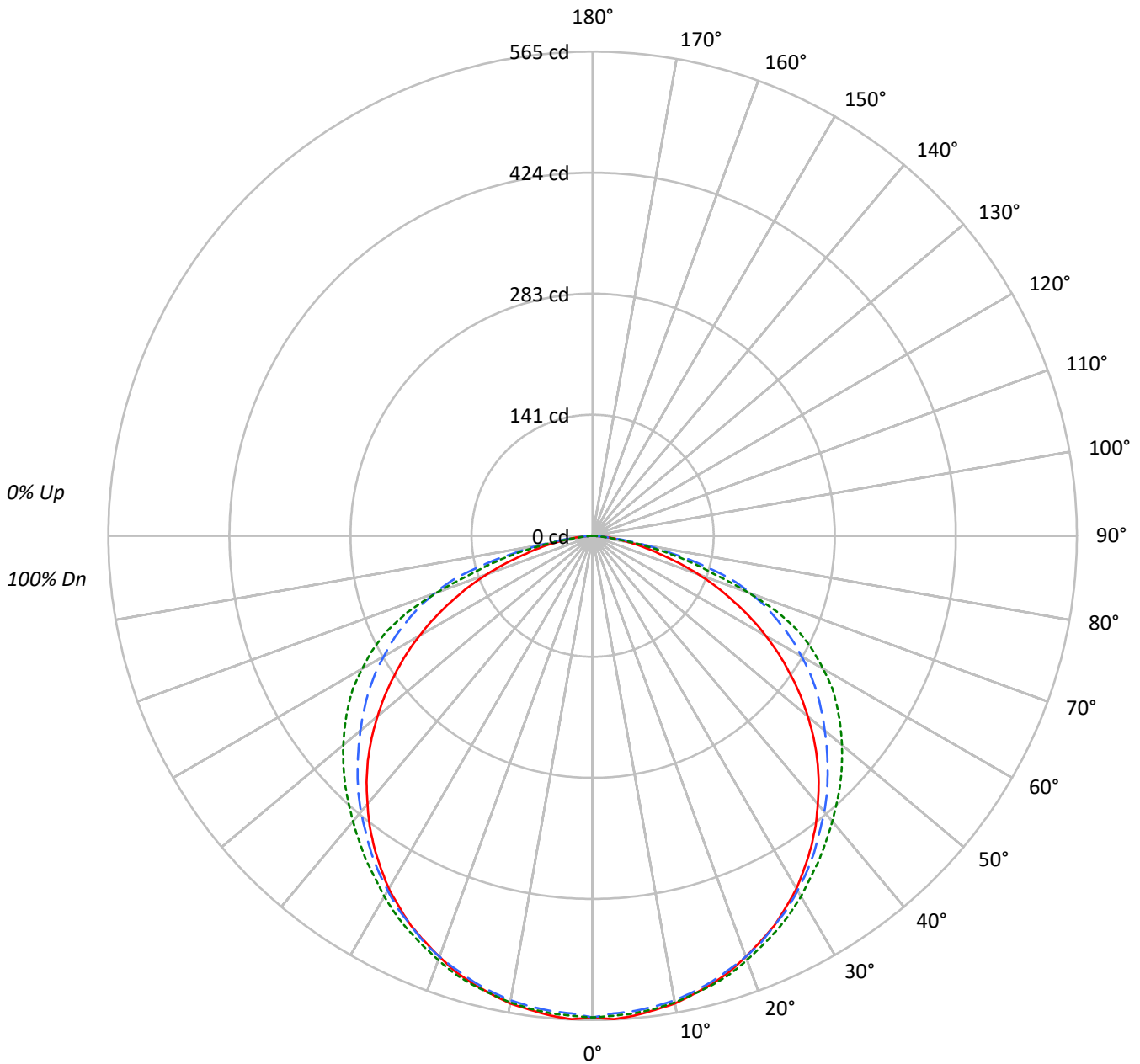
Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	1586	1586	1586
5°	1592	1577	1585
10°	1588	1577	1585
15°	1581	1573	1585
20°	1570	1570	1582
25°	1563	1563	1583
30°	1550	1559	1584
35°	1530	1553	1589
40°	1506	1549	1603
45°	1480	1548	1631
50°	1439	1553	1668
55°	1386	1573	1715
60°	1316	1590	1753
65°	1216	1610	1776
70°	1081	1622	1589
75°	872	1457	1272
80°	681	1022	831
85°	470	298	214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.2
10°-20°	152.6	9.1
20°-30°	232.4	13.8
30°-40°	283.1	16.9
40°-50°	300.3	17.9
50°-60°	283.4	16.9
60°-70°	228.8	13.6
70°-80°	124.1	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°	438.2	26.1
0°-40°	721.3	43.0
0°-60°	1305.0	77.8
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	561	557	561	559	53
15°	541	540	538	542	542	153
25°	502	500	502	507	508	231
35°	444	447	451	460	461	278
45°	371	376	388	402	409	286
55°	282	293	320	341	348	252
65°	182	204	241	261	266	180
75°	80	117	134	121	117	87
85°	14	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°	562.0	562.0	562.0	562.0	562.0
2.5°	564.6	562.0	558.0	562.0	560.7
5°	562.0	560.7	556.7	560.7	559.4
7.5°	558.0	558.0	554.1	556.7	556.7
10°	554.1	552.9	550.3	554.1	552.9
12.5°	547.6	546.3	545.0	548.8	547.6
15°	541.0	539.7	538.4	542.4	542.4
17.5°	533.1	531.8	530.5	535.8	535.8
20°	522.7	522.7	522.7	528.0	526.7
22.5°	512.2	512.2	513.5	518.8	517.5
25°	501.8	500.5	501.8	506.9	508.2
27.5°	488.6	489.9	491.2	496.5	497.8
30°	475.6	476.9	478.2	484.8	486.1
32.5°	459.9	462.5	465.0	472.9	472.9
35°	444.1	446.7	450.7	459.9	461.2
37.5°	427.1	429.7	435.0	445.4	448.0
40°	408.7	412.7	420.5	431.0	435.0
42.5°	390.4	395.7	404.8	416.5	421.8
45°	370.8	375.9	387.8	402.2	408.7
47.5°	349.7	356.3	370.8	389.1	394.4
50°	327.6	336.7	353.7	373.3	379.9
52.5°	305.3	315.7	336.7	357.6	364.2
55°	281.6	293.4	319.7	340.6	348.4
57.5°	258.0	271.2	301.2	323.6	331.4
60°	233.2	248.9	281.6	304.0	310.6
62.5°	208.3	226.6	262.1	284.2	289.5
65°	182.1	204.4	241.0	260.8	265.9
67.5°	157.2	183.4	220.1	234.4	234.4
70°	131.0	159.8	196.5	200.4	192.5
72.5°	104.9	137.6	170.4	155.9	149.3
75°	80.0	116.6	133.6	120.6	116.6
77.5°	60.2	94.3	94.3	86.4	83.8
80°	41.9	72.1	62.9	55.1	51.1
82.5°	27.5	40.6	32.8	26.2	22.3
85°	14.5	15.7	9.2	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)