

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: P732723

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732723
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-CP187-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

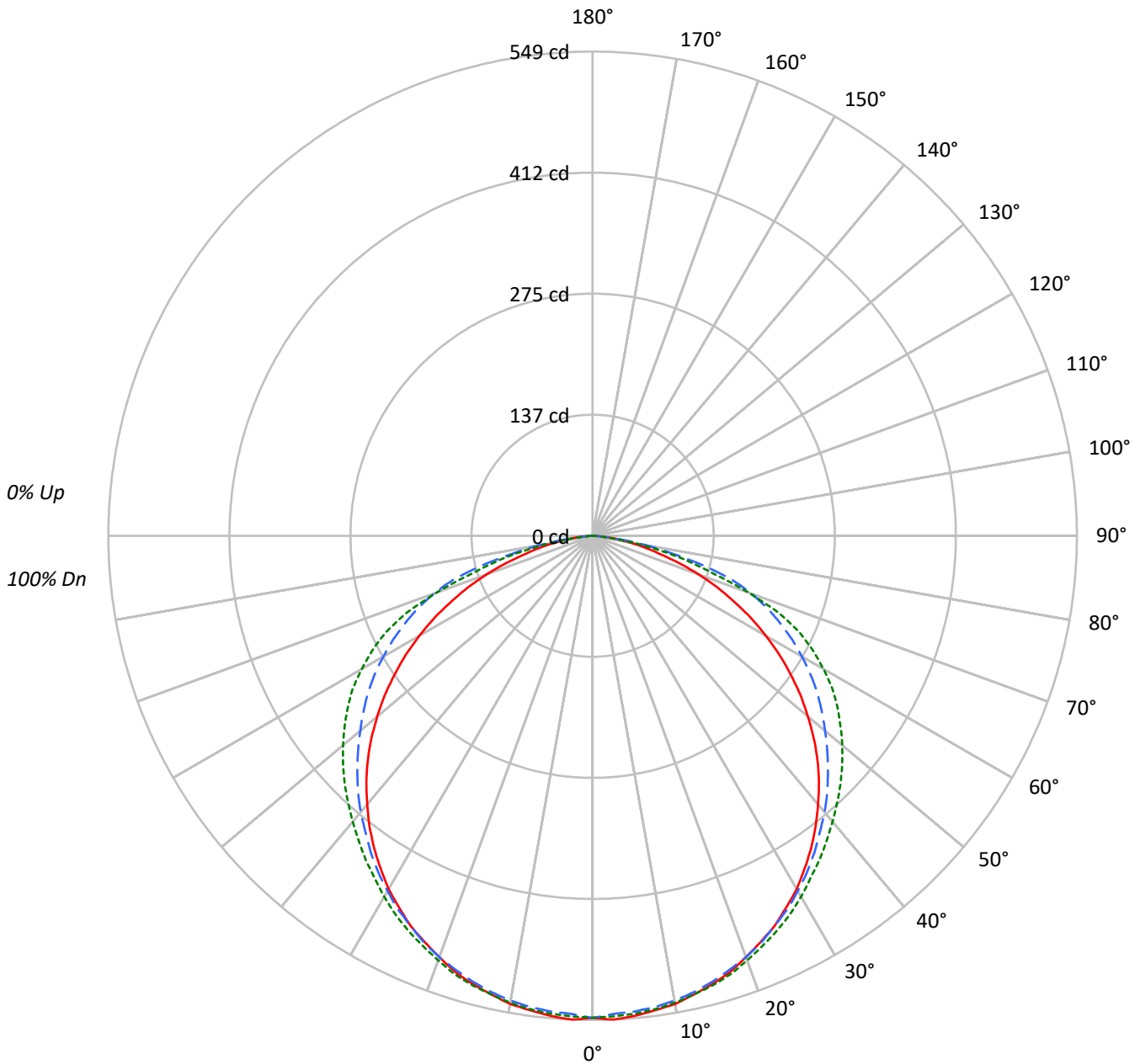
Lumens per Lamp: N/A
Luminaire Lumens: 1632.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1543	1543	1543
5°	1549	1534	1542
10°	1545	1534	1541
15°	1537	1530	1542
20°	1527	1527	1539
25°	1520	1520	1539
30°	1508	1516	1541
35°	1489	1511	1545
40°	1465	1507	1559
45°	1439	1506	1587
50°	1399	1511	1623
55°	1348	1530	1668
60°	1280	1546	1705
65°	1183	1566	1727
70°	1051	1578	1546
75°	848	1417	1237
80°	663	995	808
85°	457	288	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	3.2
10°-20°	148.4	9.1
20°-30°	226.0	13.8
30°-40°	275.3	16.9
40°-50°	292.1	17.9
50°-60°	275.6	16.9
60°-70°	222.5	13.6
70°-80°	120.7	7.4
80°-90°	19.5	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°	426.2	26.1
0°-40°	701.5	43.0
0°-60°	1269.2	77.8
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	547	545	541	545	544	52
15°	526	525	524	528	528	148
25°	488	487	488	493	494	225
35°	432	434	438	447	448	270
45°	361	366	377	391	398	278
55°	274	285	311	331	339	245
65°	177	199	234	254	259	175
75°	78	113	130	117	113	85
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.6	546.6	546.6	546.6	546.6
2.5°	549.1	546.6	542.7	546.6	545.4
5°	546.6	545.4	541.4	545.4	544.1
7.5°	542.7	542.7	539.0	541.4	541.4
10°	539.0	537.7	535.2	539.0	537.7
12.5°	532.5	531.3	530.0	533.8	532.5
15°	526.1	524.9	523.6	527.6	527.6
17.5°	518.5	517.2	516.0	521.1	521.1
20°	508.3	508.3	508.3	513.5	512.2
22.5°	498.2	498.2	499.4	504.6	503.3
25°	488.0	486.8	488.0	493.0	494.3
27.5°	475.2	476.5	477.7	482.9	484.1
30°	462.6	463.8	465.1	471.5	472.7
32.5°	447.3	449.8	452.3	459.9	459.9
35°	432.0	434.5	438.4	447.3	448.5
37.5°	415.4	417.9	423.1	433.2	435.7
40°	397.5	401.4	409.0	419.2	423.1
42.5°	379.7	384.8	393.7	405.1	410.3
45°	360.6	365.6	377.2	391.2	397.5
47.5°	340.1	346.5	360.6	378.4	383.6
50°	318.6	327.5	344.0	363.1	369.5
52.5°	296.9	307.0	327.5	347.8	354.2
55°	273.9	285.3	310.9	331.2	338.9
57.5°	251.0	263.8	293.0	314.7	322.3
60°	226.8	242.1	273.9	295.6	302.0
62.5°	202.6	220.4	254.9	276.4	281.6
65°	177.1	198.8	234.4	253.6	258.6
67.5°	152.9	178.3	214.1	228.0	228.0
70°	127.4	155.4	191.2	194.9	187.3
72.5°	102.0	133.8	165.7	151.6	145.2
75°	77.8	113.4	129.9	117.3	113.4
77.5°	58.6	91.7	91.7	84.0	81.5
80°	40.8	70.1	61.2	53.6	49.7
82.5°	26.7	39.5	31.9	25.5	21.7
85°	14.1	15.3	8.9	7.7	6.4
87.5°	5.2	2.5	1.2	2.5	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)