

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: P732728

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732728
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-CP250-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

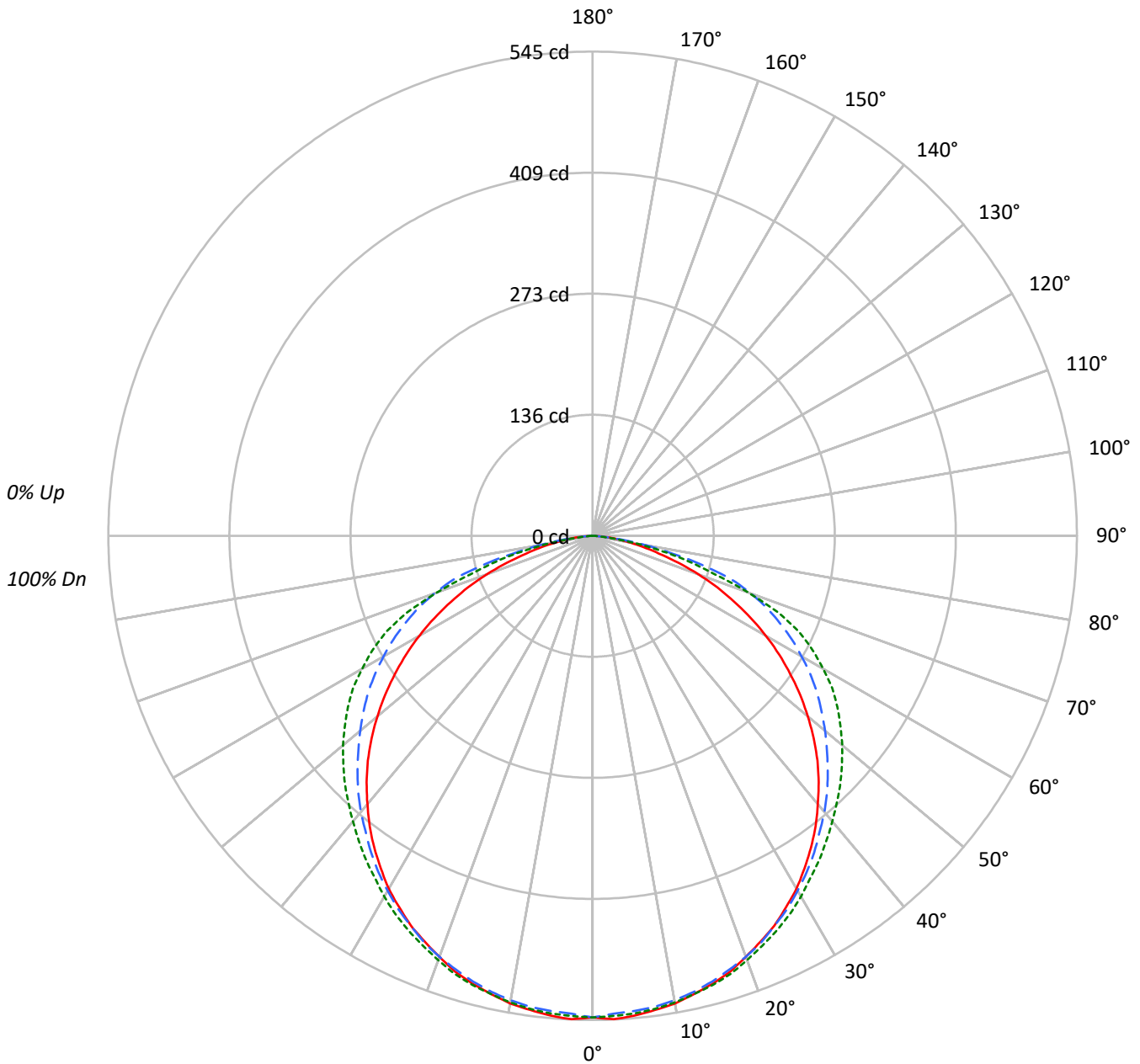
Lumens per Lamp: N/A
Luminaire Lumens: 1619.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1530	1530	1530
5°	1536	1522	1530
10°	1533	1522	1529
15°	1525	1518	1529
20°	1515	1515	1527
25°	1508	1508	1527
30°	1496	1504	1529
35°	1477	1499	1533
40°	1453	1495	1546
45°	1428	1494	1574
50°	1388	1499	1610
55°	1337	1518	1655
60°	1270	1534	1691
65°	1174	1553	1714
70°	1043	1565	1533
75°	842	1406	1227
80°	657	987	801
85°	450	285	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.2
10°-20°	147.2	9.1
20°-30°	224.2	13.8
30°-40°	273.1	16.9
40°-50°	289.7	17.9
50°-60°	273.4	16.9
60°-70°	220.8	13.6
70°-80°	119.8	7.4
80°-90°	19.4	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°	422.8	26.1
0°-40°	695.9	43.0
0°-60°	1259.1	77.8
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	542	541	537	541	540	51
15°	522	521	520	523	523	147
25°	484	483	484	489	490	223
35°	428	431	435	444	445	268
45°	358	363	374	388	394	275
55°	272	283	308	329	336	243
65°	176	197	232	252	257	174
75°	77	112	129	116	112	84
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°	542.2	542.2	542.2	542.2	542.2
2.5°	544.7	542.2	538.4	542.2	541.0
5°	542.2	541.0	537.1	541.0	539.8
7.5°	538.4	538.4	534.7	537.1	537.1
10°	534.7	533.4	530.9	534.7	533.4
12.5°	528.3	527.1	525.8	529.5	528.3
15°	522.0	520.7	519.5	523.3	523.3
17.5°	514.4	513.1	511.9	517.0	517.0
20°	504.3	504.3	504.3	509.4	508.2
22.5°	494.2	494.2	495.5	500.6	499.3
25°	484.2	482.9	484.2	489.1	490.3
27.5°	471.4	472.7	473.9	479.0	480.3
30°	458.9	460.1	461.4	467.7	469.0
32.5°	443.7	446.2	448.7	456.3	456.3
35°	428.5	431.0	434.9	443.7	445.0
37.5°	412.1	414.6	419.7	429.8	432.3
40°	394.3	398.2	405.8	415.8	419.7
42.5°	376.6	381.7	390.6	401.9	407.0
45°	357.7	362.7	374.2	388.1	394.3
47.5°	337.4	343.8	357.7	375.4	380.5
50°	316.1	324.9	341.3	360.2	366.6
52.5°	294.5	304.6	324.9	345.0	351.4
55°	271.7	283.1	308.5	328.6	336.2
57.5°	249.0	261.7	290.6	312.2	319.8
60°	225.0	240.1	271.7	293.3	299.6
62.5°	200.9	218.6	252.8	274.2	279.3
65°	175.7	197.2	232.5	251.6	256.6
67.5°	151.7	176.9	212.4	226.2	226.2
70°	126.4	154.2	189.6	193.4	185.8
72.5°	101.2	132.8	164.4	150.4	144.1
75°	77.2	112.5	128.9	116.4	112.5
77.5°	58.1	90.9	90.9	83.4	80.9
80°	40.4	69.6	60.7	53.1	49.3
82.5°	26.5	39.2	31.6	25.3	21.5
85°	13.9	15.2	8.8	7.6	6.4
87.5°	5.1	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)