

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: P732727

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732727
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-CP250-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

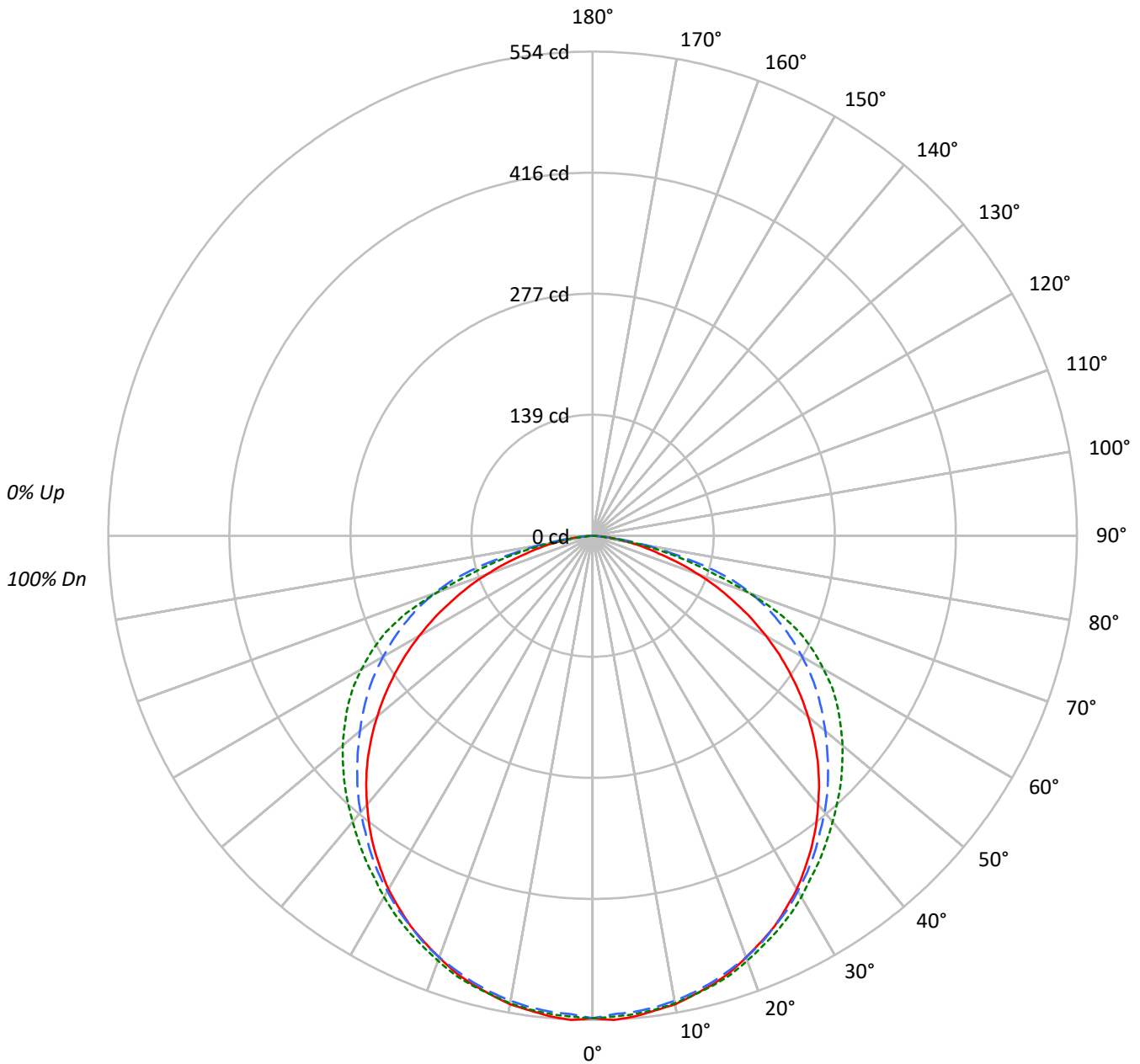
Lumens per Lamp: N/A
Luminaire Lumens: 1648.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1558	1558	1558
5°	1564	1549	1557
10°	1560	1549	1556
15°	1553	1545	1557
20°	1542	1542	1554
25°	1535	1535	1554
30°	1522	1531	1556
35°	1503	1525	1561
40°	1479	1522	1574
45°	1453	1521	1602
50°	1413	1526	1638
55°	1361	1545	1684
60°	1293	1562	1722
65°	1194	1581	1745
70°	1062	1593	1561
75°	856	1431	1249
80°	670	1005	814
85°	460	291	211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.2
10°-20°	149.9	9.1
20°-30°	228.2	13.8
30°-40°	278.0	16.9
40°-50°	294.9	17.9
50°-60°	278.3	16.9
60°-70°	224.7	13.6
70°-80°	121.9	7.4
80°-90°	19.7	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°	430.4	26.1
0°-40°	708.4	43.0
0°-60°	1281.6	77.8
0°-90°	1648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	552	551	547	551	549	52
15°	531	530	529	533	533	150
25°	493	492	493	498	499	227
35°	436	439	443	452	453	273
45°	364	369	381	395	401	280
55°	277	288	314	334	342	247
65°	179	201	237	256	261	177
75°	78	114	131	118	114	86
85°	14	16	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°	552.0	552.0	552.0	552.0	552.0
2.5°	554.5	552.0	548.0	552.0	550.7
5°	552.0	550.7	546.8	550.7	549.4
7.5°	548.0	548.0	544.2	546.8	546.8
10°	544.2	543.0	540.4	544.2	543.0
12.5°	537.8	536.5	535.2	539.0	537.8
15°	531.3	530.0	528.8	532.7	532.7
17.5°	523.6	522.3	521.1	526.3	526.3
20°	513.3	513.3	513.3	518.5	517.3
22.5°	503.1	503.1	504.3	509.5	508.3
25°	492.8	491.6	492.8	497.9	499.1
27.5°	479.9	481.2	482.4	487.6	488.9
30°	467.1	468.4	469.6	476.1	477.4
32.5°	451.7	454.2	456.7	464.4	464.4
35°	436.2	438.7	442.7	451.7	452.9
37.5°	419.5	422.0	427.2	437.5	440.0
40°	401.4	405.3	413.0	423.3	427.2
42.5°	383.4	388.6	397.6	409.1	414.3
45°	364.1	369.2	380.9	395.0	401.4
47.5°	343.5	349.9	364.1	382.1	387.3
50°	321.7	330.7	347.4	366.7	373.1
52.5°	299.8	310.0	330.7	351.2	357.7
55°	276.6	288.1	314.0	334.5	342.2
57.5°	253.4	266.4	295.9	317.8	325.5
60°	229.0	244.4	276.6	298.5	305.0
62.5°	204.5	222.5	257.4	279.1	284.3
65°	178.8	200.8	236.7	256.1	261.2
67.5°	154.4	180.1	216.2	230.2	230.2
70°	128.7	156.9	193.0	196.8	189.1
72.5°	103.0	135.2	167.3	153.1	146.7
75°	78.5	114.5	131.2	118.4	114.5
77.5°	59.1	92.6	92.6	84.8	82.3
80°	41.2	70.8	61.8	54.1	50.1
82.5°	27.0	39.9	32.2	25.7	21.9
85°	14.2	15.5	9.0	7.7	6.5
87.5°	5.2	2.5	1.3	2.5	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)