

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: P732601

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732601
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: 14FCZ2-25-RDP-B2750-W2D-CP250-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

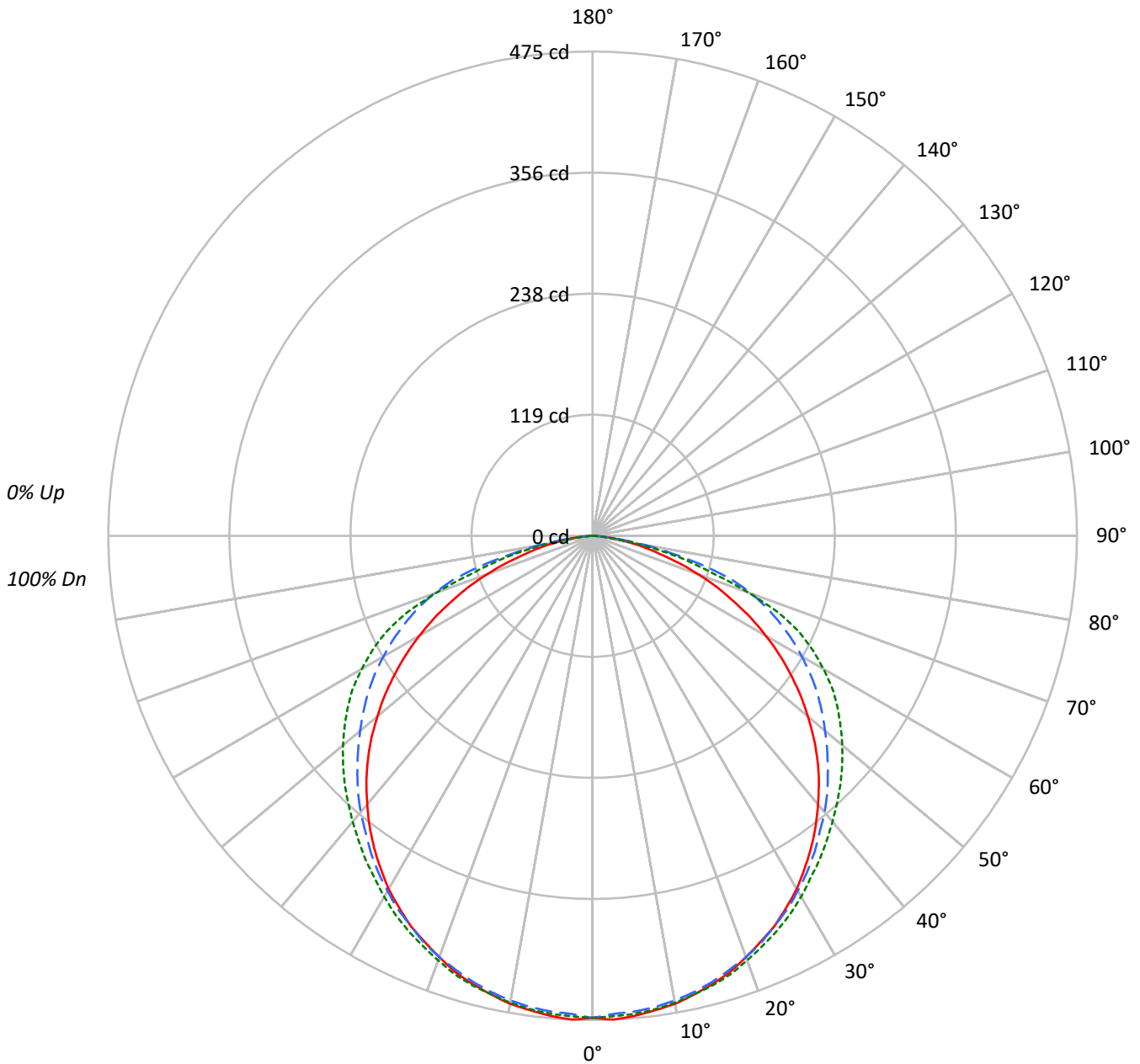
Lumens per Lamp: N/A
Luminaire Lumens: 1412.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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°	1335	1335	1335
5°	1340	1327	1334
10°	1337	1327	1333
15°	1330	1324	1334
20°	1321	1321	1331
25°	1315	1315	1332
30°	1304	1312	1333
35°	1288	1307	1337
40°	1267	1304	1349
45°	1245	1303	1373
50°	1210	1307	1404
55°	1166	1324	1443
60°	1108	1338	1475
65°	1023	1355	1495
70°	910	1365	1337
75°	734	1226	1070
80°	574	862	699
85°	395	249	178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.2
10°-20°	128.4	9.1
20°-30°	195.6	13.8
30°-40°	238.2	16.9
40°-50°	252.7	17.9
50°-60°	238.5	16.9
60°-70°	192.5	13.6
70°-80°	104.5	7.4
80°-90°	16.9	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°	368.7	26.1
0°-40°	606.9	43.0
0°-60°	1098.1	77.8
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	473	472	468	472	471	45
15°	455	454	453	456	456	128
25°	422	421	422	427	428	194
35°	374	376	379	387	388	234
45°	312	316	326	338	344	240
55°	237	247	269	287	293	212
65°	153	172	203	219	224	152
75°	67	98	112	102	98	73
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	472.9	472.9	472.9	472.9	472.9
2.5°	475.1	472.9	469.5	472.9	471.8
5°	472.9	471.8	468.5	471.8	470.8
7.5°	469.5	469.5	466.3	468.5	468.5
10°	466.3	465.2	463.1	466.3	465.2
12.5°	460.8	459.7	458.6	461.8	460.8
15°	455.2	454.1	453.1	456.4	456.4
17.5°	448.6	447.5	446.4	450.9	450.9
20°	439.8	439.8	439.8	444.3	443.2
22.5°	431.0	431.0	432.1	436.6	435.5
25°	422.2	421.2	422.2	426.6	427.7
27.5°	411.2	412.3	413.3	417.8	418.9
30°	400.2	401.3	402.4	407.9	409.0
32.5°	387.0	389.1	391.3	397.9	397.9
35°	373.7	375.9	379.3	387.0	388.1
37.5°	359.4	361.6	366.0	374.8	377.0
40°	343.9	347.3	353.9	362.7	366.0
42.5°	328.5	332.9	340.6	350.5	355.0
45°	312.0	316.3	326.3	338.5	343.9
47.5°	294.3	299.8	312.0	327.4	331.9
50°	275.6	283.3	297.7	314.2	319.7
52.5°	256.9	265.6	283.3	300.9	306.5
55°	237.0	246.9	269.0	286.6	293.2
57.5°	217.1	228.2	253.5	272.3	278.9
60°	196.2	209.4	237.0	255.8	261.3
62.5°	175.3	190.7	220.5	239.2	243.6
65°	153.2	172.0	202.8	219.4	223.8
67.5°	132.3	154.3	185.2	197.3	197.3
70°	110.3	134.4	165.4	168.6	162.0
72.5°	88.2	115.8	143.4	131.2	125.7
75°	67.3	98.1	112.4	101.5	98.1
77.5°	50.7	79.3	79.3	72.7	70.5
80°	35.3	60.7	53.0	46.3	43.0
82.5°	23.1	34.2	27.6	22.0	18.8
85°	12.2	13.2	7.7	6.6	5.5
87.5°	4.5	2.2	1.1	2.2	1.1
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)