

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: P732594

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732594
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-CA125-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

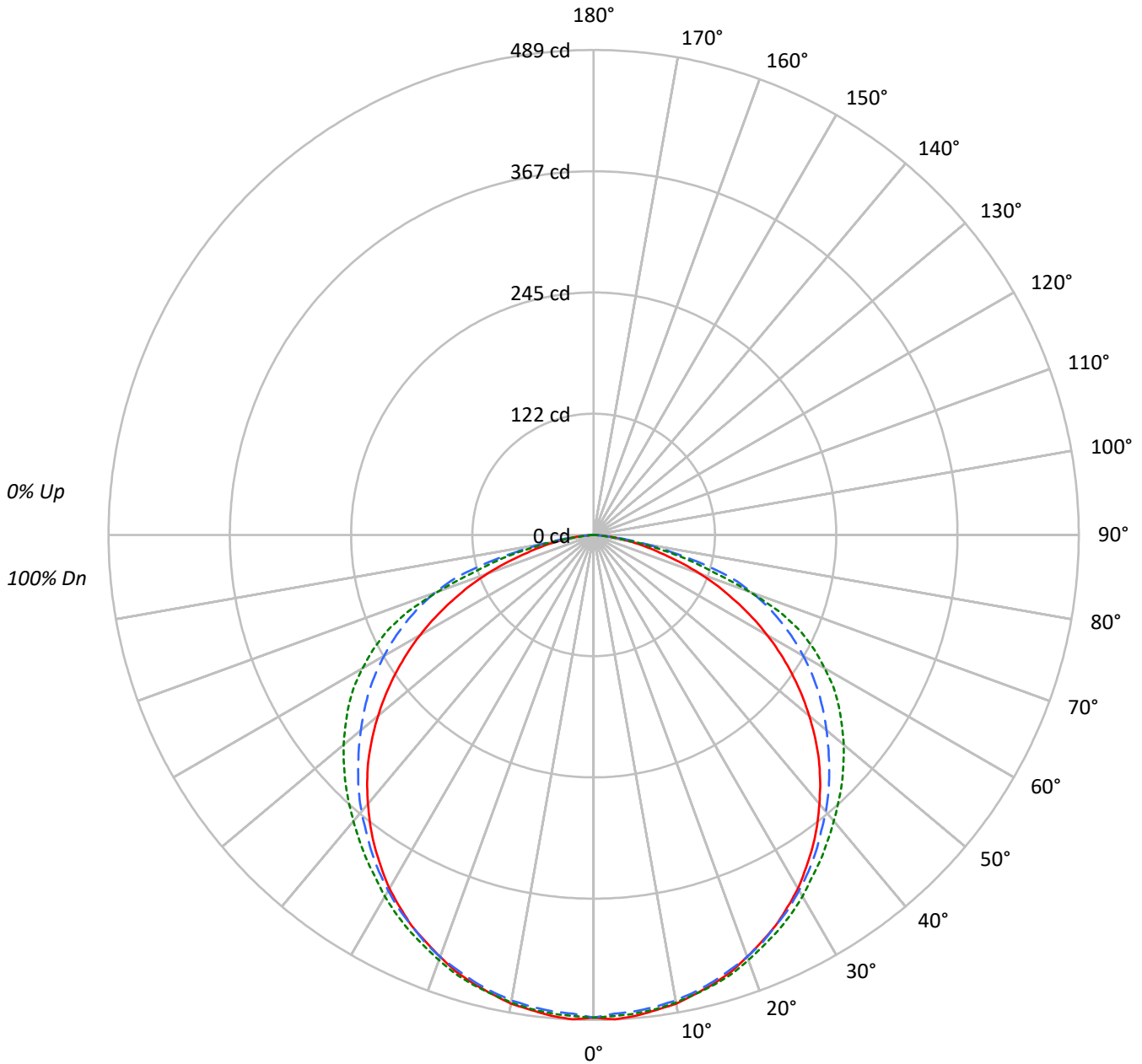
Lumens per Lamp: N/A
Luminaire Lumens: 1453.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1374	1374	1374
5°	1379	1366	1373
10°	1375	1366	1372
15°	1369	1362	1373
20°	1360	1360	1370
25°	1353	1353	1371
30°	1342	1350	1372
35°	1325	1345	1376
40°	1304	1342	1388
45°	1282	1340	1413
50°	1245	1345	1445
55°	1200	1362	1485
60°	1140	1377	1518
65°	1053	1394	1538
70°	937	1405	1376
75°	755	1262	1100
80°	590	886	718
85°	405	256	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	3.2
10°-20°	132.1	9.1
20°-30°	201.2	13.8
30°-40°	245.1	16.9
40°-50°	260.0	17.9
50°-60°	245.4	16.9
60°-70°	198.1	13.6
70°-80°	107.5	7.4
80°-90°	17.4	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°	379.4	26.1
0°-40°	624.5	43.0
0°-60°	1130.0	77.8
0°-90°	1453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	487	486	482	486	484	46
15°	468	467	466	470	470	132
25°	434	433	434	439	440	200
35°	385	387	390	398	399	240
45°	321	326	336	348	354	247
55°	244	254	277	295	302	218
65°	158	177	209	226	230	156
75°	69	101	116	104	101	76
85°	12	14	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°	486.7	486.7	486.7	486.7	486.7
2.5°	488.9	486.7	483.2	486.7	485.5
5°	486.7	485.5	482.1	485.5	484.4
7.5°	483.2	483.2	479.8	482.1	482.1
10°	479.8	478.7	476.5	479.8	478.7
12.5°	474.1	473.0	471.9	475.2	474.1
15°	468.4	467.3	466.2	469.7	469.7
17.5°	461.6	460.5	459.4	464.0	464.0
20°	452.6	452.6	452.6	457.2	456.1
22.5°	443.5	443.5	444.7	449.2	448.1
25°	434.5	433.4	434.5	439.0	440.1
27.5°	423.1	424.2	425.3	429.9	431.0
30°	411.8	413.0	414.1	419.8	420.9
32.5°	398.2	400.4	402.7	409.5	409.5
35°	384.6	386.8	390.3	398.2	399.3
37.5°	369.9	372.1	376.7	385.7	387.9
40°	353.9	357.3	364.2	373.2	376.7
42.5°	338.0	342.6	350.5	360.7	365.3
45°	321.1	325.5	335.8	348.3	353.9
47.5°	302.8	308.5	321.1	336.9	341.5
50°	283.6	291.6	306.3	323.3	329.0
52.5°	264.3	273.4	291.6	309.6	315.3
55°	243.9	254.0	276.8	294.9	301.7
57.5°	223.4	234.8	260.8	280.2	287.0
60°	201.9	215.5	243.9	263.2	268.9
62.5°	180.3	196.2	226.9	246.1	250.7
65°	157.7	177.0	208.7	225.8	230.3
67.5°	136.1	158.8	190.6	203.0	203.0
70°	113.5	138.3	170.2	173.5	166.7
72.5°	90.8	119.2	147.5	135.0	129.3
75°	69.2	100.9	115.7	104.4	100.9
77.5°	52.1	81.6	81.6	74.8	72.6
80°	36.3	62.4	54.5	47.7	44.2
82.5°	23.8	35.2	28.4	22.7	19.3
85°	12.5	13.6	7.9	6.8	5.7
87.5°	4.6	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)