

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: P732444

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-HRP-B2750-W2D-CA125-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

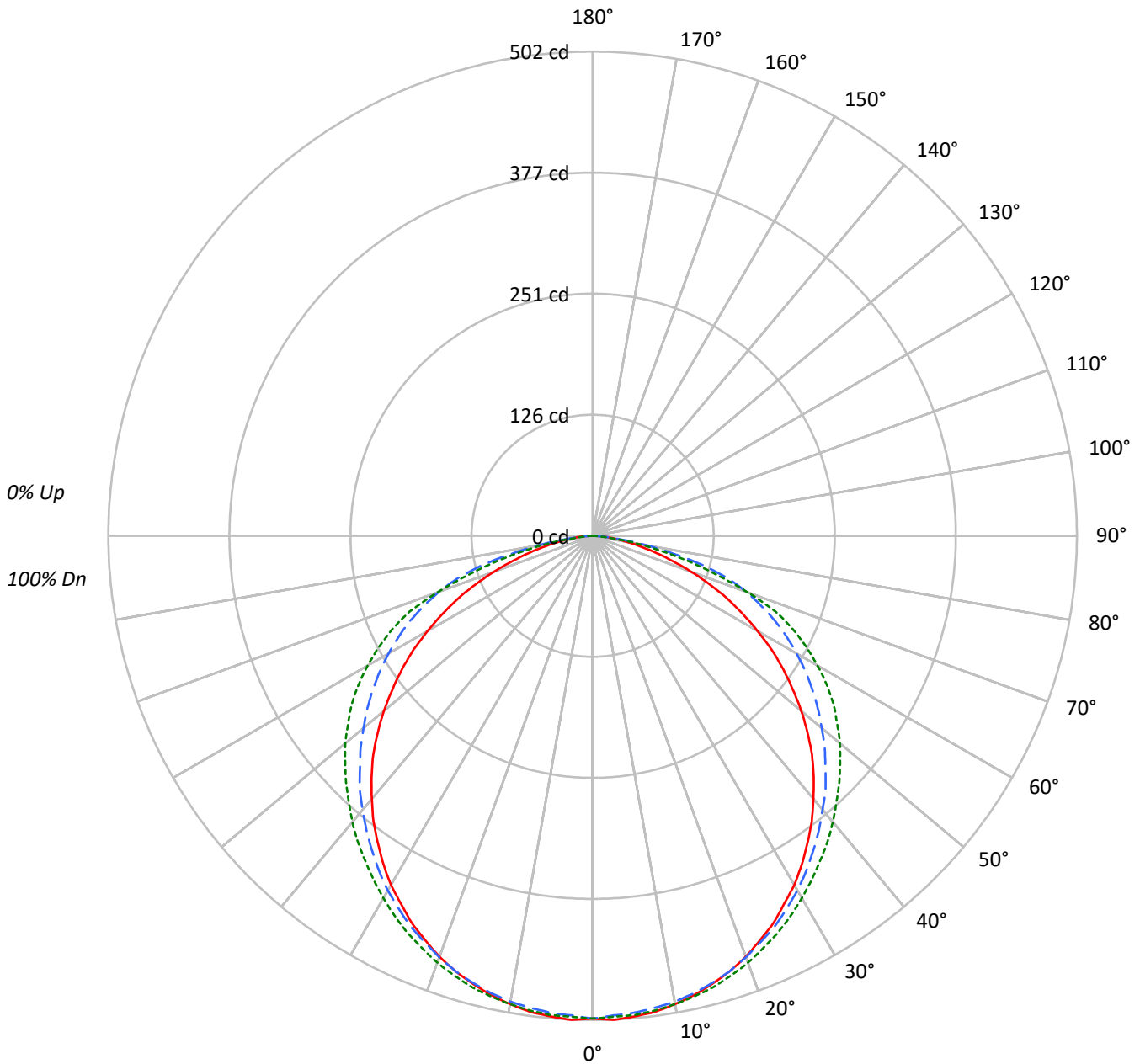
Lumens per Lamp: N/A
Luminaire Lumens: 1474.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1413	1413	1413
5°	1417	1407	1413
10°	1413	1406	1413
15°	1405	1402	1415
20°	1395	1396	1415
25°	1380	1392	1415
30°	1363	1384	1414
35°	1338	1374	1417
40°	1312	1366	1427
45°	1284	1362	1443
50°	1239	1361	1470
55°	1186	1369	1501
60°	1114	1379	1520
65°	1028	1393	1529
70°	895	1396	1408
75°	738	1300	1137
80°	580	935	761
85°	453	359	178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	3.2
10°-20°	136.0	9.2
20°-30°	206.5	14.0
30°-40°	250.2	17.0
40°-50°	263.7	17.9
50°-60°	246.2	16.7
60°-70°	196.7	13.3
70°-80°	108.3	7.3
80°-90°	19.1	1.3
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°	389.9	26.5
0°-40°	640.1	43.4
0°-60°	1149.9	78.0
0°-90°	1474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	500	499	496	500	499	48
15°	481	481	480	484	484	136
25°	443	444	447	453	454	204
35°	388	392	399	409	411	243
45°	322	328	341	356	362	247
55°	241	253	278	298	305	215
65°	154	173	209	226	229	151
75°	68	97	119	107	104	73
85°	14	18	11	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.5	500.5	500.5	500.5	500.5
2.5°	502.4	501.0	497.8	500.5	499.2
5°	500.2	498.8	496.4	499.7	498.8
7.5°	497.8	495.9	493.6	497.4	496.4
10°	493.1	491.7	490.4	493.6	493.1
12.5°	487.6	487.1	485.7	489.5	489.0
15°	480.7	480.7	479.8	484.3	484.3
17.5°	473.2	472.7	473.2	478.3	477.9
20°	464.4	464.4	464.9	471.0	471.0
22.5°	453.7	454.2	455.6	463.0	462.5
25°	443.2	444.0	446.8	453.2	454.2
27.5°	430.1	432.5	435.7	443.5	444.4
30°	418.1	419.5	424.5	432.0	433.8
32.5°	403.7	406.4	412.1	420.4	422.7
35°	388.4	392.1	398.6	408.8	411.1
37.5°	373.1	376.4	385.2	395.8	400.0
40°	356.0	361.5	370.8	382.9	387.4
42.5°	339.2	344.9	357.4	369.8	374.1
45°	321.6	327.7	341.1	356.5	361.5
47.5°	302.2	309.2	326.3	342.5	348.0
50°	282.2	291.0	310.0	328.2	334.7
52.5°	261.5	272.5	294.3	313.3	319.4
55°	241.1	253.0	278.1	297.6	305.0
57.5°	220.2	233.2	261.5	283.6	287.9
60°	197.4	213.3	244.2	263.7	269.3
62.5°	175.2	193.3	226.6	245.2	249.8
65°	153.9	173.4	208.6	225.7	229.0
67.5°	130.7	153.9	188.6	204.5	205.3
70°	108.5	135.4	169.1	176.5	170.6
72.5°	86.7	115.4	146.5	140.4	135.4
75°	67.7	96.9	119.2	107.1	104.3
77.5°	50.1	79.3	85.3	78.8	73.7
80°	35.7	62.5	57.5	49.1	46.8
82.5°	24.5	39.4	31.6	24.5	21.3
85°	14.0	17.6	11.1	6.9	5.5
87.5°	6.0	4.2	2.3	1.9	1.9
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)