

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: P732445

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732445
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-CA125-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

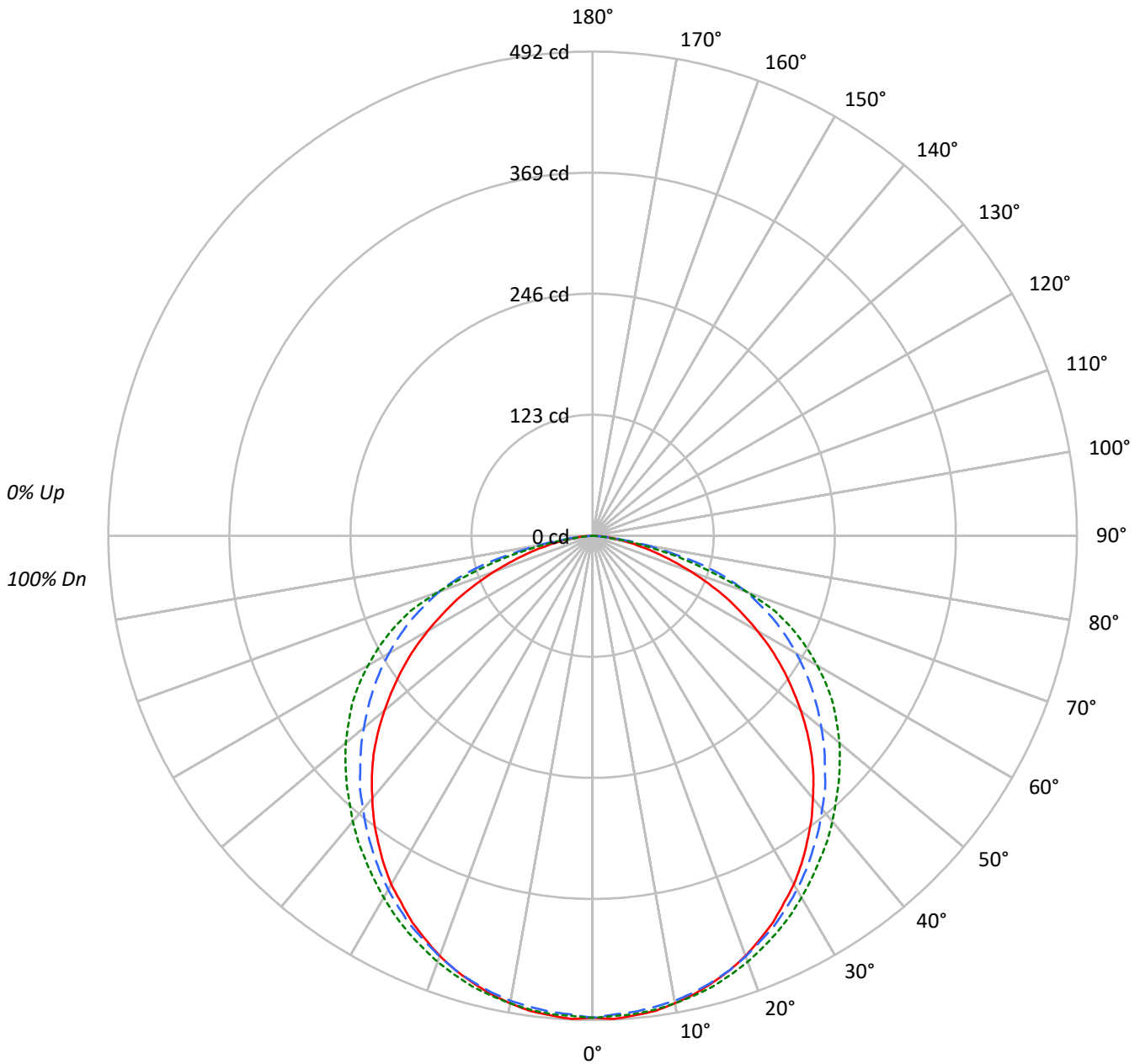
Lumens per Lamp: N/A
Luminaire Lumens: 1442.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1382	1382	1382
5°	1386	1376	1382
10°	1383	1375	1383
15°	1374	1371	1385
20°	1365	1366	1384
25°	1350	1361	1384
30°	1333	1354	1383
35°	1309	1344	1386
40°	1283	1336	1397
45°	1256	1332	1412
50°	1212	1332	1438
55°	1160	1339	1468
60°	1090	1349	1488
65°	1006	1363	1496
70°	876	1366	1377
75°	722	1272	1112
80°	567	914	744
85°	444	353	175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	3.2
10°-20°	133.0	9.2
20°-30°	202.0	14.0
30°-40°	244.8	17.0
40°-50°	258.0	17.9
50°-60°	240.8	16.7
60°-70°	192.4	13.3
70°-80°	105.9	7.3
80°-90°	18.7	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°	381.4	26.4
0°-40°	626.2	43.4
0°-60°	1125.0	78.0
0°-90°	1442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	489	488	486	489	488	47
15°	470	470	469	474	474	133
25°	434	434	437	443	444	200
35°	380	384	390	400	402	238
45°	315	321	334	349	354	242
55°	236	248	272	291	298	210
65°	151	170	204	221	224	148
75°	66	95	117	105	102	71
85°	14	17	11	7	5	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.7	489.7	489.7	489.7	489.7
2.5°	491.5	490.1	487.0	489.7	488.4
5°	489.3	487.9	485.6	488.8	487.9
7.5°	487.0	485.2	482.9	486.6	485.6
10°	482.4	481.0	479.8	482.9	482.4
12.5°	477.0	476.6	475.2	478.9	478.4
15°	470.3	470.3	469.3	473.8	473.8
17.5°	462.9	462.5	462.9	468.0	467.5
20°	454.3	454.3	454.8	460.7	460.7
22.5°	443.9	444.3	445.7	452.9	452.5
25°	433.5	434.3	437.1	443.4	444.3
27.5°	420.8	423.1	426.2	433.9	434.8
30°	409.0	410.4	415.3	422.6	424.4
32.5°	395.0	397.6	403.1	411.3	413.6
35°	379.9	383.6	389.9	399.9	402.2
37.5°	365.0	368.2	376.9	387.2	391.3
40°	348.3	353.7	362.7	374.6	379.0
42.5°	331.9	337.4	349.7	361.8	365.9
45°	314.7	320.6	333.7	348.7	353.7
47.5°	295.6	302.5	319.2	335.1	340.5
50°	276.1	284.7	303.3	321.1	327.4
52.5°	255.8	266.6	287.9	306.5	312.5
55°	235.8	247.5	272.1	291.1	298.4
57.5°	215.4	228.1	255.8	277.5	281.6
60°	193.1	208.6	238.9	258.0	263.5
62.5°	171.4	189.1	221.7	239.8	244.4
65°	150.6	169.6	204.0	220.8	224.0
67.5°	127.8	150.6	184.5	200.0	200.8
70°	106.1	132.4	165.5	172.7	166.9
72.5°	84.8	112.9	143.3	137.4	132.4
75°	66.2	94.8	116.6	104.8	102.0
77.5°	49.0	77.6	83.4	77.1	72.1
80°	34.9	61.2	56.2	48.1	45.8
82.5°	24.0	38.6	30.9	24.0	20.9
85°	13.7	17.2	10.9	6.8	5.4
87.5°	5.9	4.1	2.3	1.8	1.8
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)