

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: P732436

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732436
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-CA08-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

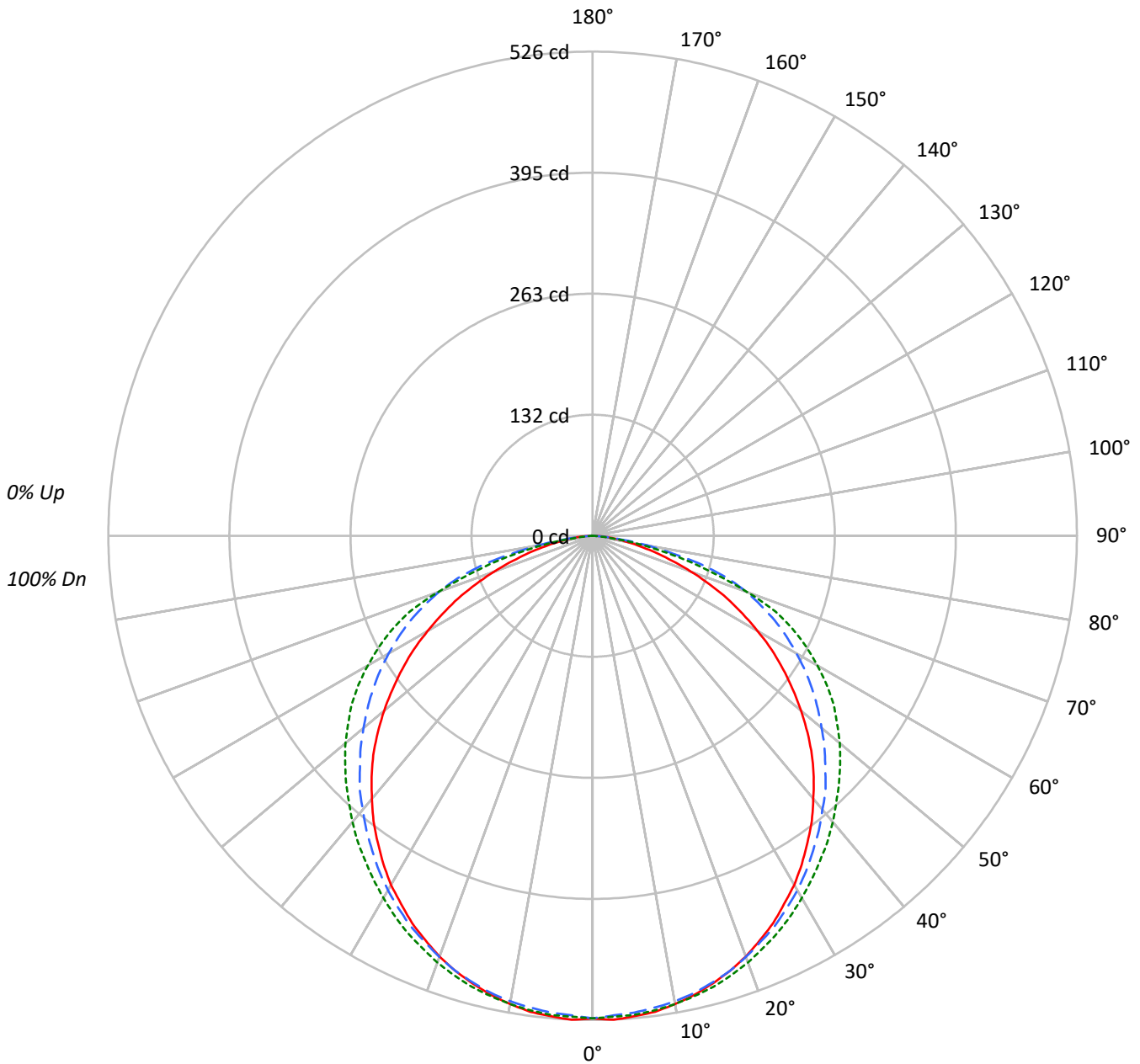
Lumens per Lamp: N/A
Luminaire Lumens: 1544.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1480	1480	1480
5°	1484	1473	1480
10°	1480	1472	1480
15°	1471	1468	1482
20°	1461	1463	1482
25°	1446	1458	1482
30°	1427	1449	1481
35°	1402	1439	1484
40°	1374	1431	1495
45°	1345	1426	1512
50°	1298	1426	1539
55°	1243	1434	1572
60°	1167	1444	1593
65°	1077	1459	1602
70°	938	1462	1475
75°	773	1361	1191
80°	608	979	797
85°	473	379	188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.2
10°-20°	142.4	9.2
20°-30°	216.3	14.0
30°-40°	262.1	17.0
40°-50°	276.2	17.9
50°-60°	257.8	16.7
60°-70°	206.1	13.3
70°-80°	113.4	7.3
80°-90°	20.0	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°	408.4	26.4
0°-40°	670.5	43.4
0°-60°	1204.5	78.0
0°-90°	1544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	524	522	520	523	522	50
15°	504	504	502	507	507	142
25°	464	465	468	475	476	214
35°	407	411	418	428	431	255
45°	337	343	357	373	379	259
55°	252	265	291	312	320	225
65°	161	182	218	236	240	159
75°	71	102	125	112	109	76
85°	15	18	12	7	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.3	524.3	524.3	524.3	524.3
2.5°	526.3	524.8	521.5	524.3	522.9
5°	523.9	522.4	520.0	523.4	522.4
7.5°	521.5	519.5	517.0	521.0	520.0
10°	516.5	515.1	513.7	517.0	516.5
12.5°	510.8	510.3	508.8	512.7	512.2
15°	503.5	503.5	502.5	507.3	507.3
17.5°	495.7	495.2	495.7	501.1	500.6
20°	486.4	486.4	486.9	493.3	493.3
22.5°	475.3	475.8	477.2	485.0	484.5
25°	464.2	465.1	468.0	474.8	475.8
27.5°	450.6	453.0	456.3	464.6	465.6
30°	437.9	439.4	444.7	452.5	454.4
32.5°	422.9	425.7	431.6	440.4	442.8
35°	406.8	410.8	417.5	428.2	430.7
37.5°	390.9	394.3	403.5	414.6	419.0
40°	372.9	378.7	388.4	401.0	405.8
42.5°	355.3	361.2	374.4	387.4	391.8
45°	336.9	343.3	357.3	373.4	378.7
47.5°	316.5	323.9	341.8	358.8	364.6
50°	295.6	304.8	324.7	343.8	350.5
52.5°	273.9	285.4	308.3	328.2	334.6
55°	252.5	265.0	291.3	311.7	319.5
57.5°	230.6	244.3	273.9	297.1	301.5
60°	206.8	223.4	255.8	276.2	282.1
62.5°	183.6	202.5	237.4	256.8	261.7
65°	161.2	181.6	218.5	236.4	239.8
67.5°	136.9	161.2	197.6	214.2	215.0
70°	113.7	141.8	177.2	184.9	178.7
72.5°	90.8	120.9	153.5	147.1	141.8
75°	70.9	101.5	124.8	112.2	109.2
77.5°	52.5	83.1	89.3	82.6	77.2
80°	37.4	65.5	60.2	51.5	49.0
82.5°	25.7	41.3	33.1	25.7	22.4
85°	14.6	18.4	11.7	7.2	5.8
87.5°	6.3	4.4	2.5	2.0	2.0
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)