

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: P732440

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732440
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-CA08-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

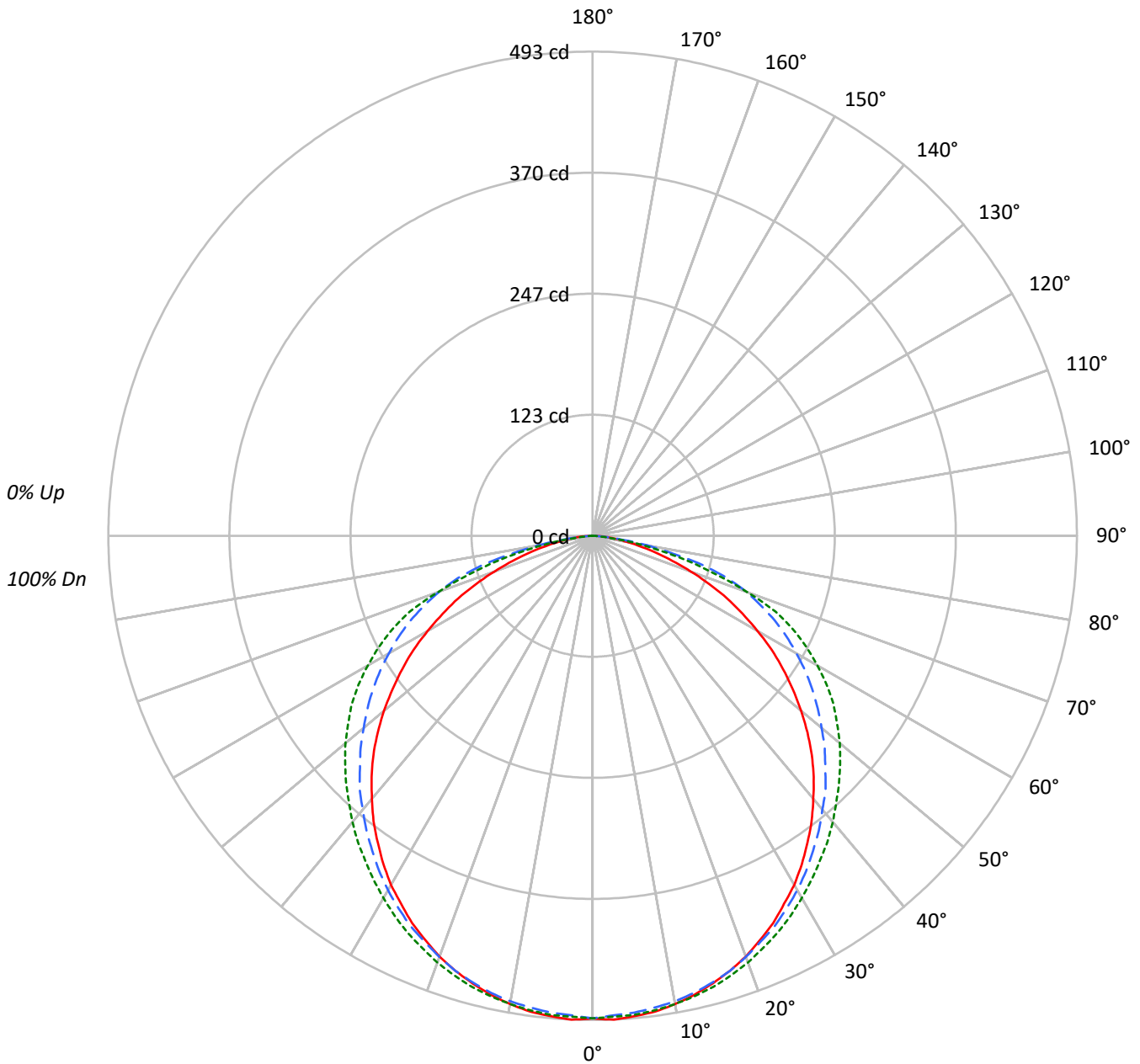
Lumens per Lamp: N/A
Luminaire Lumens: 1447.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1387	1387	1387
5°	1391	1381	1387
10°	1388	1380	1388
15°	1379	1376	1390
20°	1369	1371	1389
25°	1355	1366	1389
30°	1338	1358	1388
35°	1314	1348	1391
40°	1288	1341	1401
45°	1260	1337	1417
50°	1217	1336	1443
55°	1164	1343	1473
60°	1094	1353	1493
65°	1009	1367	1501
70°	879	1370	1382
75°	724	1276	1117
80°	569	917	746
85°	444	353	175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.2
10°-20°	133.5	9.2
20°-30°	202.7	14.0
30°-40°	245.6	17.0
40°-50°	258.8	17.9
50°-60°	241.6	16.7
60°-70°	193.1	13.3
70°-80°	106.3	7.3
80°-90°	18.8	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°	382.7	26.5
0°-40°	628.4	43.4
0°-60°	1128.9	78.0
0°-90°	1447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	490	487	490	490	47
15°	472	472	471	476	476	133
25°	435	436	439	445	446	200
35°	381	385	391	401	404	239
45°	316	322	335	350	355	243
55°	237	248	273	292	299	211
65°	151	170	205	222	225	149
75°	66	95	117	105	102	72
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°	491.4	491.4	491.4	491.4	491.4
2.5°	493.2	491.8	488.7	491.4	490.1
5°	491.0	489.6	487.3	490.5	489.6
7.5°	488.7	486.9	484.6	488.2	487.3
10°	484.1	482.7	481.4	484.6	484.1
12.5°	478.7	478.2	476.8	480.5	480.1
15°	471.9	471.9	471.0	475.5	475.5
17.5°	464.5	464.1	464.5	469.6	469.1
20°	455.9	455.9	456.3	462.3	462.3
22.5°	445.4	445.9	447.2	454.5	454.0
25°	435.0	435.8	438.6	444.9	445.9
27.5°	422.3	424.6	427.7	435.4	436.3
30°	410.4	411.8	416.7	424.1	425.8
32.5°	396.4	399.0	404.5	412.7	415.0
35°	381.3	385.0	391.3	401.3	403.6
37.5°	366.3	369.5	378.2	388.5	392.7
40°	349.5	354.9	364.0	375.9	380.3
42.5°	333.0	338.5	350.9	363.1	367.2
45°	315.7	321.7	334.9	349.9	354.9
47.5°	296.6	303.5	320.4	336.2	341.7
50°	277.1	285.7	304.3	322.2	328.5
52.5°	256.7	267.5	288.9	307.6	313.6
55°	236.6	248.4	273.0	292.1	299.4
57.5°	216.1	228.9	256.7	278.4	282.6
60°	193.8	209.3	239.7	258.9	264.4
62.5°	172.0	189.8	222.5	240.7	245.3
65°	151.1	170.2	204.7	221.6	224.8
67.5°	128.3	151.1	185.2	200.7	201.5
70°	106.5	132.9	166.0	173.3	167.4
72.5°	85.1	113.3	143.8	137.8	132.9
75°	66.4	95.1	117.0	105.1	102.4
77.5°	49.2	77.8	83.7	77.4	72.3
80°	35.0	61.4	56.4	48.2	45.9
82.5°	24.1	38.7	31.0	24.1	21.0
85°	13.7	17.3	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)