

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: P732442

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732442
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-CA125-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

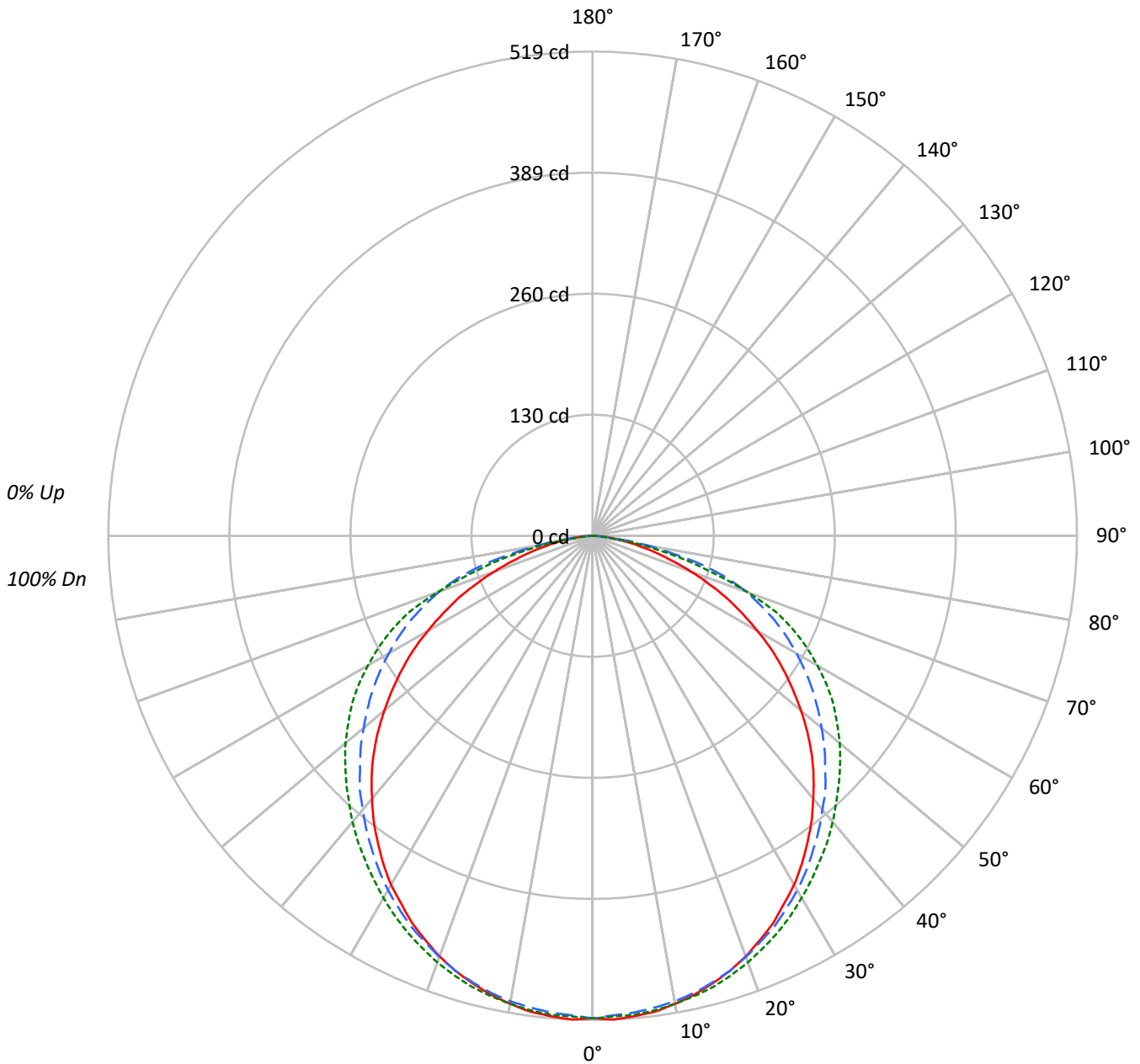
Lumens per Lamp: N/A
Luminaire Lumens: 1523.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1460	1460	1460
5°	1464	1453	1460
10°	1460	1452	1460
15°	1451	1449	1462
20°	1441	1443	1462
25°	1426	1438	1462
30°	1408	1430	1461
35°	1383	1419	1464
40°	1355	1412	1475
45°	1326	1407	1491
50°	1281	1407	1519
55°	1226	1414	1551
60°	1152	1424	1571
65°	1062	1439	1580
70°	925	1443	1454
75°	762	1343	1175
80°	598	966	787
85°	466	372	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	3.2
10°-20°	140.5	9.2
20°-30°	213.4	14.0
30°-40°	258.5	17.0
40°-50°	272.4	17.9
50°-60°	254.3	16.7
60°-70°	203.3	13.3
70°-80°	111.9	7.3
80°-90°	19.7	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°	402.8	26.4
0°-40°	661.4	43.4
0°-60°	1188.1	78.0
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	517	515	513	516	515	49
15°	497	497	496	500	500	140
25°	458	459	462	468	469	211
35°	401	405	412	422	425	251
45°	332	339	352	368	374	256
55°	249	261	287	308	315	222
65°	159	179	216	233	237	157
75°	70	100	123	111	108	75
85°	14	18	12	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.2	517.2	517.2	517.2	517.2
2.5°	519.1	517.6	514.4	517.2	515.8
5°	516.8	515.3	512.9	516.3	515.3
7.5°	514.4	512.4	510.0	513.9	512.9
10°	509.5	508.1	506.7	510.0	509.5
12.5°	503.8	503.3	501.9	505.8	505.3
15°	496.7	496.7	495.7	500.4	500.4
17.5°	488.9	488.4	488.9	494.3	493.8
20°	479.8	479.8	480.3	486.6	486.6
22.5°	468.8	469.3	470.7	478.4	477.9
25°	457.9	458.7	461.6	468.3	469.3
27.5°	444.4	446.9	450.1	458.3	459.2
30°	432.0	433.4	438.6	446.4	448.2
32.5°	417.2	420.0	425.8	434.4	436.8
35°	401.3	405.2	411.8	422.4	424.8
37.5°	385.5	388.9	398.0	408.9	413.3
40°	367.8	373.5	383.1	395.6	400.3
42.5°	350.5	356.3	369.3	382.1	386.5
45°	332.3	338.6	352.4	368.3	373.5
47.5°	312.2	319.5	337.2	353.9	359.6
50°	291.6	300.7	320.3	339.1	345.8
52.5°	270.2	281.5	304.1	323.7	330.0
55°	249.1	261.4	287.4	307.5	315.1
57.5°	227.5	240.9	270.2	293.1	297.4
60°	204.0	220.3	252.3	272.5	278.3
62.5°	181.1	199.7	234.2	253.3	258.2
65°	159.0	179.1	215.5	233.2	236.6
67.5°	135.0	159.0	194.9	211.3	212.1
70°	112.1	139.9	174.8	182.4	176.2
72.5°	89.6	119.3	151.4	145.1	139.9
75°	69.9	100.1	123.1	110.7	107.7
77.5°	51.8	81.9	88.1	81.4	76.1
80°	36.8	64.6	59.4	50.8	48.4
82.5°	25.3	40.7	32.6	25.3	22.1
85°	14.4	18.2	11.5	7.2	5.7
87.5°	6.2	4.4	2.4	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)