

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: P732443

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732443
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-CA125-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

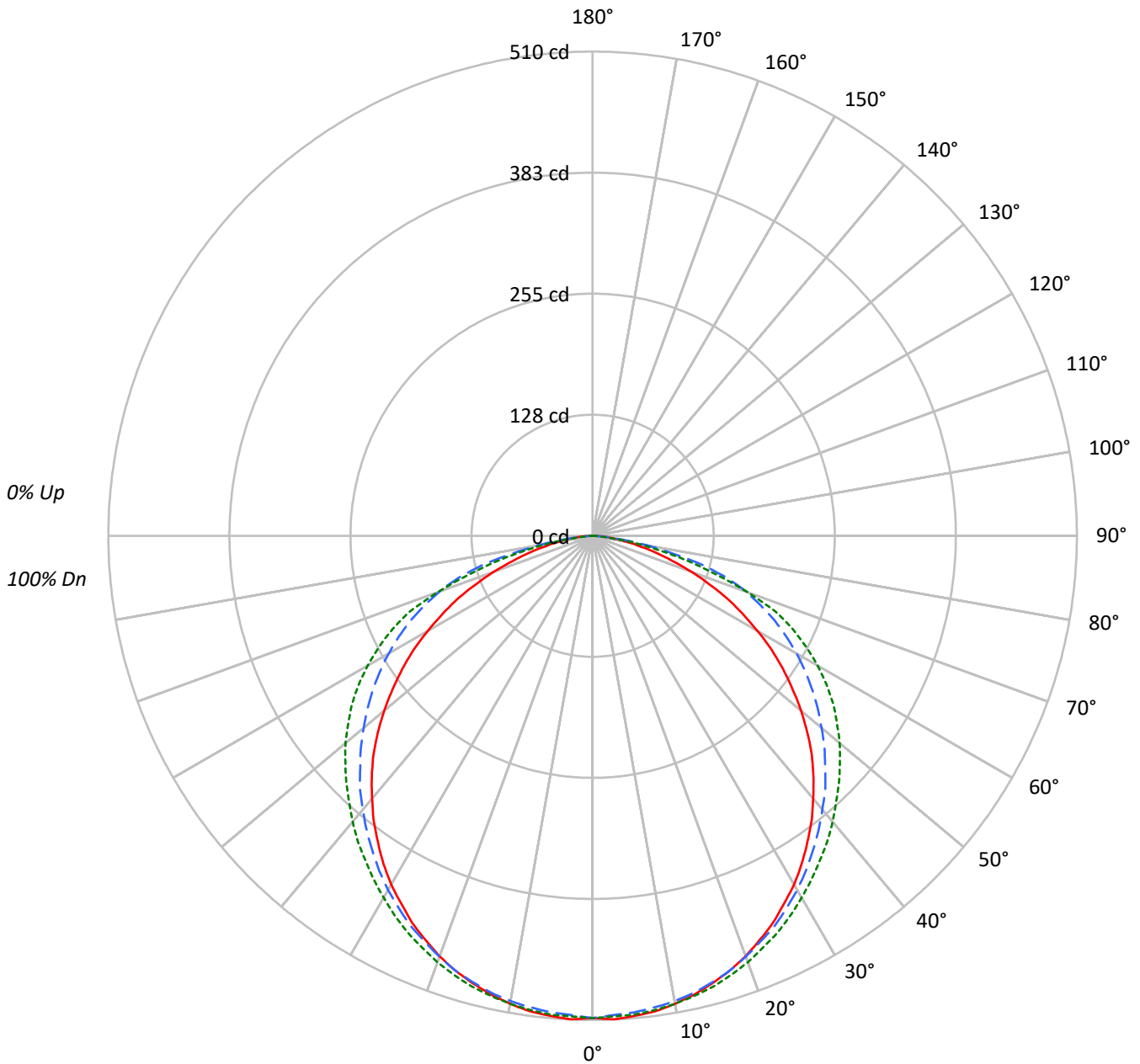
Lumens per Lamp: N/A
Luminaire Lumens: 1496.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1434	1434	1434
5°	1438	1427	1434
10°	1435	1427	1435
15°	1426	1423	1437
20°	1416	1417	1436
25°	1401	1412	1436
30°	1383	1404	1435
35°	1358	1394	1438
40°	1331	1387	1449
45°	1303	1382	1465
50°	1258	1382	1492
55°	1204	1389	1523
60°	1131	1399	1543
65°	1043	1414	1552
70°	909	1417	1429
75°	749	1320	1154
80°	588	948	772
85°	460	366	181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.2
10°-20°	138.0	9.2
20°-30°	209.6	14.0
30°-40°	254.0	17.0
40°-50°	267.6	17.9
50°-60°	249.8	16.7
60°-70°	199.7	13.3
70°-80°	109.9	7.3
80°-90°	19.4	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°	395.7	26.4
0°-40°	649.7	43.4
0°-60°	1167.1	78.0
0°-90°	1496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	508	506	504	507	506	48
15°	488	488	487	492	492	138
25°	450	451	454	460	461	207
35°	394	398	404	415	417	247
45°	326	333	346	362	367	251
55°	245	257	282	302	310	218
65°	156	176	212	229	232	154
75°	69	98	121	109	106	74
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°	508.0	508.0	508.0	508.0	508.0
2.5°	509.9	508.5	505.3	508.0	506.7
5°	507.6	506.2	503.8	507.2	506.2
7.5°	505.3	503.3	501.0	504.8	503.8
10°	500.5	499.1	497.8	501.0	500.5
12.5°	494.9	494.4	493.0	496.8	496.3
15°	487.9	487.9	486.9	491.6	491.6
17.5°	480.3	479.8	480.3	485.5	485.0
20°	471.3	471.3	471.8	478.0	478.0
22.5°	460.5	461.0	462.4	469.9	469.4
25°	449.8	450.6	453.5	460.0	461.0
27.5°	436.6	438.9	442.2	450.1	451.1
30°	424.3	425.7	430.8	438.5	440.2
32.5°	409.8	412.5	418.2	426.7	429.1
35°	394.2	398.0	404.5	414.9	417.3
37.5°	378.7	382.0	391.0	401.7	406.0
40°	361.3	366.9	376.3	388.6	393.2
42.5°	344.3	350.0	362.7	375.4	379.7
45°	326.4	332.6	346.2	361.8	366.9
47.5°	306.7	313.8	331.2	347.6	353.2
50°	286.4	295.4	314.7	333.1	339.7
52.5°	265.4	276.6	298.7	318.0	324.2
55°	244.6	256.8	282.3	302.0	309.5
57.5°	223.5	236.7	265.4	287.9	292.2
60°	200.4	216.4	247.9	267.6	273.3
62.5°	177.9	196.2	230.0	248.8	253.6
65°	156.2	176.0	211.7	229.1	232.4
67.5°	132.6	156.2	191.4	207.5	208.3
70°	110.1	137.4	171.7	179.2	173.1
72.5°	88.0	117.1	148.7	142.5	137.4
75°	68.7	98.3	121.0	108.7	105.8
77.5°	50.8	80.5	86.5	80.0	74.8
80°	36.2	63.5	58.3	49.9	47.5
82.5°	24.9	40.0	32.0	24.9	21.7
85°	14.2	17.9	11.3	7.0	5.6
87.5°	6.1	4.3	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)