

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: P732452

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732452
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-CP250-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

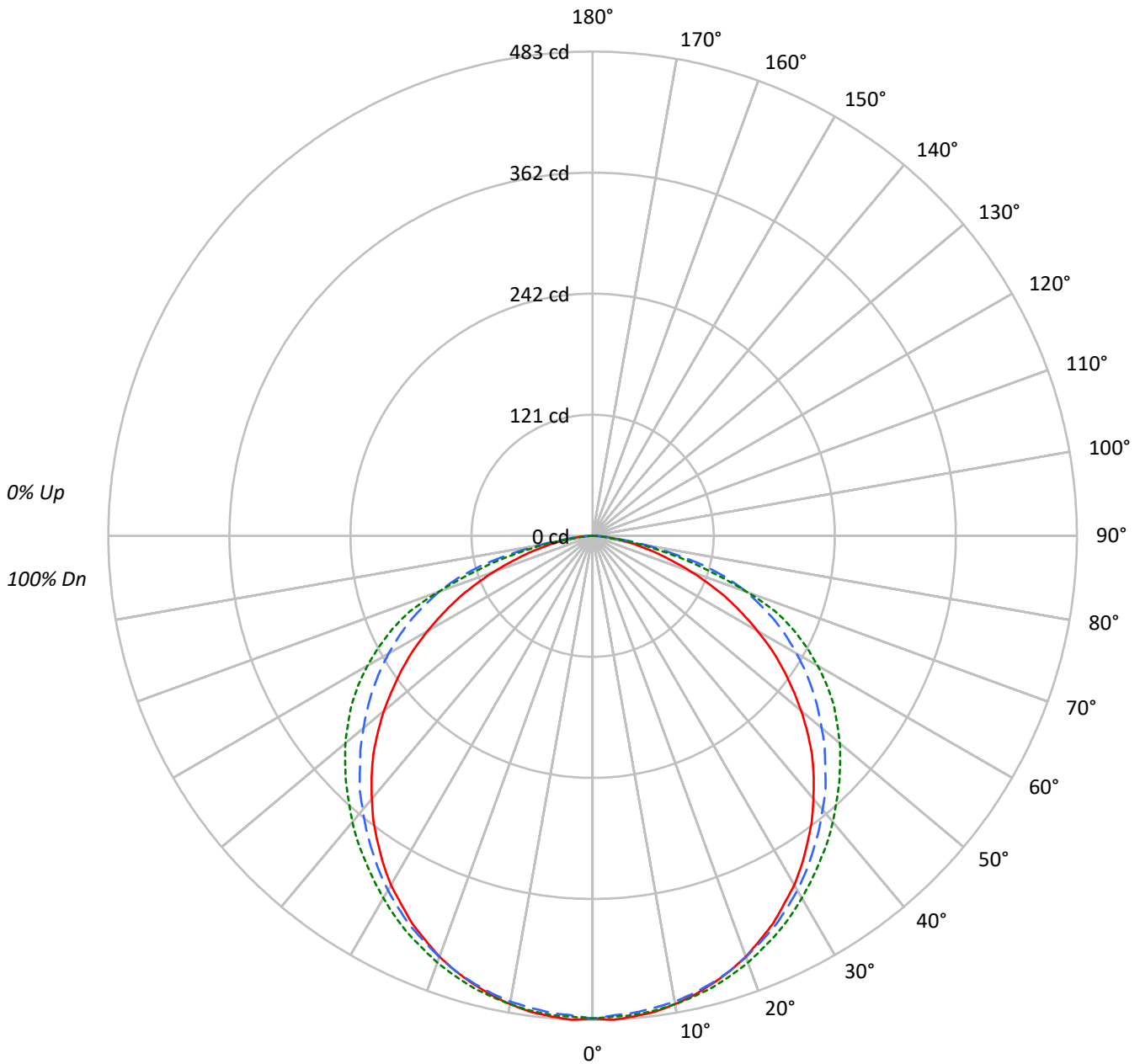
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1359	1359	1359
5°	1363	1353	1359
10°	1360	1352	1360
15°	1351	1349	1361
20°	1342	1343	1361
25°	1328	1339	1361
30°	1311	1331	1360
35°	1287	1321	1363
40°	1262	1314	1373
45°	1235	1310	1388
50°	1192	1309	1414
55°	1141	1317	1444
60°	1072	1326	1463
65°	989	1340	1471
70°	862	1343	1354
75°	710	1250	1094
80°	558	899	731
85°	434	347	172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.2
10°-20°	130.8	9.2
20°-30°	198.7	14.0
30°-40°	240.7	17.0
40°-50°	253.7	17.9
50°-60°	236.8	16.7
60°-70°	189.2	13.3
70°-80°	104.1	7.3
80°-90°	18.4	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°	375.1	26.5
0°-40°	615.8	43.4
0°-60°	1106.2	78.0
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	481	480	478	481	480	46
15°	462	462	462	466	466	131
25°	426	427	430	436	437	196
35°	374	377	383	393	396	234
45°	309	315	328	343	348	238
55°	232	243	268	286	293	207
65°	148	167	201	217	220	146
75°	65	93	115	103	100	70
85°	13	17	11	7	5	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.5	481.5	481.5	481.5	481.5
2.5°	483.3	482.0	478.9	481.5	480.3
5°	481.2	479.8	477.6	480.7	479.8
7.5°	478.9	477.1	474.8	478.5	477.6
10°	474.4	473.0	471.8	474.8	474.4
12.5°	469.1	468.6	467.3	470.9	470.4
15°	462.4	462.4	461.5	465.9	465.9
17.5°	455.2	454.8	455.2	460.2	459.7
20°	446.7	446.7	447.2	453.1	453.1
22.5°	436.5	436.9	438.3	445.4	444.9
25°	426.3	427.1	429.8	436.0	436.9
27.5°	413.8	416.1	419.1	426.7	427.6
30°	402.2	403.5	408.4	415.6	417.3
32.5°	388.4	391.0	396.4	404.4	406.7
35°	373.6	377.2	383.4	393.3	395.5
37.5°	359.0	362.1	370.6	380.7	384.8
40°	342.5	347.8	356.7	368.3	372.7
42.5°	326.3	331.8	343.8	355.8	359.9
45°	309.4	315.3	328.1	342.9	347.8
47.5°	290.7	297.5	313.9	329.5	334.8
50°	271.5	280.0	298.2	315.7	321.9
52.5°	251.5	262.1	283.1	301.4	307.3
55°	231.9	243.4	267.6	286.3	293.4
57.5°	211.8	224.3	251.5	272.9	276.9
60°	189.9	205.1	234.9	253.7	259.1
62.5°	168.6	186.0	218.0	235.8	240.4
65°	148.1	166.8	200.6	217.1	220.3
67.5°	125.7	148.1	181.5	196.7	197.5
70°	104.4	130.2	162.7	169.8	164.1
72.5°	83.4	111.0	140.9	135.1	130.2
75°	65.1	93.2	114.6	103.0	100.3
77.5°	48.2	76.3	82.0	75.8	70.9
80°	34.3	60.1	55.3	47.3	45.0
82.5°	23.6	37.9	30.4	23.6	20.5
85°	13.4	16.9	10.7	6.7	5.3
87.5°	5.8	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)