

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: P732455

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732455  
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-CP250-5000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND HRP LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

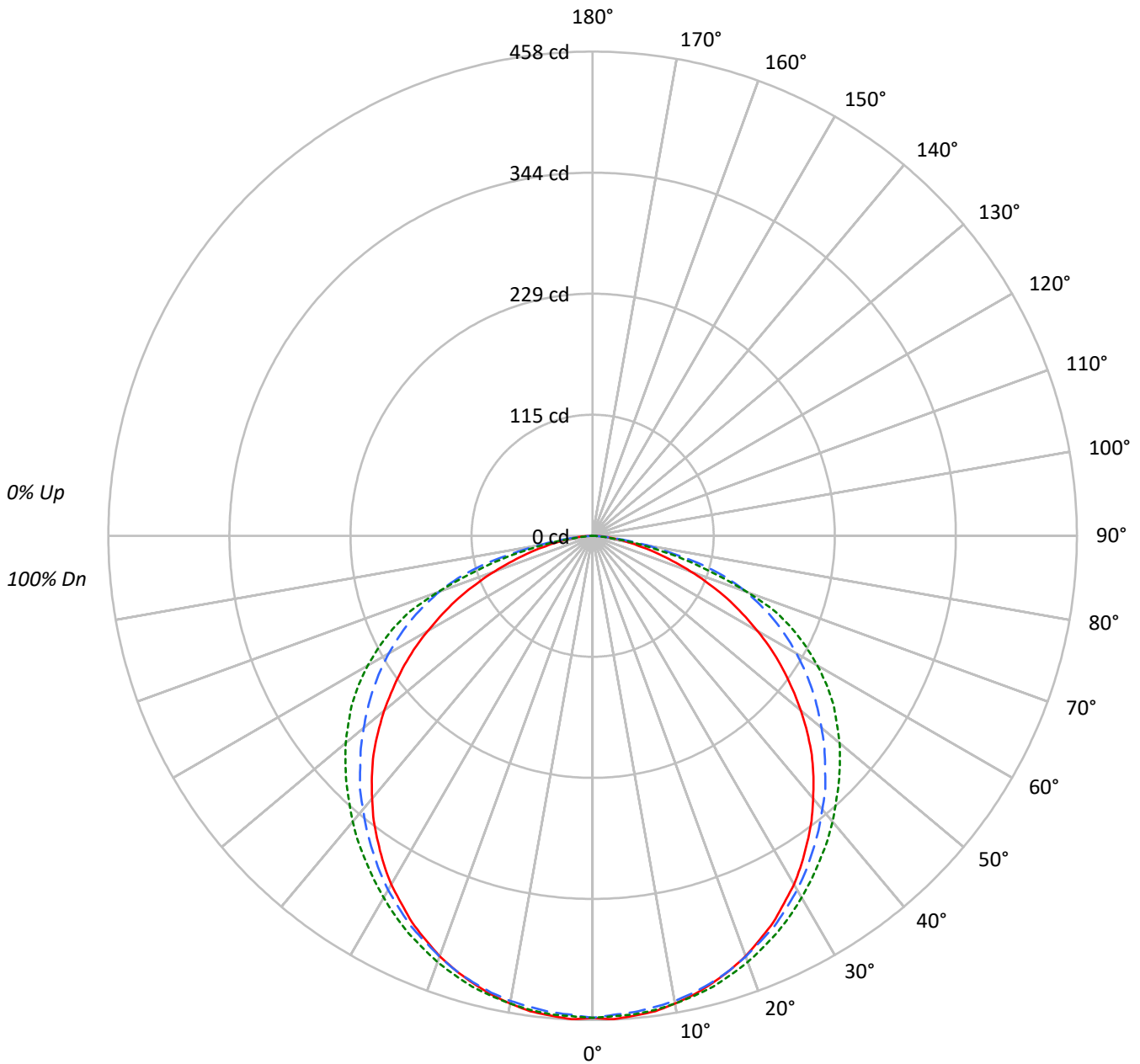
Lumens per Lamp: N/A  
Luminaire Lumens: 1343.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1287	1287	1287
5°	1291	1282	1288
10°	1288	1281	1288
15°	1280	1277	1290
20°	1271	1272	1289
25°	1258	1268	1289
30°	1241	1261	1288
35°	1219	1252	1291
40°	1195	1245	1301
45°	1170	1241	1315
50°	1129	1241	1339
55°	1081	1247	1368
60°	1016	1256	1385
65°	936	1269	1393
70°	816	1272	1283
75°	673	1184	1036
80°	528	852	692
85°	411	330	162



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.2	3.2
10°-20°	123.9	9.2
20°-30°	188.1	14.0
30°-40°	228.0	17.0
40°-50°	240.2	17.9
50°-60°	224.3	16.7
60°-70°	179.2	13.3
70°-80°	98.6	7.3
80°-90°	17.4	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°	355.2	26.4
0°-40°	583.2	43.4
0°-60°	1047.7	78.0
0°-90°	1343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	452	455	454	43
15°	438	438	437	441	441	124
25°	404	404	407	413	414	186
35°	354	357	363	372	375	221
45°	293	299	311	325	329	225
55°	220	230	253	271	278	196
65°	140	158	190	206	209	138
75°	62	88	109	98	95	66
85°	13	16	10	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	456.0	456.0	456.0	456.0	456.0
2.5°	457.7	456.5	453.6	456.0	454.9
5°	455.7	454.4	452.3	455.3	454.4
7.5°	453.6	451.9	449.7	453.2	452.3
10°	449.3	448.0	446.8	449.7	449.3
12.5°	444.3	443.9	442.6	446.0	445.6
15°	438.0	438.0	437.1	441.3	441.3
17.5°	431.1	430.7	431.1	435.8	435.4
20°	423.1	423.1	423.5	429.1	429.1
22.5°	413.4	413.8	415.1	421.8	421.4
25°	403.8	404.5	407.1	413.0	413.8
27.5°	391.9	394.0	396.9	404.1	404.9
30°	380.9	382.2	386.8	393.6	395.2
32.5°	367.9	370.3	375.5	383.0	385.2
35°	353.9	357.3	363.2	372.5	374.6
37.5°	340.0	343.0	351.0	360.6	364.4
40°	324.4	329.4	337.8	348.8	353.0
42.5°	309.1	314.2	325.6	337.0	340.8
45°	293.1	298.6	310.8	324.8	329.4
47.5°	275.3	281.7	297.3	312.1	317.1
50°	257.1	265.2	282.5	299.0	304.9
52.5°	238.2	248.3	268.1	285.5	291.0
55°	219.6	230.5	253.4	271.1	277.9
57.5°	200.6	212.5	238.2	258.4	262.3
60°	179.9	194.3	222.5	240.3	245.4
62.5°	159.7	176.1	206.5	223.4	227.6
65°	140.2	158.0	190.0	205.6	208.6
67.5°	119.1	140.2	171.9	186.3	187.0
70°	98.9	123.3	154.1	160.8	155.4
72.5°	79.0	105.2	133.5	127.9	123.3
75°	61.7	88.3	108.6	97.6	95.0
77.5°	45.6	72.2	77.7	71.8	67.1
80°	32.5	57.0	52.4	44.8	42.6
82.5°	22.3	35.9	28.7	22.3	19.5
85°	12.7	16.0	10.2	6.3	5.0
87.5°	5.5	3.8	2.1	1.7	1.7
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)