

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: P732462

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-RDP-B2750-W2D-CA08-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

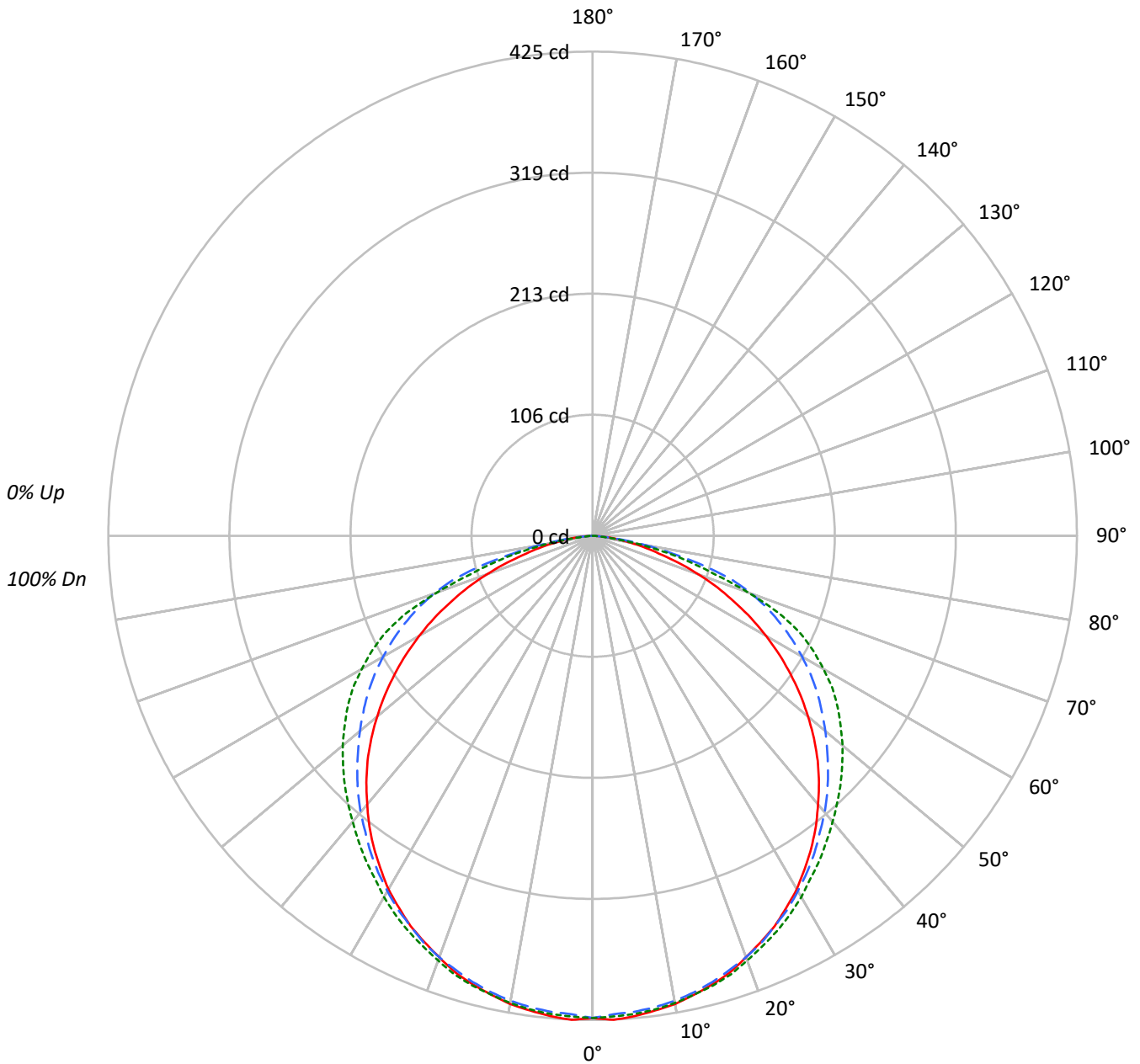
Lumens per Lamp: N/A  
Luminaire Lumens: 1264.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732462

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CA08-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732462

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CA08-3000K

**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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1195	1195	1195
5°	1199	1188	1194
10°	1196	1188	1194
15°	1191	1185	1194
20°	1183	1183	1192
25°	1177	1177	1192
30°	1168	1174	1193
35°	1153	1170	1197
40°	1134	1167	1207
45°	1115	1166	1229
50°	1084	1170	1257
55°	1044	1185	1292
60°	991	1198	1320
65°	916	1213	1338
70°	815	1222	1197
75°	657	1097	958
80°	514	770	626
85°	353	223	162



TEST NUMBER: P732462

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CA08-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	3.2
10°-20°	115.0	9.1
20°-30°	175.1	13.8
30°-40°	213.2	16.9
40°-50°	226.2	17.9
50°-60°	213.5	16.9
60°-70°	172.4	13.6
70°-80°	93.5	7.4
80°-90°	15.1	1.2
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°	330.1	26.1
0°-40°	543.3	43.0
0°-60°	983.0	77.8
0°-90°	1264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	423	422	419	422	421	40
15°	408	406	406	409	409	115
25°	378	377	378	382	383	174
35°	335	336	340	346	347	209
45°	279	283	292	303	308	215
55°	212	221	241	256	262	190
65°	137	154	182	196	200	136
75°	60	88	101	91	88	66
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



TEST NUMBER: P732462

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CA08-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	423.3	423.3	423.3	423.3	423.3
2.5°	425.3	423.3	420.3	423.3	422.4
5°	423.3	422.4	419.4	422.4	421.4
7.5°	420.3	420.3	417.4	419.4	419.4
10°	417.4	416.5	414.5	417.4	416.5
12.5°	412.5	411.5	410.5	413.4	412.5
15°	407.5	406.5	405.6	408.6	408.6
17.5°	401.6	400.6	399.6	403.6	403.6
20°	393.7	393.7	393.7	397.7	396.7
22.5°	385.9	385.9	386.8	390.8	389.8
25°	378.0	377.0	378.0	381.9	382.8
27.5°	368.1	369.0	370.0	374.0	375.0
30°	358.3	359.2	360.2	365.2	366.1
32.5°	346.4	348.4	350.3	356.2	356.2
35°	334.6	336.5	339.5	346.4	347.4
37.5°	321.7	323.7	327.7	335.5	337.5
40°	307.8	310.9	316.8	324.6	327.7
42.5°	294.0	298.0	304.9	313.8	317.8
45°	279.3	283.2	292.1	303.0	307.8
47.5°	263.4	268.4	279.3	293.1	297.1
50°	246.8	253.6	266.5	281.2	286.2
52.5°	229.9	237.8	253.6	269.4	274.3
55°	212.2	221.0	240.8	256.5	262.5
57.5°	194.4	204.3	226.9	243.7	249.7
60°	175.6	187.5	212.2	229.0	233.9
62.5°	156.9	170.7	197.4	214.1	218.1
65°	137.2	154.0	181.6	196.4	200.3
67.5°	118.4	138.1	165.8	176.6	176.6
70°	98.7	120.4	148.1	151.0	145.0
72.5°	79.0	103.7	128.3	117.4	112.5
75°	60.2	87.8	100.6	90.8	87.8
77.5°	45.4	71.0	71.0	65.1	63.1
80°	31.6	54.3	47.4	41.5	38.5
82.5°	20.7	30.6	24.7	19.7	16.8
85°	10.9	11.9	6.9	5.9	5.0
87.5°	4.0	1.9	1.0	1.9	1.0
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)