

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: P732471

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732471  
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-CP187-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

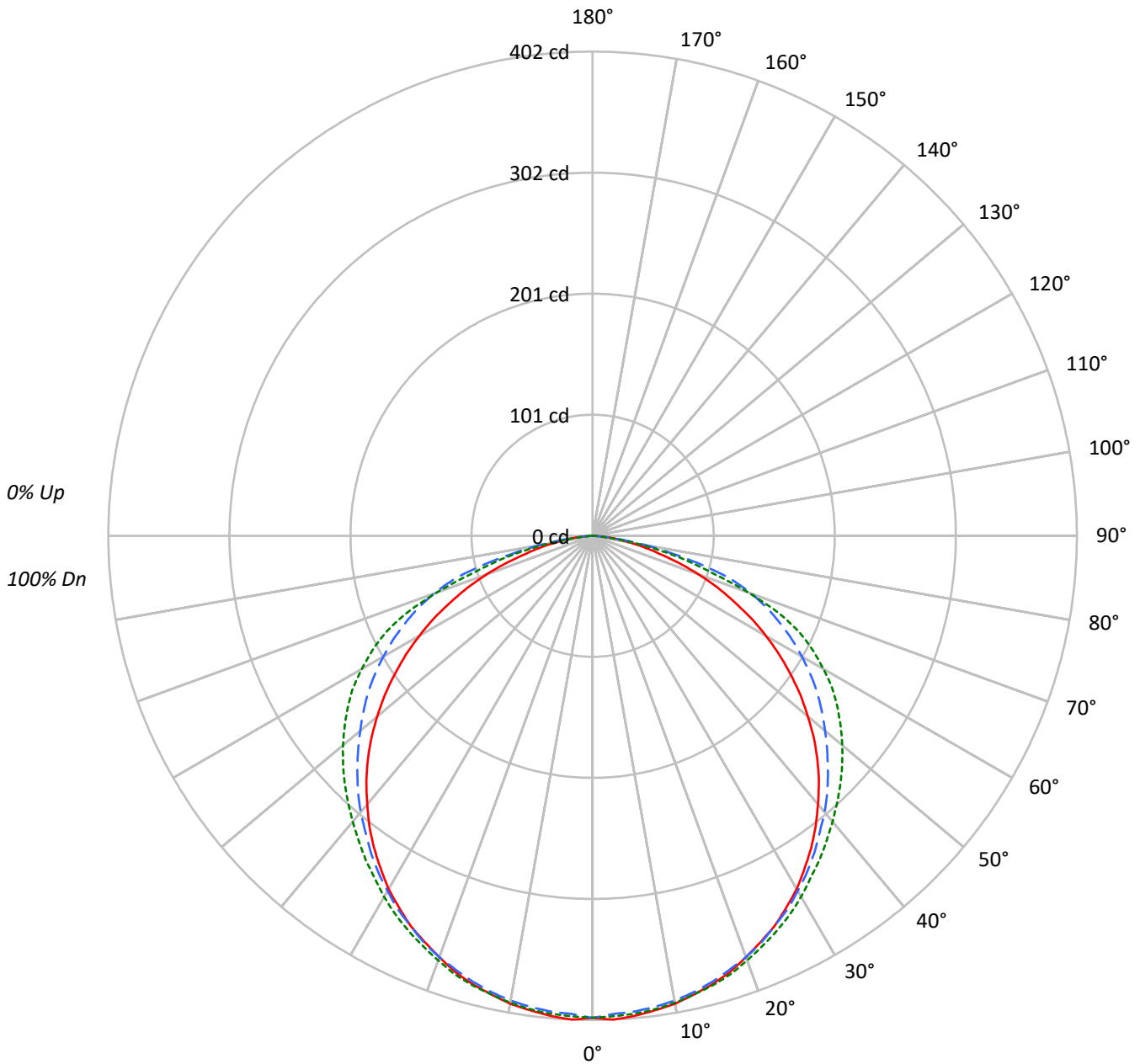
Lumens per Lamp: N/A  
Luminaire Lumens: 1195.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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	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°	1130	1130	1130
5°	1134	1123	1129
10°	1131	1123	1128
15°	1126	1120	1129
20°	1118	1118	1127
25°	1113	1113	1127
30°	1104	1110	1128
35°	1090	1106	1132
40°	1072	1104	1142
45°	1054	1103	1162
50°	1024	1106	1188
55°	987	1121	1221
60°	937	1132	1249
65°	866	1146	1265
70°	770	1155	1131
75°	621	1037	905
80°	484	728	592
85°	334	211	152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.9	3.2
10°-20°	108.7	9.1
20°-30°	165.5	13.8
30°-40°	201.6	16.9
40°-50°	213.9	17.9
50°-60°	201.8	16.9
60°-70°	163.0	13.6
70°-80°	88.4	7.4
80°-90°	14.3	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°	312.1	26.1
0°-40°	513.6	43.0
0°-60°	929.3	77.8
0°-90°	1195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1195.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	400	399	396	399	398	38
15°	385	384	383	386	386	109
25°	357	356	357	361	362	165
35°	316	318	321	328	328	198
45°	264	268	276	286	291	203
55°	201	209	228	242	248	179
65°	130	146	172	186	189	128
75°	57	83	95	86	83	62
85°	10	11	6	6	5	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	400.2	400.2	400.2	400.2	400.2
2.5°	402.1	400.2	397.4	400.2	399.3
5°	400.2	399.3	396.5	399.3	398.4
7.5°	397.4	397.4	394.6	396.5	396.5
10°	394.6	393.7	391.9	394.6	393.7
12.5°	389.9	389.0	388.1	390.9	389.9
15°	385.3	384.3	383.4	386.3	386.3
17.5°	379.7	378.7	377.8	381.6	381.6
20°	372.2	372.2	372.2	376.0	375.1
22.5°	364.8	364.8	365.7	369.5	368.6
25°	357.4	356.4	357.4	361.0	361.9
27.5°	348.0	348.9	349.8	353.6	354.5
30°	338.7	339.6	340.5	345.2	346.2
32.5°	327.5	329.3	331.2	336.8	336.8
35°	316.3	318.1	321.0	327.5	328.4
37.5°	304.2	306.0	309.8	317.2	319.0
40°	291.0	293.9	299.5	306.9	309.8
42.5°	278.0	281.8	288.3	296.6	300.4
45°	264.0	267.7	276.2	286.5	291.0
47.5°	249.1	253.8	264.0	277.1	280.9
50°	233.3	239.8	251.9	265.9	270.6
52.5°	217.4	224.8	239.8	254.7	259.4
55°	200.6	208.9	227.7	242.5	248.1
57.5°	183.8	193.1	214.5	230.4	236.0
60°	166.0	177.2	200.6	216.5	221.2
62.5°	148.3	161.4	186.6	202.4	206.2
65°	129.7	145.6	171.6	185.7	189.4
67.5°	112.0	130.6	156.8	167.0	167.0
70°	93.3	113.8	140.0	142.7	137.1
72.5°	74.7	98.0	121.3	111.0	106.3
75°	56.9	83.0	95.1	85.9	83.0
77.5°	42.9	67.1	67.1	61.5	59.7
80°	29.8	51.3	44.8	39.2	36.4
82.5°	19.6	28.9	23.3	18.6	15.9
85°	10.3	11.2	6.5	5.6	4.7
87.5°	3.8	1.8	0.9	1.8	0.9
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)