

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: P732474

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732474  
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-CP187-4000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

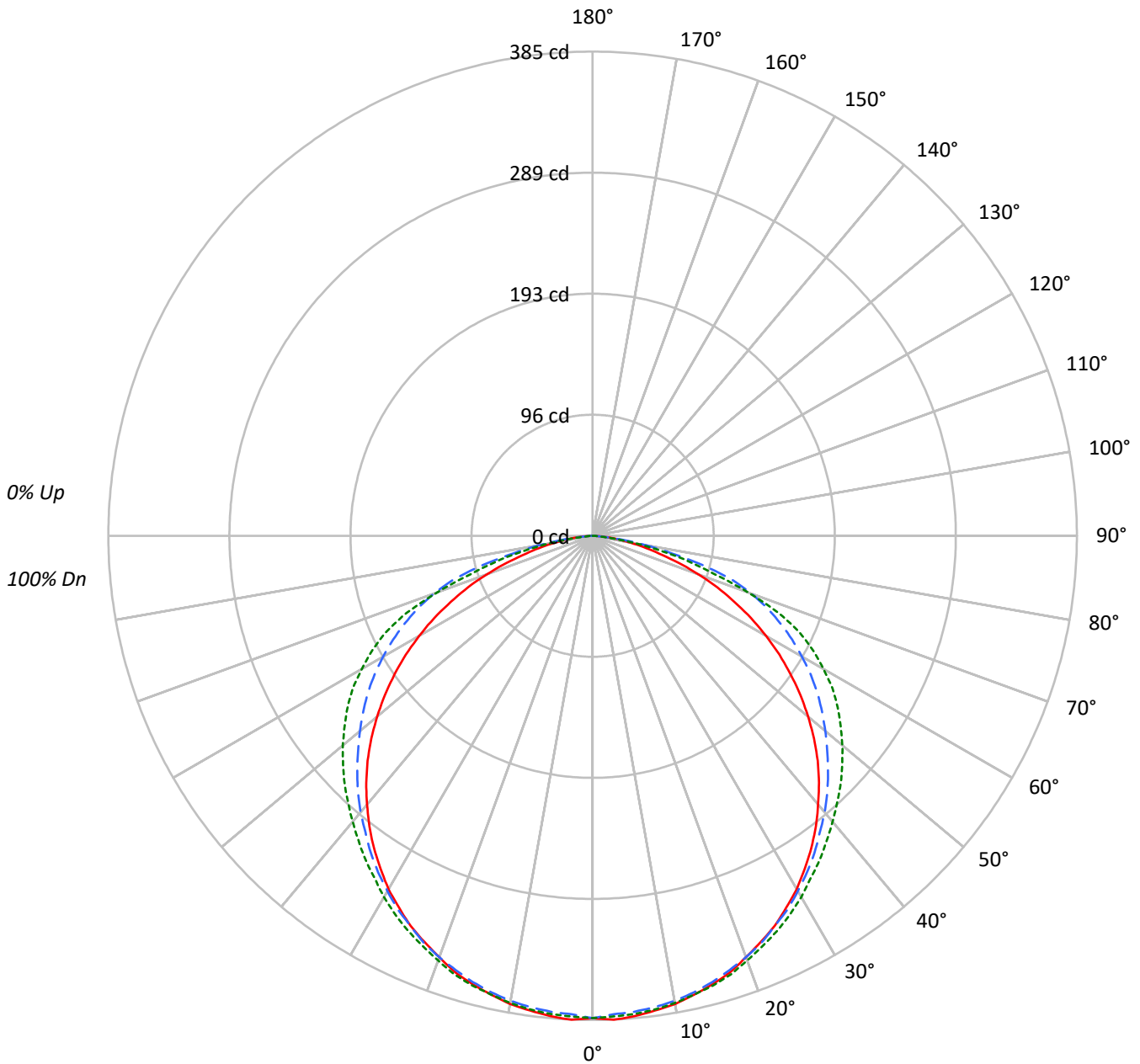
Lumens per Lamp: N/A  
Luminaire Lumens: 1145.0 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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°	1082	1082	1082
5°	1087	1076	1082
10°	1084	1076	1081
15°	1079	1074	1082
20°	1071	1071	1080
25°	1066	1066	1080
30°	1058	1064	1081
35°	1044	1060	1084
40°	1028	1058	1094
45°	1010	1056	1113
50°	981	1060	1138
55°	946	1074	1170
60°	898	1085	1196
65°	830	1099	1212
70°	738	1107	1084
75°	595	995	867
80°	465	699	566
85°	321	201	146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	3.2
10°-20°	104.1	9.1
20°-30°	158.6	13.8
30°-40°	193.2	16.9
40°-50°	204.9	17.9
50°-60°	193.4	16.9
60°-70°	156.1	13.6
70°-80°	84.7	7.4
80°-90°	13.7	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°	299.0	26.1
0°-40°	492.2	43.0
0°-60°	890.5	77.8
0°-90°	1145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	383	380	383	382	36
15°	369	368	367	370	370	104
25°	342	342	342	346	347	158
35°	303	305	308	314	315	189
45°	253	256	265	274	279	195
55°	192	200	218	232	238	172
65°	124	140	164	178	181	123
75°	55	80	91	82	80	60
85°	10	11	6	5	4	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	383.5	383.5	383.5	383.5	383.5
2.5°	385.2	383.5	380.8	383.5	382.6
5°	383.5	382.6	379.9	382.6	381.7
7.5°	380.8	380.8	378.1	379.9	379.9
10°	378.1	377.2	375.5	378.1	377.2
12.5°	373.6	372.8	371.9	374.5	373.6
15°	369.1	368.3	367.4	370.1	370.1
17.5°	363.8	362.9	362.0	365.6	365.6
20°	356.6	356.6	356.6	360.3	359.4
22.5°	349.5	349.5	350.4	354.0	353.1
25°	342.4	341.5	342.4	345.9	346.8
27.5°	333.4	334.3	335.2	338.8	339.7
30°	324.5	325.4	326.3	330.8	331.7
32.5°	313.8	315.6	317.3	322.7	322.7
35°	303.1	304.8	307.6	313.8	314.7
37.5°	291.5	293.2	296.8	303.9	305.7
40°	278.9	281.6	287.0	294.1	296.8
42.5°	266.4	270.0	276.2	284.2	287.8
45°	253.0	256.5	264.6	274.5	278.9
47.5°	238.6	243.1	253.0	265.5	269.1
50°	223.5	229.8	241.4	254.7	259.2
52.5°	208.3	215.4	229.8	244.0	248.5
55°	192.2	200.2	218.2	232.4	237.8
57.5°	176.1	185.1	205.6	220.8	226.2
60°	159.1	169.8	192.2	207.4	211.9
62.5°	142.1	154.6	178.8	193.9	197.6
65°	124.3	139.5	164.5	177.9	181.4
67.5°	107.3	125.1	150.2	160.0	160.0
70°	89.4	109.0	134.1	136.7	131.4
72.5°	71.5	93.9	116.3	106.4	101.9
75°	54.6	79.5	91.2	82.3	79.5
77.5°	41.1	64.3	64.3	58.9	57.2
80°	28.6	49.2	43.0	37.6	34.8
82.5°	18.7	27.7	22.4	17.9	15.2
85°	9.9	10.7	6.2	5.4	4.5
87.5°	3.6	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)