

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: P732483

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732483  
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-CP375-3500K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

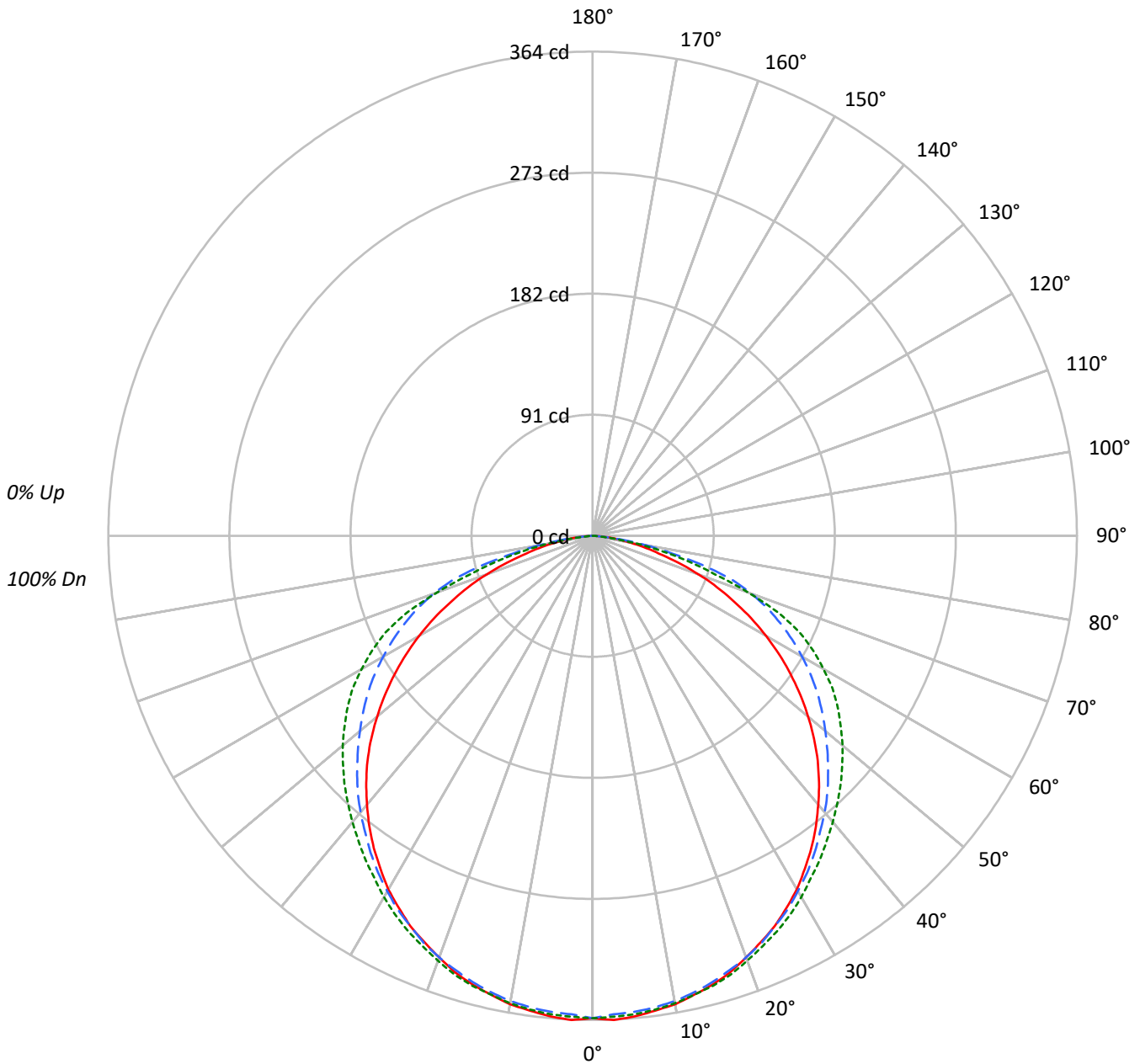
Lumens per Lamp: N/A  
Luminaire Lumens: 1083.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732483

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P732483

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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°	1024	1024	1024
5°	1028	1018	1023
10°	1025	1018	1023
15°	1020	1015	1023
20°	1013	1013	1021
25°	1009	1009	1022
30°	1001	1006	1022
35°	988	1002	1025
40°	972	1000	1035
45°	955	999	1053
50°	928	1003	1077
55°	895	1015	1107
60°	850	1026	1131
65°	785	1039	1146
70°	698	1047	1026
75°	563	940	820
80°	439	660	536
85°	301	191	136



TEST NUMBER: P732483

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	3.2
10°-20°	98.5	9.1
20°-30°	150.0	13.8
30°-40°	182.7	16.9
40°-50°	193.8	17.9
50°-60°	182.9	16.9
60°-70°	147.7	13.6
70°-80°	80.1	7.4
80°-90°	13.0	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°	282.8	26.1
0°-40°	465.5	43.0
0°-60°	842.2	77.8
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	363	363	363	363	363	
5°	363	362	359	362	361	34
15°	349	348	348	350	350	99
25°	324	323	324	327	328	149
35°	287	288	291	297	298	179
45°	239	243	250	260	264	184
55°	182	189	206	220	225	162
65°	118	132	156	168	172	116
75°	52	75	86	78	75	56
85°	9	10	6	5	4	12
90°	0	0	0	0	0	



TEST NUMBER: P732483

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	362.7	362.7	362.7	362.7	362.7
2.5°	364.4	362.7	360.1	362.7	361.9
5°	362.7	361.9	359.3	361.9	361.1
7.5°	360.1	360.1	357.6	359.3	359.3
10°	357.6	356.8	355.2	357.6	356.8
12.5°	353.4	352.6	351.7	354.2	353.4
15°	349.2	348.3	347.5	350.1	350.1
17.5°	344.1	343.2	342.4	345.8	345.8
20°	337.3	337.3	337.3	340.8	339.9
22.5°	330.6	330.6	331.4	334.8	334.0
25°	323.9	323.0	323.9	327.2	328.0
27.5°	315.4	316.2	317.0	320.4	321.3
30°	307.0	307.8	308.6	312.9	313.7
32.5°	296.8	298.5	300.1	305.2	305.2
35°	286.7	288.3	290.9	296.8	297.6
37.5°	275.7	277.3	280.8	287.5	289.1
40°	263.8	266.3	271.4	278.2	280.8
42.5°	251.9	255.4	261.3	268.8	272.3
45°	239.3	242.6	250.3	259.6	263.8
47.5°	225.7	230.0	239.3	251.1	254.5
50°	211.4	217.3	228.3	241.0	245.2
52.5°	197.0	203.7	217.3	230.8	235.0
55°	181.8	189.3	206.3	219.8	224.9
57.5°	166.5	175.0	194.4	208.8	213.9
60°	150.5	160.6	181.8	196.2	200.4
62.5°	134.4	146.2	169.1	183.4	186.9
65°	117.5	131.9	155.6	168.3	171.6
67.5°	101.5	118.4	142.1	151.3	151.3
70°	84.6	103.1	126.9	129.3	124.3
72.5°	67.7	88.8	110.0	100.6	96.4
75°	51.6	75.2	86.2	77.8	75.2
77.5°	38.9	60.8	60.8	55.8	54.1
80°	27.0	46.5	40.6	35.5	33.0
82.5°	17.7	26.2	21.1	16.9	14.4
85°	9.3	10.2	5.9	5.1	4.2
87.5°	3.4	1.7	0.8	1.7	0.8
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)