

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: P732470

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732470
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-CA125-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

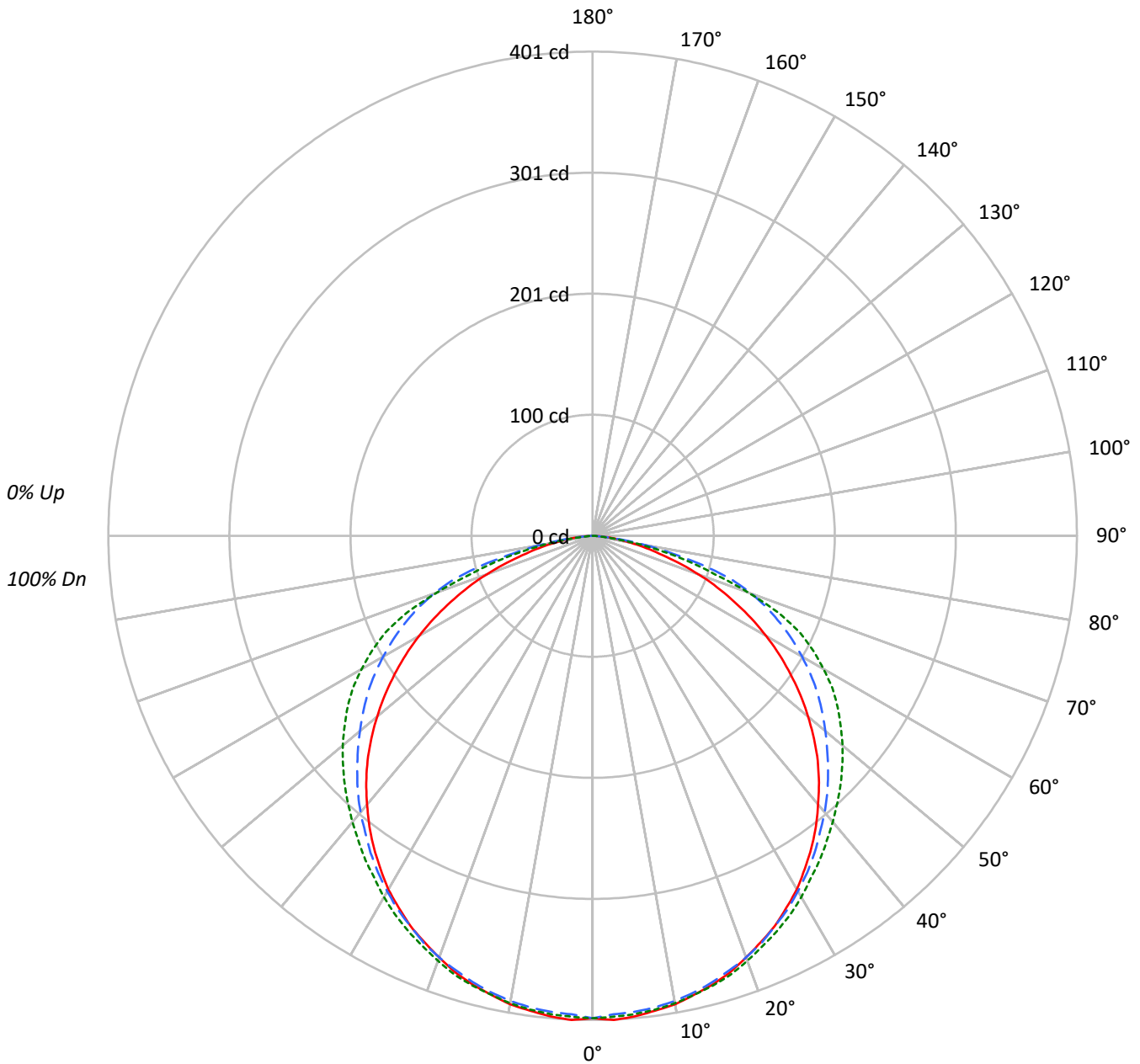
Lumens per Lamp: N/A
Luminaire Lumens: 1193.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{in}): 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: P732470

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CA125-5000K

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°	1128	1128	1128
5°	1132	1121	1127
10°	1129	1121	1127
15°	1124	1119	1127
20°	1116	1116	1125
25°	1111	1111	1125
30°	1102	1108	1126
35°	1088	1104	1130
40°	1070	1102	1140
45°	1052	1101	1160
50°	1023	1104	1186
55°	985	1119	1219
60°	936	1130	1246
65°	865	1145	1263
70°	769	1153	1130
75°	621	1036	904
80°	484	728	590
85°	334	211	152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	3.2
10°-20°	108.5	9.1
20°-30°	165.2	13.8
30°-40°	201.3	16.9
40°-50°	213.5	17.9
50°-60°	201.5	16.9
60°-70°	162.7	13.6
70°-80°	88.3	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°	311.5	26.1
0°-40°	512.8	43.0
0°-60°	927.8	77.8
0°-90°	1193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.0	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	360	361	164
35°	316	318	320	327	328	197
45°	264	267	276	286	290	203
55°	200	209	227	242	248	179
65°	130	145	171	185	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°	399.6	399.6	399.6	399.6	399.6
2.5°	401.4	399.6	396.7	399.6	398.7
5°	399.6	398.7	395.8	398.7	397.7
7.5°	396.7	396.7	394.0	395.8	395.8
10°	394.0	393.1	391.2	394.0	393.1
12.5°	389.3	388.4	387.5	390.2	389.3
15°	384.6	383.7	382.8	385.6	385.6
17.5°	379.0	378.1	377.2	381.0	381.0
20°	371.6	371.6	371.6	375.4	374.5
22.5°	364.2	364.2	365.1	368.9	367.9
25°	356.8	355.8	356.8	360.4	361.3
27.5°	347.4	348.3	349.2	353.0	353.9
30°	338.2	339.1	340.0	344.7	345.6
32.5°	327.0	328.8	330.6	336.2	336.2
35°	315.8	317.6	320.5	327.0	327.9
37.5°	303.7	305.5	309.3	316.7	318.5
40°	290.5	293.4	299.0	306.4	309.3
42.5°	277.5	281.3	287.8	296.1	299.9
45°	263.6	267.3	275.7	286.0	290.5
47.5°	248.6	253.3	263.6	276.6	280.4
50°	232.9	239.4	251.5	265.4	270.1
52.5°	217.0	224.4	239.4	254.2	258.9
55°	200.2	208.6	227.3	242.1	247.7
57.5°	183.5	192.8	214.2	230.0	235.6
60°	165.8	177.0	200.2	216.1	220.8
62.5°	148.1	161.1	186.3	202.1	205.8
65°	129.5	145.3	171.4	185.4	189.1
67.5°	111.8	130.4	156.5	166.7	166.7
70°	93.2	113.6	139.7	142.5	136.9
72.5°	74.5	97.8	121.1	110.9	106.2
75°	56.9	82.9	95.0	85.7	82.9
77.5°	42.8	67.0	67.0	61.4	59.6
80°	29.8	51.3	44.8	39.2	36.3
82.5°	19.5	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)