

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: P732473

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732473
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-CP187-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

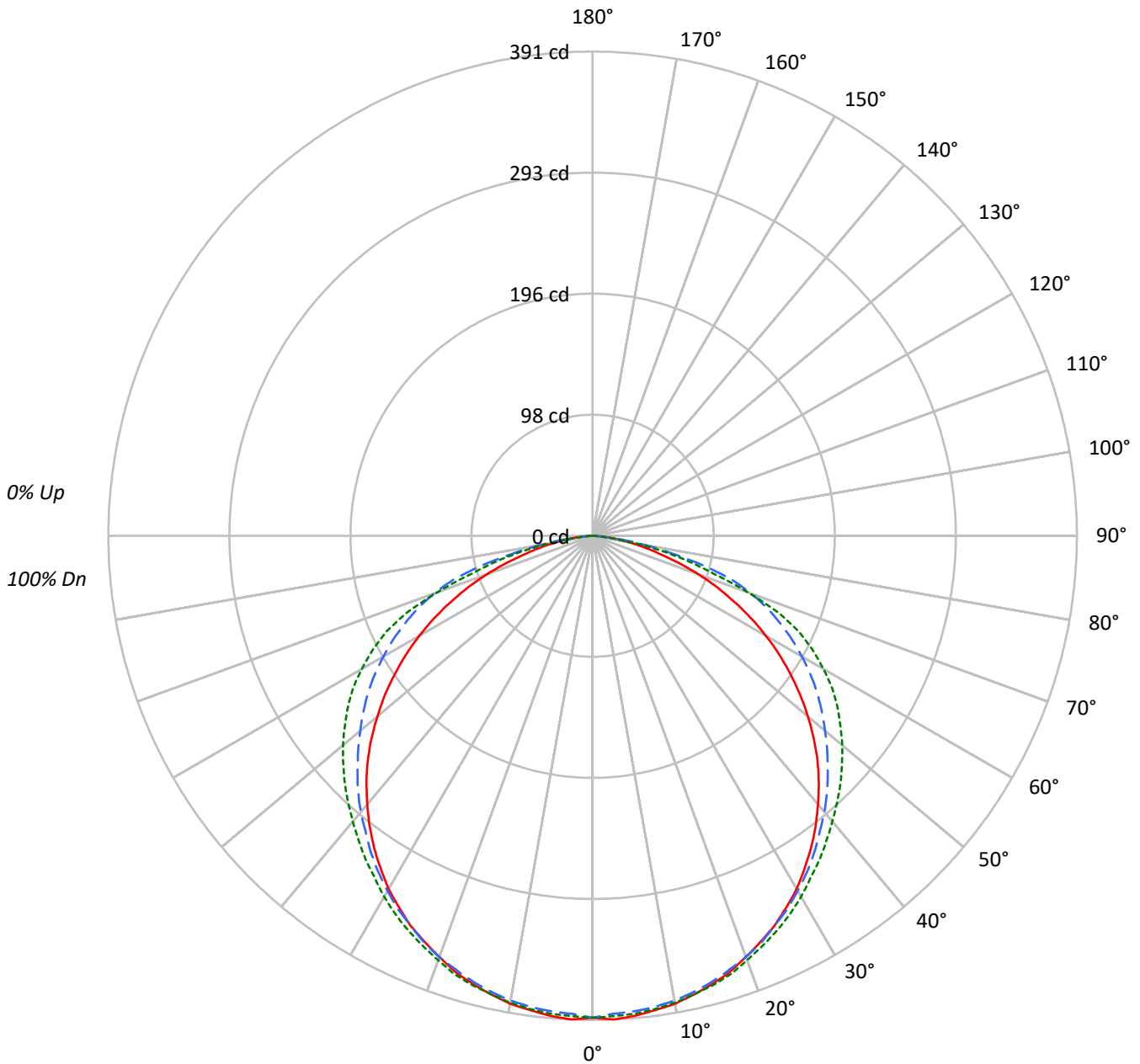
Lumens per Lamp: N/A
Luminaire Lumens: 1162.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{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: P732473

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP187-3500K

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°	1099	1099	1099
5°	1103	1092	1098
10°	1100	1092	1097
15°	1095	1089	1098
20°	1087	1087	1095
25°	1082	1082	1096
30°	1074	1079	1097
35°	1060	1075	1101
40°	1043	1073	1110
45°	1025	1072	1130
50°	996	1076	1155
55°	960	1090	1187
60°	912	1101	1214
65°	842	1115	1230
70°	749	1123	1100
75°	604	1009	880
80°	471	709	575
85°	324	204	149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	3.2
10°-20°	105.7	9.1
20°-30°	160.9	13.8
30°-40°	196.0	16.9
40°-50°	207.9	17.9
50°-60°	196.3	16.9
60°-70°	158.5	13.6
70°-80°	86.0	7.4
80°-90°	13.9	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°	303.4	26.1
0°-40°	499.5	43.0
0°-60°	903.7	77.8
0°-90°	1162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	389	388	386	388	387	37
15°	375	374	373	376	376	106
25°	348	347	348	351	352	160
35°	308	309	312	318	319	192
45°	257	260	268	278	283	198
55°	195	203	221	236	241	174
65°	126	142	167	181	184	125
75°	55	81	92	84	81	60
85°	10	11	6	5	5	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	389.2	389.2	389.2	389.2	389.2
2.5°	391.0	389.2	386.4	389.2	388.3
5°	389.2	388.3	385.5	388.3	387.4
7.5°	386.4	386.4	383.7	385.5	385.5
10°	383.7	382.8	381.1	383.7	382.8
12.5°	379.2	378.3	377.4	380.1	379.2
15°	374.6	373.7	372.8	375.6	375.6
17.5°	369.2	368.3	367.4	371.1	371.1
20°	361.9	361.9	361.9	365.6	364.7
22.5°	354.7	354.7	355.6	359.3	358.4
25°	347.5	346.6	347.5	351.0	351.9
27.5°	338.4	339.3	340.1	343.8	344.7
30°	329.4	330.3	331.1	335.7	336.6
32.5°	318.5	320.2	322.0	327.5	327.5
35°	307.6	309.3	312.1	318.5	319.4
37.5°	295.8	297.6	301.2	308.5	310.2
40°	283.0	285.8	291.2	298.5	301.2
42.5°	270.3	274.0	280.3	288.4	292.1
45°	256.8	260.3	268.5	278.5	283.0
47.5°	242.2	246.7	256.8	269.4	273.1
50°	226.8	233.2	245.0	258.5	263.1
52.5°	211.4	218.6	233.2	247.6	252.2
55°	195.0	203.2	221.4	235.8	241.3
57.5°	178.7	187.8	208.6	224.1	229.5
60°	161.5	172.4	195.0	210.5	215.1
62.5°	144.2	156.9	181.5	196.8	200.5
65°	126.1	141.6	166.9	180.6	184.1
67.5°	108.9	127.0	152.5	162.3	162.3
70°	90.7	110.6	136.1	138.8	133.3
72.5°	72.6	95.3	118.0	108.0	103.4
75°	55.4	80.7	92.5	83.5	80.7
77.5°	41.7	65.3	65.3	59.8	58.0
80°	29.0	49.9	43.6	38.1	35.4
82.5°	19.0	28.1	22.7	18.1	15.5
85°	10.0	10.9	6.3	5.4	4.6
87.5°	3.7	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)