

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: P732481

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732481
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-CP375-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

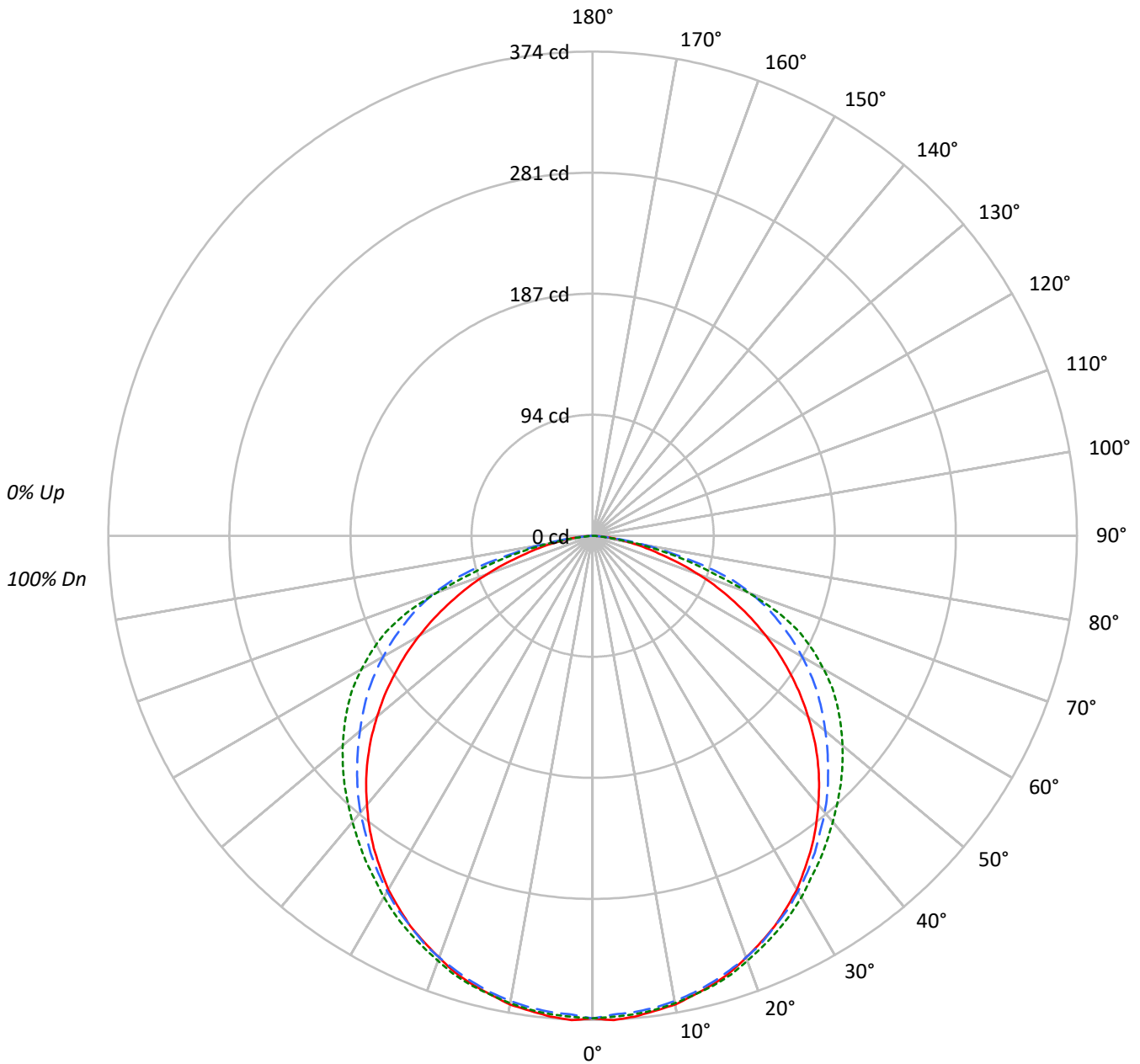
Lumens per Lamp: N/A
Luminaire Lumens: 1113.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1052	1052	1052
5°	1056	1046	1051
10°	1054	1046	1051
15°	1049	1044	1051
20°	1041	1041	1049
25°	1036	1036	1050
30°	1028	1034	1051
35°	1015	1030	1054
40°	999	1028	1063
45°	982	1027	1082
50°	954	1030	1107
55°	919	1044	1137
60°	873	1055	1163
65°	807	1068	1178
70°	717	1076	1054
75°	578	966	843
80°	452	679	551
85°	311	198	143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	3.2
10°-20°	101.2	9.1
20°-30°	154.1	13.8
30°-40°	187.7	16.9
40°-50°	199.2	17.9
50°-60°	188.0	16.9
60°-70°	151.8	13.6
70°-80°	82.3	7.4
80°-90°	13.3	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°	290.7	26.1
0°-40°	478.4	43.0
0°-60°	865.6	77.8
0°-90°	1113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	372	369	372	371	35
15°	359	358	357	360	360	101
25°	333	332	333	336	337	153
35°	295	296	299	305	306	184
45°	246	249	257	267	271	189
55°	187	195	212	226	231	167
65°	121	136	160	173	176	120
75°	53	77	89	80	77	58
85°	10	10	6	5	4	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	372.8	372.8	372.8	372.8	372.8
2.5°	374.5	372.8	370.1	372.8	371.9
5°	372.8	371.9	369.3	371.9	371.1
7.5°	370.1	370.1	367.6	369.3	369.3
10°	367.6	366.7	365.0	367.6	366.7
12.5°	363.2	362.3	361.5	364.0	363.2
15°	358.8	358.0	357.1	359.8	359.8
17.5°	353.6	352.8	351.9	355.4	355.4
20°	346.7	346.7	346.7	350.2	349.3
22.5°	339.8	339.8	340.6	344.1	343.3
25°	332.8	332.0	332.8	336.2	337.1
27.5°	324.1	325.0	325.8	329.3	330.2
30°	315.5	316.3	317.2	321.5	322.4
32.5°	305.0	306.7	308.4	313.7	313.7
35°	294.6	296.3	299.0	305.0	305.9
37.5°	283.3	285.0	288.5	295.5	297.2
40°	271.1	273.7	278.9	285.9	288.5
42.5°	258.9	262.4	268.5	276.3	279.8
45°	245.9	249.3	257.2	266.8	271.1
47.5°	232.0	236.3	245.9	258.1	261.6
50°	217.3	223.3	234.6	247.6	252.0
52.5°	202.5	209.4	223.3	237.2	241.6
55°	186.8	194.6	212.1	225.9	231.1
57.5°	171.2	179.9	199.8	214.6	219.8
60°	154.6	165.1	186.8	201.6	206.0
62.5°	138.1	150.3	173.8	188.5	192.0
65°	120.8	135.6	159.9	173.0	176.4
67.5°	104.3	121.6	146.0	155.5	155.5
70°	86.9	106.0	130.4	132.9	127.7
72.5°	69.5	91.3	113.0	103.4	99.1
75°	53.0	77.3	88.6	80.0	77.3
77.5°	39.9	62.5	62.5	57.3	55.6
80°	27.8	47.8	41.8	36.5	33.9
82.5°	18.2	26.9	21.7	17.4	14.8
85°	9.6	10.4	6.1	5.2	4.4
87.5°	3.5	1.7	0.9	1.7	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)