

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: P732510

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-S-B2750-W2D-CP375-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

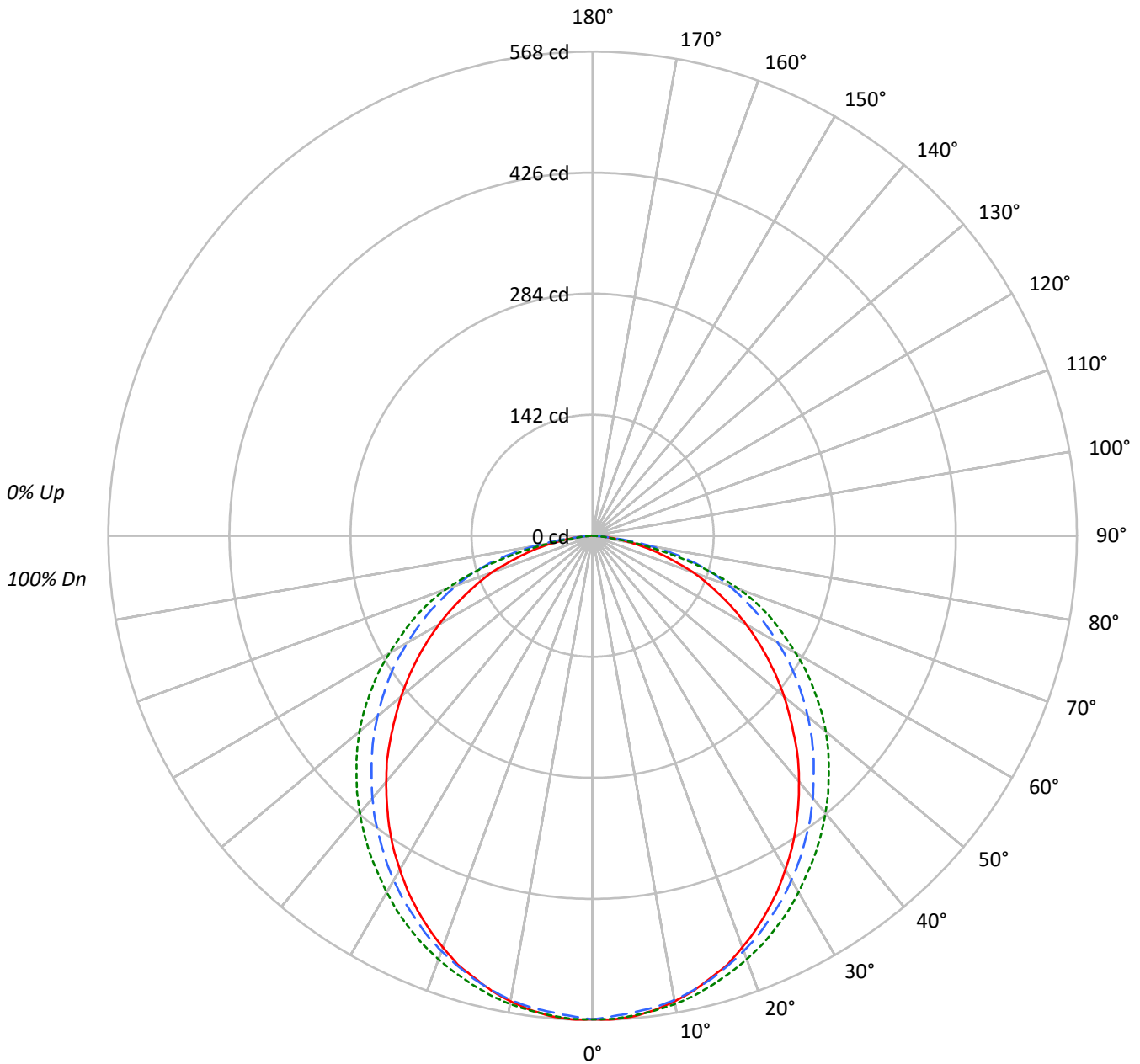
Lumens per Lamp: N/A
Luminaire Lumens: 1589.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1601	1601	1601
5°	1603	1590	1600
10°	1590	1585	1599
15°	1568	1572	1593
20°	1543	1557	1588
25°	1511	1539	1583
30°	1474	1520	1574
35°	1433	1499	1569
40°	1388	1481	1565
45°	1336	1463	1563
50°	1287	1446	1567
55°	1233	1435	1562
60°	1174	1414	1552
65°	1105	1410	1553
70°	1041	1398	1508
75°	902	1367	1289
80°	730	1102	858
85°	486	382	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.4
10°-20°	152.4	9.6
20°-30°	228.6	14.4
30°-40°	272.7	17.2
40°-50°	282.0	17.7
50°-60°	257.4	16.2
60°-70°	202.6	12.7
70°-80°	117.9	7.4
80°-90°	21.7	1.4
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°	434.6	27.4
0°-40°	707.4	44.5
0°-60°	1246.8	78.5
0°-90°	1589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	566	564	561	566	565	54
15°	537	537	538	545	545	151
25°	485	488	494	506	508	223
35°	416	422	435	451	455	260
45°	335	346	366	387	392	259
55°	250	264	292	313	318	224
65°	166	183	211	228	232	164
75°	83	102	125	123	118	88
85°	15	21	12	10	8	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.3	567.3	567.3	567.3	567.3
2.5°	568.0	566.5	564.1	568.0	567.3
5°	565.7	564.1	561.0	565.7	564.8
7.5°	561.0	559.3	557.8	562.5	561.7
10°	554.6	553.8	553.1	558.6	557.8
12.5°	546.8	546.8	546.0	552.3	552.3
15°	536.6	537.3	538.1	545.1	545.1
17.5°	527.1	526.3	528.6	536.6	537.3
20°	513.7	515.2	518.4	527.9	528.6
22.5°	500.3	501.9	507.4	516.9	519.2
25°	485.3	487.7	494.0	505.8	508.2
27.5°	469.6	472.7	481.3	494.0	496.3
30°	452.2	456.9	466.4	480.6	483.0
32.5°	434.9	439.6	451.4	465.6	468.8
35°	416.0	421.5	434.9	451.4	455.4
37.5°	396.3	403.3	419.2	435.7	440.4
40°	376.6	384.5	401.8	419.2	424.7
42.5°	356.9	364.8	383.6	403.3	408.9
45°	334.8	345.9	366.4	386.8	391.6
47.5°	313.6	325.4	348.2	368.7	375.0
50°	293.1	304.9	329.3	350.6	356.9
52.5°	271.8	284.4	310.4	332.5	338.0
55°	250.5	263.9	291.5	312.8	317.5
57.5°	229.3	243.5	271.8	292.3	297.8
60°	208.0	223.0	250.5	271.0	274.9
62.5°	186.7	202.4	230.8	249.0	252.9
65°	165.5	182.7	211.1	227.7	232.5
67.5°	145.0	162.3	189.9	205.6	209.6
70°	126.1	141.8	169.4	181.2	182.7
72.5°	102.4	122.1	148.9	155.2	151.3
75°	82.7	102.4	125.3	122.9	118.2
77.5°	63.0	82.7	97.7	89.8	83.5
80°	44.9	64.6	67.8	55.9	52.8
82.5°	29.2	44.9	37.8	29.2	23.7
85°	15.0	21.2	11.8	9.5	7.9
87.5°	4.7	3.2	1.5	1.5	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)