

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: P732508

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732508
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-CP375-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

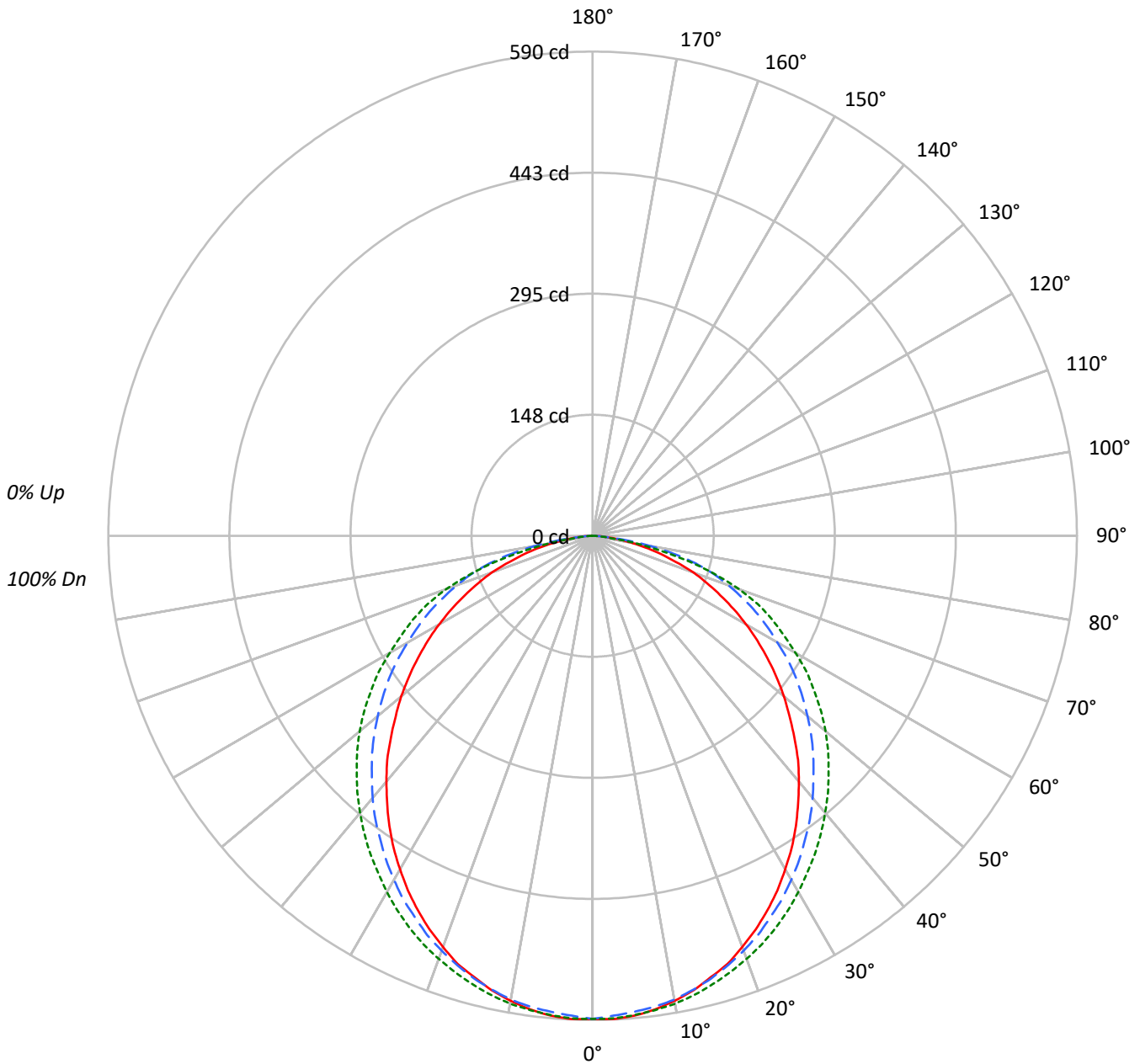
Lumens per Lamp: N/A
Luminaire Lumens: 1649.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732508

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

Luminous Intensity Polar Plot





TEST NUMBER: P732508

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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°	1662	1662	1662
5°	1664	1650	1661
10°	1650	1645	1659
15°	1627	1632	1653
20°	1601	1616	1648
25°	1568	1596	1643
30°	1530	1578	1634
35°	1488	1555	1629
40°	1440	1537	1624
45°	1387	1518	1622
50°	1336	1501	1627
55°	1280	1489	1622
60°	1219	1468	1611
65°	1147	1463	1611
70°	1079	1451	1565
75°	937	1418	1337
80°	757	1143	891
85°	502	395	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.4
10°-20°	158.2	9.6
20°-30°	237.3	14.4
30°-40°	283.0	17.2
40°-50°	292.6	17.7
50°-60°	267.2	16.2
60°-70°	210.2	12.7
70°-80°	122.4	7.4
80°-90°	22.5	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°	451.0	27.4
0°-40°	734.1	44.5
0°-60°	1293.9	78.5
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	587	585	582	587	586	56
15°	557	558	558	566	566	157
25°	504	506	513	525	527	232
35°	432	437	451	468	473	270
45°	347	359	380	401	406	268
55°	260	274	303	325	330	233
65°	172	190	219	236	241	171
75°	86	106	130	128	123	91
85°	16	22	12	10	8	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.7	588.7	588.7	588.7	588.7
2.5°	589.5	587.9	585.4	589.5	588.7
5°	587.1	585.4	582.2	587.1	586.2
7.5°	582.2	580.5	578.9	583.8	583.0
10°	575.5	574.7	573.9	579.7	578.9
12.5°	567.4	567.4	566.6	573.1	573.1
15°	556.8	557.6	558.4	565.7	565.7
17.5°	547.0	546.2	548.6	556.8	557.6
20°	533.1	534.7	538.0	547.8	548.6
22.5°	519.1	520.8	526.6	536.4	538.8
25°	503.6	506.1	512.6	524.9	527.4
27.5°	487.3	490.6	499.5	512.6	515.0
30°	469.3	474.2	484.0	498.7	501.2
32.5°	451.3	456.2	468.5	483.2	486.5
35°	431.7	437.4	451.3	468.5	472.6
37.5°	411.2	418.6	435.0	452.1	457.0
40°	390.8	399.0	417.0	435.0	440.7
42.5°	370.4	378.6	398.1	418.6	424.4
45°	347.4	359.0	380.2	401.4	406.3
47.5°	325.4	337.7	361.4	382.6	389.2
50°	304.2	316.4	341.7	363.9	370.4
52.5°	282.1	295.1	322.1	345.0	350.7
55°	260.0	273.9	302.6	324.6	329.5
57.5°	237.9	252.7	282.1	303.4	309.1
60°	215.9	231.4	260.0	281.2	285.3
62.5°	193.8	210.1	239.5	258.4	262.5
65°	171.7	189.6	219.1	236.3	241.2
67.5°	150.5	168.4	197.1	213.4	217.5
70°	130.8	147.2	175.8	188.0	189.6
72.5°	106.3	126.7	154.5	161.1	157.0
75°	85.9	106.3	130.0	127.5	122.6
77.5°	65.4	85.9	101.4	93.2	86.7
80°	46.6	67.0	70.3	58.0	54.8
82.5°	30.3	46.6	39.3	30.3	24.5
85°	15.5	22.0	12.2	9.8	8.2
87.5°	4.9	3.3	1.6	1.6	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)