

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: P732507

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732507
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-CP375-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

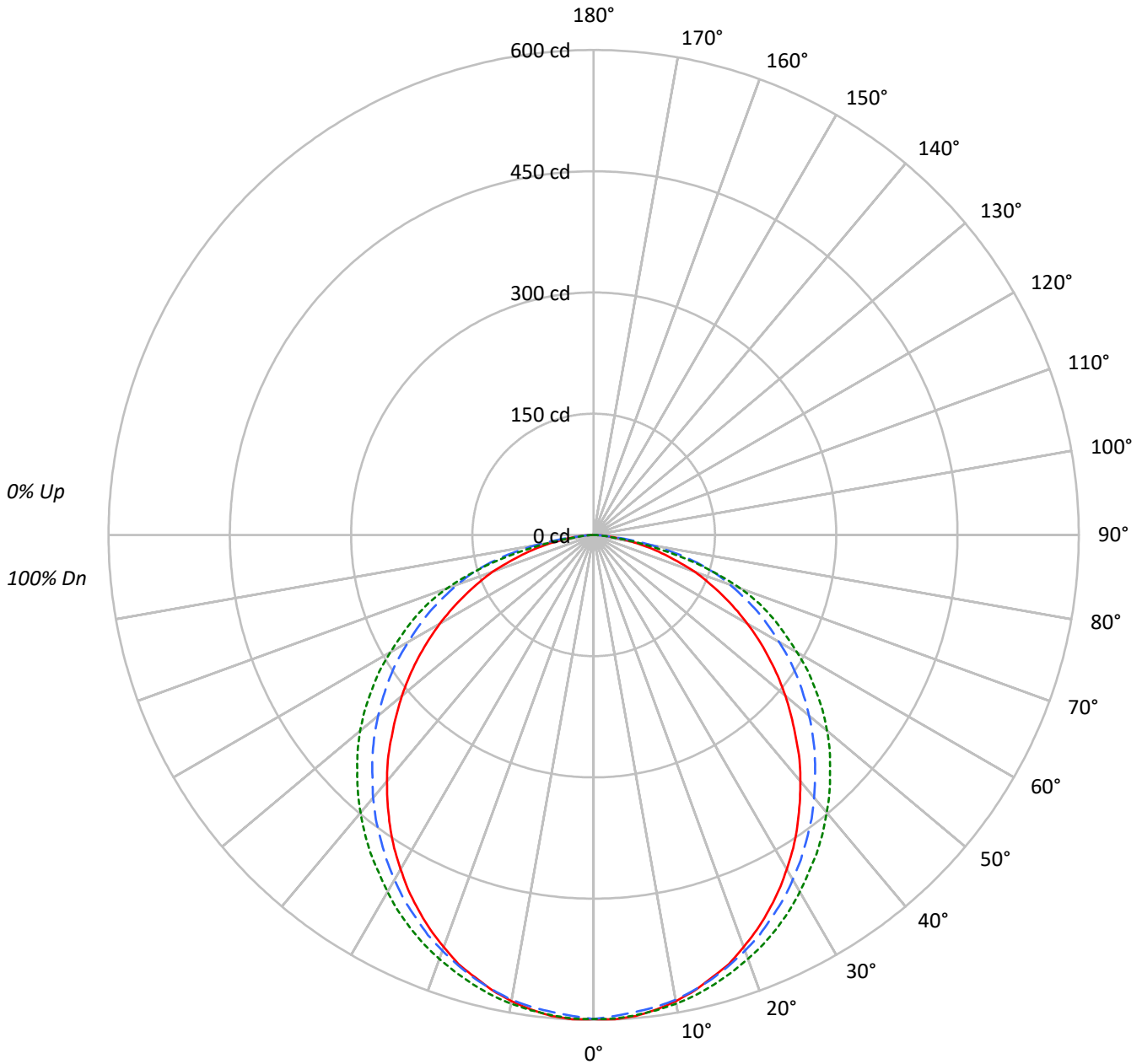
Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	1691	1691	1691
5°	1693	1679	1690
10°	1679	1674	1688
15°	1656	1660	1682
20°	1629	1644	1677
25°	1596	1625	1671
30°	1556	1605	1662
35°	1514	1583	1657
40°	1465	1563	1653
45°	1411	1544	1651
50°	1359	1527	1655
55°	1302	1515	1650
60°	1240	1493	1639
65°	1167	1489	1640
70°	1098	1476	1593
75°	953	1443	1361
80°	770	1164	907
85°	512	402	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	3.4
10°-20°	161.0	9.6
20°-30°	241.4	14.4
30°-40°	288.0	17.2
40°-50°	297.8	17.7
50°-60°	271.9	16.2
60°-70°	213.9	12.7
70°-80°	124.5	7.4
80°-90°	22.9	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°	459.0	27.4
0°-40°	747.0	44.5
0°-60°	1316.6	78.5
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	597	596	592	597	596	57
15°	567	567	568	576	576	160
25°	512	515	522	534	537	236
35°	439	445	459	477	481	275
45°	354	365	387	408	414	273
55°	264	279	308	330	335	237
65°	175	193	223	240	246	174
75°	87	108	132	130	125	93
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°	599.0	599.0	599.0	599.0	599.0
2.5°	599.8	598.2	595.7	599.8	599.0
5°	597.4	595.7	592.4	597.4	596.5
7.5°	592.4	590.7	589.0	594.0	593.2
10°	585.7	584.9	584.0	589.8	589.0
12.5°	577.4	577.4	576.6	583.2	583.2
15°	566.6	567.4	568.2	575.7	575.7
17.5°	556.6	555.8	558.2	566.6	567.4
20°	542.4	544.1	547.4	557.4	558.2
22.5°	528.3	530.0	535.8	545.8	548.3
25°	512.5	515.0	521.6	534.1	536.6
27.5°	495.9	499.2	508.3	521.6	524.1
30°	477.5	482.5	492.5	507.5	510.0
32.5°	459.3	464.3	476.7	491.7	495.0
35°	439.3	445.1	459.3	476.7	480.9
37.5°	418.5	425.9	442.6	460.1	465.1
40°	397.7	406.0	424.3	442.6	448.5
42.5°	376.9	385.2	405.1	425.9	431.8
45°	353.5	365.3	386.9	408.5	413.5
47.5°	331.1	343.7	367.7	389.3	396.1
50°	309.5	321.9	347.7	370.3	376.9
52.5°	287.1	300.3	327.8	351.1	356.9
55°	264.5	278.7	307.9	330.3	335.3
57.5°	242.1	257.1	287.1	308.7	314.5
60°	219.7	235.5	264.5	286.2	290.3
62.5°	197.2	213.8	243.7	262.9	267.1
65°	174.7	193.0	223.0	240.5	245.5
67.5°	153.1	171.4	200.5	217.1	221.3
70°	133.1	149.8	178.9	191.3	193.0
72.5°	108.2	129.0	157.2	163.9	159.7
75°	87.4	108.2	132.3	129.8	124.8
77.5°	66.6	87.4	103.2	94.8	88.2
80°	47.4	68.2	71.6	59.0	55.8
82.5°	30.8	47.4	40.0	30.8	25.0
85°	15.8	22.4	12.4	10.0	8.4
87.5°	5.0	3.4	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)