

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: P732529

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-SQR-B2750-W2D-CP250-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

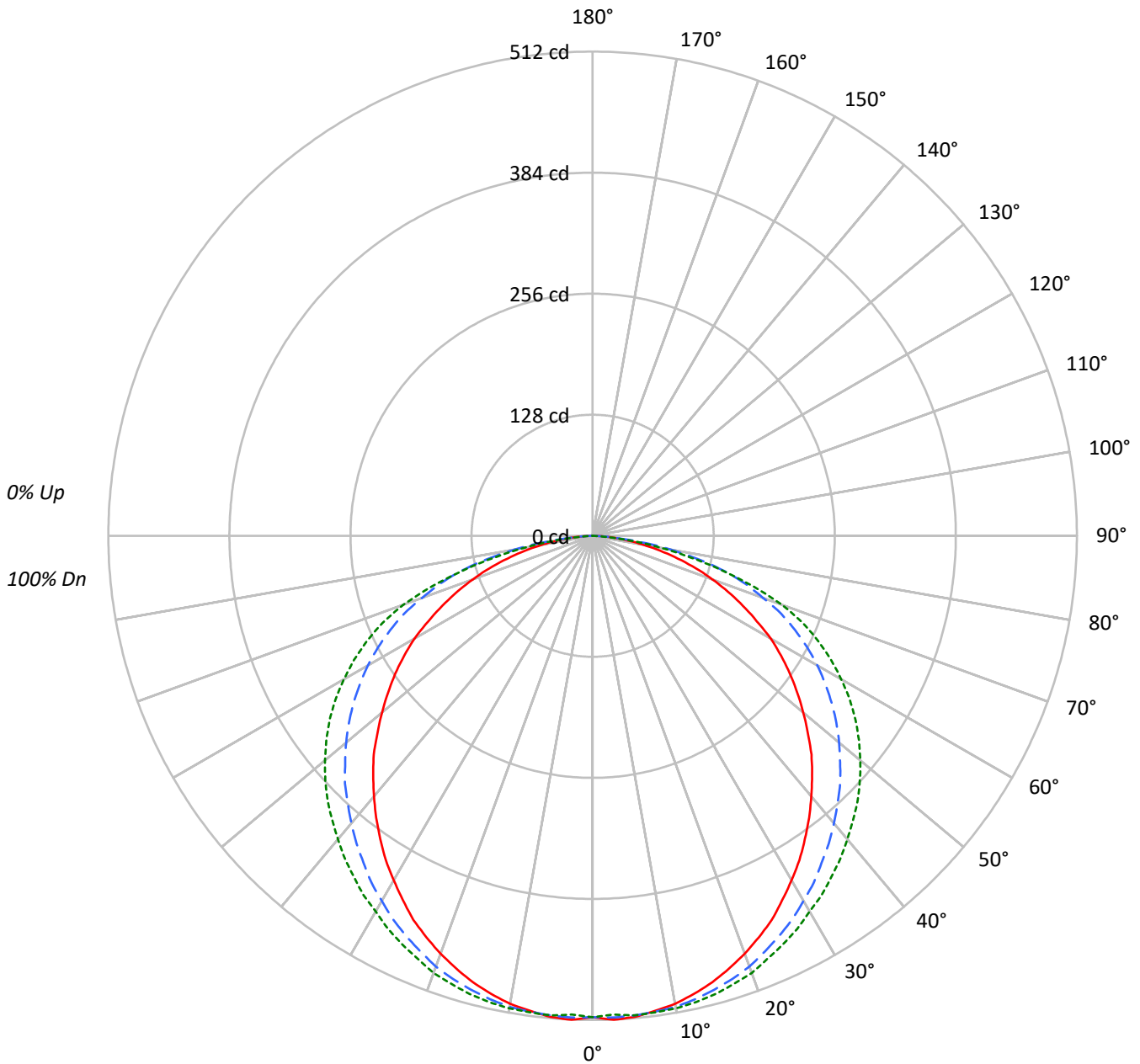
Lumens per Lamp: N/A
Luminaire Lumens: 1611.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1437	1437	1437
5°	1447	1443	1443
10°	1441	1450	1455
15°	1428	1452	1466
20°	1412	1456	1478
25°	1396	1454	1484
30°	1371	1453	1495
35°	1349	1455	1517
40°	1325	1463	1544
45°	1306	1478	1582
50°	1277	1494	1622
55°	1254	1519	1670
60°	1228	1550	1714
65°	1172	1578	1757
70°	1112	1581	1755
75°	1019	1576	1550
80°	871	1346	1201
85°	683	761	447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.0
10°-20°	139.8	8.7
20°-30°	213.7	13.3
30°-40°	262.0	16.3
40°-50°	281.8	17.5
50°-60°	270.7	16.8
60°-70°	225.5	14.0
70°-80°	138.4	8.6
80°-90°	30.8	1.9
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°	401.9	24.9
0°-40°	663.8	41.2
0°-60°	1216.3	75.5
0°-90°	1611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	511	506	509	509	509	48
15°	489	487	497	500	502	138
25°	448	452	467	473	477	206
35°	391	401	422	434	440	245
45°	327	342	370	387	396	252
55°	255	277	309	330	339	228
65°	175	202	236	256	263	174
75°	93	122	144	144	142	99
85°	21	32	24	16	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.1	509.1	509.1	509.1	509.1
2.5°	512.3	507.5	509.9	509.1	506.7
5°	510.7	505.9	509.1	509.1	509.1
7.5°	506.7	502.6	507.5	508.2	508.2
10°	502.6	499.4	505.9	506.7	507.5
12.5°	496.1	493.6	501.8	503.4	505.0
15°	488.8	487.2	496.9	500.1	501.8
17.5°	479.9	480.7	491.3	495.3	496.9
20°	470.1	472.6	484.7	488.8	492.0
22.5°	459.5	462.8	475.8	480.7	483.9
25°	448.2	452.2	466.8	472.6	476.6
27.5°	434.3	440.9	457.2	464.5	468.5
30°	420.6	427.9	445.8	454.7	458.7
32.5°	406.8	414.9	435.2	444.1	450.6
35°	391.4	401.1	422.2	433.5	440.1
37.5°	375.9	387.3	410.0	423.0	430.3
40°	359.6	371.9	397.0	411.6	418.9
42.5°	343.4	357.3	383.3	399.5	407.6
45°	327.2	341.9	370.2	387.3	396.2
47.5°	308.6	326.4	354.8	374.3	383.3
50°	290.7	310.1	340.2	360.5	369.4
52.5°	272.8	293.1	324.8	345.9	354.8
55°	254.9	276.8	308.6	329.6	339.4
57.5°	236.2	259.0	291.5	313.4	322.3
60°	217.6	241.2	274.5	294.7	303.6
62.5°	195.6	223.3	255.8	276.1	284.2
65°	175.4	202.2	236.2	255.8	263.1
67.5°	155.1	182.7	216.0	233.9	240.3
70°	134.8	162.4	191.6	208.7	212.7
72.5°	114.5	142.1	169.7	179.4	177.8
75°	93.4	121.8	144.5	143.8	142.1
77.5°	73.1	100.7	114.5	108.8	106.4
80°	53.6	80.4	82.8	77.2	73.9
82.5°	36.6	57.6	52.0	45.4	42.2
85°	21.1	31.6	23.5	16.2	13.8
87.5°	8.9	8.1	2.5	2.5	1.6
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)