

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: P732527

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732527
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-CP250-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

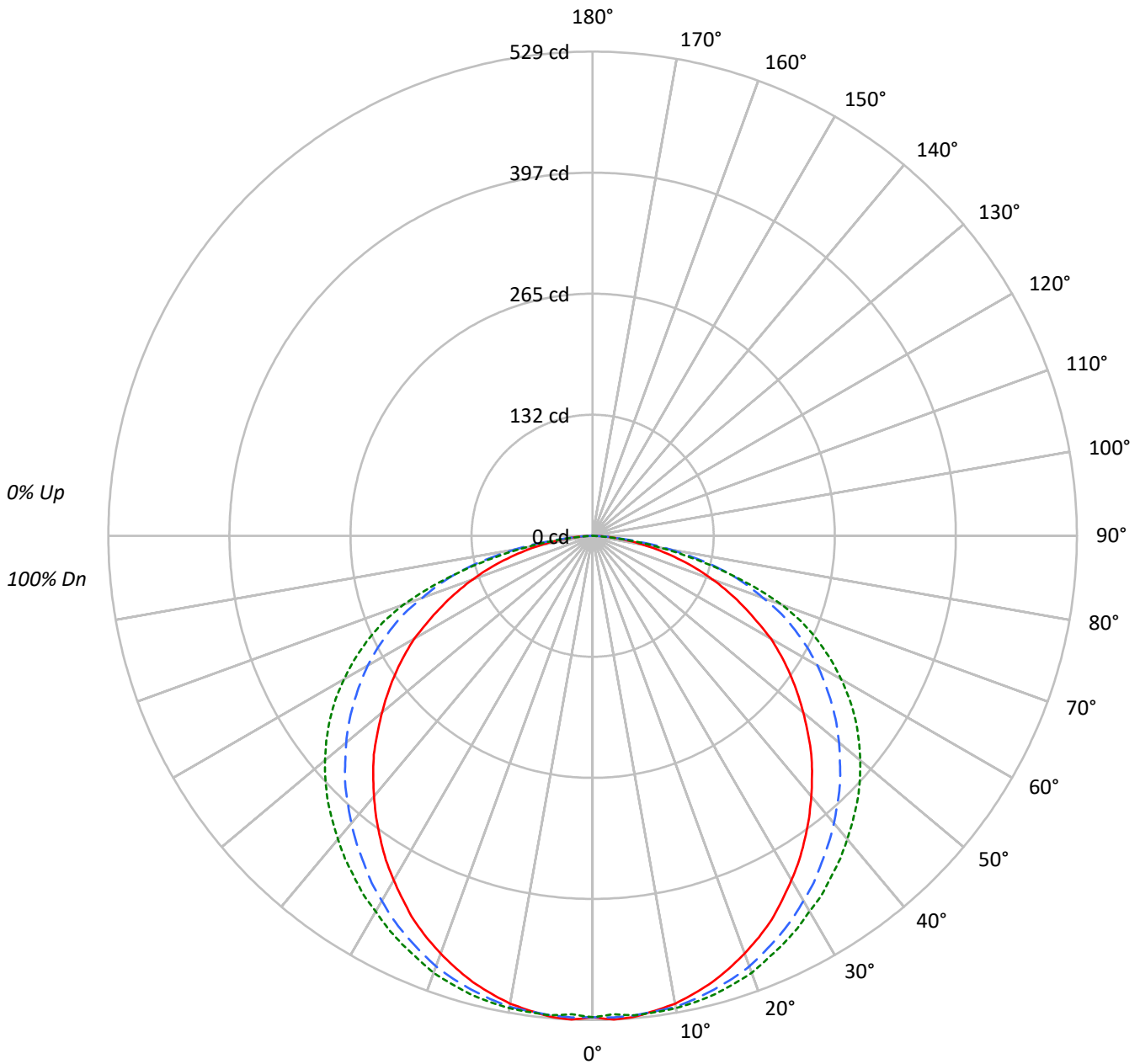
Lumens per Lamp: N/A
Luminaire Lumens: 1664.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): 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°	1484	1484	1484
5°	1495	1490	1490
10°	1488	1498	1502
15°	1475	1500	1515
20°	1459	1504	1527
25°	1442	1502	1533
30°	1416	1501	1544
35°	1393	1503	1566
40°	1369	1511	1594
45°	1349	1526	1633
50°	1318	1543	1676
55°	1296	1568	1725
60°	1269	1600	1770
65°	1210	1630	1815
70°	1149	1633	1813
75°	1051	1628	1601
80°	899	1390	1240
85°	706	787	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	3.0
10°-20°	144.4	8.7
20°-30°	220.8	13.3
30°-40°	270.6	16.3
40°-50°	291.0	17.5
50°-60°	279.7	16.8
60°-70°	232.9	14.0
70°-80°	142.9	8.6
80°-90°	31.8	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°	415.1	24.9
0°-40°	685.7	41.2
0°-60°	1256.4	75.5
0°-90°	1664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	528	522	526	526	526	50
15°	505	503	513	517	518	142
25°	463	467	482	488	492	213
35°	404	414	436	448	454	253
45°	338	353	382	400	409	260
55°	263	286	319	340	351	235
65°	181	209	244	264	272	179
75°	96	126	149	148	147	102
85°	22	33	24	17	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	525.9	525.9	525.9	525.9	525.9
2.5°	529.1	524.1	526.7	525.9	523.3
5°	527.5	522.5	525.9	525.9	525.9
7.5°	523.3	519.1	524.1	525.0	525.0
10°	519.1	515.8	522.5	523.3	524.1
12.5°	512.4	509.9	518.3	520.0	521.6
15°	504.9	503.2	513.2	516.6	518.3
17.5°	495.7	496.5	507.4	511.6	513.2
20°	485.6	488.1	500.7	504.9	508.2
22.5°	474.7	478.0	491.5	496.5	499.9
25°	462.9	467.1	482.2	488.1	492.3
27.5°	448.6	455.4	472.2	479.8	483.9
30°	434.4	442.0	460.5	469.7	473.8
32.5°	420.2	428.5	449.5	458.7	465.5
35°	404.2	414.3	436.1	447.8	454.5
37.5°	388.3	400.1	423.5	436.9	444.4
40°	371.5	384.1	410.1	425.2	432.7
42.5°	354.7	369.0	395.9	412.6	421.0
45°	338.0	353.1	382.4	400.1	409.2
47.5°	318.7	337.2	366.5	386.6	395.9
50°	300.2	320.3	351.4	372.4	381.6
52.5°	281.8	302.8	335.5	357.3	366.5
55°	263.3	286.0	318.7	340.5	350.6
57.5°	244.0	267.5	301.1	323.7	332.9
60°	224.7	249.1	283.5	304.4	313.6
62.5°	202.1	230.6	264.2	285.1	293.5
65°	181.1	208.8	244.0	264.2	271.8
67.5°	160.2	188.7	223.1	241.6	248.2
70°	139.2	167.8	197.9	215.5	219.7
72.5°	118.3	146.8	175.3	185.3	183.7
75°	96.4	125.8	149.3	148.5	146.8
77.5°	75.5	104.0	118.3	112.4	109.9
80°	55.3	83.1	85.5	79.7	76.3
82.5°	37.8	59.5	53.7	46.9	43.6
85°	21.8	32.7	24.3	16.7	14.3
87.5°	9.2	8.4	2.6	2.6	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)