

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: P732513

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732513
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-CA08-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

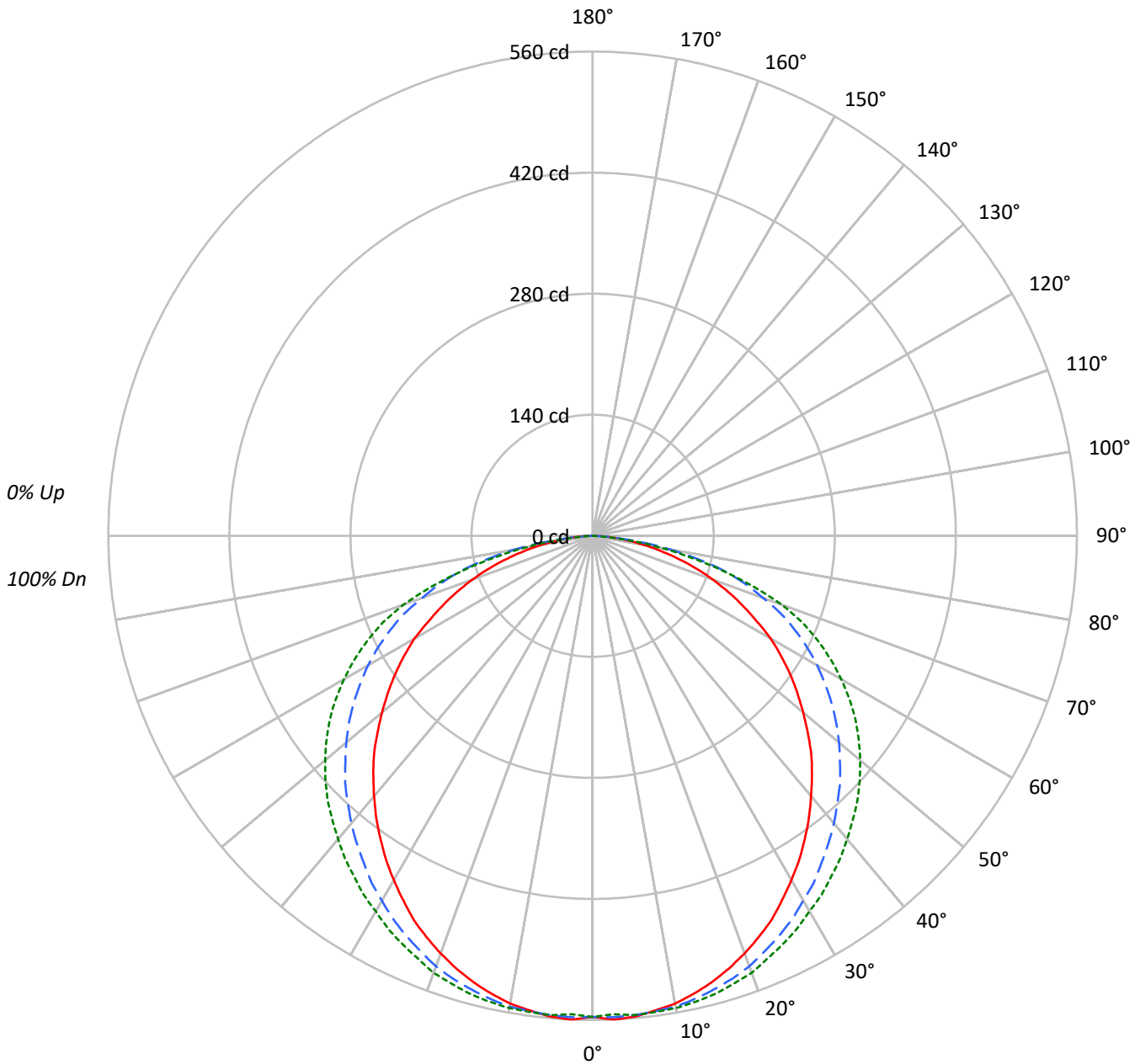
Lumens per Lamp: N/A
Luminaire Lumens: 1761.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732513

CATALOG NUMBER: 14FCZ2-20-SQR-B2750-W2D-CA08-3500K

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	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°	1571	1571	1571
5°	1582	1577	1577
10°	1575	1585	1590
15°	1561	1587	1603
20°	1544	1592	1616
25°	1526	1589	1623
30°	1499	1588	1635
35°	1474	1590	1657
40°	1448	1599	1687
45°	1428	1616	1729
50°	1395	1633	1773
55°	1371	1660	1826
60°	1342	1694	1874
65°	1280	1725	1921
70°	1216	1728	1919
75°	1114	1723	1694
80°	951	1471	1313
85°	748	832	489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.0
10°-20°	152.8	8.7
20°-30°	233.6	13.3
30°-40°	286.4	16.3
40°-50°	308.0	17.5
50°-60°	296.0	16.8
60°-70°	246.4	14.0
70°-80°	151.3	8.6
80°-90°	33.7	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°	439.3	24.9
0°-40°	725.7	41.2
0°-60°	1329.6	75.5
0°-90°	1761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	558	553	556	556	556	53
15°	534	533	543	547	548	151
25°	490	494	510	517	521	225
35°	428	438	462	474	481	268
45°	358	374	405	423	433	275
55°	279	303	337	360	371	249
65°	192	221	258	280	288	190
75°	102	133	158	157	155	108
85°	23	35	26	18	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.5	556.5	556.5	556.5	556.5
2.5°	560.0	554.7	557.4	556.5	553.8
5°	558.3	553.0	556.5	556.5	556.5
7.5°	553.8	549.4	554.7	555.6	555.6
10°	549.4	545.8	553.0	553.8	554.7
12.5°	542.3	539.6	548.5	550.3	552.0
15°	534.3	532.6	543.1	546.7	548.5
17.5°	524.6	525.4	537.0	541.4	543.1
20°	513.9	516.6	529.9	534.3	537.9
22.5°	502.3	505.9	520.1	525.4	529.0
25°	489.9	494.3	510.3	516.6	521.0
27.5°	474.8	481.9	499.7	507.7	512.2
30°	459.8	467.8	487.3	497.0	501.5
32.5°	444.6	453.5	475.8	485.5	492.6
35°	427.8	438.5	461.5	473.9	481.0
37.5°	411.0	423.4	448.2	462.4	470.4
40°	393.1	406.5	434.0	449.9	457.9
42.5°	375.4	390.5	418.9	436.7	445.5
45°	357.7	373.7	404.7	423.4	433.1
47.5°	337.3	356.8	387.8	409.1	418.9
50°	317.7	339.0	371.9	394.1	403.8
52.5°	298.2	320.4	355.0	378.1	387.8
55°	278.6	302.6	337.3	360.3	371.0
57.5°	258.2	283.1	318.6	342.6	352.3
60°	237.8	263.6	300.0	322.2	331.9
62.5°	213.8	244.1	279.6	301.8	310.6
65°	191.7	221.0	258.2	279.6	287.6
67.5°	169.6	199.7	236.1	255.6	262.7
70°	147.3	177.6	209.4	228.1	232.5
72.5°	125.2	155.3	185.5	196.1	194.4
75°	102.1	133.2	158.0	157.1	155.3
77.5°	79.9	110.1	125.2	118.9	116.3
80°	58.5	87.9	90.5	84.4	80.8
82.5°	40.0	63.0	56.8	49.7	46.1
85°	23.1	34.6	25.7	17.7	15.1
87.5°	9.7	8.9	2.7	2.7	1.7
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)