

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: P732511

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732511
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-CA08-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

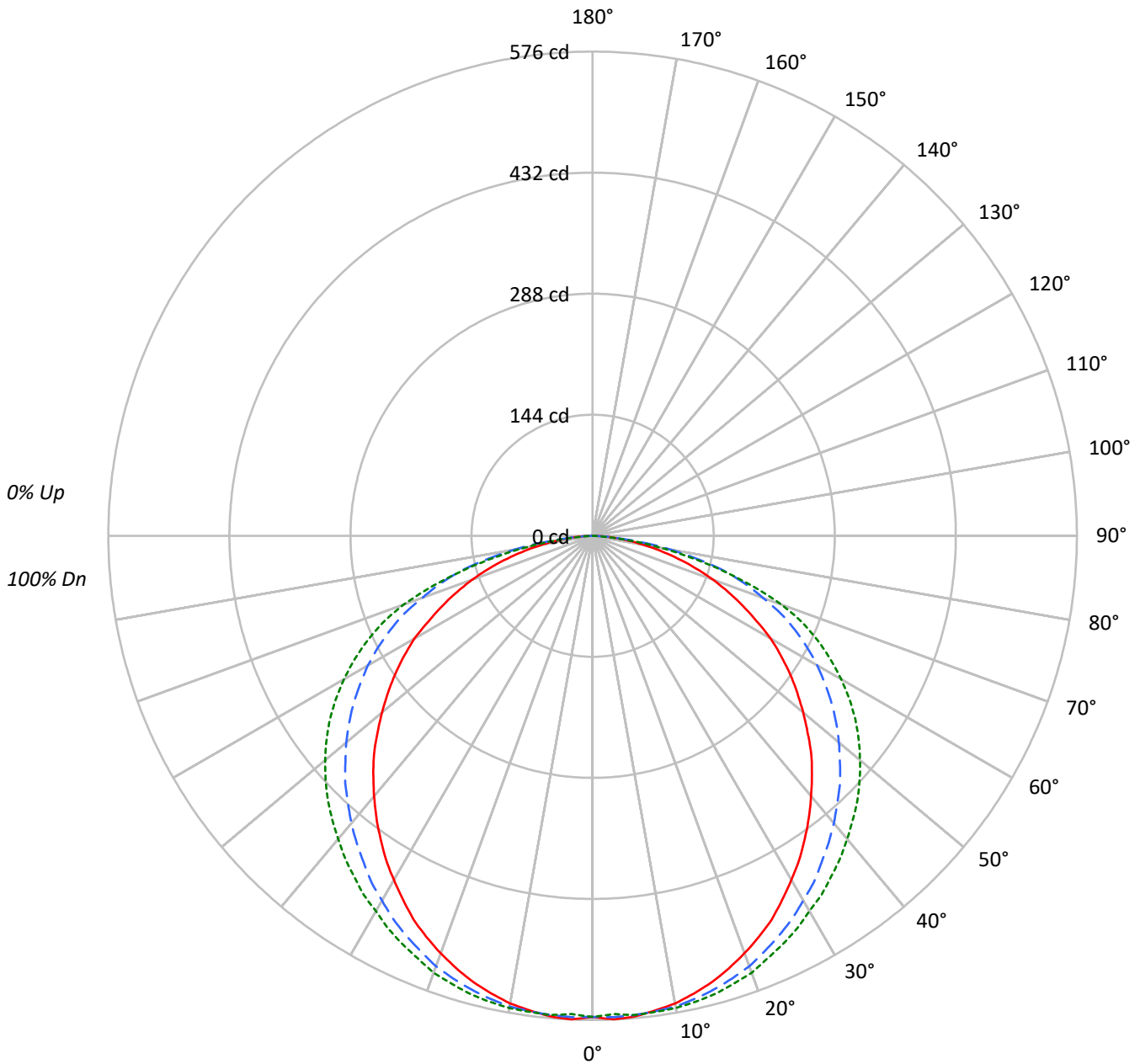
Lumens per Lamp: N/A
Luminaire Lumens: 1811.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1615	1615	1615
5°	1627	1622	1622
10°	1619	1630	1635
15°	1606	1632	1648
20°	1588	1637	1661
25°	1569	1634	1669
30°	1541	1633	1681
35°	1516	1635	1705
40°	1490	1645	1735
45°	1469	1661	1778
50°	1435	1679	1824
55°	1410	1707	1877
60°	1381	1742	1927
65°	1316	1774	1976
70°	1250	1778	1973
75°	1145	1772	1742
80°	979	1513	1351
85°	771	855	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	3.0
10°-20°	157.1	8.7
20°-30°	240.3	13.3
30°-40°	294.5	16.3
40°-50°	316.7	17.5
50°-60°	304.4	16.8
60°-70°	253.4	14.0
70°-80°	155.6	8.6
80°-90°	34.6	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°	451.8	24.9
0°-40°	746.3	41.2
0°-60°	1367.4	75.5
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	574	569	572	572	572	54
15°	550	548	559	562	564	155
25°	504	508	525	531	536	232
35°	440	451	475	487	495	275
45°	368	384	416	435	445	283
55°	287	311	347	370	382	256
65°	197	227	266	288	296	195
75°	105	137	162	162	160	111
85°	24	36	26	18	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.3	572.3	572.3	572.3	572.3
2.5°	575.9	570.5	573.2	572.3	569.6
5°	574.1	568.7	572.3	572.3	572.3
7.5°	569.6	565.0	570.5	571.3	571.3
10°	565.0	561.3	568.7	569.6	570.5
12.5°	557.7	554.9	564.1	565.9	567.7
15°	549.5	547.7	558.6	562.2	564.1
17.5°	539.5	540.4	552.2	556.8	558.6
20°	528.5	531.2	544.9	549.5	553.1
22.5°	516.6	520.2	534.9	540.4	544.0
25°	503.8	508.4	524.8	531.2	535.8
27.5°	488.3	495.6	513.9	522.1	526.7
30°	472.8	481.0	501.1	511.1	515.7
32.5°	457.3	466.4	489.3	499.3	506.6
35°	439.9	450.9	474.6	487.4	494.7
37.5°	422.6	435.4	460.9	475.5	483.7
40°	404.3	418.1	446.3	462.7	470.9
42.5°	386.1	401.6	430.8	449.1	458.2
45°	367.9	384.3	416.2	435.4	445.4
47.5°	346.9	367.0	398.9	420.7	430.8
50°	326.8	348.6	382.4	405.3	415.3
52.5°	306.7	329.5	365.1	388.9	398.9
55°	286.6	311.2	346.9	370.5	381.5
57.5°	265.6	291.1	327.7	352.3	362.3
60°	244.6	271.1	308.6	331.3	341.3
62.5°	219.9	251.0	287.6	310.3	319.4
65°	197.1	227.2	265.6	287.6	295.8
67.5°	174.4	205.4	242.8	262.9	270.1
70°	151.5	182.6	215.4	234.6	239.1
72.5°	128.7	159.7	190.8	201.7	199.9
75°	105.0	136.9	162.5	161.6	159.7
77.5°	82.2	113.2	128.7	122.3	119.6
80°	60.2	90.4	93.1	86.7	83.1
82.5°	41.1	64.8	58.4	51.1	47.4
85°	23.8	35.5	26.4	18.2	15.5
87.5°	10.0	9.1	2.8	2.8	1.8
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)