

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: P732521

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732521
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-CP187-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

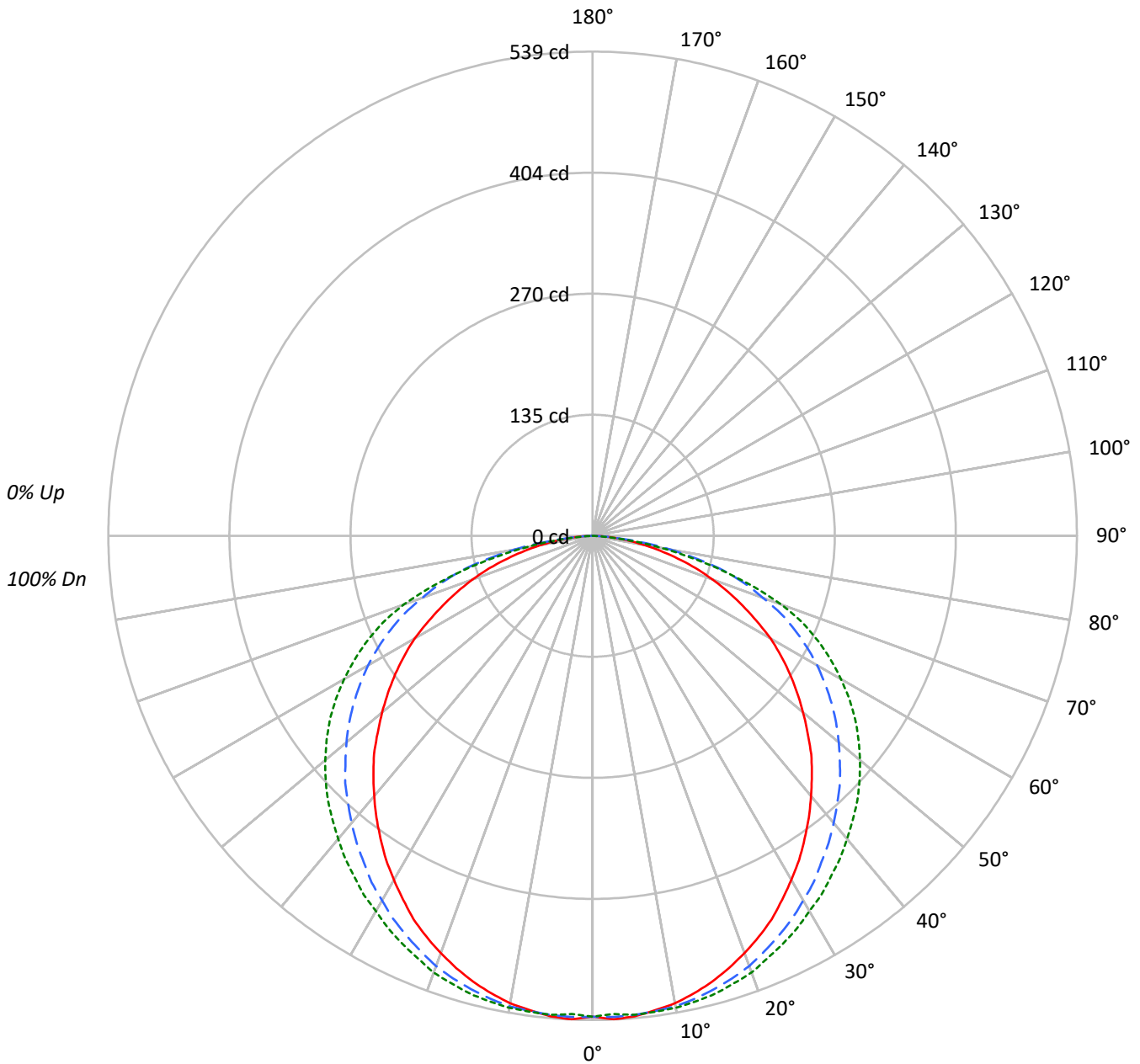
Lumens per Lamp: N/A
Luminaire Lumens: 1694.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1511	1511	1511
5°	1522	1517	1517
10°	1515	1525	1529
15°	1502	1527	1542
20°	1485	1531	1554
25°	1468	1529	1561
30°	1442	1528	1572
35°	1418	1530	1594
40°	1394	1538	1623
45°	1374	1554	1663
50°	1342	1571	1706
55°	1319	1597	1756
60°	1292	1629	1803
65°	1232	1659	1848
70°	1169	1663	1846
75°	1071	1658	1629
80°	915	1416	1263
85°	719	800	470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	3.0
10°-20°	147.0	8.7
20°-30°	224.7	13.3
30°-40°	275.5	16.3
40°-50°	296.3	17.5
50°-60°	284.7	16.8
60°-70°	237.1	14.0
70°-80°	145.5	8.6
80°-90°	32.4	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°	422.6	24.9
0°-40°	698.1	41.2
0°-60°	1279.0	75.5
0°-90°	1694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	537	532	535	535	535	51
15°	514	512	522	526	528	145
25°	471	476	491	497	501	217
35°	412	422	444	456	463	258
45°	344	360	389	407	417	265
55°	268	291	324	347	357	239
65°	184	213	248	269	277	183
75°	98	128	152	151	149	104
85°	22	33	25	17	14	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	535.4	535.4	535.4	535.4	535.4
2.5°	538.7	533.6	536.2	535.4	532.8
5°	537.0	531.9	535.4	535.4	535.4
7.5°	532.8	528.5	533.6	534.4	534.4
10°	528.5	525.1	531.9	532.8	533.6
12.5°	521.7	519.1	527.7	529.3	531.0
15°	514.0	512.3	522.5	525.9	527.7
17.5°	504.6	505.4	516.6	520.8	522.5
20°	494.3	496.9	509.7	514.0	517.4
22.5°	483.2	486.6	500.4	505.4	508.9
25°	471.3	475.5	490.9	496.9	501.2
27.5°	456.7	463.6	480.7	488.4	492.7
30°	442.3	450.0	468.8	478.1	482.4
32.5°	427.7	436.3	457.7	467.0	473.9
35°	411.5	421.8	443.9	455.9	462.7
37.5°	395.3	407.3	431.2	444.8	452.5
40°	378.2	391.1	417.4	432.8	440.5
42.5°	361.1	375.7	403.0	420.0	428.6
45°	344.1	359.5	389.3	407.3	416.6
47.5°	324.5	343.3	373.1	393.5	403.0
50°	305.7	326.1	357.7	379.1	388.5
52.5°	286.9	308.3	341.5	363.7	373.1
55°	268.0	291.1	324.5	346.6	356.9
57.5°	248.4	272.3	306.5	329.6	338.9
60°	228.8	253.6	288.6	309.9	319.3
62.5°	205.7	234.8	269.0	290.3	298.8
65°	184.4	212.6	248.4	269.0	276.7
67.5°	163.1	192.1	227.1	245.9	252.7
70°	141.7	170.8	201.5	219.4	223.7
72.5°	120.4	149.4	178.5	188.7	187.0
75°	98.2	128.1	152.0	151.2	149.4
77.5°	76.9	105.9	120.4	114.4	111.9
80°	56.3	84.6	87.1	81.1	77.7
82.5°	38.4	60.6	54.6	47.8	44.4
85°	22.2	33.2	24.7	17.0	14.5
87.5°	9.4	8.5	2.6	2.6	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)