

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: P732659

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732659
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: 14FCZ2-25-SQR-B2750-W2D-CP375-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

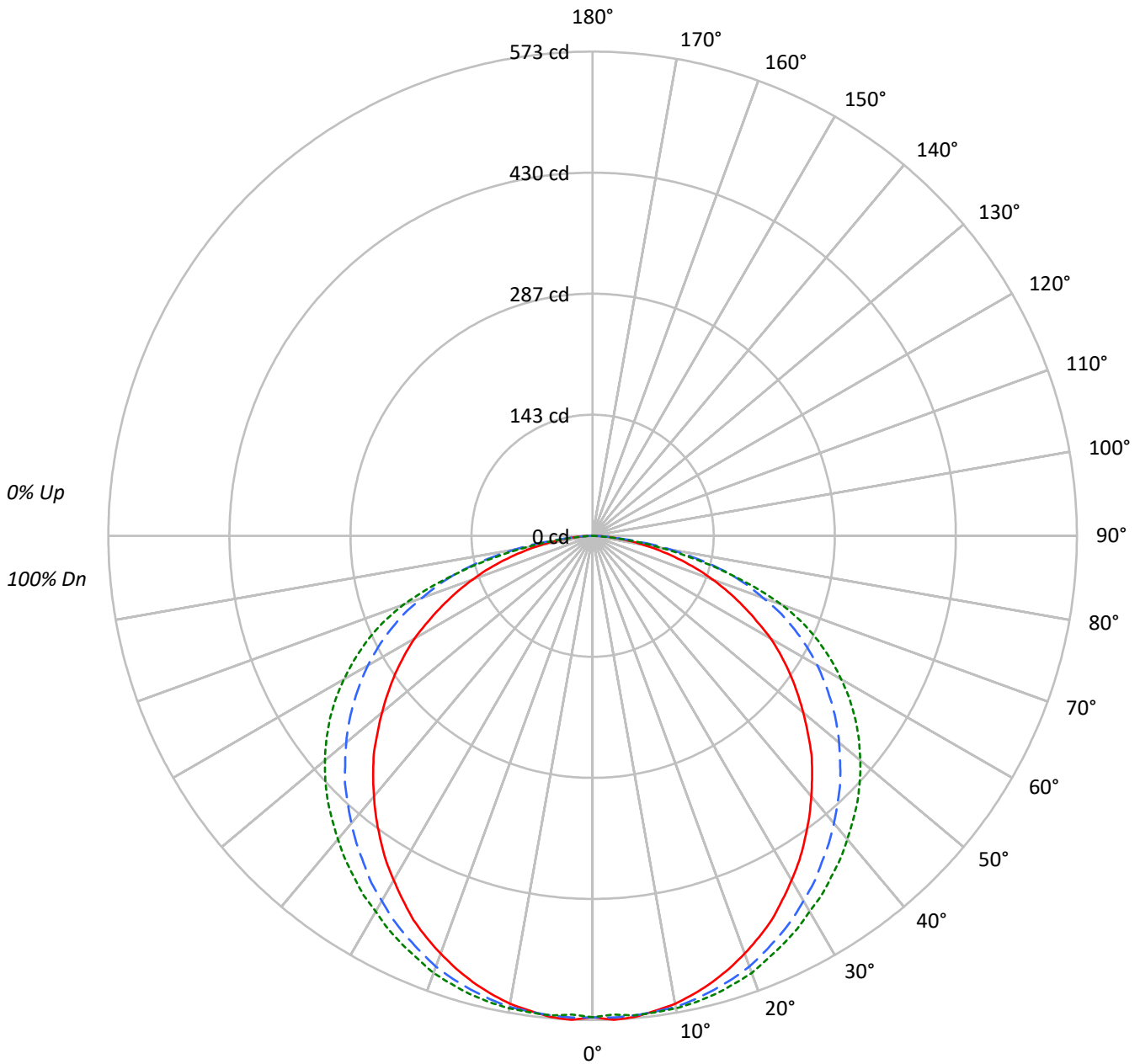
Lumens per Lamp: N/A
Luminaire Lumens: 1803.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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°	1608	1608	1608
5°	1620	1615	1615
10°	1612	1623	1628
15°	1598	1625	1641
20°	1580	1630	1654
25°	1562	1627	1661
30°	1534	1626	1673
35°	1509	1628	1697
40°	1483	1637	1728
45°	1462	1654	1770
50°	1428	1672	1816
55°	1404	1699	1869
60°	1375	1734	1918
65°	1311	1766	1967
70°	1245	1769	1965
75°	1140	1765	1734
80°	974	1507	1344
85°	768	852	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.0
10°-20°	156.4	8.7
20°-30°	239.2	13.3
30°-40°	293.2	16.3
40°-50°	315.3	17.5
50°-60°	303.0	16.8
60°-70°	252.3	14.0
70°-80°	154.9	8.6
80°-90°	34.5	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°	449.8	24.9
0°-40°	743.0	41.2
0°-60°	1361.3	75.5
0°-90°	1803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	572	566	570	570	570	54
15°	547	545	556	560	562	154
25°	502	506	522	529	533	231
35°	438	449	472	485	492	274
45°	366	383	414	434	443	282
55°	285	310	345	369	380	255
65°	196	226	264	286	294	194
75°	104	136	162	161	159	111
85°	24	35	26	18	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.8	569.8	569.8	569.8	569.8
2.5°	573.4	567.9	570.7	569.8	567.0
5°	571.6	566.2	569.8	569.8	569.8
7.5°	567.0	562.5	567.9	568.8	568.8
10°	562.5	558.9	566.2	567.0	567.9
12.5°	555.2	552.5	561.6	563.4	565.2
15°	547.0	545.3	556.1	559.8	561.6
17.5°	537.1	538.0	549.8	554.3	556.1
20°	526.1	528.9	542.5	547.0	550.7
22.5°	514.3	518.0	532.5	538.0	541.6
25°	501.6	506.1	522.5	528.9	533.4
27.5°	486.1	493.4	511.6	519.8	524.4
30°	470.7	478.9	498.9	508.9	513.4
32.5°	455.3	464.3	487.1	497.1	504.4
35°	438.0	449.0	472.5	485.2	492.5
37.5°	420.8	433.5	458.9	473.4	481.6
40°	402.5	416.2	444.3	460.7	468.9
42.5°	384.4	399.9	428.9	447.1	456.1
45°	366.2	382.6	414.3	433.5	443.4
47.5°	345.3	365.4	397.1	418.9	428.9
50°	325.3	347.1	380.7	403.5	413.5
52.5°	305.3	328.1	363.5	387.1	397.1
55°	285.3	309.8	345.3	368.9	379.8
57.5°	264.4	289.8	326.2	350.8	360.7
60°	243.5	269.9	307.2	329.9	339.8
62.5°	218.9	249.9	286.3	309.0	318.0
65°	196.3	226.2	264.4	286.3	294.5
67.5°	173.6	204.5	241.7	261.7	268.9
70°	150.8	181.8	214.4	233.5	238.1
72.5°	128.2	159.0	190.0	200.8	199.0
75°	104.5	136.3	161.8	160.9	159.0
77.5°	81.8	112.7	128.2	121.7	119.1
80°	59.9	90.0	92.7	86.4	82.7
82.5°	40.9	64.5	58.2	50.9	47.2
85°	23.7	35.4	26.3	18.1	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)