

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: P732656

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732656
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-CP375-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

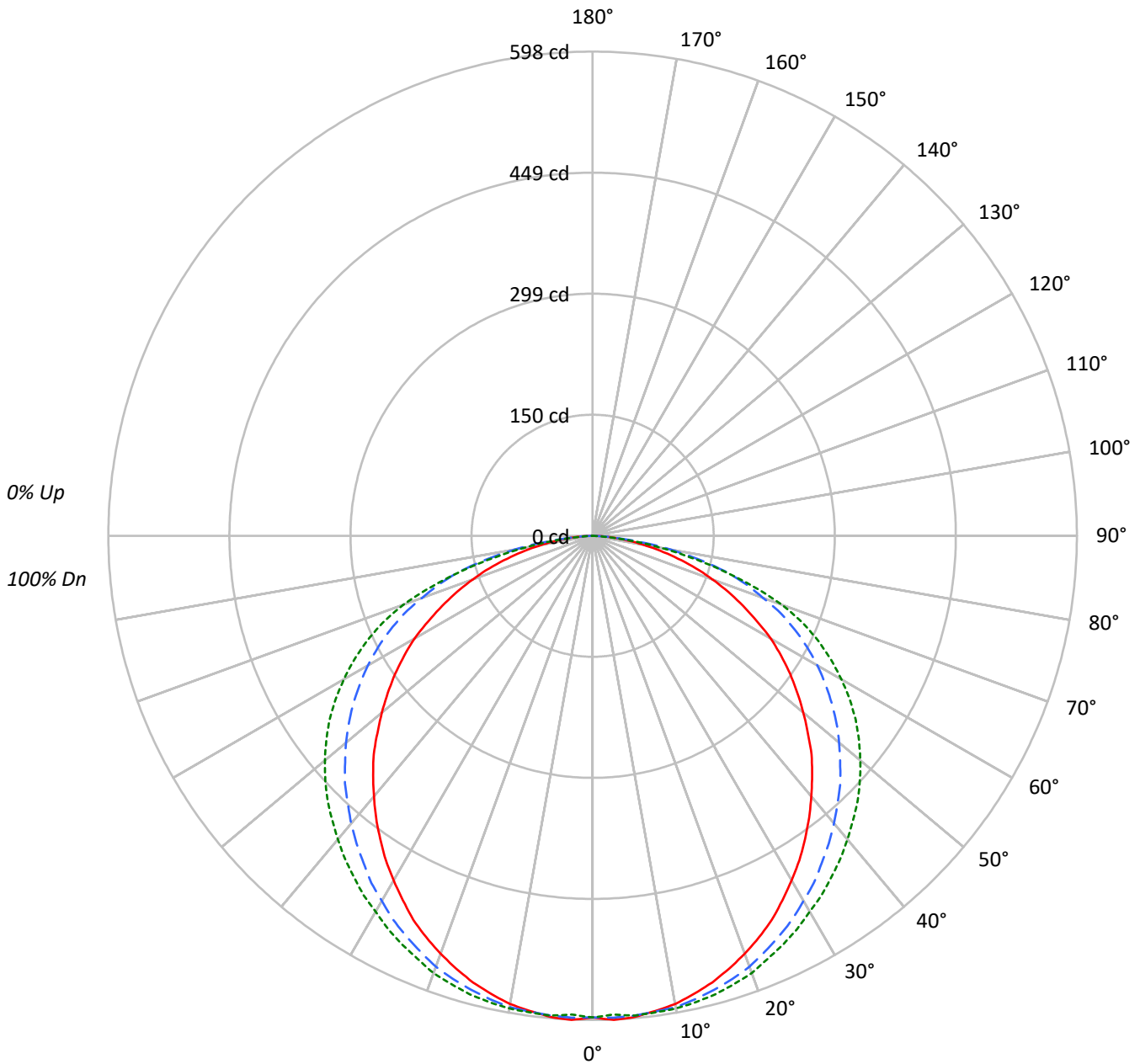
Lumens per Lamp: N/A
Luminaire Lumens: 1882.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1679	1679	1679
5°	1690	1685	1685
10°	1683	1694	1699
15°	1669	1696	1713
20°	1650	1701	1727
25°	1631	1699	1734
30°	1602	1697	1747
35°	1575	1699	1772
40°	1548	1709	1803
45°	1526	1726	1848
50°	1491	1745	1895
55°	1466	1774	1951
60°	1435	1810	2002
65°	1369	1843	2053
70°	1299	1847	2051
75°	1190	1842	1810
80°	1018	1572	1403
85°	800	891	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.0
10°-20°	163.3	8.7
20°-30°	249.7	13.3
30°-40°	306.0	16.3
40°-50°	329.2	17.5
50°-60°	316.3	16.8
60°-70°	263.4	14.0
70°-80°	161.7	8.6
80°-90°	36.0	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°	469.5	24.9
0°-40°	775.5	41.2
0°-60°	1421.0	75.5
0°-90°	1882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	597	591	595	595	595	57
15°	571	569	580	584	586	161
25°	524	528	545	552	557	241
35°	457	469	493	506	514	286
45°	382	399	432	452	463	294
55°	298	323	360	385	396	266
65°	205	236	276	299	307	203
75°	109	142	169	168	166	116
85°	25	37	28	19	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.8	594.8	594.8	594.8	594.8
2.5°	598.5	592.8	595.7	594.8	591.9
5°	596.6	591.0	594.8	594.8	594.8
7.5°	591.9	587.2	592.8	593.7	593.7
10°	587.2	583.4	591.0	591.9	592.8
12.5°	579.5	576.7	586.2	588.1	589.9
15°	571.0	569.2	580.5	584.3	586.2
17.5°	560.6	561.5	573.9	578.6	580.5
20°	549.2	552.1	566.3	571.0	574.8
22.5°	536.8	540.6	555.9	561.5	565.3
25°	523.6	528.3	545.4	552.1	556.8
27.5°	507.4	515.0	534.1	542.6	547.3
30°	491.4	499.9	520.8	531.2	535.9
32.5°	475.2	484.7	508.4	518.8	526.4
35°	457.2	468.6	493.2	506.5	514.1
37.5°	439.2	452.5	479.0	494.1	502.7
40°	420.1	434.5	463.8	480.9	489.4
42.5°	401.2	417.4	447.7	466.7	476.1
45°	382.3	399.4	432.5	452.5	462.9
47.5°	360.5	381.4	414.5	437.2	447.7
50°	339.6	362.3	397.4	421.2	431.6
52.5°	318.7	342.5	379.4	404.1	414.5
55°	297.8	323.4	360.5	385.1	396.5
57.5°	276.0	302.5	340.5	366.1	376.5
60°	254.2	281.8	320.6	344.3	354.7
62.5°	228.5	260.9	298.8	322.5	332.0
65°	204.9	236.2	276.0	298.8	307.4
67.5°	181.2	213.4	252.3	273.2	280.7
70°	157.4	189.8	223.8	243.8	248.5
72.5°	133.8	166.0	198.3	209.6	207.8
75°	109.1	142.3	168.9	167.9	166.0
77.5°	85.4	117.6	133.8	127.1	124.3
80°	62.6	94.0	96.7	90.1	86.3
82.5°	42.7	67.3	60.7	53.1	49.3
85°	24.7	36.9	27.5	18.9	16.2
87.5°	10.4	9.5	2.9	2.9	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)