

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: P732642

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732642
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-CA125-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

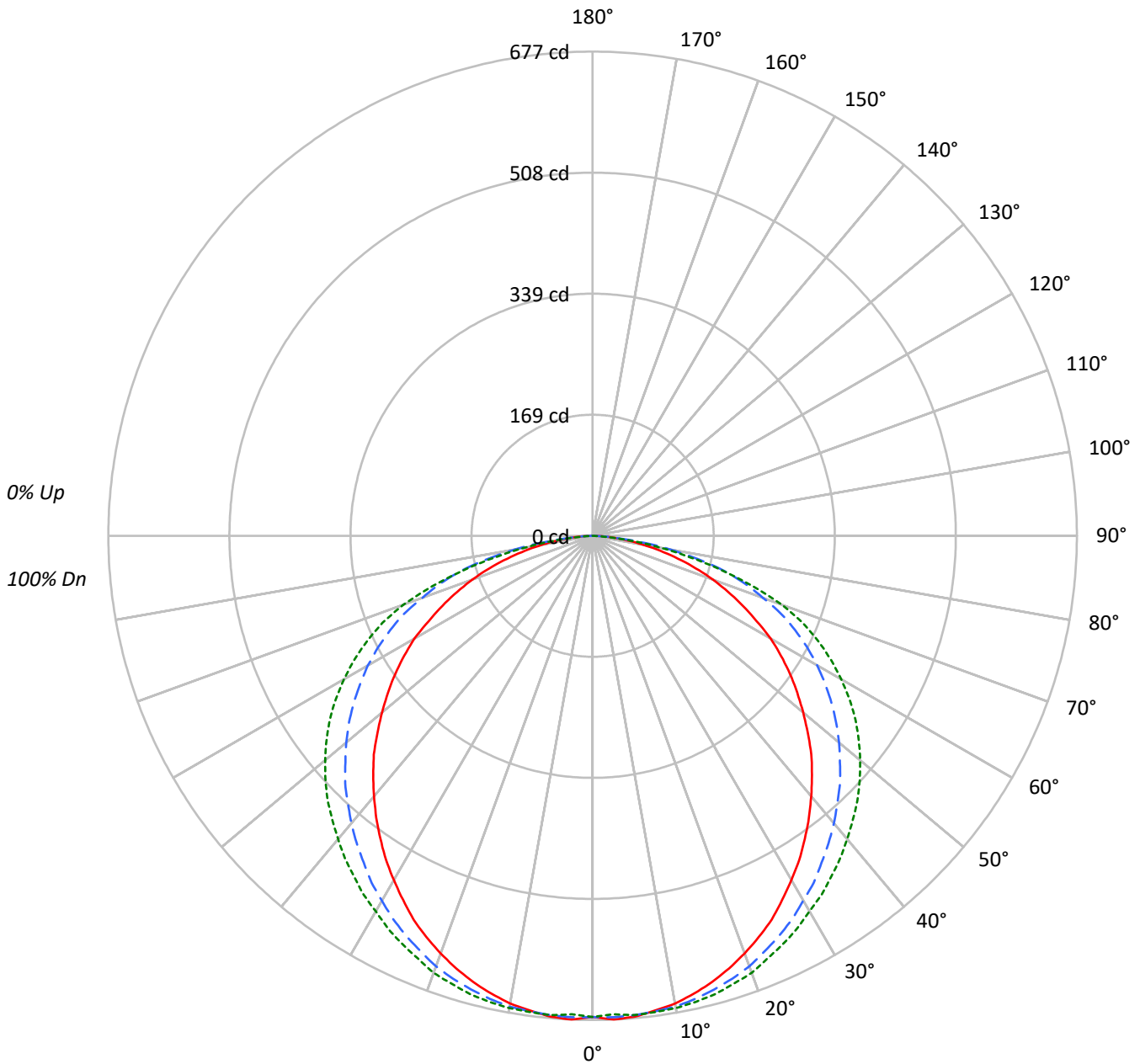
Lumens per Lamp: N/A
Luminaire Lumens: 2129.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1899	1899	1899
5°	1912	1906	1906
10°	1904	1916	1922
15°	1887	1919	1938
20°	1866	1924	1953
25°	1845	1922	1962
30°	1812	1920	1976
35°	1782	1922	2004
40°	1751	1933	2040
45°	1726	1953	2090
50°	1687	1974	2144
55°	1658	2007	2207
60°	1623	2048	2265
65°	1548	2085	2322
70°	1470	2090	2320
75°	1346	2083	2048
80°	1151	1778	1588
85°	904	1007	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.0
10°-20°	184.7	8.7
20°-30°	282.5	13.3
30°-40°	346.2	16.3
40°-50°	372.3	17.5
50°-60°	357.8	16.8
60°-70°	297.9	14.0
70°-80°	182.9	8.6
80°-90°	40.7	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°	531.1	24.9
0°-40°	877.3	41.2
0°-60°	1607.5	75.5
0°-90°	2129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	675	668	673	673	673	64
15°	646	644	657	661	663	182
25°	592	598	617	624	630	272
35°	517	530	558	573	582	324
45°	432	452	489	512	524	333
55°	337	366	408	436	448	301
65°	232	267	312	338	348	230
75°	123	161	191	190	188	131
85°	28	42	31	21	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.8	672.8	672.8	672.8	672.8
2.5°	677.0	670.6	673.9	672.8	669.6
5°	674.9	668.5	672.8	672.8	672.8
7.5°	669.6	664.2	670.6	671.7	671.7
10°	664.2	659.9	668.5	669.6	670.6
12.5°	655.6	652.3	663.2	665.3	667.4
15°	645.9	643.9	656.6	661.0	663.2
17.5°	634.2	635.2	649.2	654.6	656.6
20°	621.3	624.5	640.6	645.9	650.3
22.5°	607.3	611.6	628.8	635.2	639.5
25°	592.3	597.6	617.0	624.5	629.9
27.5°	574.0	582.6	604.2	613.8	619.2
30°	555.8	565.5	589.1	600.9	606.2
32.5°	537.6	548.3	575.2	586.9	595.5
35°	517.2	530.1	557.9	573.0	581.6
37.5°	496.8	511.8	541.9	559.0	568.6
40°	475.3	491.5	524.6	544.0	553.6
42.5°	453.9	472.2	506.5	527.9	538.6
45°	432.5	451.8	489.3	511.8	523.6
47.5°	407.8	431.4	468.9	494.6	506.5
50°	384.1	409.9	449.6	476.5	488.2
52.5°	360.5	387.4	429.2	457.1	468.9
55°	336.9	365.9	407.8	435.6	448.5
57.5°	312.2	342.2	385.2	414.2	425.9
60°	287.5	318.7	362.7	389.5	401.2
62.5°	258.5	295.1	338.1	364.8	375.5
65°	231.8	267.2	312.2	338.1	347.7
67.5°	205.0	241.4	285.4	309.1	317.6
70°	178.1	214.7	253.2	275.8	281.1
72.5°	151.3	187.8	224.3	237.1	235.0
75°	123.4	161.0	191.0	190.0	187.8
77.5°	96.6	133.1	151.3	143.8	140.6
80°	70.8	106.3	109.4	102.0	97.7
82.5°	48.3	76.1	68.7	60.1	55.8
85°	27.9	41.8	31.1	21.4	18.3
87.5°	11.8	10.7	3.3	3.3	2.1
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)