

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: P732651

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732651
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-CP250-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

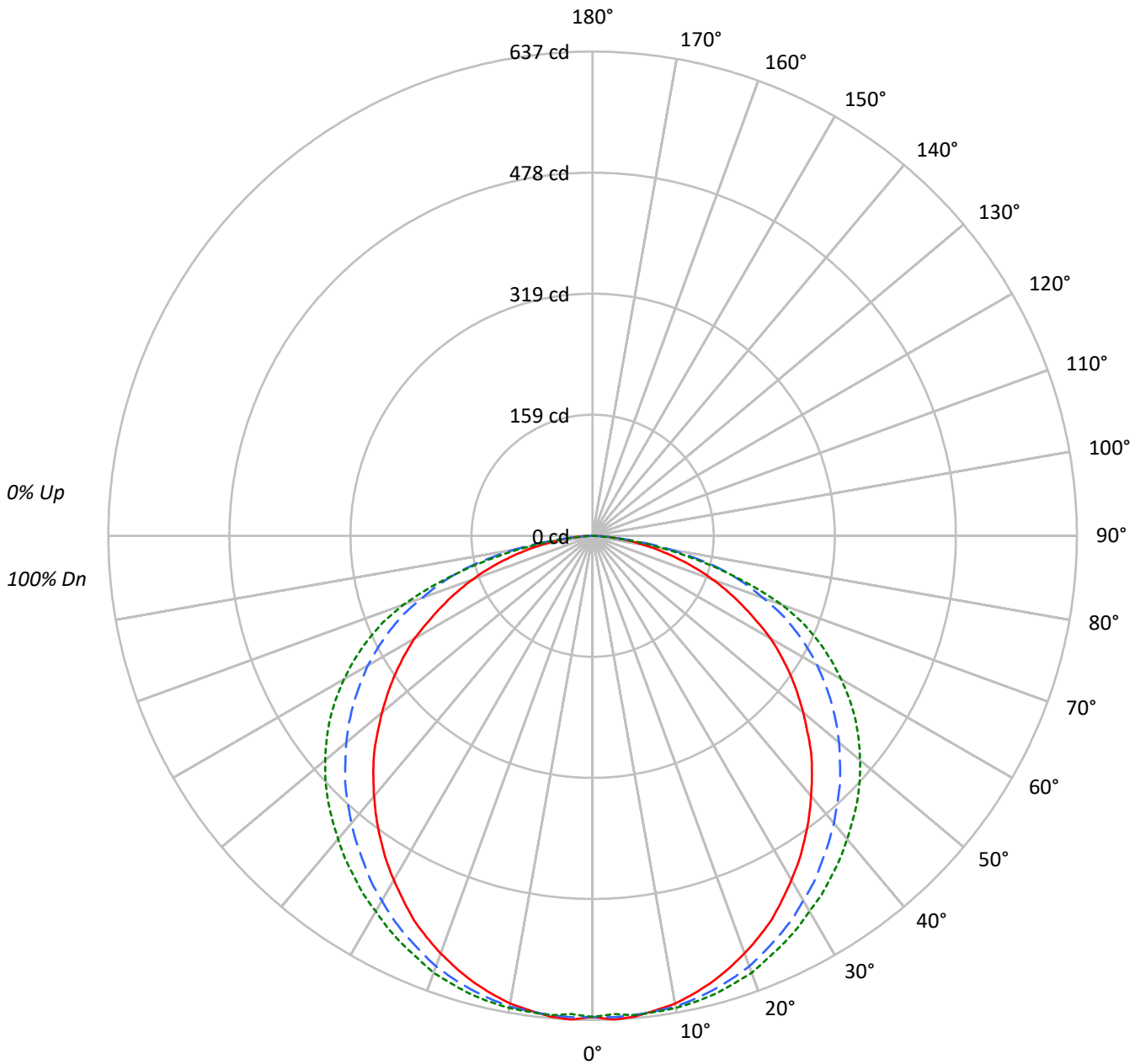
Lumens per Lamp: N/A
Luminaire Lumens: 2003.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1787	1787	1787
5°	1799	1794	1794
10°	1791	1803	1808
15°	1776	1805	1823
20°	1756	1810	1838
25°	1735	1808	1846
30°	1705	1807	1859
35°	1677	1809	1886
40°	1648	1819	1919
45°	1624	1837	1966
50°	1587	1858	2017
55°	1560	1888	2077
60°	1527	1927	2131
65°	1456	1962	2185
70°	1383	1966	2183
75°	1266	1960	1927
80°	1083	1673	1494
85°	852	946	557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	173.8	8.7
20°-30°	265.7	13.3
30°-40°	325.7	16.3
40°-50°	350.3	17.5
50°-60°	336.6	16.8
60°-70°	280.3	14.0
70°-80°	172.1	8.6
80°-90°	38.3	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°	499.7	24.9
0°-40°	825.4	41.2
0°-60°	1512.3	75.5
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	635	629	633	633	633	60
15°	608	606	618	622	624	171
25°	557	562	580	588	593	256
35°	487	499	525	539	547	305
45°	407	425	460	482	493	313
55°	317	344	384	410	422	283
65°	218	251	294	318	327	216
75°	116	152	180	179	177	123
85°	26	39	29	20	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.0	633.0	633.0	633.0	633.0
2.5°	637.0	630.9	634.0	633.0	629.9
5°	635.0	629.0	633.0	633.0	633.0
7.5°	629.9	624.9	630.9	631.9	631.9
10°	624.9	620.9	629.0	629.9	630.9
12.5°	616.8	613.7	623.9	625.9	627.9
15°	607.7	605.7	617.8	621.8	623.9
17.5°	596.7	597.6	610.8	615.8	617.8
20°	584.5	587.6	602.7	607.7	611.8
22.5°	571.4	575.4	591.6	597.6	601.7
25°	557.2	562.3	580.4	587.6	592.6
27.5°	540.0	548.1	568.4	577.5	582.5
30°	523.0	532.0	554.3	565.3	570.4
32.5°	505.8	515.8	541.1	552.2	560.3
35°	486.6	498.8	524.9	539.0	547.2
37.5°	467.4	481.6	509.8	525.9	535.0
40°	447.2	462.4	493.6	511.8	520.9
42.5°	427.0	444.2	476.5	496.7	506.7
45°	406.9	425.0	460.3	481.6	492.6
47.5°	383.6	405.9	441.1	465.3	476.5
50°	361.4	385.6	423.0	448.3	459.3
52.5°	339.2	364.5	403.8	430.1	441.1
55°	316.9	344.2	383.6	409.8	422.0
57.5°	293.7	322.0	362.4	389.7	400.7
60°	270.5	299.9	341.3	366.4	377.5
62.5°	243.2	277.6	318.0	343.2	353.3
65°	218.0	251.3	293.7	318.0	327.1
67.5°	192.9	227.1	268.5	290.8	298.8
70°	167.6	202.0	238.2	259.4	264.5
72.5°	142.4	176.7	211.0	223.1	221.1
75°	116.1	151.5	179.7	178.7	176.7
77.5°	90.9	125.2	142.4	135.3	132.3
80°	66.6	100.0	102.9	95.9	91.9
82.5°	45.5	71.6	64.6	56.5	52.5
85°	26.3	39.3	29.2	20.1	17.2
87.5°	11.1	10.1	3.1	3.1	2.0
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)