

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: P732646

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732646
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-CP187-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

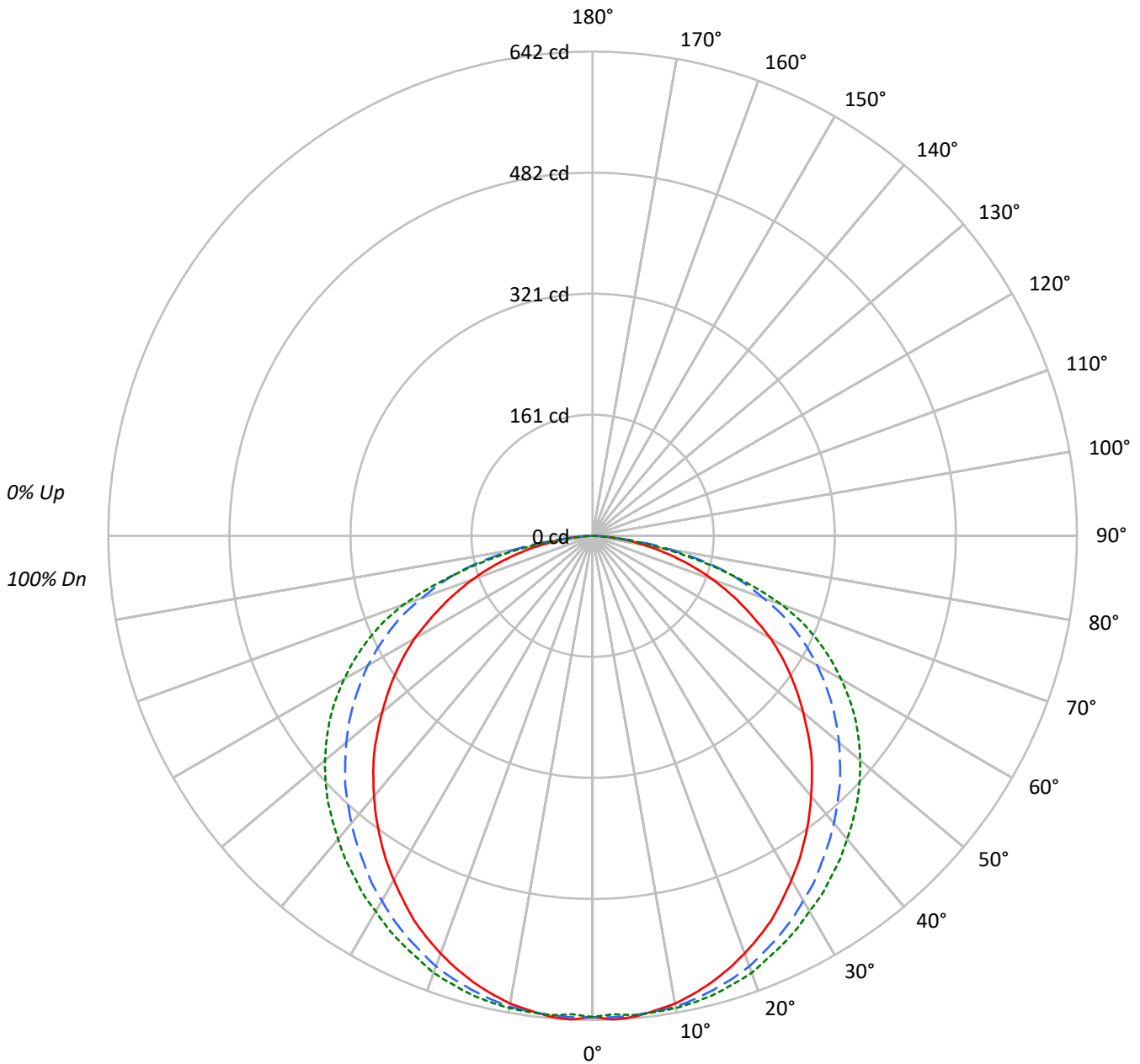
Lumens per Lamp: N/A
Luminaire Lumens: 2019.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1801	1801	1801
5°	1814	1808	1808
10°	1805	1817	1823
15°	1790	1820	1838
20°	1770	1825	1852
25°	1749	1822	1860
30°	1718	1821	1874
35°	1690	1823	1900
40°	1661	1833	1934
45°	1637	1852	1982
50°	1600	1872	2033
55°	1572	1903	2093
60°	1539	1942	2148
65°	1468	1978	2202
70°	1394	1982	2200
75°	1276	1976	1942
80°	1091	1687	1505
85°	858	955	560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	175.2	8.7
20°-30°	267.9	13.3
30°-40°	328.3	16.3
40°-50°	353.1	17.5
50°-60°	339.3	16.8
60°-70°	282.5	14.0
70°-80°	173.4	8.6
80°-90°	38.6	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°	503.7	24.9
0°-40°	832.0	41.2
0°-60°	1524.4	75.5
0°-90°	2019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	640	634	638	638	638	61
15°	613	611	623	627	629	173
25°	562	567	585	592	597	258
35°	490	503	529	543	552	307
45°	410	428	464	485	496	316
55°	320	347	387	413	425	285
65°	220	253	296	321	330	218
75°	117	153	181	180	178	124
85°	26	40	30	20	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.1	638.1	638.1	638.1	638.1
2.5°	642.0	636.0	639.1	638.1	635.0
5°	640.1	634.0	638.1	638.1	638.1
7.5°	635.0	629.9	636.0	637.0	637.0
10°	629.9	625.8	634.0	635.0	636.0
12.5°	621.7	618.6	628.9	630.9	632.9
15°	612.6	610.6	622.7	626.8	628.9
17.5°	601.4	602.4	615.7	620.7	622.7
20°	589.2	592.3	607.5	612.6	616.7
22.5°	575.9	580.0	596.3	602.4	606.5
25°	561.7	566.8	585.1	592.3	597.3
27.5°	544.3	552.5	572.9	582.1	587.2
30°	527.1	536.3	558.7	569.8	574.9
32.5°	509.8	519.9	545.5	556.6	564.8
35°	490.5	502.7	529.1	543.3	551.5
37.5°	471.2	485.4	513.9	530.1	539.3
40°	450.7	466.1	497.5	515.9	525.0
42.5°	430.4	447.8	480.3	500.6	510.8
45°	410.1	428.4	464.0	485.4	496.5
47.5°	386.7	409.1	444.7	469.1	480.3
50°	364.3	388.7	426.3	451.8	463.0
52.5°	341.9	367.4	407.0	433.5	444.7
55°	319.5	347.0	386.7	413.1	425.3
57.5°	296.1	324.5	365.3	392.8	403.9
60°	272.7	302.3	344.0	369.4	380.5
62.5°	245.2	279.8	320.6	346.0	356.1
65°	219.8	253.3	296.1	320.6	329.7
67.5°	194.4	229.0	270.7	293.1	301.1
70°	168.9	203.6	240.1	261.5	266.6
72.5°	143.5	178.1	212.7	224.9	222.9
75°	117.0	152.7	181.2	180.2	178.1
77.5°	91.6	126.2	143.5	136.3	133.4
80°	67.1	100.8	103.8	96.7	92.6
82.5°	45.8	72.2	65.1	57.0	52.9
85°	26.5	39.6	29.5	20.3	17.3
87.5°	11.1	10.2	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)