

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: P732648

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732648
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-CP187-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

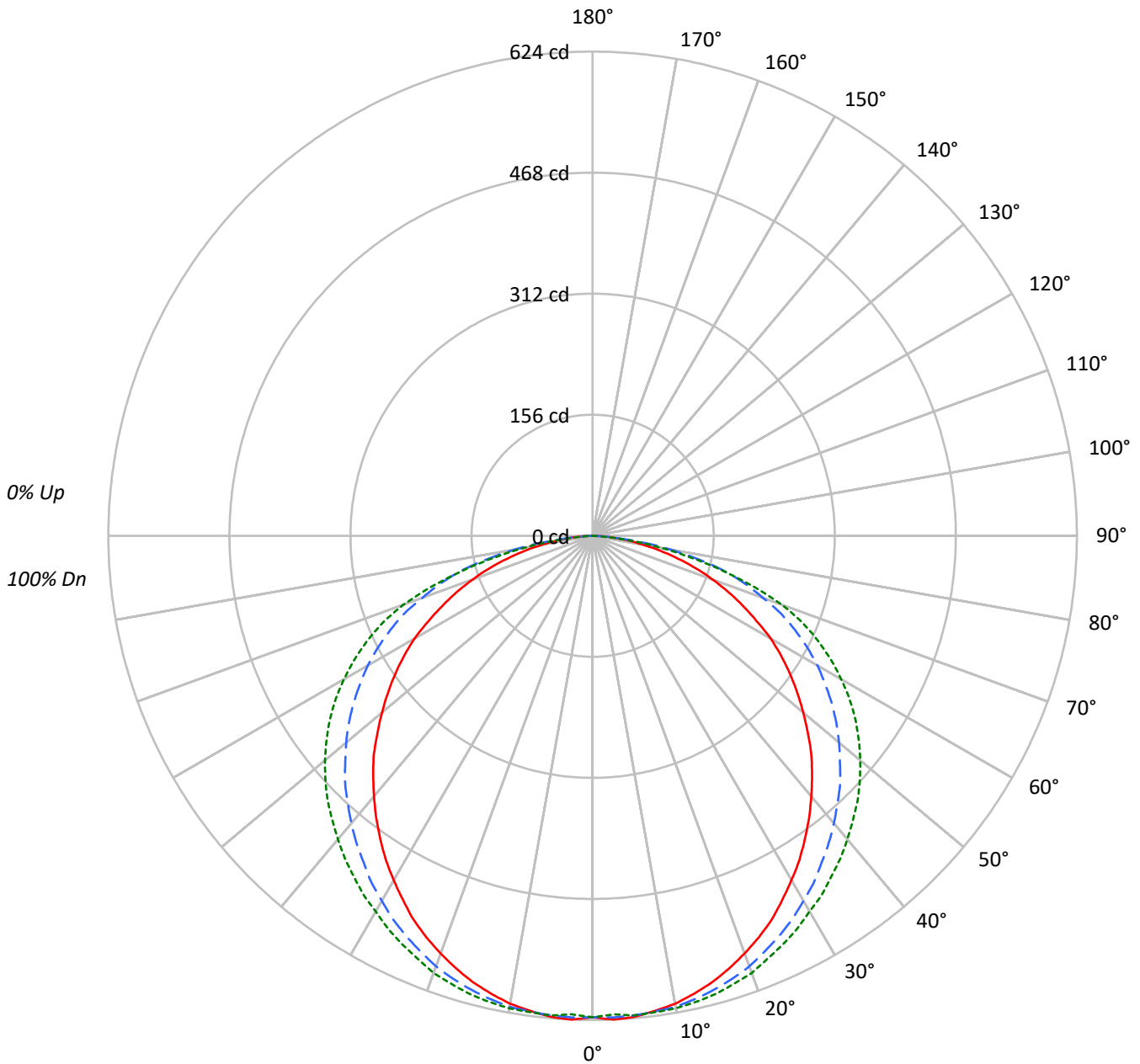
Lumens per Lamp: N/A
Luminaire Lumens: 1963.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1751	1751	1751
5°	1763	1758	1758
10°	1755	1767	1772
15°	1740	1769	1787
20°	1721	1774	1801
25°	1701	1772	1809
30°	1670	1770	1822
35°	1643	1773	1848
40°	1615	1782	1881
45°	1592	1801	1927
50°	1555	1820	1977
55°	1529	1850	2035
60°	1497	1888	2089
65°	1427	1923	2141
70°	1355	1926	2139
75°	1241	1921	1888
80°	1061	1640	1465
85°	836	929	547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.0
10°-20°	170.3	8.7
20°-30°	260.4	13.3
30°-40°	319.2	16.3
40°-50°	343.3	17.5
50°-60°	329.9	16.8
60°-70°	274.7	14.0
70°-80°	168.6	8.6
80°-90°	37.6	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°	489.7	24.9
0°-40°	808.9	41.2
0°-60°	1482.1	75.5
0°-90°	1963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	622	616	620	620	620	59
15°	596	594	606	609	612	168
25°	546	551	569	576	581	251
35°	477	489	514	528	536	298
45°	399	417	451	472	483	307
55°	311	337	376	402	414	277
65°	214	246	288	312	321	212
75°	114	148	176	175	173	121
85°	26	38	29	20	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.4	620.4	620.4	620.4	620.4
2.5°	624.2	618.3	621.3	620.4	617.4
5°	622.3	616.4	620.4	620.4	620.4
7.5°	617.4	612.4	618.3	619.3	619.3
10°	612.4	608.5	616.4	617.4	618.3
12.5°	604.5	601.5	611.5	613.4	615.3
15°	595.6	593.7	605.5	609.4	611.5
17.5°	584.7	585.7	598.6	603.5	605.5
20°	572.8	575.8	590.6	595.6	599.6
22.5°	559.9	563.9	579.8	585.7	589.7
25°	546.1	551.0	568.9	575.8	580.8
27.5°	529.2	537.2	557.1	566.0	570.9
30°	512.5	521.4	543.2	554.0	559.0
32.5°	495.7	505.5	530.3	541.2	549.1
35°	476.9	488.8	514.4	528.3	536.2
37.5°	458.1	471.9	499.6	515.4	524.3
40°	438.2	453.2	483.7	501.6	510.5
42.5°	418.5	435.3	467.0	486.7	496.6
45°	398.7	416.6	451.1	471.9	482.8
47.5°	376.0	397.8	432.3	456.0	467.0
50°	354.2	377.9	414.5	439.3	450.1
52.5°	332.4	357.2	395.7	421.5	432.3
55°	310.6	337.3	376.0	401.6	413.5
57.5°	287.9	315.5	355.2	381.9	392.7
60°	265.1	293.9	334.4	359.1	370.0
62.5°	238.4	272.1	311.7	336.4	346.2
65°	213.7	246.3	287.9	311.7	320.6
67.5°	189.0	222.6	263.2	285.0	292.8
70°	164.2	197.9	233.4	254.3	259.2
72.5°	139.5	173.1	206.8	218.6	216.7
75°	113.8	148.4	176.1	175.2	173.1
77.5°	89.1	122.7	139.5	132.6	129.7
80°	65.3	98.0	100.9	94.0	90.1
82.5°	44.5	70.2	63.3	55.4	51.4
85°	25.8	38.5	28.7	19.7	16.9
87.5°	10.8	9.9	3.0	3.0	1.9
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)