

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: P732647

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732647  
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-CP187-3000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

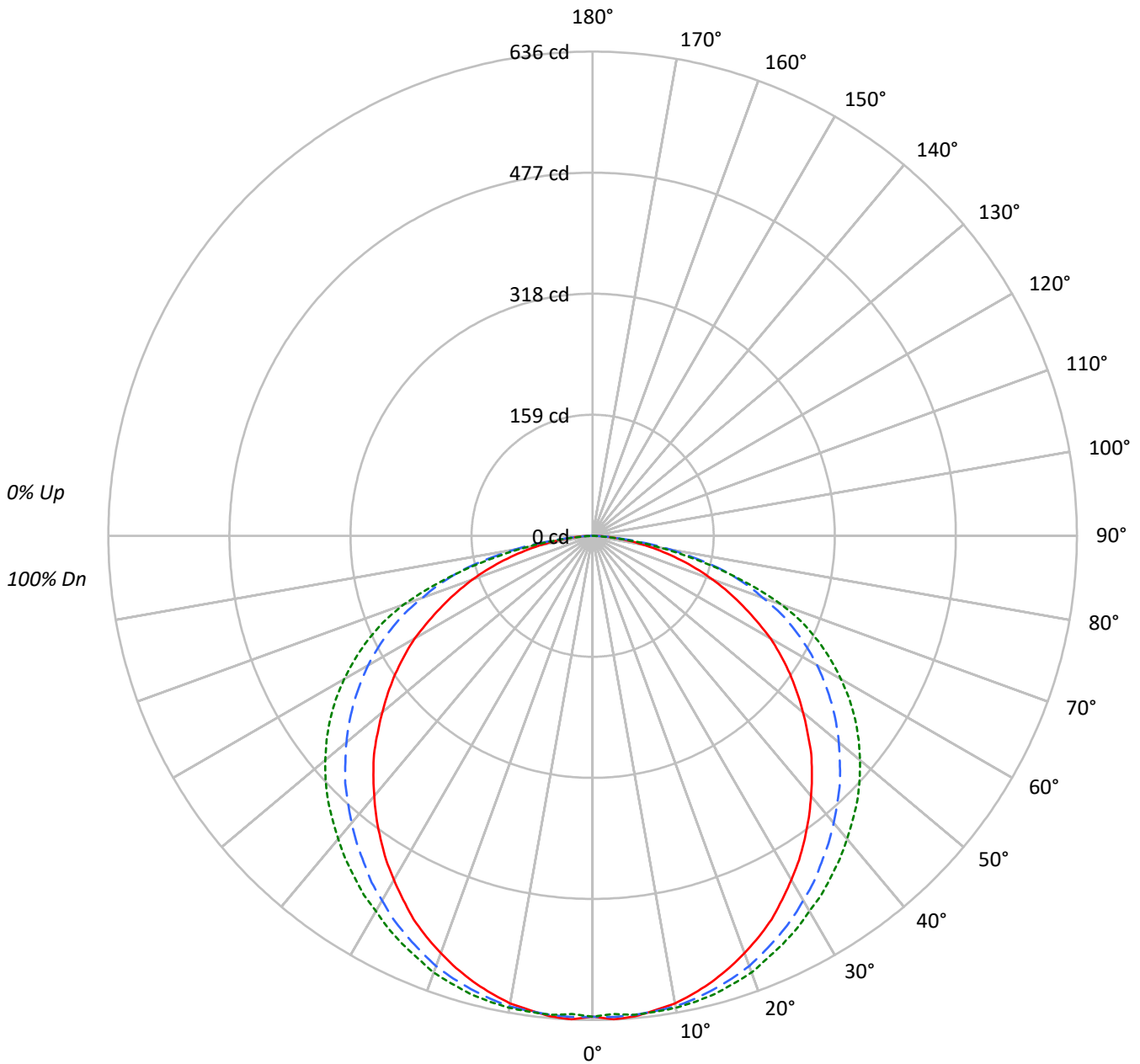
Lumens per Lamp: N/A  
Luminaire Lumens: 1999.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P732647

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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°	1783	1783	1783
5°	1796	1790	1790
10°	1788	1799	1805
15°	1772	1802	1820
20°	1752	1807	1834
25°	1732	1804	1842
30°	1701	1803	1855
35°	1673	1805	1882
40°	1645	1815	1915
45°	1621	1834	1962
50°	1584	1854	2013
55°	1557	1884	2072
60°	1524	1923	2127
65°	1453	1958	2181
70°	1380	1962	2179
75°	1264	1957	1923
80°	1079	1669	1491
85°	849	946	557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.0	3.0
10°-20°	173.4	8.7
20°-30°	265.2	13.3
30°-40°	325.1	16.3
40°-50°	349.6	17.5
50°-60°	336.0	16.8
60°-70°	279.7	14.0
70°-80°	171.7	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°	498.7	24.9
0°-40°	823.7	41.2
0°-60°	1509.3	75.5
0°-90°	1999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	634	628	632	632	632	60
15°	606	604	617	621	623	171
25°	556	561	579	586	591	256
35°	486	498	524	538	546	304
45°	406	424	459	481	492	312
55°	316	344	383	409	421	283
65°	218	251	293	317	326	216
75°	116	151	179	178	176	123
85°	26	39	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°	631.8	631.8	631.8	631.8	631.8
2.5°	635.7	629.7	632.7	631.8	628.7
5°	633.7	627.7	631.8	631.8	631.8
7.5°	628.7	623.7	629.7	630.7	630.7
10°	623.7	619.6	627.7	628.7	629.7
12.5°	615.6	612.5	622.7	624.6	626.6
15°	606.5	604.5	616.6	620.6	622.7
17.5°	595.5	596.4	609.6	614.6	616.6
20°	583.3	586.4	601.5	606.5	610.5
22.5°	570.2	574.3	590.4	596.4	600.5
25°	556.1	561.1	579.3	586.4	591.4
27.5°	538.9	547.0	567.3	576.3	581.4
30°	521.9	531.0	553.2	564.2	569.2
32.5°	504.7	514.8	540.1	551.1	559.2
35°	485.6	497.8	523.9	538.0	546.1
37.5°	466.5	480.6	508.8	524.8	533.9
40°	446.3	461.5	492.6	510.8	519.8
42.5°	426.2	443.3	475.6	495.7	505.7
45°	406.1	424.2	459.4	480.6	491.6
47.5°	382.9	405.1	440.3	464.4	475.6
50°	360.7	384.8	422.1	447.4	458.4
52.5°	338.5	363.8	403.0	429.2	440.3
55°	316.3	343.5	382.9	409.0	421.1
57.5°	293.1	321.3	361.7	388.9	399.9
60°	270.0	299.3	340.6	365.7	376.7
62.5°	242.7	277.1	317.4	342.5	352.6
65°	217.6	250.8	293.1	317.4	326.5
67.5°	192.5	226.7	268.0	290.2	298.2
70°	167.2	201.6	237.7	258.9	264.0
72.5°	142.1	176.3	210.6	222.6	220.7
75°	115.9	151.2	179.4	178.4	176.3
77.5°	90.7	124.9	142.1	135.0	132.0
80°	66.4	99.8	102.7	95.8	91.7
82.5°	45.4	71.5	64.5	56.4	52.4
85°	26.2	39.2	29.2	20.1	17.2
87.5°	11.0	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)