

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: P732631

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-S-B2750-W2D-CP375-2700K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

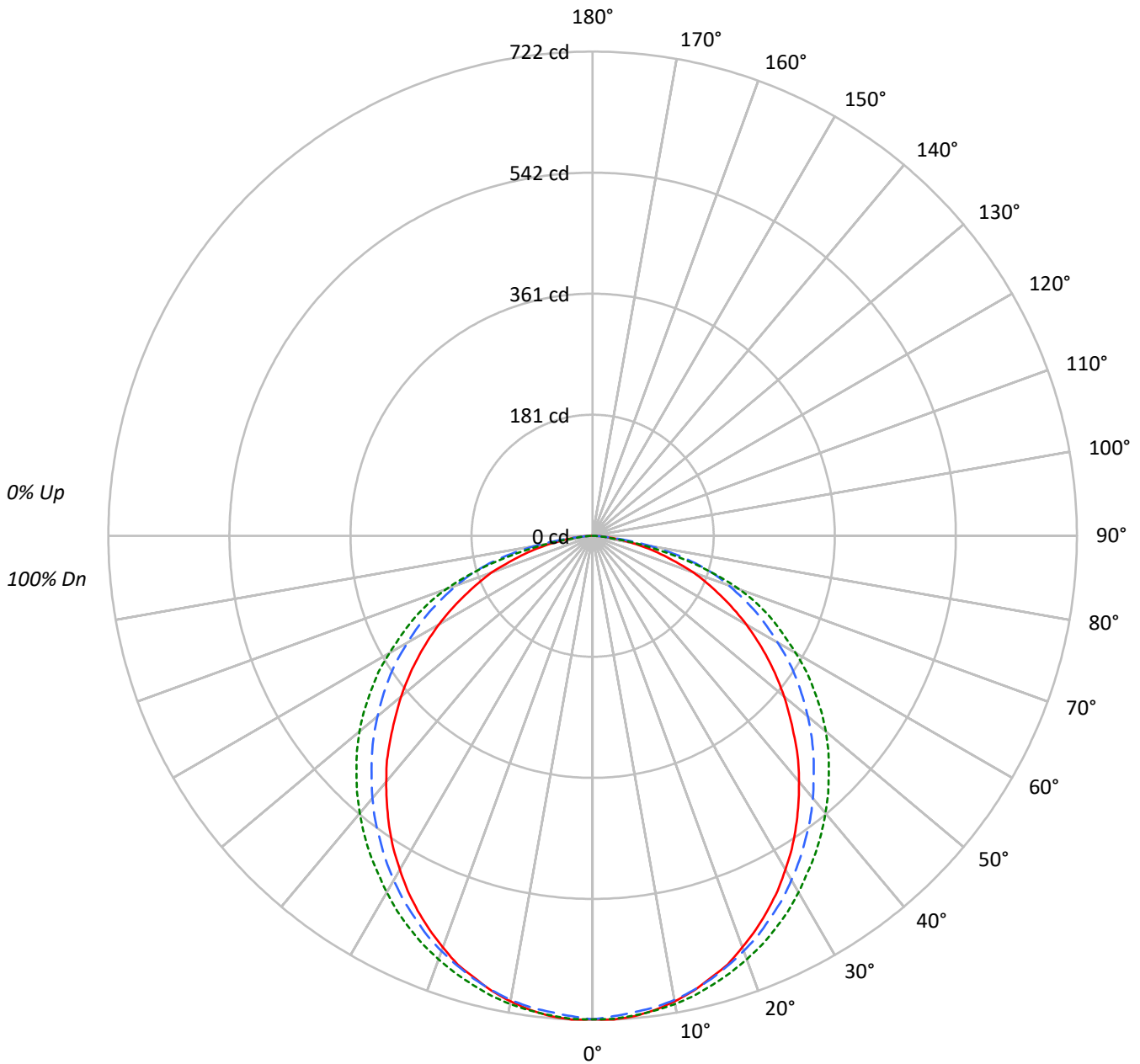
Lumens per Lamp: N/A  
Luminaire Lumens: 2020.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2035	2035	2035
5°	2038	2021	2034
10°	2021	2015	2032
15°	1993	1999	2025
20°	1962	1980	2019
25°	1921	1956	2012
30°	1873	1932	2001
35°	1822	1905	1995
40°	1764	1882	1989
45°	1699	1859	1987
50°	1636	1838	1992
55°	1567	1824	1986
60°	1493	1798	1973
65°	1405	1793	1974
70°	1323	1778	1917
75°	1147	1737	1638
80°	928	1401	1091
85°	615	486	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	3.4
10°-20°	193.8	9.6
20°-30°	290.7	14.4
30°-40°	346.7	17.2
40°-50°	358.4	17.7
50°-60°	327.3	16.2
60°-70°	257.5	12.7
70°-80°	149.9	7.4
80°-90°	27.6	1.4
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°	552.5	27.4
0°-40°	899.2	44.5
0°-60°	1584.9	78.5
0°-90°	2020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	719	717	713	719	718	68
15°	682	683	684	693	693	192
25°	617	620	628	643	646	284
35°	529	536	553	574	579	331
45°	426	440	466	492	498	329
55°	318	336	371	398	404	285
65°	210	232	268	290	296	209
75°	105	130	159	156	150	112
85°	19	27	15	12	10	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	721.1	721.1	721.1	721.1	721.1
2.5°	722.1	720.1	717.1	722.1	721.1
5°	719.1	717.1	713.1	719.1	718.0
7.5°	713.1	711.0	709.1	715.1	714.1
10°	705.0	704.1	703.1	710.1	709.1
12.5°	695.1	695.1	694.1	702.1	702.1
15°	682.1	683.1	684.1	693.0	693.0
17.5°	670.1	669.1	672.0	682.1	683.1
20°	653.0	655.0	659.0	671.0	672.0
22.5°	635.9	638.0	645.0	657.1	660.0
25°	616.9	620.0	628.0	642.9	646.0
27.5°	596.9	601.0	611.9	628.0	630.9
30°	574.8	580.8	592.9	610.9	614.0
32.5°	552.9	558.9	573.8	591.9	595.9
35°	528.8	535.8	552.9	573.8	578.9
37.5°	503.8	512.7	532.9	553.8	559.9
40°	478.7	488.8	510.8	532.9	539.9
42.5°	453.7	463.8	487.7	512.7	519.8
45°	425.6	439.7	465.7	491.7	497.8
47.5°	398.6	413.7	442.7	468.7	476.8
50°	372.6	387.6	418.6	445.7	453.7
52.5°	345.6	361.5	394.6	422.7	429.6
55°	318.5	335.5	370.6	397.6	403.6
57.5°	291.5	309.5	345.6	371.6	378.6
60°	264.5	283.5	318.5	344.5	349.5
62.5°	237.3	257.3	293.4	316.5	321.5
65°	210.3	232.3	268.4	289.5	295.5
67.5°	184.3	206.3	241.4	261.4	266.4
70°	160.3	180.3	215.4	230.3	232.3
72.5°	130.2	155.2	189.2	197.3	192.3
75°	105.2	130.2	159.3	156.2	150.2
77.5°	80.1	105.2	124.2	114.1	106.2
80°	57.1	82.1	86.2	71.1	67.1
82.5°	37.1	57.1	48.1	37.1	30.1
85°	19.0	27.0	15.0	12.0	10.1
87.5°	6.0	4.0	2.0	2.0	1.0
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)