

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: P732626

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732626
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-CP250-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

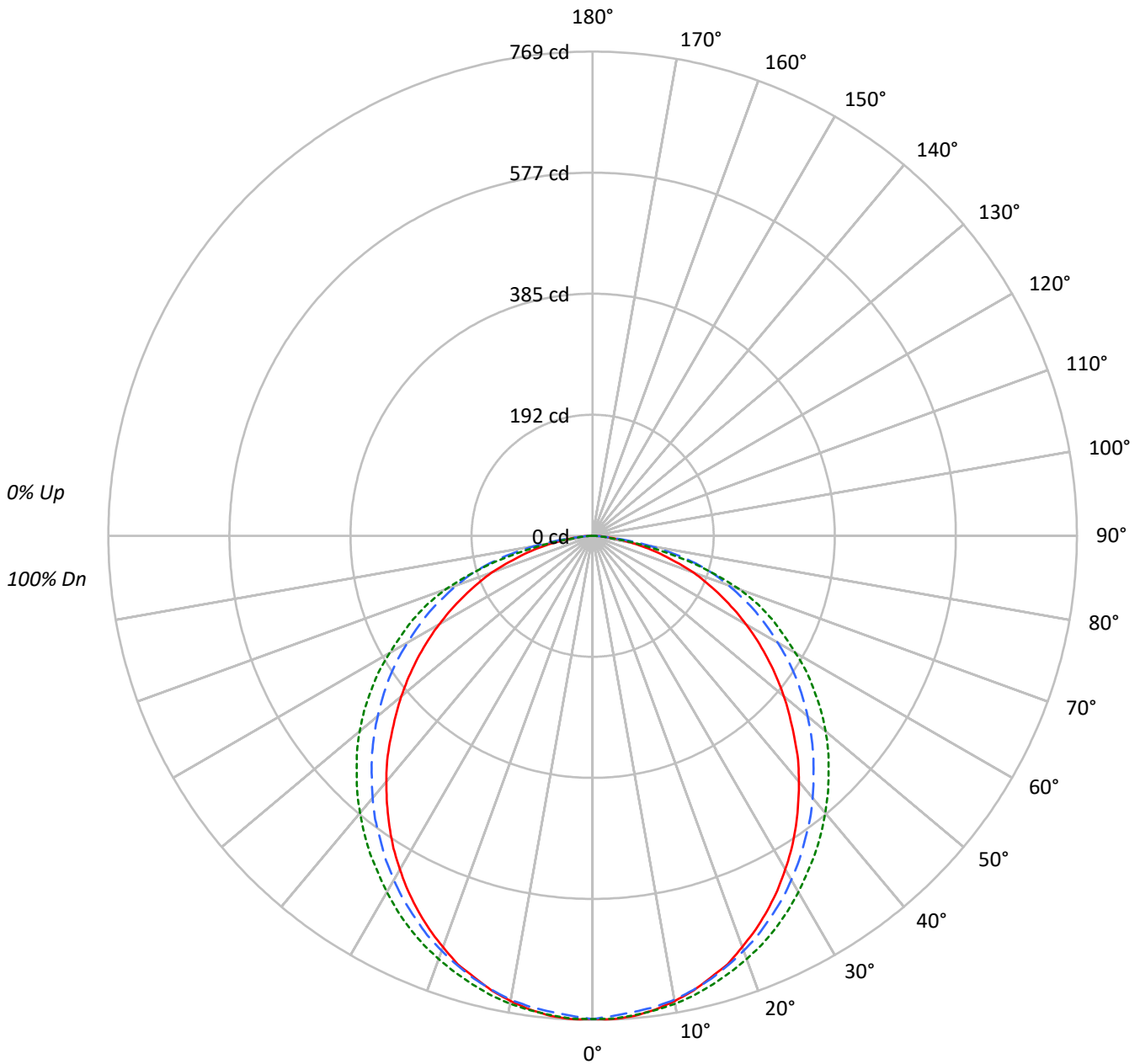
Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{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	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°	2166	2166	2166
5°	2169	2151	2166
10°	2151	2145	2163
15°	2122	2128	2155
20°	2088	2107	2149
25°	2045	2082	2142
30°	1994	2057	2130
35°	1939	2028	2123
40°	1877	2003	2117
45°	1808	1979	2115
50°	1742	1956	2121
55°	1668	1941	2114
60°	1589	1914	2100
65°	1495	1908	2101
70°	1408	1892	2041
75°	1220	1849	1744
80°	987	1491	1161
85°	654	515	347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.4
10°-20°	206.2	9.6
20°-30°	309.4	14.4
30°-40°	369.0	17.2
40°-50°	381.5	17.7
50°-60°	348.3	16.2
60°-70°	274.1	12.7
70°-80°	159.6	7.4
80°-90°	29.4	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°	588.1	27.4
0°-40°	957.1	44.5
0°-60°	1686.9	78.5
0°-90°	2150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	765	763	759	765	764	73
15°	726	727	728	738	738	205
25°	657	660	668	684	688	302
35°	563	570	588	611	616	352
45°	453	468	496	523	530	350
55°	339	357	394	423	430	303
65°	224	247	286	308	314	222
75°	112	139	170	166	160	119
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.5	767.5	767.5	767.5	767.5
2.5°	768.6	766.5	763.2	768.6	767.5
5°	765.4	763.2	759.0	765.4	764.3
7.5°	759.0	756.8	754.7	761.1	760.1
10°	750.4	749.4	748.3	755.8	754.7
12.5°	739.8	739.8	738.8	747.3	747.3
15°	726.0	727.0	728.1	737.6	737.6
17.5°	713.2	712.1	715.3	726.0	727.0
20°	695.0	697.1	701.4	714.2	715.3
22.5°	676.9	679.1	686.5	699.3	702.5
25°	656.6	659.9	668.4	684.3	687.6
27.5°	635.3	639.6	651.3	668.4	671.5
30°	611.8	618.2	631.0	650.2	653.5
32.5°	588.4	594.8	610.8	630.0	634.3
35°	562.8	570.3	588.4	610.8	616.1
37.5°	536.2	545.7	567.2	589.5	595.9
40°	509.5	520.3	543.6	567.2	574.6
42.5°	482.9	493.6	519.1	545.7	553.3
45°	453.0	468.0	495.7	523.4	529.8
47.5°	424.3	440.3	471.1	498.8	507.5
50°	396.6	412.5	445.5	474.4	482.9
52.5°	367.8	384.8	419.9	449.9	457.3
55°	339.0	357.1	394.5	423.2	429.6
57.5°	310.2	329.4	367.8	395.5	403.0
60°	281.5	301.7	339.0	366.6	372.0
62.5°	252.6	273.9	312.3	336.9	342.2
65°	223.9	247.3	285.7	308.1	314.5
67.5°	196.2	219.6	256.9	278.2	283.6
70°	170.6	191.9	229.2	245.2	247.3
72.5°	138.6	165.2	201.4	210.0	204.7
75°	111.9	138.6	169.5	166.3	159.9
77.5°	85.3	111.9	132.2	121.5	113.0
80°	60.7	87.4	91.7	75.6	71.4
82.5°	39.4	60.7	51.2	39.4	32.0
85°	20.2	28.7	15.9	12.8	10.7
87.5°	6.4	4.3	2.1	2.1	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)