

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: P732634

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732634
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-CP375-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

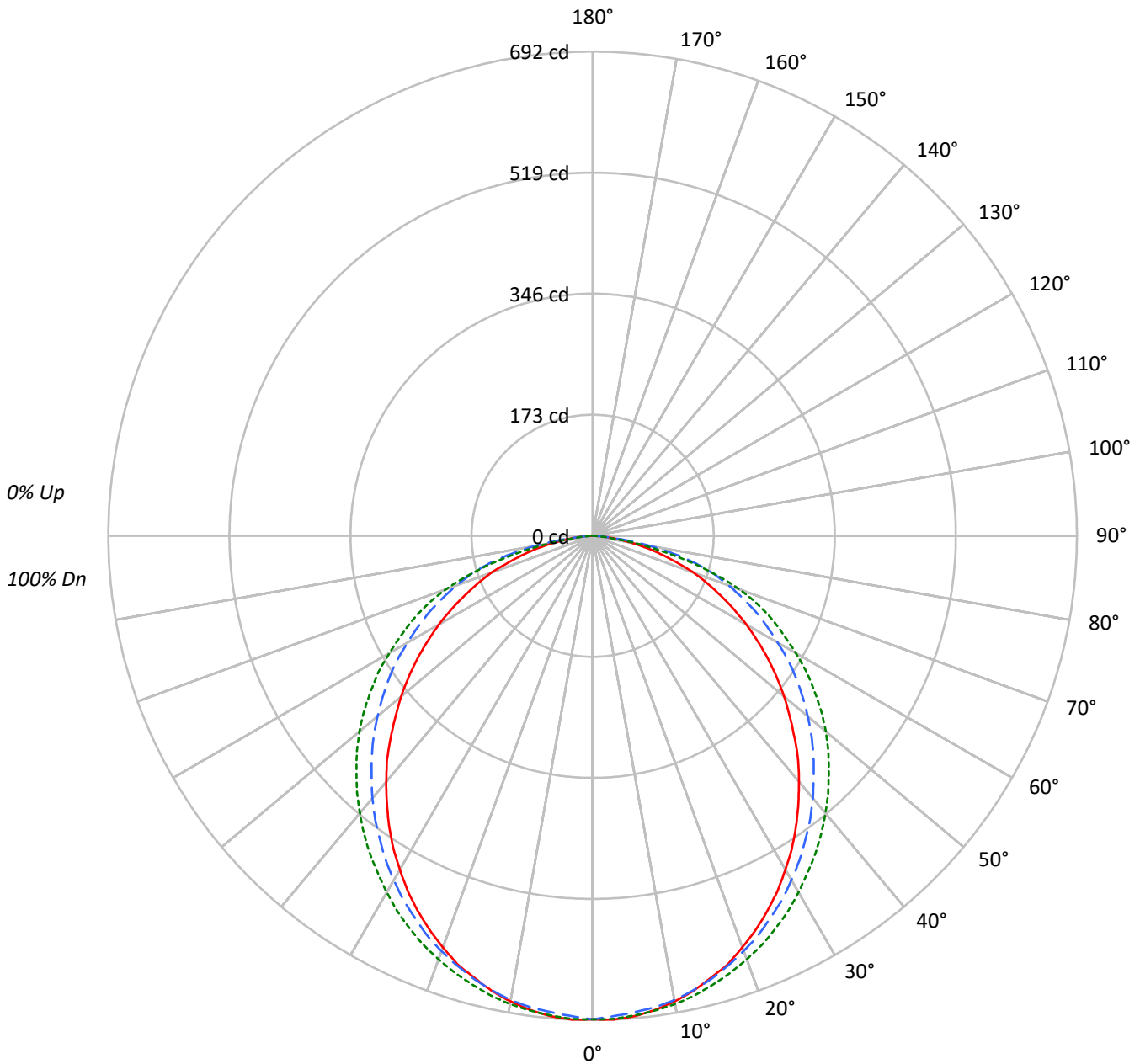
Lumens per Lamp: N/A
Luminaire Lumens: 1936.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1951	1951	1951
5°	1953	1937	1950
10°	1937	1931	1948
15°	1910	1916	1941
20°	1880	1897	1935
25°	1842	1875	1928
30°	1796	1852	1918
35°	1746	1826	1912
40°	1691	1804	1906
45°	1628	1782	1905
50°	1568	1762	1909
55°	1502	1748	1904
60°	1431	1723	1891
65°	1346	1718	1892
70°	1268	1703	1838
75°	1099	1665	1570
80°	889	1343	1045
85°	589	463	311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.4
10°-20°	185.7	9.6
20°-30°	278.6	14.4
30°-40°	332.3	17.2
40°-50°	343.5	17.7
50°-60°	313.6	16.2
60°-70°	246.8	12.7
70°-80°	143.7	7.4
80°-90°	26.5	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°	529.5	27.4
0°-40°	861.8	44.5
0°-60°	1519.0	78.5
0°-90°	1936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	689	687	684	689	688	65
15°	654	655	656	664	664	184
25°	591	594	602	616	619	272
35°	507	514	530	550	555	317
45°	408	421	446	471	477	315
55°	305	322	355	381	387	273
65°	202	223	257	278	283	200
75°	101	125	153	150	144	107
85°	18	26	14	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.1	691.1	691.1	691.1	691.1
2.5°	692.1	690.2	687.2	692.1	691.1
5°	689.2	687.2	683.5	689.2	688.2
7.5°	683.5	681.5	679.6	685.4	684.4
10°	675.7	674.8	673.8	680.5	679.6
12.5°	666.2	666.2	665.2	672.9	672.9
15°	653.7	654.7	655.6	664.2	664.2
17.5°	642.2	641.3	644.1	653.7	654.7
20°	625.8	627.7	631.6	643.1	644.1
22.5°	609.5	611.5	618.2	629.7	632.6
25°	591.3	594.2	601.9	616.2	619.1
27.5°	572.1	576.0	586.4	601.9	604.7
30°	550.9	556.7	568.2	585.5	588.4
32.5°	529.9	535.6	550.0	567.3	571.2
35°	506.8	513.5	529.9	550.0	554.8
37.5°	482.8	491.4	510.7	530.8	536.6
40°	458.8	468.5	489.5	510.7	517.4
42.5°	434.8	444.5	467.4	491.4	498.2
45°	407.9	421.4	446.4	471.3	477.1
47.5°	382.0	396.5	424.2	449.2	456.9
50°	357.1	371.4	401.2	427.2	434.8
52.5°	331.2	346.5	378.1	405.1	411.8
55°	305.2	321.6	355.2	381.1	386.8
57.5°	279.3	296.6	331.2	356.1	362.9
60°	253.5	271.7	305.2	330.2	335.0
62.5°	227.5	246.6	281.2	303.3	308.2
65°	201.6	222.7	257.2	277.5	283.2
67.5°	176.7	197.7	231.4	250.5	255.3
70°	153.6	172.8	206.4	220.8	222.7
72.5°	124.8	148.8	181.4	189.1	184.3
75°	100.8	124.8	152.7	149.7	144.0
77.5°	76.8	100.8	119.0	109.4	101.7
80°	54.7	78.7	82.6	68.1	64.3
82.5°	35.5	54.7	46.1	35.5	28.8
85°	18.2	25.9	14.3	11.5	9.6
87.5°	5.8	3.9	1.9	1.9	0.9
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)