

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: P732502

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732502
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: 14FCZ2-20-S-B2750-W2D-CP250-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

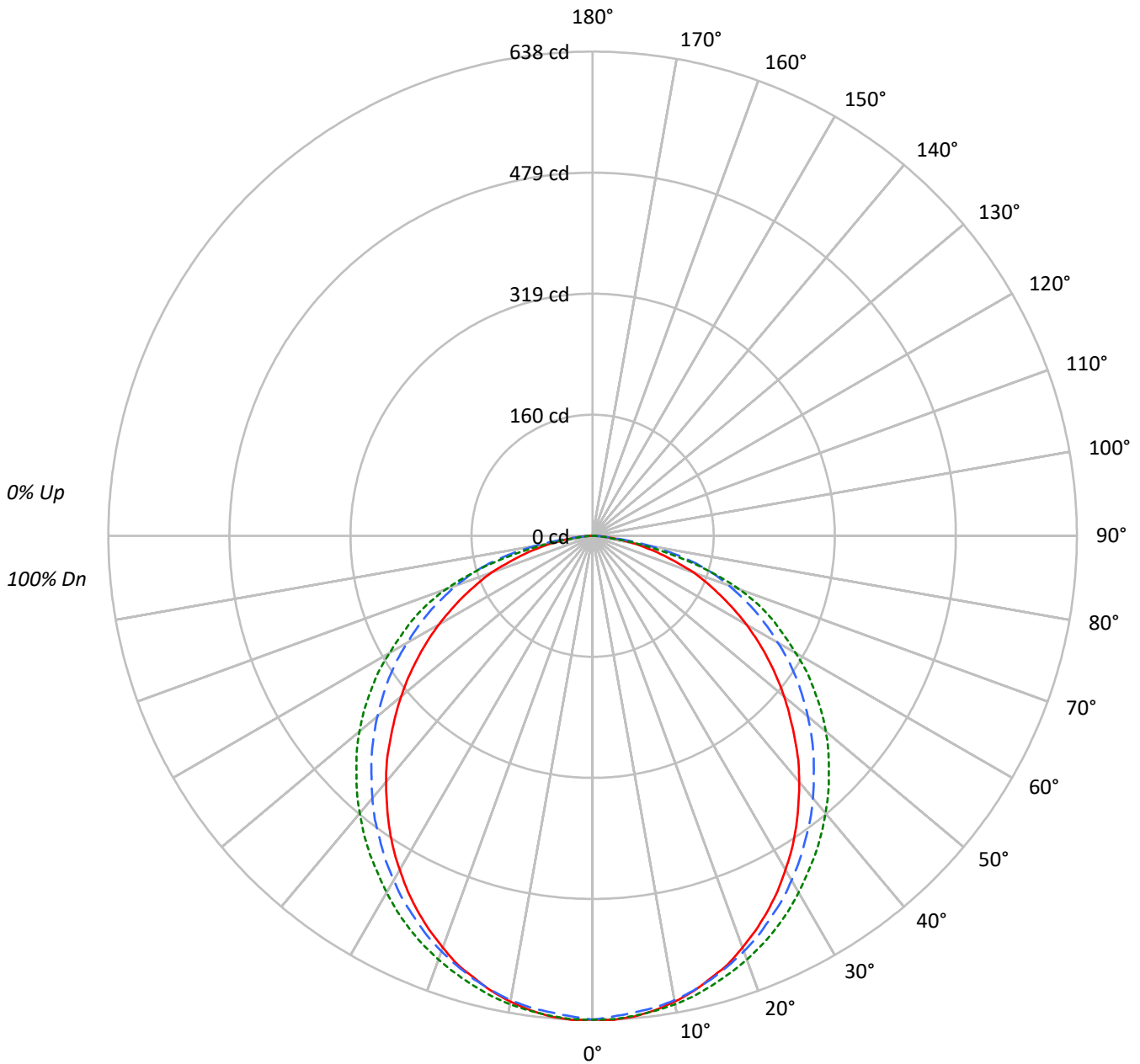
Lumens per Lamp: N/A
Luminaire Lumens: 1786.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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°	1800	1800	1800
5°	1802	1786	1799
10°	1787	1782	1797
15°	1762	1767	1790
20°	1734	1750	1785
25°	1699	1729	1779
30°	1656	1709	1770
35°	1611	1684	1764
40°	1560	1664	1759
45°	1502	1644	1757
50°	1446	1625	1761
55°	1386	1613	1756
60°	1320	1590	1744
65°	1242	1585	1745
70°	1169	1571	1695
75°	1014	1536	1448
80°	821	1239	966
85°	544	428	288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.4
10°-20°	171.3	9.6
20°-30°	257.0	14.4
30°-40°	306.5	17.2
40°-50°	316.9	17.7
50°-60°	289.4	16.2
60°-70°	227.7	12.7
70°-80°	132.5	7.4
80°-90°	24.4	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°	488.5	27.4
0°-40°	795.1	44.5
0°-60°	1401.3	78.5
0°-90°	1786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	636	634	630	636	635	60
15°	603	604	605	613	613	170
25°	546	548	555	568	571	251
35°	468	474	489	507	512	292
45°	376	389	412	435	440	291
55°	282	297	328	352	357	252
65°	186	205	237	256	261	185
75°	93	115	141	138	133	99
85°	17	24	13	11	9	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.6	637.6	637.6	637.6	637.6
2.5°	638.4	636.7	634.0	638.4	637.6
5°	635.8	634.0	630.5	635.8	634.9
7.5°	630.5	628.7	626.9	632.3	631.4
10°	623.4	622.5	621.6	627.8	626.9
12.5°	614.6	614.6	613.7	620.8	620.8
15°	603.1	603.9	604.8	612.7	612.7
17.5°	592.4	591.6	594.2	603.1	603.9
20°	577.4	579.1	582.7	593.3	594.2
22.5°	562.3	564.1	570.3	580.9	583.5
25°	545.5	548.2	555.2	568.5	571.2
27.5°	527.8	531.4	541.0	555.2	557.8
30°	508.2	513.6	524.2	540.1	542.9
32.5°	488.8	494.1	507.4	523.3	526.9
35°	467.5	473.7	488.8	507.4	511.8
37.5°	445.4	453.3	471.1	489.7	495.0
40°	423.3	432.2	451.6	471.1	477.3
42.5°	401.1	410.0	431.2	453.3	459.6
45°	376.3	388.8	411.8	434.8	440.1
47.5°	352.4	365.8	391.4	414.4	421.5
50°	329.4	342.7	370.1	394.1	401.1
52.5°	305.6	319.7	348.8	373.7	379.9
55°	281.6	296.7	327.7	351.6	356.9
57.5°	257.7	273.7	305.6	328.6	334.7
60°	233.8	250.6	281.6	304.6	309.0
62.5°	209.8	227.5	259.4	279.8	284.3
65°	186.0	205.4	237.3	256.0	261.3
67.5°	163.0	182.4	213.4	231.1	235.6
70°	141.7	159.4	190.4	203.7	205.4
72.5°	115.1	137.3	167.3	174.5	170.0
75°	93.0	115.1	140.8	138.1	132.8
77.5°	70.9	93.0	109.8	100.9	93.9
80°	50.5	72.6	76.2	62.8	59.4
82.5°	32.8	50.5	42.5	32.8	26.6
85°	16.8	23.9	13.2	10.6	8.9
87.5°	5.3	3.6	1.7	1.7	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)