

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: P732496

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732496
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-CP187-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

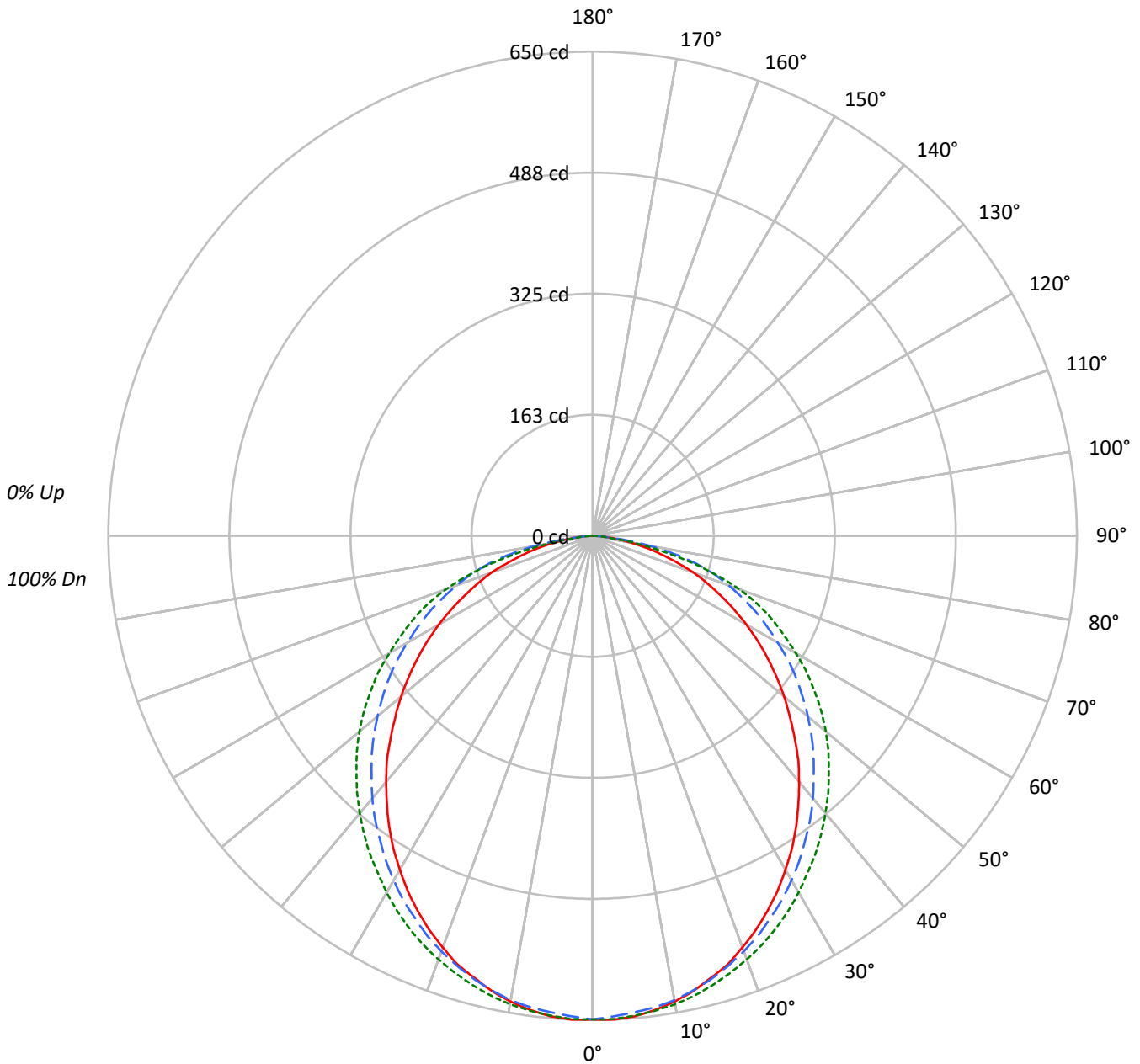
Lumens per Lamp: N/A
Luminaire Lumens: 1819.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1833	1833	1833
5°	1835	1820	1832
10°	1820	1815	1830
15°	1795	1800	1824
20°	1766	1782	1818
25°	1730	1761	1812
30°	1687	1740	1802
35°	1641	1715	1796
40°	1588	1695	1791
45°	1530	1674	1789
50°	1473	1656	1794
55°	1411	1642	1789
60°	1344	1619	1777
65°	1265	1614	1777
70°	1191	1600	1727
75°	1033	1564	1476
80°	836	1261	982
85°	554	437	295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.4
10°-20°	174.5	9.6
20°-30°	261.7	14.4
30°-40°	312.2	17.2
40°-50°	322.8	17.7
50°-60°	294.7	16.2
60°-70°	231.9	12.7
70°-80°	135.0	7.4
80°-90°	24.9	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°	497.5	27.4
0°-40°	809.7	44.5
0°-60°	1427.2	78.5
0°-90°	1819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	648	646	642	648	647	61
15°	614	615	616	624	624	173
25°	556	558	566	579	582	256
35°	476	482	498	517	521	298
45°	383	396	419	443	448	296
55°	287	302	334	358	364	256
65°	189	209	242	261	266	188
75°	95	117	143	141	135	101
85°	17	24	14	11	9	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.4	649.4	649.4	649.4	649.4
2.5°	650.2	648.5	645.7	650.2	649.4
5°	647.6	645.7	642.2	647.6	646.6
7.5°	642.2	640.3	638.5	643.9	643.1
10°	634.9	634.0	633.1	639.4	638.5
12.5°	625.9	625.9	625.0	632.2	632.2
15°	614.2	615.1	616.0	624.1	624.1
17.5°	603.4	602.5	605.2	614.2	615.1
20°	588.0	589.8	593.4	604.3	605.2
22.5°	572.7	574.5	580.8	591.7	594.3
25°	555.5	558.3	565.5	579.0	581.7
27.5°	537.5	541.2	551.0	565.5	568.1
30°	517.6	523.0	533.9	550.1	552.9
32.5°	497.8	503.3	516.7	533.0	536.6
35°	476.2	482.5	497.8	516.7	521.3
37.5°	453.6	461.7	479.8	498.7	504.1
40°	431.1	440.2	459.9	479.8	486.1
42.5°	408.6	417.6	439.2	461.7	468.1
45°	383.2	396.0	419.4	442.8	448.2
47.5°	358.9	372.5	398.6	422.0	429.3
50°	335.5	349.0	377.0	401.4	408.6
52.5°	311.2	325.6	355.3	380.6	386.9
55°	286.8	302.1	333.7	358.1	363.5
57.5°	262.5	278.7	311.2	334.6	340.9
60°	238.1	255.3	286.8	310.2	314.7
62.5°	213.7	231.7	264.2	285.0	289.5
65°	189.4	209.2	241.7	260.7	266.1
67.5°	166.0	185.8	217.4	235.4	239.9
70°	144.3	162.3	193.9	207.4	209.2
72.5°	117.3	139.8	170.4	177.7	173.2
75°	94.7	117.3	143.4	140.7	135.3
77.5°	72.2	94.7	111.8	102.8	95.6
80°	51.4	73.9	77.6	64.0	60.4
82.5°	33.4	51.4	43.3	33.4	27.1
85°	17.1	24.3	13.5	10.8	9.1
87.5°	5.4	3.6	1.8	1.8	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)