

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: P732523

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-SQR-B2750-W2D-CP187-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

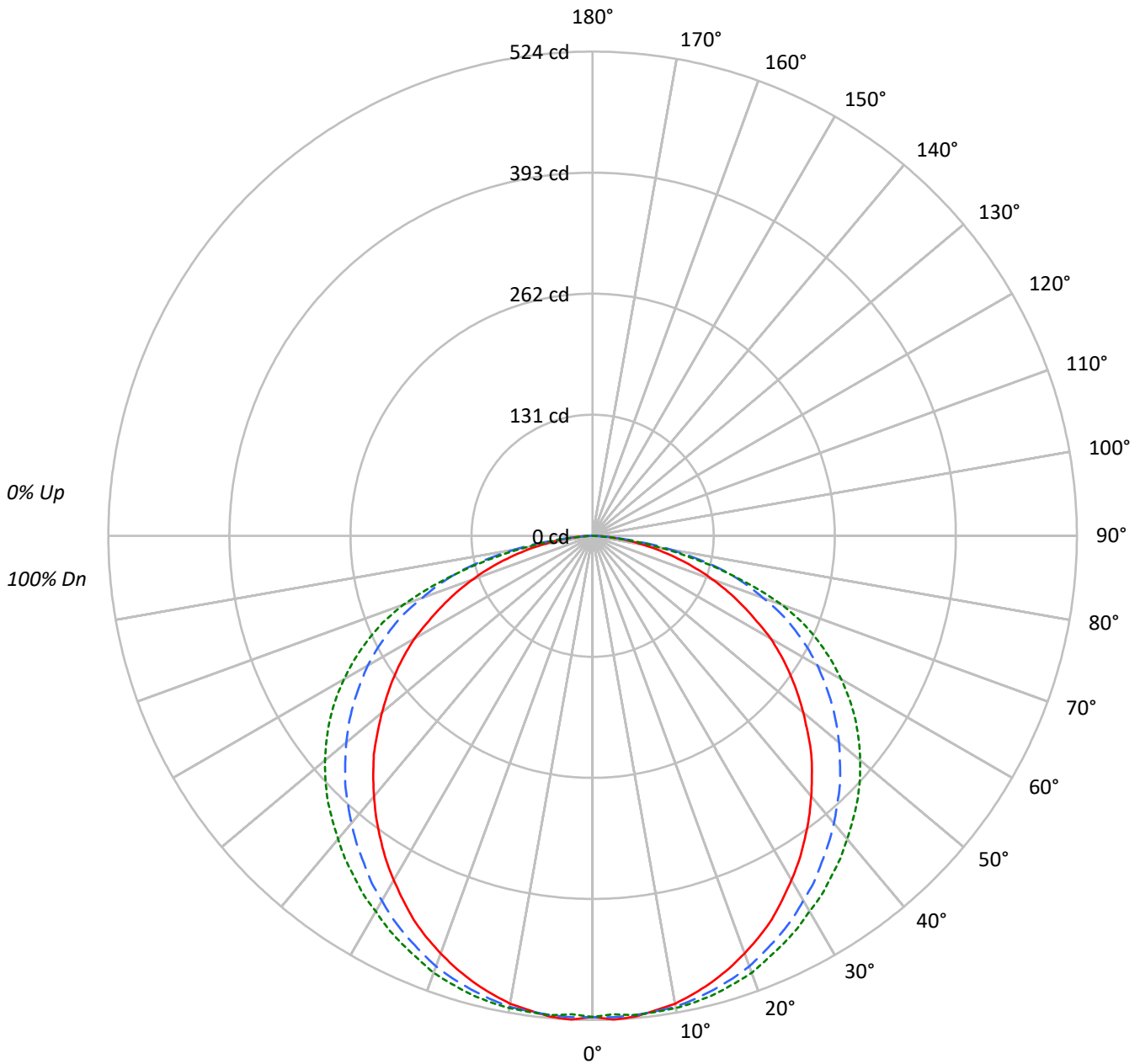
Lumens per Lamp: N/A
Luminaire Lumens: 1648.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1470	1470	1470
5°	1480	1476	1476
10°	1474	1483	1488
15°	1461	1485	1500
20°	1445	1490	1512
25°	1428	1487	1519
30°	1402	1486	1530
35°	1379	1488	1551
40°	1356	1496	1579
45°	1336	1512	1618
50°	1306	1528	1659
55°	1283	1553	1709
60°	1257	1585	1753
65°	1198	1614	1798
70°	1138	1618	1796
75°	1042	1613	1585
80°	891	1377	1229
85°	700	781	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.0
10°-20°	143.0	8.7
20°-30°	218.6	13.3
30°-40°	268.0	16.3
40°-50°	288.2	17.5
50°-60°	277.0	16.8
60°-70°	230.6	14.0
70°-80°	141.6	8.6
80°-90°	31.5	1.9
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°	411.1	24.9
0°-40°	679.1	41.2
0°-60°	1244.3	75.5
0°-90°	1648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	522	518	521	521	521	50
15°	500	498	508	512	513	141
25°	458	463	478	483	488	211
35°	400	410	432	444	450	251
45°	335	350	379	396	405	258
55°	261	283	316	337	347	233
65°	179	207	242	262	269	178
75°	96	125	148	147	145	101
85°	22	32	24	17	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.8	520.8	520.8	520.8	520.8
2.5°	524.1	519.1	521.6	520.8	518.3
5°	522.4	517.5	520.8	520.8	520.8
7.5°	518.3	514.2	519.1	519.9	519.9
10°	514.2	510.8	517.5	518.3	519.1
12.5°	507.5	505.0	513.3	515.0	516.6
15°	500.0	498.4	508.3	511.6	513.3
17.5°	490.9	491.7	502.5	506.7	508.3
20°	480.9	483.4	495.9	500.0	503.3
22.5°	470.1	473.4	486.8	491.7	495.1
25°	458.5	462.6	477.6	483.4	487.6
27.5°	444.3	451.0	467.7	475.1	479.3
30°	430.3	437.7	456.0	465.1	469.3
32.5°	416.1	424.4	445.2	454.3	461.0
35°	400.3	410.4	431.9	443.5	450.2
37.5°	384.6	396.2	419.5	432.7	440.2
40°	367.9	380.4	406.1	421.1	428.5
42.5°	351.3	365.5	392.1	408.6	416.9
45°	334.8	349.7	378.7	396.2	405.3
47.5°	315.6	333.9	363.0	382.9	392.1
50°	297.4	317.3	348.0	368.8	377.9
52.5°	279.1	299.9	332.2	353.9	363.0
55°	260.8	283.2	315.6	337.2	347.2
57.5°	241.7	264.9	298.2	320.6	329.7
60°	222.6	246.7	280.8	301.5	310.6
62.5°	200.1	228.4	261.7	282.4	290.7
65°	179.4	206.8	241.7	261.7	269.2
67.5°	158.7	186.9	220.9	239.2	245.8
70°	137.9	166.2	196.0	213.5	217.6
72.5°	117.1	145.3	173.6	183.5	181.9
75°	95.5	124.6	147.9	147.1	145.3
77.5°	74.8	103.0	117.1	111.3	108.9
80°	54.8	82.3	84.7	78.9	75.6
82.5°	37.4	58.9	53.2	46.5	43.2
85°	21.6	32.3	24.1	16.6	14.2
87.5°	9.1	8.3	2.5	2.5	1.6
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)