

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: P732514

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732514
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-CA08-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

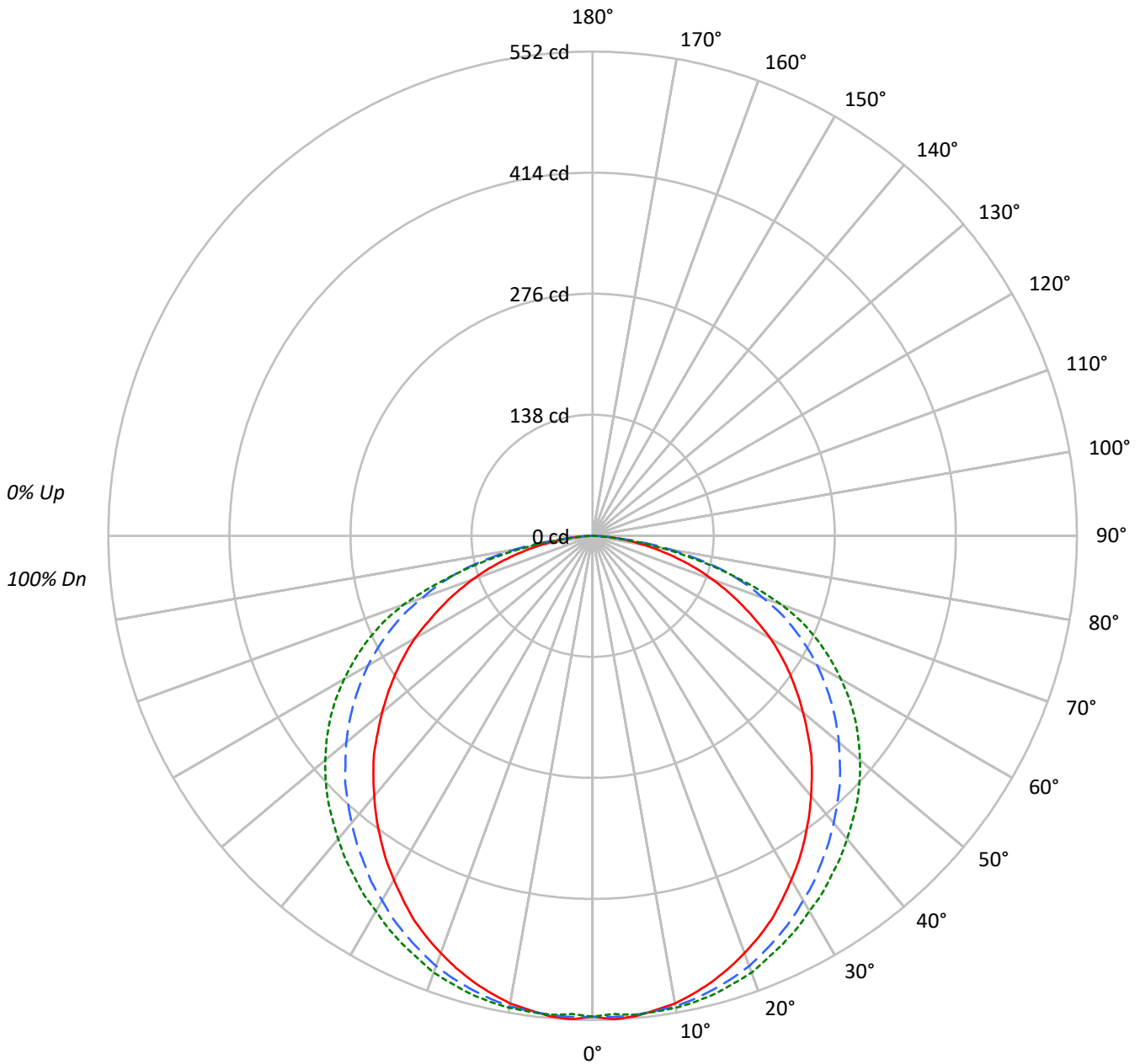
Lumens per Lamp: N/A
Luminaire Lumens: 1735.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1548	1548	1548
5°	1558	1554	1554
10°	1551	1562	1566
15°	1538	1564	1579
20°	1521	1568	1592
25°	1503	1566	1599
30°	1476	1565	1610
35°	1452	1567	1633
40°	1427	1575	1663
45°	1407	1592	1703
50°	1375	1609	1747
55°	1351	1635	1799
60°	1323	1669	1846
65°	1262	1699	1893
70°	1198	1703	1891
75°	1097	1698	1669
80°	938	1450	1294
85°	738	819	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.0
10°-20°	150.5	8.7
20°-30°	230.2	13.3
30°-40°	282.1	16.3
40°-50°	303.4	17.5
50°-60°	291.6	16.8
60°-70°	242.8	14.0
70°-80°	149.0	8.6
80°-90°	33.2	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°	432.8	24.9
0°-40°	715.0	41.2
0°-60°	1310.0	75.5
0°-90°	1735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	550	545	548	548	548	52
15°	526	525	535	539	540	148
25°	483	487	503	509	513	222
35°	422	432	455	467	474	264
45°	352	368	399	417	427	271
55°	274	298	332	355	366	245
65°	189	218	254	276	283	187
75°	101	131	156	155	153	107
85°	23	34	25	18	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.3	548.3	548.3	548.3	548.3
2.5°	551.7	546.5	549.2	548.3	545.7
5°	550.0	544.8	548.3	548.3	548.3
7.5°	545.7	541.3	546.5	547.4	547.4
10°	541.3	537.8	544.8	545.7	546.5
12.5°	534.3	531.6	540.4	542.2	543.9
15°	526.4	524.7	535.1	538.6	540.4
17.5°	516.8	517.7	529.1	533.4	535.1
20°	506.3	509.0	522.0	526.4	529.9
22.5°	494.9	498.4	512.5	517.7	521.2
25°	482.7	487.0	502.8	509.0	513.3
27.5°	467.8	474.8	492.4	500.2	504.6
30°	453.0	460.9	480.1	489.7	494.1
32.5°	438.1	446.8	468.7	478.3	485.3
35°	421.5	432.0	454.7	466.9	473.9
37.5°	404.9	417.1	441.6	455.5	463.4
40°	387.3	400.5	427.5	443.3	451.2
42.5°	369.9	384.8	412.8	430.2	438.9
45°	352.4	368.2	398.7	417.1	426.7
47.5°	332.3	351.6	382.1	403.1	412.8
50°	313.1	334.0	366.4	388.3	397.9
52.5°	293.8	315.7	349.8	372.5	382.1
55°	274.5	298.2	332.3	355.0	365.5
57.5°	254.4	278.9	313.9	337.5	347.1
60°	234.3	259.7	295.6	317.4	327.0
62.5°	210.7	240.5	275.5	297.3	306.0
65°	188.9	217.7	254.4	275.5	283.4
67.5°	167.1	196.7	232.6	251.9	258.8
70°	145.1	174.9	206.3	224.7	229.1
72.5°	123.3	153.0	182.8	193.2	191.5
75°	100.6	131.2	155.7	154.8	153.0
77.5°	78.7	108.4	123.3	117.2	114.6
80°	57.7	86.6	89.2	83.1	79.6
82.5°	39.4	62.0	56.0	48.9	45.4
85°	22.8	34.1	25.3	17.5	14.9
87.5°	9.6	8.7	2.7	2.7	1.7
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)