

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: P732533

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732533
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-CP375-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

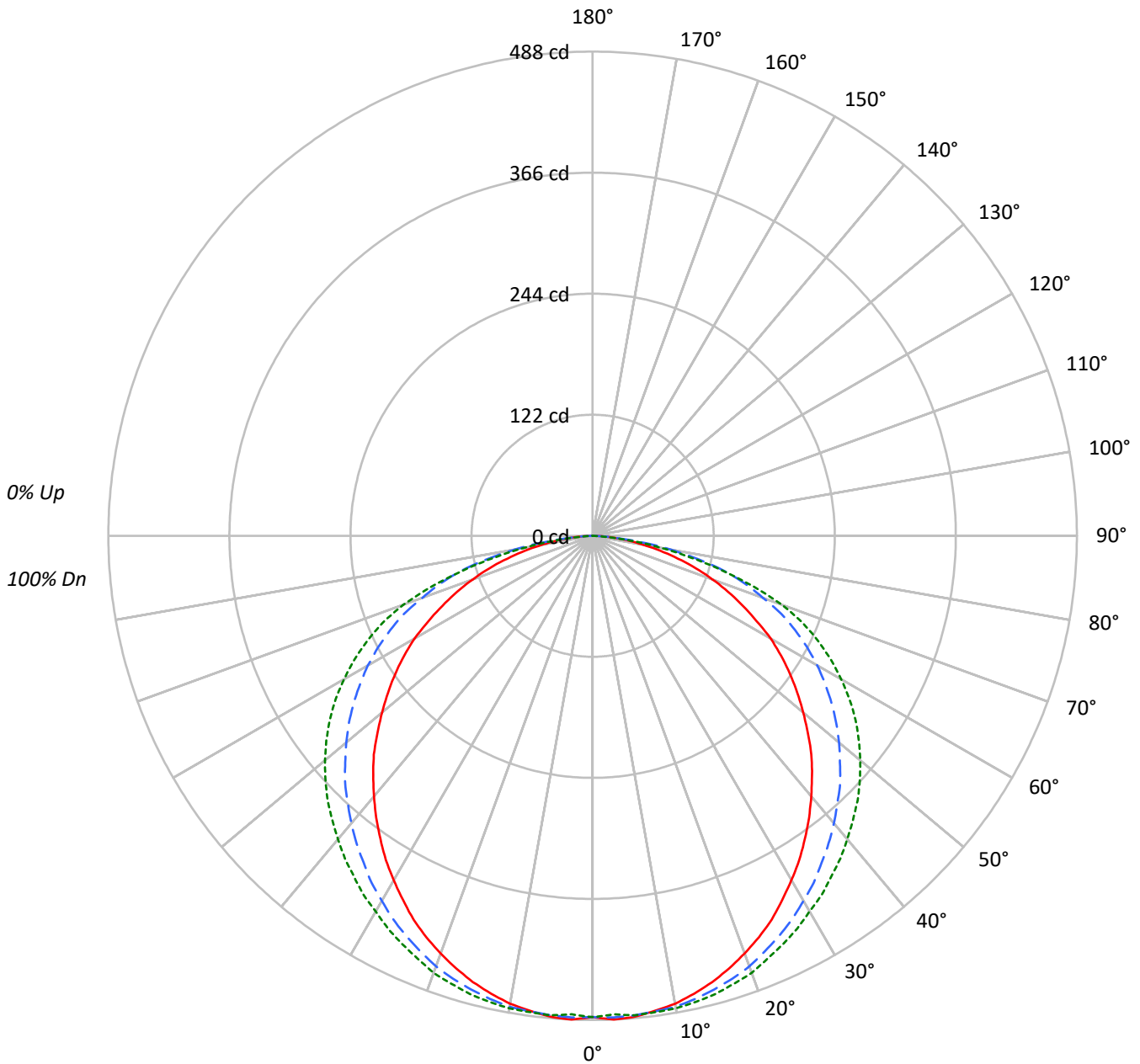
Lumens per Lamp: N/A
Luminaire Lumens: 1535.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1369	1369	1369
5°	1379	1375	1375
10°	1373	1382	1386
15°	1361	1383	1397
20°	1345	1387	1408
25°	1330	1385	1414
30°	1306	1385	1425
35°	1285	1386	1445
40°	1263	1394	1471
45°	1245	1408	1507
50°	1216	1423	1546
55°	1195	1447	1592
60°	1170	1476	1633
65°	1116	1503	1674
70°	1060	1506	1673
75°	971	1502	1477
80°	829	1283	1144
85°	651	725	428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	3.0
10°-20°	133.2	8.7
20°-30°	203.7	13.3
30°-40°	249.6	16.3
40°-50°	268.5	17.5
50°-60°	258.0	16.8
60°-70°	214.8	14.0
70°-80°	131.9	8.6
80°-90°	29.4	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°	382.9	24.9
0°-40°	632.5	41.2
0°-60°	1159.0	75.5
0°-90°	1535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	487	482	485	485	485	46
15°	466	464	473	476	478	131
25°	427	431	445	450	454	196
35°	373	382	402	413	419	233
45°	312	326	353	369	378	240
55°	243	264	294	314	323	217
65°	167	193	225	244	251	166
75°	89	116	138	137	135	94
85°	20	30	22	15	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.1	485.1	485.1	485.1	485.1
2.5°	488.1	483.5	485.9	485.1	482.8
5°	486.6	482.0	485.1	485.1	485.1
7.5°	482.8	478.9	483.5	484.3	484.3
10°	478.9	475.8	482.0	482.8	483.5
12.5°	472.7	470.3	478.1	479.7	481.2
15°	465.7	464.2	473.4	476.5	478.1
17.5°	457.2	458.0	468.1	471.9	473.4
20°	447.9	450.3	461.9	465.7	468.8
22.5°	437.9	441.0	453.4	458.0	461.1
25°	427.0	430.9	444.8	450.3	454.1
27.5°	413.8	420.1	435.6	442.6	446.4
30°	400.8	407.7	424.8	433.2	437.1
32.5°	387.6	395.3	414.7	423.2	429.4
35°	372.9	382.2	402.3	413.1	419.3
37.5°	358.2	369.0	390.7	403.0	410.0
40°	342.7	354.4	378.3	392.2	399.2
42.5°	327.2	340.4	365.2	380.6	388.3
45°	311.8	325.7	352.8	369.0	377.5
47.5°	294.0	311.0	338.1	356.6	365.2
50°	277.0	295.5	324.1	343.5	352.0
52.5°	259.9	279.3	309.4	329.6	338.1
55°	242.9	263.8	294.0	314.1	323.4
57.5°	225.1	246.7	277.7	298.6	307.1
60°	207.3	229.8	261.5	280.8	289.3
62.5°	186.4	212.8	243.7	263.0	270.8
65°	167.1	192.6	225.1	243.7	250.7
67.5°	147.8	174.1	205.8	222.8	229.0
70°	128.4	154.8	182.5	198.8	202.7
72.5°	109.1	135.4	161.7	171.0	169.5
75°	89.0	116.1	137.7	137.0	135.4
77.5°	69.7	95.9	109.1	103.7	101.4
80°	51.0	76.6	78.9	73.5	70.4
82.5°	34.8	54.9	49.5	43.3	40.2
85°	20.1	30.1	22.4	15.4	13.2
87.5°	8.5	7.7	2.4	2.4	1.5
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)