

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: P732522

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732522
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-CP187-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

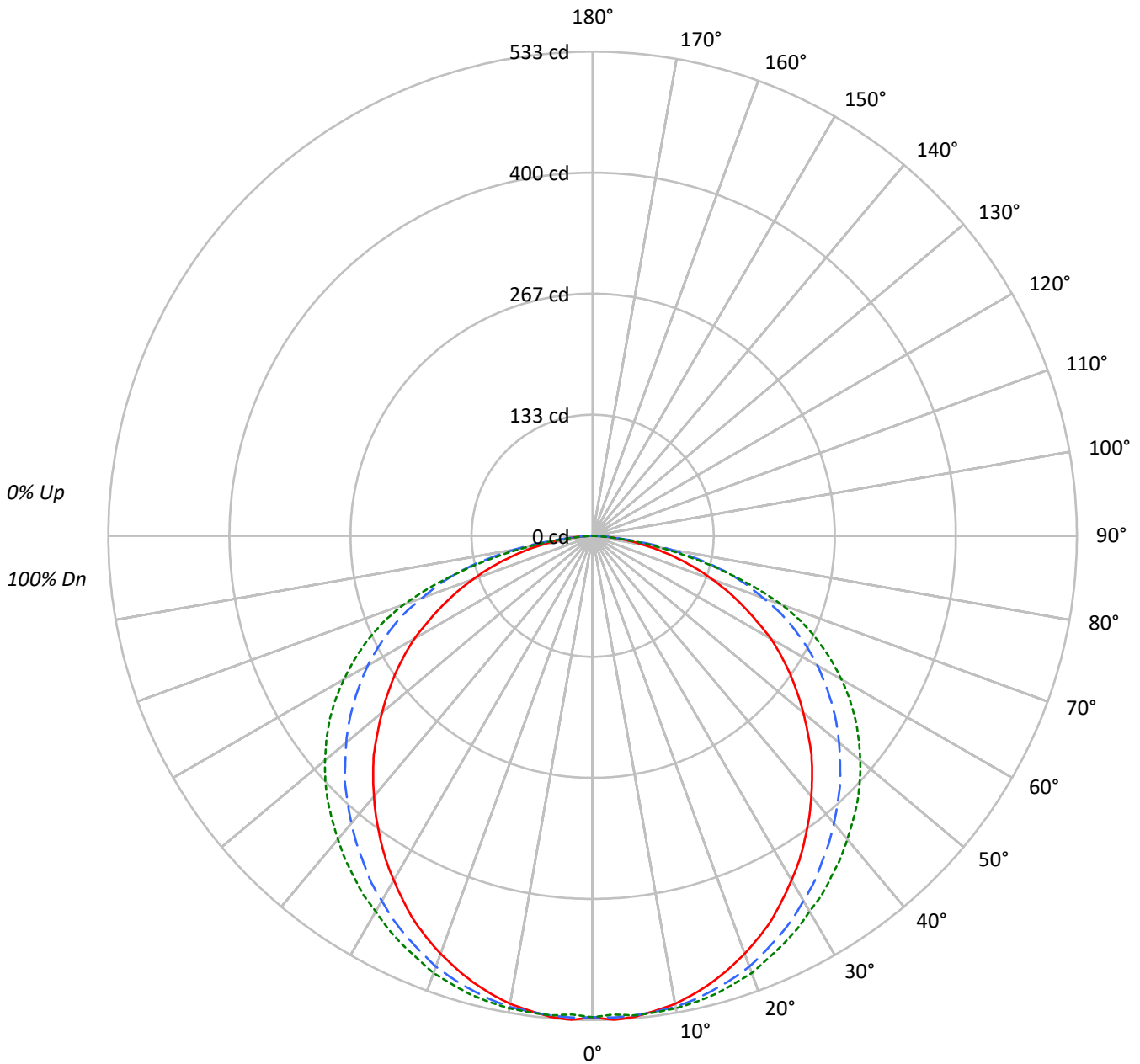
Lumens per Lamp: N/A
Luminaire Lumens: 1677.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1496	1496	1496
5°	1506	1502	1502
10°	1500	1509	1514
15°	1487	1511	1527
20°	1470	1516	1539
25°	1453	1514	1545
30°	1427	1513	1556
35°	1404	1514	1579
40°	1380	1523	1607
45°	1360	1538	1646
50°	1329	1555	1689
55°	1306	1581	1739
60°	1279	1613	1784
65°	1220	1642	1829
70°	1158	1646	1827
75°	1060	1641	1613
80°	905	1401	1250
85°	713	793	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	3.0
10°-20°	145.5	8.7
20°-30°	222.5	13.3
30°-40°	272.7	16.3
40°-50°	293.3	17.5
50°-60°	281.8	16.8
60°-70°	234.7	14.0
70°-80°	144.0	8.6
80°-90°	32.1	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°	418.3	24.9
0°-40°	691.0	41.2
0°-60°	1266.2	75.5
0°-90°	1677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	532	527	530	530	530	50
15°	509	507	517	521	522	143
25°	466	471	486	492	496	215
35°	407	418	440	451	458	255
45°	341	356	385	403	412	262
55°	265	288	321	343	353	237
65°	183	210	246	266	274	181
75°	97	127	150	150	148	103
85°	22	33	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°	530.0	530.0	530.0	530.0	530.0
2.5°	533.3	528.2	530.8	530.0	527.4
5°	531.6	526.6	530.0	530.0	530.0
7.5°	527.4	523.2	528.2	529.1	529.1
10°	523.2	519.8	526.6	527.4	528.2
12.5°	516.4	513.8	522.4	524.0	525.7
15°	508.8	507.2	517.2	520.6	522.4
17.5°	499.5	500.4	511.4	515.6	517.2
20°	489.4	491.9	504.6	508.8	512.2
22.5°	478.4	481.8	495.3	500.4	503.8
25°	466.5	470.8	486.0	491.9	496.2
27.5°	452.1	458.9	475.9	483.5	487.7
30°	437.8	445.4	464.1	473.3	477.5
32.5°	423.4	431.9	453.1	462.3	469.1
35°	407.4	417.6	439.5	451.3	458.1
37.5°	391.3	403.2	426.8	440.3	447.9
40°	374.4	387.1	413.3	428.5	436.1
42.5°	357.5	371.9	399.0	415.8	424.3
45°	340.6	355.9	385.4	403.2	412.4
47.5°	321.2	339.8	369.3	389.6	399.0
50°	302.6	322.9	354.1	375.3	384.6
52.5°	284.0	305.2	338.1	360.1	369.3
55°	265.4	288.2	321.2	343.1	353.3
57.5°	245.9	269.6	303.4	326.2	335.5
60°	226.5	251.1	285.7	306.8	316.1
62.5°	203.6	232.4	266.3	287.4	295.8
65°	182.6	210.4	245.9	266.3	273.9
67.5°	161.5	190.2	224.8	243.4	250.1
70°	140.3	169.1	199.4	217.2	221.4
72.5°	119.2	147.9	176.7	186.8	185.1
75°	97.2	126.8	150.5	149.6	147.9
77.5°	76.1	104.8	119.2	113.2	110.8
80°	55.7	83.7	86.2	80.3	76.9
82.5°	38.1	60.0	54.1	47.3	43.9
85°	22.0	32.9	24.5	16.9	14.4
87.5°	9.3	8.4	2.6	2.6	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)