

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: P732524

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732524
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-CP187-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

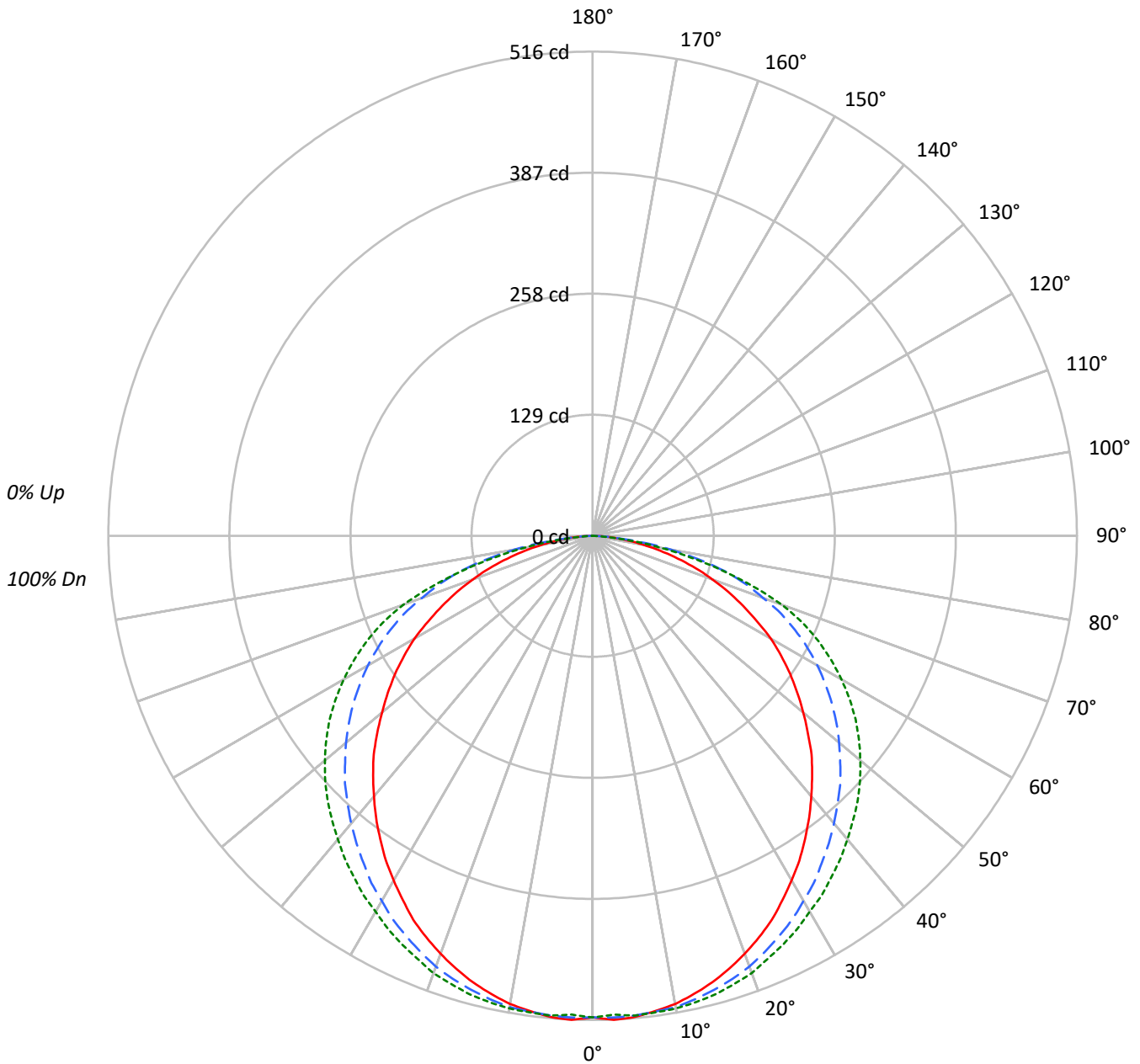
Lumens per Lamp: N/A
Luminaire Lumens: 1624.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	1449	1449	1449
5°	1459	1454	1454
10°	1452	1462	1466
15°	1440	1464	1478
20°	1424	1468	1490
25°	1407	1466	1497
30°	1382	1465	1507
35°	1359	1467	1529
40°	1336	1475	1556
45°	1317	1490	1594
50°	1287	1506	1635
55°	1265	1531	1684
60°	1238	1562	1728
65°	1181	1590	1771
70°	1122	1594	1769
75°	1026	1589	1562
80°	878	1357	1211
85°	690	768	450



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	3.0
10°-20°	140.9	8.7
20°-30°	215.5	13.3
30°-40°	264.1	16.3
40°-50°	284.0	17.5
50°-60°	272.9	16.8
60°-70°	227.3	14.0
70°-80°	139.5	8.6
80°-90°	31.1	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°	405.1	24.9
0°-40°	669.2	41.2
0°-60°	1226.2	75.5
0°-90°	1624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	510	513	513	513	49
15°	493	491	501	504	506	139
25°	452	456	471	476	480	208
35°	394	404	426	437	444	247
45°	330	345	373	390	399	254
55°	257	279	311	332	342	230
65°	177	204	238	258	265	175
75°	94	123	146	145	143	100
85°	21	32	24	16	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.2	513.2	513.2	513.2	513.2
2.5°	516.4	511.5	514.0	513.2	510.8
5°	514.8	510.0	513.2	513.2	513.2
7.5°	510.8	506.7	511.5	512.3	512.3
10°	506.7	503.4	510.0	510.8	511.5
12.5°	500.1	497.6	505.9	507.5	509.1
15°	492.7	491.1	500.9	504.2	505.9
17.5°	483.8	484.6	495.2	499.3	500.9
20°	473.9	476.4	488.6	492.7	496.0
22.5°	463.2	466.5	479.7	484.6	487.8
25°	451.8	455.9	470.6	476.4	480.5
27.5°	437.8	444.4	460.9	468.2	472.3
30°	424.0	431.4	449.4	458.4	462.4
32.5°	410.1	418.2	438.7	447.7	454.3
35°	394.5	404.4	425.6	437.0	443.6
37.5°	379.0	390.4	413.3	426.4	433.8
40°	362.5	374.9	400.2	414.9	422.3
42.5°	346.2	360.2	386.4	402.7	410.9
45°	329.9	344.6	373.2	390.4	399.4
47.5°	311.1	329.1	357.7	377.3	386.4
50°	293.0	312.6	342.9	363.4	372.4
52.5°	275.0	295.5	327.4	348.7	357.7
55°	257.0	279.1	311.1	332.3	342.1
57.5°	238.1	261.1	293.8	315.9	324.9
60°	219.3	243.1	276.7	297.1	306.1
62.5°	197.2	225.1	257.9	278.3	286.5
65°	176.8	203.8	238.1	257.9	265.2
67.5°	156.4	184.2	217.7	235.8	242.2
70°	135.9	163.7	193.1	210.4	214.4
72.5°	115.4	143.2	171.1	180.9	179.3
75°	94.1	122.8	145.7	144.9	143.2
77.5°	73.7	101.5	115.4	109.7	107.3
80°	54.0	81.1	83.5	77.8	74.5
82.5°	36.9	58.1	52.4	45.8	42.5
85°	21.3	31.9	23.7	16.3	13.9
87.5°	9.0	8.2	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)