

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: P732530

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732530
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-CP250-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

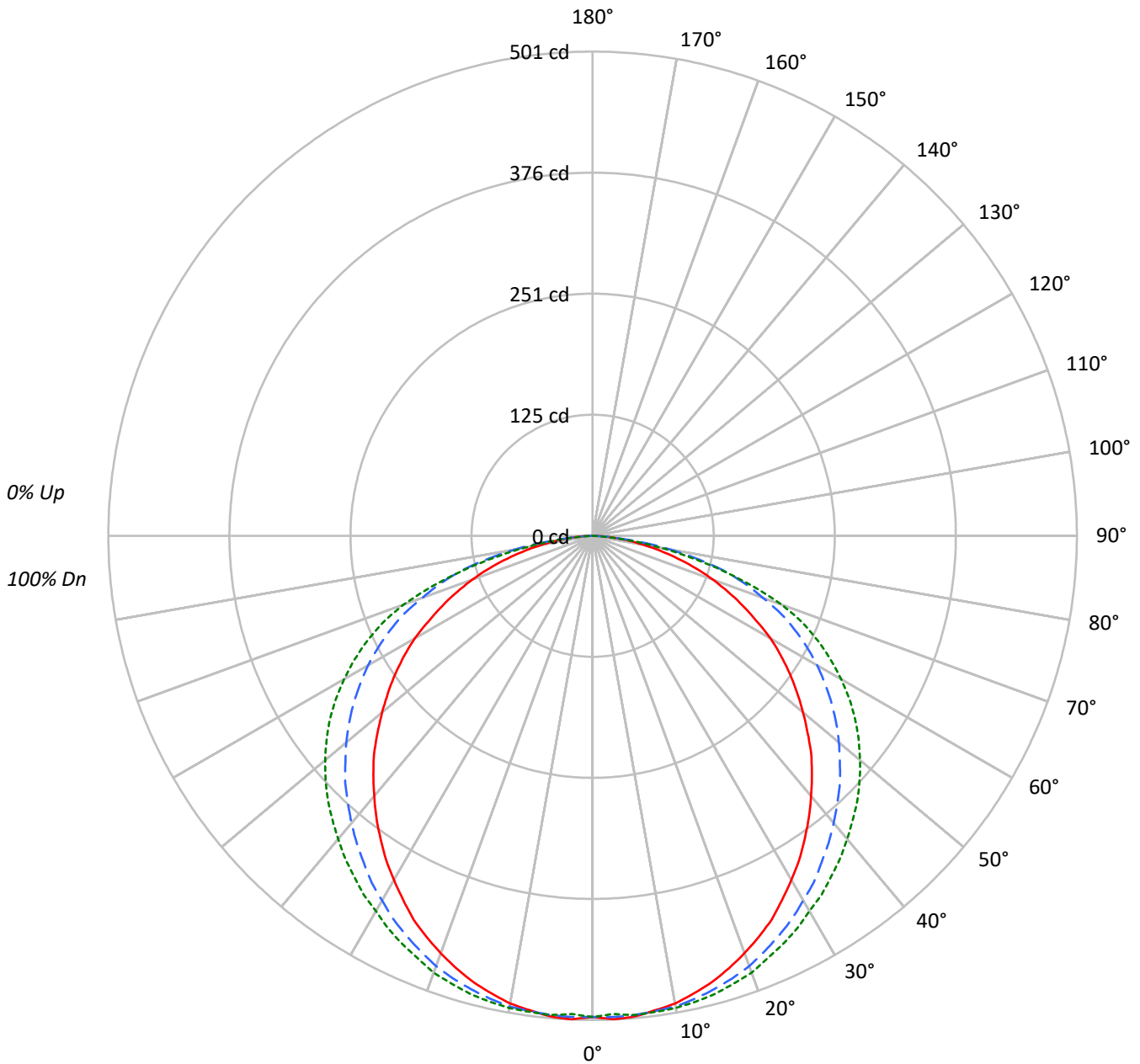
Lumens per Lamp: N/A
Luminaire Lumens: 1575.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1405	1405	1405
5°	1415	1410	1410
10°	1408	1418	1422
15°	1397	1420	1434
20°	1381	1424	1445
25°	1365	1421	1451
30°	1340	1420	1462
35°	1318	1422	1482
40°	1296	1430	1509
45°	1277	1445	1546
50°	1248	1461	1586
55°	1226	1485	1633
60°	1201	1515	1676
65°	1145	1543	1718
70°	1088	1546	1717
75°	996	1541	1515
80°	852	1315	1175
85°	670	745	437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	3.0
10°-20°	136.6	8.7
20°-30°	209.0	13.3
30°-40°	256.1	16.3
40°-50°	275.5	17.5
50°-60°	264.7	16.8
60°-70°	220.4	14.0
70°-80°	135.3	8.6
80°-90°	30.1	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°	392.9	24.9
0°-40°	649.0	41.2
0°-60°	1189.2	75.5
0°-90°	1575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	499	495	498	498	498	47
15°	478	476	486	489	491	135
25°	438	442	456	462	466	202
35°	383	392	413	424	430	239
45°	320	334	362	379	387	246
55°	249	271	302	322	332	223
65°	172	198	231	250	257	170
75°	91	119	141	140	139	97
85°	21	31	23	16	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.8	497.8	497.8	497.8	497.8
2.5°	500.8	496.1	498.5	497.8	495.3
5°	499.3	494.6	497.8	497.8	497.8
7.5°	495.3	491.4	496.1	496.9	496.9
10°	491.4	488.2	494.6	495.3	496.1
12.5°	485.0	482.6	490.6	492.2	493.7
15°	477.9	476.3	485.8	489.0	490.6
17.5°	469.2	469.9	480.3	484.2	485.8
20°	459.6	462.0	473.9	477.9	481.0
22.5°	449.3	452.5	465.2	469.9	473.1
25°	438.2	442.1	456.4	462.0	466.0
27.5°	424.6	431.0	446.9	454.1	458.1
30°	411.2	418.4	435.8	444.5	448.5
32.5°	397.7	405.6	425.5	434.2	440.6
35°	382.6	392.2	412.8	423.9	430.2
37.5°	367.5	378.7	400.9	413.5	420.7
40°	351.6	363.6	388.1	402.4	409.6
42.5°	335.8	349.3	374.7	390.5	398.5
45°	319.9	334.2	361.9	378.7	387.3
47.5°	301.7	319.2	346.9	365.9	374.7
50°	284.2	303.2	332.6	352.5	361.2
52.5°	266.7	286.6	317.5	338.2	346.9
55°	249.2	270.7	301.7	322.2	331.8
57.5°	231.0	253.2	285.0	306.4	315.1
60°	212.7	235.8	268.3	288.1	296.8
62.5°	191.3	218.3	250.1	269.9	277.8
65°	171.5	197.6	231.0	250.1	257.2
67.5°	151.7	178.6	211.2	228.6	234.9
70°	131.8	158.8	187.3	204.0	208.0
72.5°	112.0	138.9	166.0	175.4	173.9
75°	91.3	119.1	141.3	140.5	138.9
77.5°	71.5	98.4	112.0	106.4	104.0
80°	52.4	78.6	80.9	75.4	72.3
82.5°	35.7	56.3	50.8	44.4	41.2
85°	20.7	30.9	23.0	15.8	13.5
87.5°	8.7	7.9	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)