

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: P732464

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-RDP-B2750-W2D-CA08-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

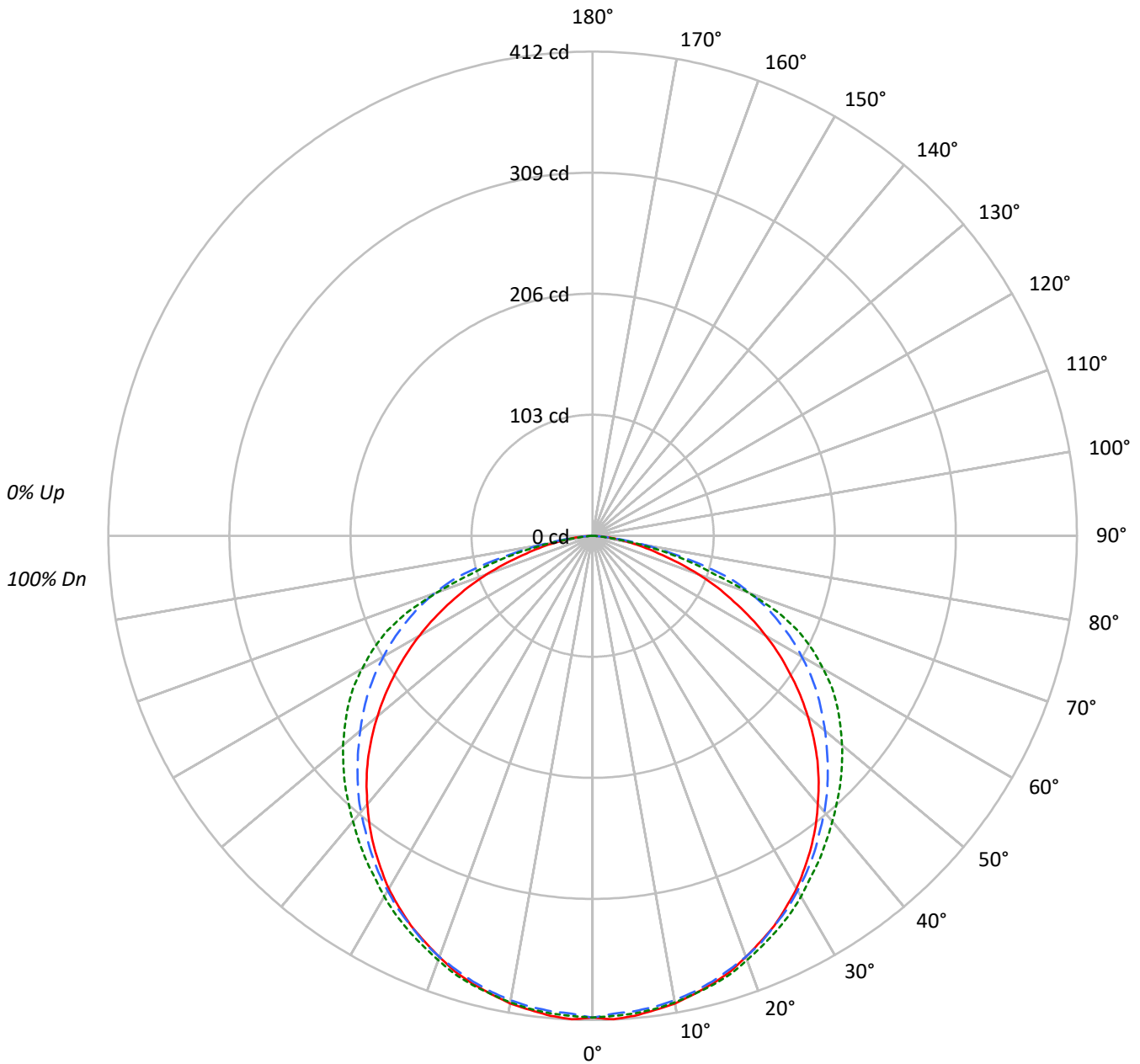
Lumens per Lamp: N/A
Luminaire Lumens: 1224.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1157	1157	1157
5°	1162	1151	1156
10°	1159	1151	1156
15°	1153	1148	1156
20°	1145	1145	1154
25°	1140	1140	1155
30°	1131	1137	1156
35°	1116	1133	1159
40°	1098	1130	1169
45°	1080	1129	1190
50°	1049	1133	1217
55°	1011	1148	1251
60°	960	1160	1279
65°	887	1174	1296
70°	789	1183	1159
75°	636	1063	927
80°	497	746	605
85°	340	217	155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	3.2
10°-20°	111.3	9.1
20°-30°	169.5	13.8
30°-40°	206.5	16.9
40°-50°	219.0	17.9
50°-60°	206.7	16.9
60°-70°	166.9	13.6
70°-80°	90.6	7.4
80°-90°	14.6	1.2
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°	319.6	26.1
0°-40°	526.1	43.0
0°-60°	951.9	77.8
0°-90°	1224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	410	409	406	409	408	39
15°	395	394	393	396	396	111
25°	366	365	366	370	371	168
35°	324	326	329	336	336	203
45°	270	274	283	293	298	208
55°	205	214	233	248	254	184
65°	133	149	176	190	194	132
75°	58	85	98	88	85	64
85°	10	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	410.0	410.0	410.0	410.0	410.0
2.5°	411.8	410.0	407.0	410.0	409.0
5°	410.0	409.0	406.1	409.0	408.1
7.5°	407.0	407.0	404.2	406.1	406.1
10°	404.2	403.3	401.4	404.2	403.3
12.5°	399.4	398.5	397.5	400.3	399.4
15°	394.6	393.7	392.7	395.7	395.7
17.5°	388.9	387.9	387.0	390.9	390.9
20°	381.3	381.3	381.3	385.1	384.2
22.5°	373.6	373.6	374.6	378.4	377.5
25°	366.0	365.1	366.0	369.8	370.7
27.5°	356.4	357.4	358.3	362.2	363.1
30°	346.9	347.9	348.8	353.6	354.6
32.5°	335.5	337.3	339.2	344.9	344.9
35°	324.0	325.9	328.8	335.5	336.4
37.5°	311.6	313.4	317.3	324.9	326.8
40°	298.1	301.0	306.8	314.4	317.3
42.5°	284.7	288.6	295.3	303.8	307.7
45°	270.5	274.2	282.9	293.4	298.1
47.5°	255.1	259.9	270.5	283.8	287.7
50°	238.9	245.6	258.0	272.3	277.1
52.5°	222.7	230.3	245.6	260.8	265.6
55°	205.4	214.0	233.2	248.4	254.2
57.5°	188.2	197.8	219.7	236.0	241.8
60°	170.1	181.6	205.4	221.7	226.5
62.5°	151.9	165.3	191.2	207.3	211.2
65°	132.8	149.1	175.8	190.2	194.0
67.5°	114.7	133.8	160.6	171.0	171.0
70°	95.6	116.5	143.4	146.2	140.4
72.5°	76.5	100.4	124.3	113.7	108.9
75°	58.3	85.0	97.5	88.0	85.0
77.5°	43.9	68.8	68.8	63.0	61.1
80°	30.6	52.6	45.9	40.2	37.2
82.5°	20.0	29.6	23.9	19.1	16.3
85°	10.5	11.5	6.7	5.7	4.8
87.5°	3.9	1.9	0.9	1.9	0.9
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)