

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: P733961

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-RDP-B2750-W2D-CA08-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

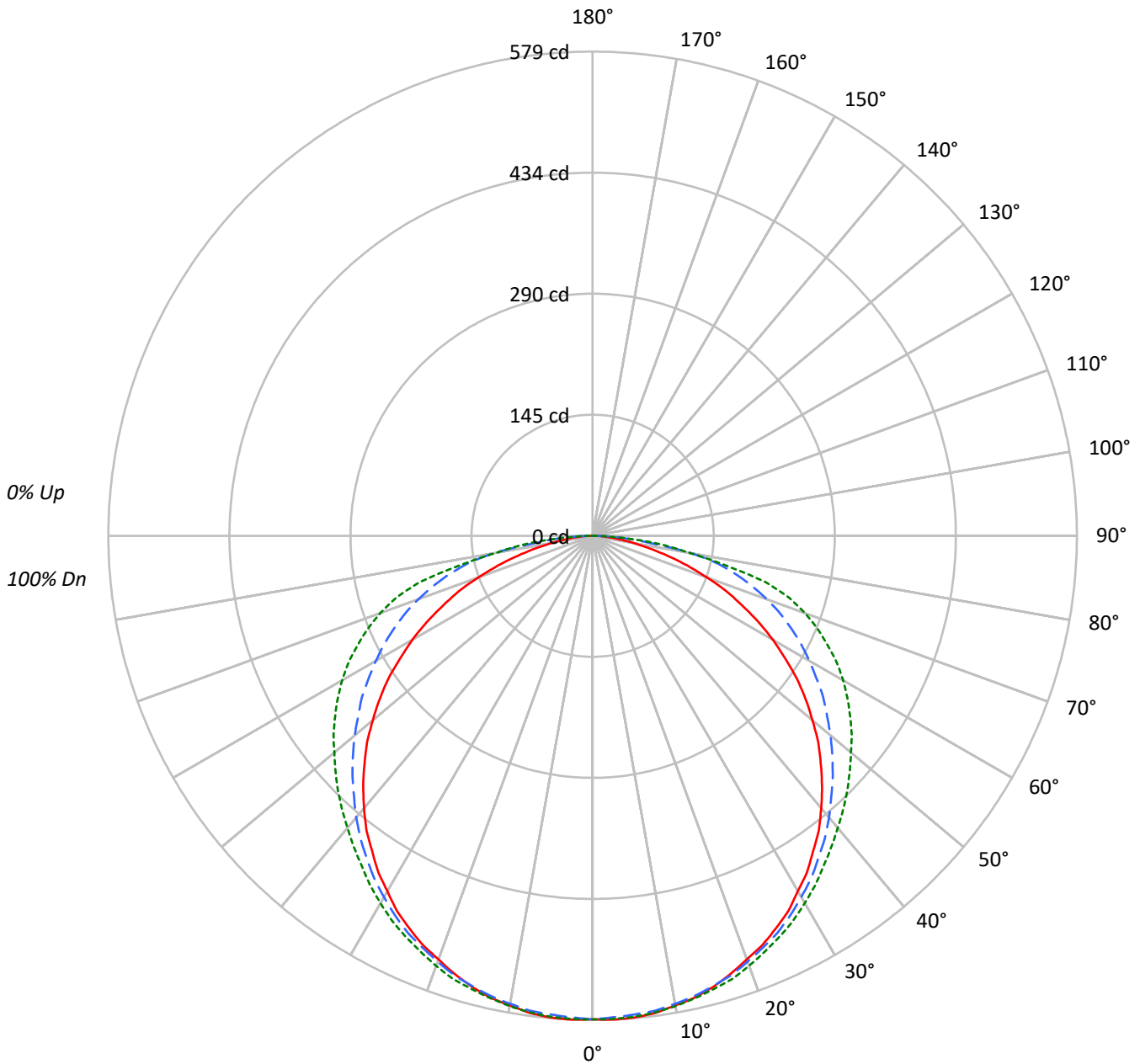
Lumens per Lamp: N/A  
Luminaire Lumens: 1839.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P733961

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA08-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P733961

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA08-2700K

**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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	816	816	816
5°	819	814	818
10°	817	814	818
15°	816	814	820
20°	810	814	822
25°	807	815	824
30°	800	813	827
35°	792	811	830
40°	783	810	840
45°	770	810	859
50°	753	815	885
55°	734	828	925
60°	703	845	976
65°	658	874	1036
70°	599	914	1114
75°	508	965	1164
80°	401	970	941
85°	296	738	826



TEST NUMBER: P733961

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA08-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.9	3.0
10°-20°	157.9	8.6
20°-30°	241.4	13.1
30°-40°	295.1	16.0
40°-50°	314.6	17.1
50°-60°	300.8	16.4
60°-70°	254.8	13.9
70°-80°	171.2	9.3
80°-90°	48.3	2.6
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°	454.2	24.7
0°-40°	749.3	40.7
0°-60°	1364.7	74.2
0°-90°	1839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	578	577	575	577	577	55
15°	558	558	557	562	561	157
25°	518	520	524	528	529	239
35°	460	463	471	480	482	288
45°	386	392	406	423	430	298
55°	298	309	337	363	376	266
65°	197	217	262	296	310	196
75°	93	127	177	207	214	100
85°	18	37	46	49	51	23
90°	0	0	0	0	0	



TEST NUMBER: P733961

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA08-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	578.3	578.3	578.3	578.3	578.3
2.5°	579.2	579.2	576.4	578.3	578.3
5°	578.3	577.4	574.7	577.4	577.4
7.5°	575.6	574.7	572.8	575.6	574.7
10°	570.1	570.1	568.3	571.1	571.1
12.5°	565.6	564.7	563.7	567.3	566.4
15°	558.3	558.3	557.3	561.9	560.9
17.5°	549.2	550.1	550.9	554.6	555.6
20°	539.1	540.9	541.8	547.3	547.3
22.5°	529.9	530.9	532.7	538.2	538.2
25°	518.2	519.9	523.5	528.2	529.0
27.5°	506.3	507.2	511.8	518.2	519.0
30°	490.8	493.5	498.9	506.3	507.2
32.5°	477.0	479.8	486.1	493.5	495.3
35°	459.8	463.4	470.6	479.8	481.6
37.5°	444.2	447.0	456.1	466.1	468.9
40°	425.1	430.5	439.6	451.5	456.1
42.5°	406.0	411.4	422.4	437.9	443.4
45°	385.8	392.2	406.0	423.2	430.5
47.5°	365.8	373.1	388.6	408.6	416.9
50°	342.9	352.1	371.2	394.1	403.2
52.5°	321.1	332.1	353.1	378.6	390.5
55°	298.3	309.2	336.6	363.1	375.8
57.5°	272.8	287.3	317.4	347.6	361.2
60°	249.0	262.7	299.2	332.1	345.7
62.5°	223.5	241.8	280.9	315.6	329.3
65°	197.0	217.1	261.8	296.4	310.2
67.5°	173.3	195.2	242.6	277.3	291.0
70°	145.1	172.4	221.6	256.3	270.0
72.5°	118.6	148.7	199.7	233.5	246.3
75°	93.1	126.8	177.0	207.1	213.5
77.5°	69.3	104.9	153.2	166.0	161.5
80°	49.3	83.9	119.4	113.1	115.8
82.5°	31.9	63.9	73.9	83.9	86.7
85°	18.3	37.4	45.6	49.3	51.0
87.5°	8.2	13.6	18.3	18.3	17.4
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)