

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: P734093

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734093  
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: 24FCZ2-30HE-RDP-B2750-W2D-CA125-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

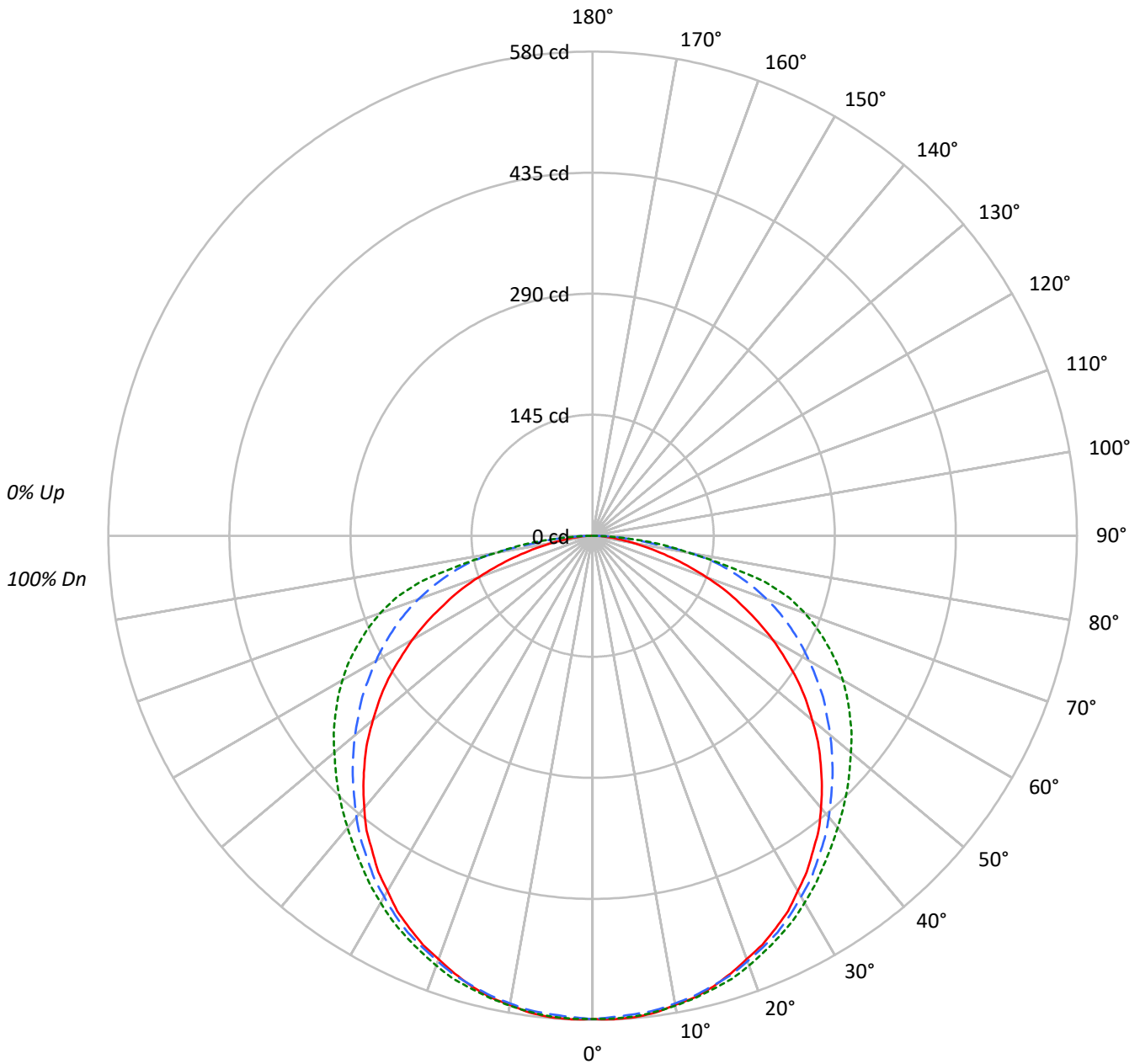
Lumens per Lamp: N/A  
Luminaire Lumens: 1841.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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: P734093

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CA125-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P734093

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CA125-3500K

**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°	817	817	817
5°	820	815	819
10°	818	815	819
15°	817	815	821
20°	810	815	823
25°	808	816	825
30°	801	814	827
35°	793	812	831
40°	784	811	841
45°	771	811	860
50°	754	816	886
55°	735	829	926
60°	704	845	977
65°	659	875	1037
70°	599	916	1115
75°	508	966	1165
80°	401	972	942
85°	296	740	827



TEST NUMBER: P734093

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CA125-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.9	3.0
10°-20°	158.1	8.6
20°-30°	241.7	13.1
30°-40°	295.5	16.0
40°-50°	314.9	17.1
50°-60°	301.1	16.4
60°-70°	255.1	13.9
70°-80°	171.4	9.3
80°-90°	48.4	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°	454.7	24.7
0°-40°	750.1	40.7
0°-60°	1366.2	74.2
0°-90°	1841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	579	578	575	578	578	55
15°	559	559	558	562	562	158
25°	519	520	524	529	530	239
35°	460	464	471	480	482	288
45°	386	393	406	424	431	298
55°	299	310	337	364	376	266
65°	197	217	262	297	310	196
75°	93	127	177	207	214	100
85°	18	37	46	49	51	23
90°	0	0	0	0	0	



TEST NUMBER: P734093

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CA125-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	578.9	578.9	578.9	578.9	578.9
2.5°	579.8	579.8	577.1	578.9	578.9
5°	578.9	578.1	575.3	578.1	578.1
7.5°	576.2	575.3	573.4	576.2	575.3
10°	570.7	570.7	568.9	571.7	571.7
12.5°	566.2	565.3	564.3	567.9	567.1
15°	558.9	558.9	557.9	562.5	561.6
17.5°	549.8	550.6	551.5	555.2	556.2
20°	539.6	541.5	542.4	547.9	547.9
22.5°	530.5	531.5	533.3	538.8	538.8
25°	518.7	520.5	524.1	528.7	529.6
27.5°	506.8	507.7	512.3	518.7	519.6
30°	491.3	494.1	499.4	506.8	507.7
32.5°	477.5	480.3	486.7	494.1	495.8
35°	460.3	463.9	471.2	480.3	482.2
37.5°	444.7	447.5	456.6	466.6	469.4
40°	425.6	431.0	440.1	452.0	456.6
42.5°	406.4	411.8	422.8	438.3	443.8
45°	386.3	392.6	406.4	423.7	431.0
47.5°	366.2	373.5	389.0	409.1	417.3
50°	343.3	352.5	371.6	394.5	403.7
52.5°	321.4	332.4	353.4	379.0	390.9
55°	298.6	309.5	336.9	363.5	376.2
57.5°	273.1	287.6	317.8	347.9	361.6
60°	249.3	262.9	299.5	332.4	346.1
62.5°	223.7	242.0	281.2	315.9	329.7
65°	197.2	217.4	262.1	296.7	310.5
67.5°	173.5	195.4	242.9	277.6	291.3
70°	145.2	172.5	221.9	256.6	270.3
72.5°	118.7	148.9	200.0	233.8	246.5
75°	93.2	127.0	177.2	207.3	213.7
77.5°	69.4	105.0	153.4	166.2	161.6
80°	49.3	84.0	119.6	113.2	115.9
82.5°	31.9	64.0	74.0	84.0	86.8
85°	18.3	37.4	45.7	49.3	51.1
87.5°	8.3	13.7	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)