

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: P734098

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734098  
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-CP187-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

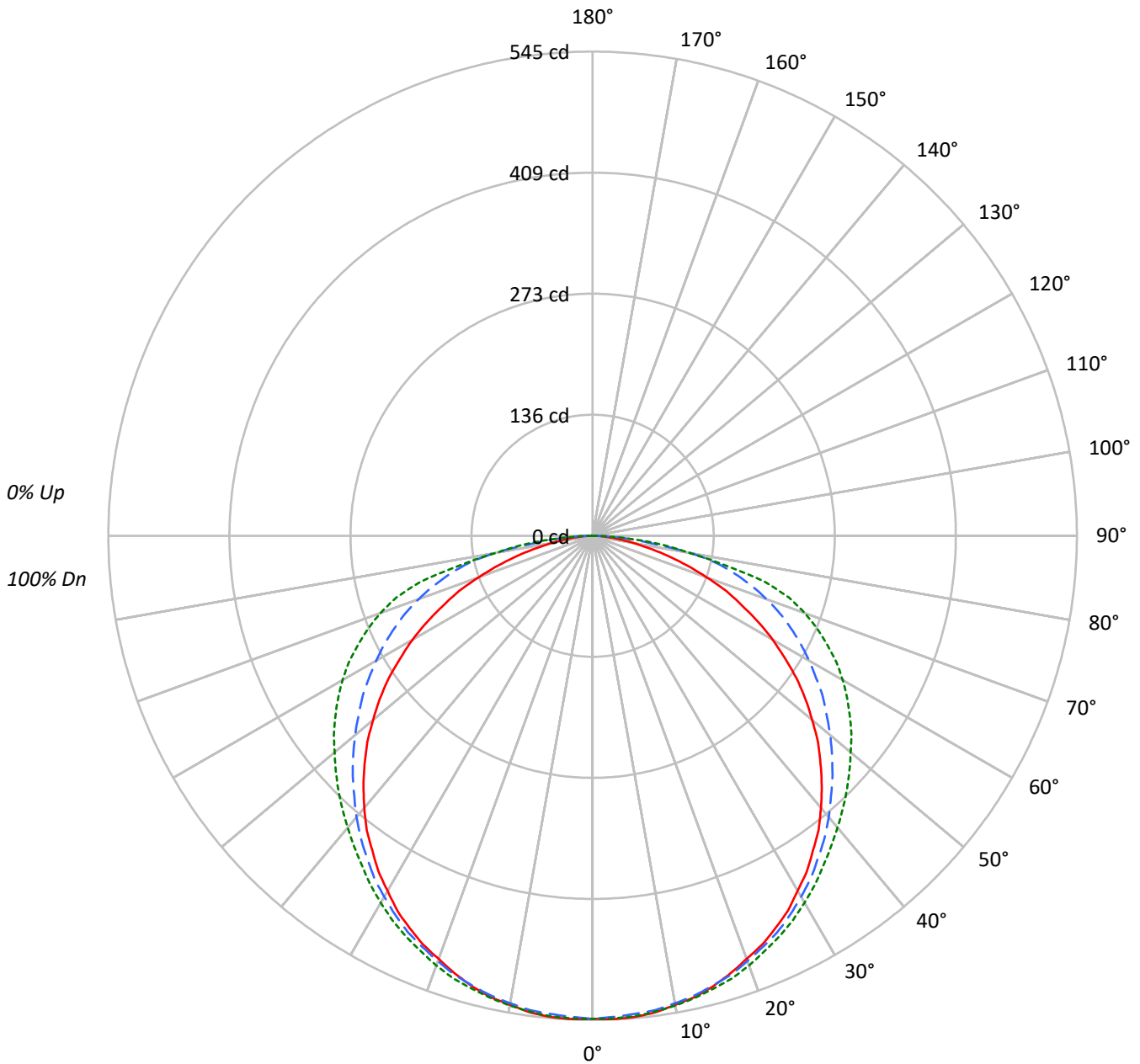
Lumens per Lamp: N/A  
Luminaire Lumens: 1729.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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	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	68	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°	767	767	767
5°	770	765	769
10°	768	766	769
15°	767	766	771
20°	761	765	773
25°	759	766	775
30°	752	764	777
35°	745	762	780
40°	736	761	790
45°	724	762	808
50°	708	766	832
55°	690	779	869
60°	661	794	917
65°	618	822	974
70°	563	860	1048
75°	477	907	1094
80°	376	913	885
85°	279	695	777



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	3.0
10°-20°	148.4	8.6
20°-30°	227.0	13.1
30°-40°	277.5	16.0
40°-50°	295.8	17.1
50°-60°	282.8	16.4
60°-70°	239.5	13.9
70°-80°	161.0	9.3
80°-90°	45.4	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°	427.0	24.7
0°-40°	704.5	40.7
0°-60°	1283.1	74.2
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	544	543	540	543	543	52
15°	525	525	524	528	527	148
25°	487	489	492	497	497	225
35°	432	436	442	451	453	271
45°	363	369	382	398	405	280
55°	280	291	316	341	353	250
65°	185	204	246	279	292	184
75°	88	119	166	195	201	94
85°	17	35	43	46	48	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	543.7	543.7	543.7	543.7	543.7
2.5°	544.6	544.6	542.0	543.7	543.7
5°	543.7	542.9	540.3	542.9	542.9
7.5°	541.1	540.3	538.6	541.1	540.3
10°	536.0	536.0	534.3	536.9	536.9
12.5°	531.7	530.9	530.0	533.4	532.6
15°	524.9	524.9	524.0	528.3	527.4
17.5°	516.3	517.2	518.0	521.4	522.3
20°	506.8	508.6	509.4	514.6	514.6
22.5°	498.2	499.2	500.8	506.0	506.0
25°	487.2	488.8	492.2	496.6	497.4
27.5°	476.0	476.8	481.2	487.2	488.0
30°	461.4	464.0	469.1	476.0	476.8
32.5°	448.5	451.1	457.1	464.0	465.7
35°	432.3	435.7	442.5	451.1	452.8
37.5°	417.7	420.3	428.8	438.2	440.8
40°	399.7	404.7	413.3	424.5	428.8
42.5°	381.7	386.8	397.1	411.7	416.8
45°	362.8	368.8	381.7	397.9	404.7
47.5°	343.9	350.8	365.3	384.2	391.9
50°	322.4	331.0	349.0	370.5	379.1
52.5°	301.9	312.2	331.9	355.9	367.1
55°	280.4	290.7	316.4	341.4	353.3
57.5°	256.5	270.1	298.4	326.8	339.6
60°	234.1	246.9	281.3	312.2	325.0
62.5°	210.1	227.3	264.1	296.7	309.6
65°	185.2	204.1	246.1	278.7	291.6
67.5°	163.0	183.6	228.1	260.7	273.6
70°	136.4	162.0	208.4	240.9	253.9
72.5°	111.5	139.8	187.8	219.5	231.5
75°	87.5	119.2	166.4	194.7	200.7
77.5°	65.1	98.7	144.0	156.0	151.8
80°	46.3	78.9	112.3	106.3	108.9
82.5°	30.0	60.1	69.5	78.9	81.5
85°	17.2	35.2	42.9	46.3	48.0
87.5°	7.8	12.8	17.2	17.2	16.3
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)