

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: P734099

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734099  
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-CP187-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

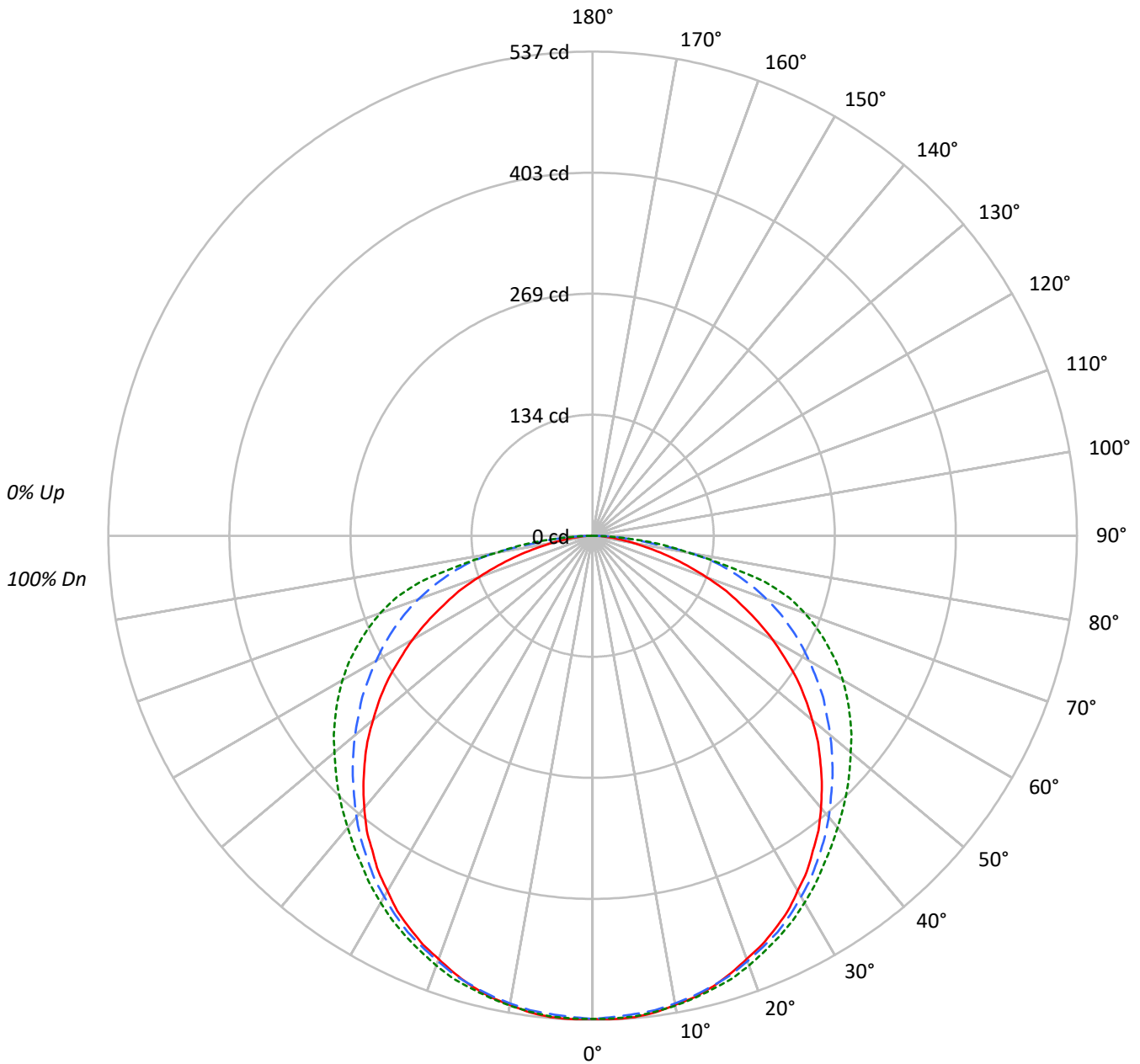
Lumens per Lamp: N/A  
Luminaire Lumens: 1704.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	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°	756	756	756
5°	759	754	758
10°	757	755	758
15°	756	755	759
20°	750	754	762
25°	748	755	763
30°	741	753	766
35°	734	751	769
40°	726	751	779
45°	714	751	796
50°	698	755	820
55°	680	767	857
60°	651	782	904
65°	609	810	960
70°	555	848	1032
75°	470	894	1079
80°	371	900	872
85°	274	685	766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	3.0
10°-20°	146.3	8.6
20°-30°	223.7	13.1
30°-40°	273.5	16.0
40°-50°	291.5	17.1
50°-60°	278.7	16.4
60°-70°	236.1	13.9
70°-80°	158.7	9.3
80°-90°	44.8	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°	420.8	24.7
0°-40°	694.3	40.7
0°-60°	1264.5	74.2
0°-90°	1704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	536	535	532	535	535	51
15°	517	517	516	521	520	146
25°	480	482	485	489	490	221
35°	426	429	436	444	446	267
45°	358	363	376	392	399	276
55°	276	286	312	336	348	246
65°	182	201	243	275	287	181
75°	86	118	164	192	198	92
85°	17	35	42	46	47	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	535.9	535.9	535.9	535.9	535.9
2.5°	536.7	536.7	534.1	535.9	535.9
5°	535.9	535.0	532.5	535.0	535.0
7.5°	533.3	532.5	530.8	533.3	532.5
10°	528.2	528.2	526.6	529.1	529.1
12.5°	524.0	523.2	522.3	525.7	524.9
15°	517.3	517.3	516.4	520.7	519.8
17.5°	508.9	509.7	510.5	513.9	514.8
20°	499.5	501.2	502.0	507.1	507.1
22.5°	491.0	491.9	493.6	498.7	498.7
25°	480.1	481.7	485.1	489.4	490.2
27.5°	469.1	469.9	474.2	480.1	480.9
30°	454.7	457.3	462.3	469.1	469.9
32.5°	442.0	444.5	450.5	457.3	458.9
35°	426.0	429.4	436.1	444.5	446.3
37.5°	411.6	414.2	422.6	431.9	434.5
40°	393.9	398.9	407.4	418.4	422.6
42.5°	376.2	381.2	391.4	405.7	410.8
45°	357.5	363.4	376.2	392.2	398.9
47.5°	339.0	345.7	360.1	378.6	386.3
50°	317.8	326.2	344.0	365.2	373.6
52.5°	297.5	307.7	327.1	350.8	361.8
55°	276.4	286.5	311.9	336.4	348.2
57.5°	252.7	266.2	294.1	322.0	334.7
60°	230.7	243.4	277.2	307.7	320.3
62.5°	207.1	224.0	260.3	292.4	305.1
65°	182.5	201.2	242.6	274.7	287.4
67.5°	160.6	180.9	224.8	256.9	269.7
70°	134.4	159.7	205.4	237.5	250.2
72.5°	109.9	137.8	185.1	216.4	228.2
75°	86.2	117.5	164.0	191.9	197.8
77.5°	64.2	97.2	142.0	153.8	149.6
80°	45.7	77.8	110.7	104.8	107.3
82.5°	29.6	59.2	68.5	77.8	80.3
85°	16.9	34.7	42.3	45.7	47.3
87.5°	7.6	12.6	16.9	16.9	16.1
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)