

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: P733976

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733976  
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-CP250-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

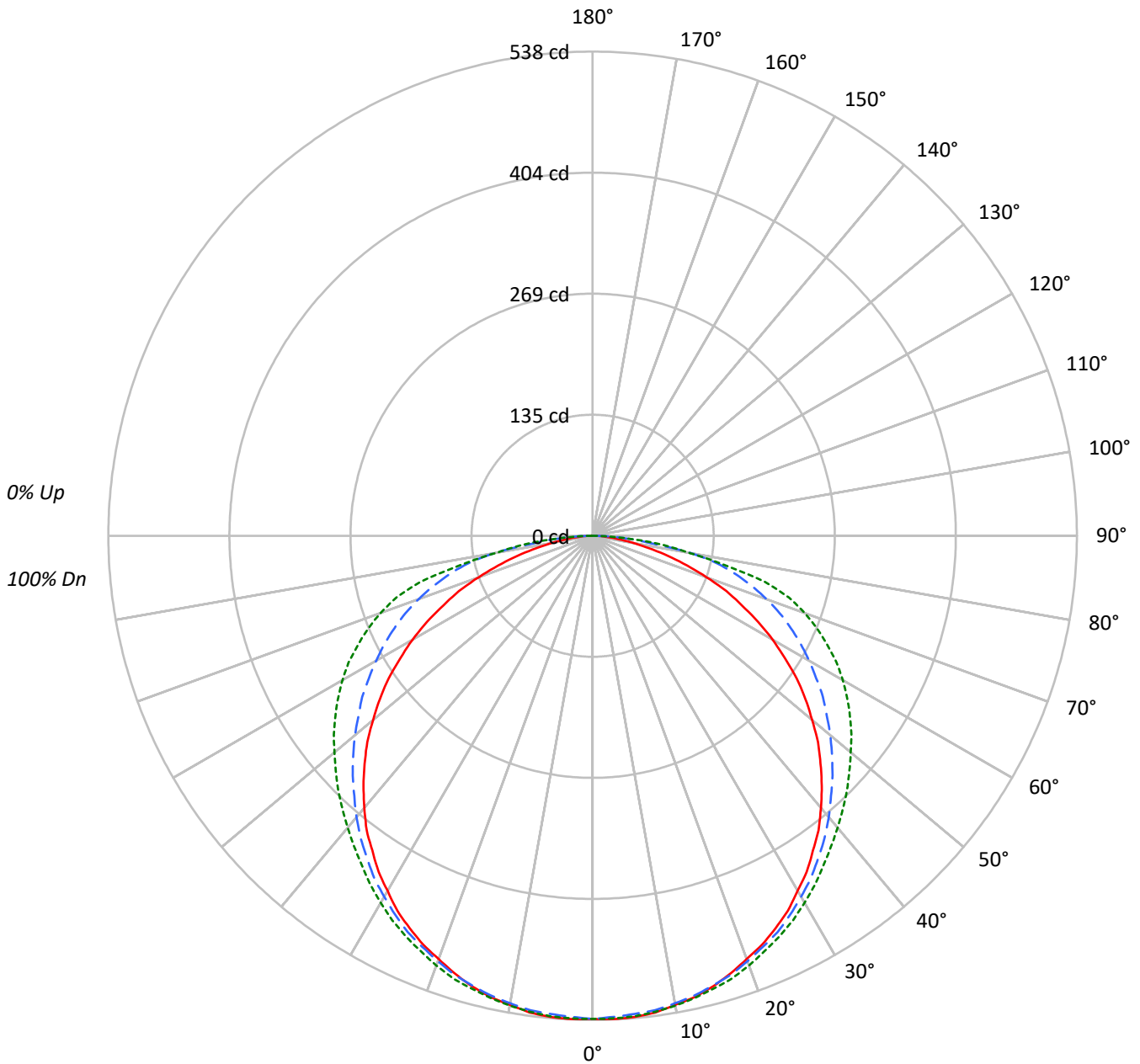
Lumens per Lamp: N/A  
Luminaire Lumens: 1707.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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°	758	758	758
5°	761	756	759
10°	758	756	760
15°	757	756	761
20°	752	755	763
25°	749	757	765
30°	742	755	767
35°	735	753	770
40°	727	752	780
45°	715	752	798
50°	699	757	822
55°	681	769	859
60°	652	784	906
65°	610	812	961
70°	556	849	1034
75°	471	896	1081
80°	371	901	874
85°	274	687	768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	3.0
10°-20°	146.6	8.6
20°-30°	224.1	13.1
30°-40°	274.0	16.0
40°-50°	292.0	17.1
50°-60°	279.2	16.4
60°-70°	236.5	13.9
70°-80°	158.9	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°	421.6	24.7
0°-40°	695.6	40.7
0°-60°	1266.7	74.2
0°-90°	1707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	537	536	533	536	536	51
15°	518	518	517	522	521	146
25°	481	483	486	490	491	222
35°	427	430	437	445	447	267
45°	358	364	377	393	400	276
55°	277	287	312	337	349	247
65°	183	202	243	275	288	182
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°	536.8	536.8	536.8	536.8	536.8
2.5°	537.6	537.6	535.1	536.8	536.8
5°	536.8	536.0	533.4	536.0	536.0
7.5°	534.3	533.4	531.7	534.3	533.4
10°	529.2	529.2	527.5	530.1	530.1
12.5°	525.0	524.1	523.2	526.6	525.8
15°	518.2	518.2	517.3	521.6	520.7
17.5°	509.8	510.6	511.4	514.8	515.7
20°	500.4	502.1	502.9	508.0	508.0
22.5°	491.9	492.8	494.4	499.5	499.5
25°	481.0	482.6	486.0	490.3	491.1
27.5°	469.9	470.8	475.0	481.0	481.8
30°	455.5	458.1	463.1	469.9	470.8
32.5°	442.8	445.3	451.3	458.1	459.7
35°	426.8	430.1	436.9	445.3	447.1
37.5°	412.4	414.9	423.4	432.7	435.2
40°	394.6	399.6	408.1	419.1	423.4
42.5°	376.8	381.8	392.0	406.4	411.5
45°	358.1	364.1	376.8	392.9	399.6
47.5°	339.6	346.3	360.7	379.3	386.9
50°	318.3	326.8	344.6	365.8	374.3
52.5°	298.0	308.2	327.7	351.4	362.4
55°	276.9	287.0	312.4	337.0	348.9
57.5°	253.2	266.7	294.6	322.6	335.3
60°	231.1	243.8	277.7	308.2	320.9
62.5°	207.5	224.4	260.7	292.9	305.7
65°	182.8	201.5	243.0	275.1	287.9
67.5°	160.9	181.2	225.2	257.4	270.1
70°	134.7	160.0	205.7	237.9	250.6
72.5°	110.1	138.0	185.4	216.7	228.6
75°	86.4	117.7	164.3	192.2	198.2
77.5°	64.3	97.4	142.2	154.1	149.9
80°	45.7	77.9	110.9	105.0	107.5
82.5°	29.6	59.3	68.6	77.9	80.4
85°	16.9	34.7	42.4	45.7	47.4
87.5°	7.7	12.7	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)