

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: P733971

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733971
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-CP187-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

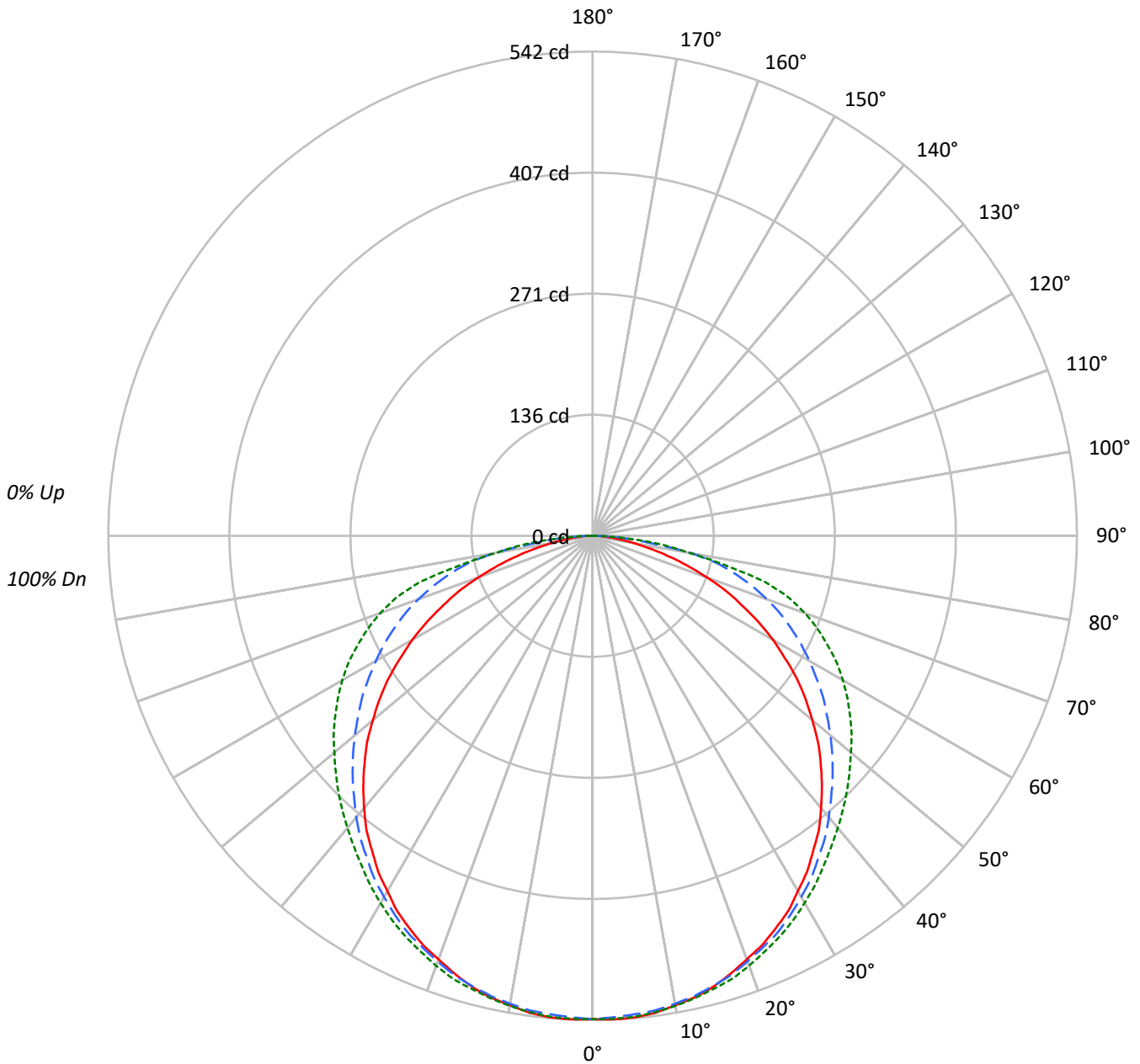
Lumens per Lamp: N/A
Luminaire Lumens: 1721.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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°	764	764	764
5°	767	762	766
10°	765	762	766
15°	763	762	767
20°	758	761	769
25°	755	763	771
30°	749	761	773
35°	741	759	777
40°	733	758	787
45°	721	758	804
50°	705	763	828
55°	687	775	865
60°	658	790	913
65°	615	818	969
70°	560	856	1043
75°	475	903	1090
80°	375	909	881
85°	277	691	774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.0
10°-20°	147.8	8.6
20°-30°	225.9	13.1
30°-40°	276.2	16.0
40°-50°	294.4	17.1
50°-60°	281.5	16.4
60°-70°	238.4	13.9
70°-80°	160.2	9.3
80°-90°	45.2	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°	425.0	24.7
0°-40°	701.2	40.7
0°-60°	1277.1	74.2
0°-90°	1721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	541	540	538	540	540	51
15°	522	522	522	526	525	147
25°	485	487	490	494	495	223
35°	430	434	440	449	451	270
45°	361	367	380	396	403	279
55°	279	289	315	340	352	249
65°	184	203	245	277	290	183
75°	87	119	166	194	200	93
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°	541.2	541.2	541.2	541.2	541.2
2.5°	542.0	542.0	539.5	541.2	541.2
5°	541.2	540.4	537.8	540.4	540.4
7.5°	538.6	537.8	536.1	538.6	537.8
10°	533.5	533.5	531.8	534.4	534.4
12.5°	529.3	528.4	527.5	530.9	530.1
15°	522.5	522.5	521.6	525.9	524.9
17.5°	513.9	514.8	515.6	519.0	519.9
20°	504.5	506.2	507.0	512.2	512.2
22.5°	495.9	496.8	498.5	503.6	503.6
25°	484.9	486.6	490.0	494.3	495.1
27.5°	473.8	474.6	478.9	484.9	485.7
30°	459.3	461.9	466.9	473.8	474.6
32.5°	446.4	449.0	455.0	461.9	463.5
35°	430.3	433.6	440.4	449.0	450.7
37.5°	415.7	418.3	426.9	436.2	438.8
40°	397.8	402.9	411.4	422.5	426.9
42.5°	379.9	385.0	395.3	409.8	414.9
45°	361.1	367.1	379.9	396.1	402.9
47.5°	342.3	349.1	363.7	382.4	390.1
50°	320.9	329.5	347.4	368.8	377.3
52.5°	300.5	310.7	330.4	354.3	365.4
55°	279.1	289.3	315.0	339.8	351.7
57.5°	255.3	268.9	297.1	325.3	338.0
60°	233.0	245.8	280.0	310.7	323.5
62.5°	209.2	226.2	262.9	295.3	308.2
65°	184.3	203.2	245.0	277.4	290.3
67.5°	162.2	182.7	227.1	259.5	272.4
70°	135.8	161.3	207.4	239.8	252.7
72.5°	111.0	139.2	186.9	218.5	230.5
75°	87.1	118.7	165.6	193.8	199.8
77.5°	64.8	98.2	143.4	155.3	151.1
80°	46.1	78.5	111.8	105.8	108.4
82.5°	29.8	59.8	69.2	78.5	81.1
85°	17.1	35.0	42.7	46.1	47.8
87.5°	7.7	12.8	17.1	17.1	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)