

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: P733965

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733965
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-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

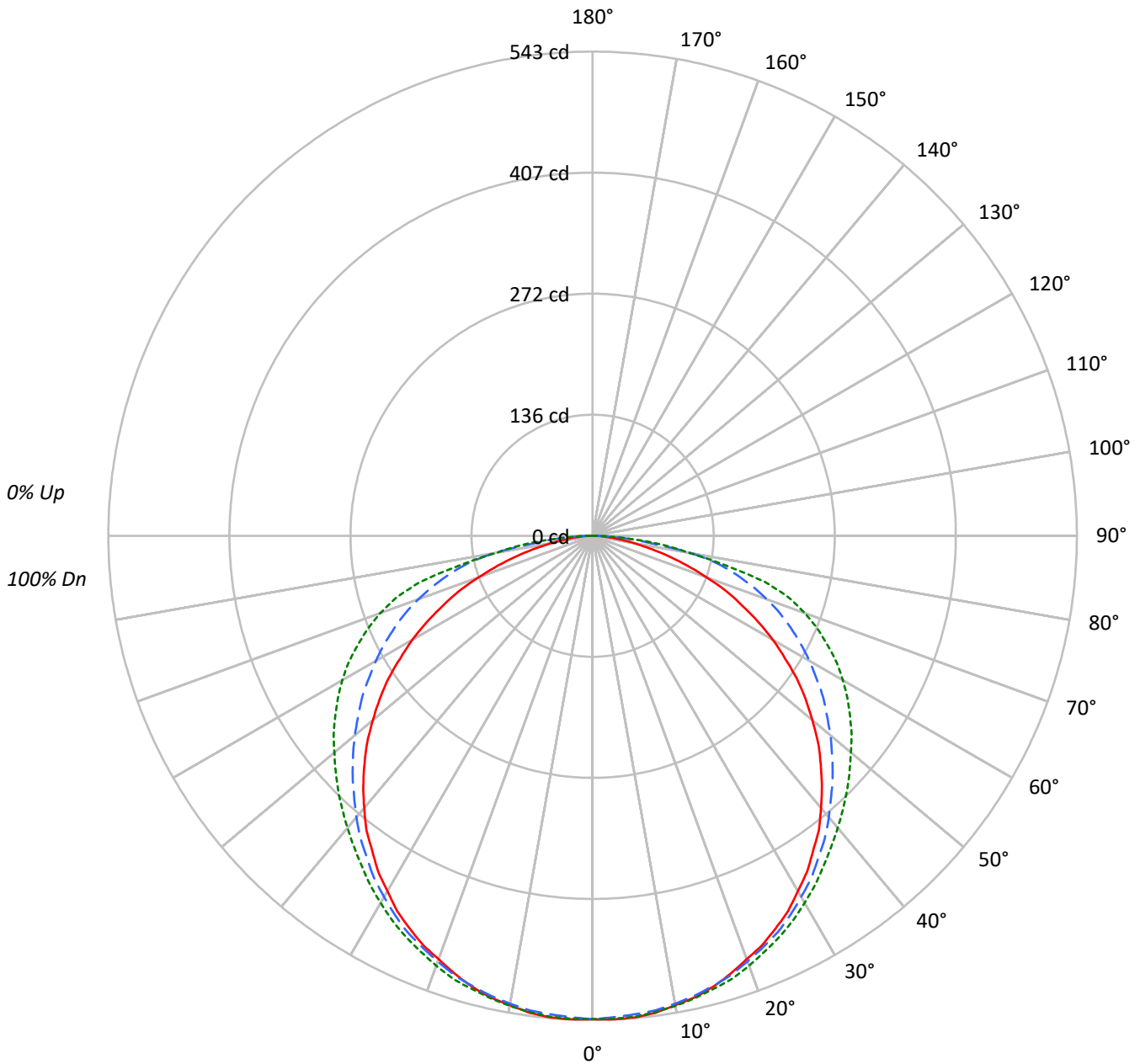
Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	765	765	765
5°	768	763	767
10°	766	764	767
15°	765	763	768
20°	759	763	771
25°	757	764	772
30°	750	762	775
35°	743	760	778
40°	734	759	788
45°	722	760	806
50°	706	764	830
55°	688	776	867
60°	659	792	915
65°	617	820	971
70°	561	857	1044
75°	476	905	1091
80°	375	910	883
85°	277	693	774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.0
10°-20°	148.0	8.6
20°-30°	226.3	13.1
30°-40°	276.7	16.0
40°-50°	294.9	17.1
50°-60°	282.0	16.4
60°-70°	238.8	13.9
70°-80°	160.5	9.3
80°-90°	45.3	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°	425.8	24.7
0°-40°	702.5	40.7
0°-60°	1279.3	74.2
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	542	541	539	541	541	52
15°	523	523	522	527	526	148
25°	486	487	491	495	496	224
35°	431	434	441	450	452	270
45°	362	368	381	397	404	279
55°	280	290	316	340	352	249
65°	185	204	245	278	291	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°	542.2	542.2	542.2	542.2	542.2
2.5°	543.0	543.0	540.4	542.2	542.2
5°	542.2	541.3	538.8	541.3	541.3
7.5°	539.6	538.8	537.0	539.6	538.8
10°	534.4	534.4	532.8	535.3	535.3
12.5°	530.2	529.4	528.4	531.8	531.0
15°	523.4	523.4	522.5	526.8	525.9
17.5°	514.8	515.7	516.5	519.9	520.8
20°	505.3	507.1	507.9	513.1	513.1
22.5°	496.8	497.7	499.4	504.5	504.5
25°	485.8	487.4	490.8	495.1	496.0
27.5°	474.6	475.4	479.8	485.8	486.6
30°	460.1	462.7	467.7	474.6	475.4
32.5°	447.2	449.8	455.7	462.7	464.3
35°	431.0	434.4	441.2	449.8	451.5
37.5°	416.5	419.0	427.6	437.0	439.6
40°	398.5	403.6	412.1	423.3	427.6
42.5°	380.6	385.6	395.9	410.5	415.6
45°	361.7	367.7	380.6	396.8	403.6
47.5°	342.9	349.8	364.3	383.1	390.8
50°	321.5	330.1	348.0	369.4	378.0
52.5°	301.0	311.3	331.0	354.9	366.0
55°	279.6	289.8	315.5	340.4	352.3
57.5°	255.7	269.3	297.6	325.8	338.6
60°	233.4	246.2	280.5	311.3	324.1
62.5°	209.5	226.6	263.3	295.8	308.7
65°	184.7	203.5	245.4	277.9	290.8
67.5°	162.5	183.0	227.5	259.9	272.8
70°	136.0	161.6	207.8	240.2	253.1
72.5°	111.2	139.4	187.2	218.9	230.9
75°	87.2	118.9	165.9	194.2	200.1
77.5°	65.0	98.4	143.6	155.6	151.4
80°	46.2	78.7	112.0	106.0	108.6
82.5°	29.9	59.9	69.3	78.7	81.3
85°	17.1	35.1	42.8	46.2	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)