

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: P733978

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733978
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-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

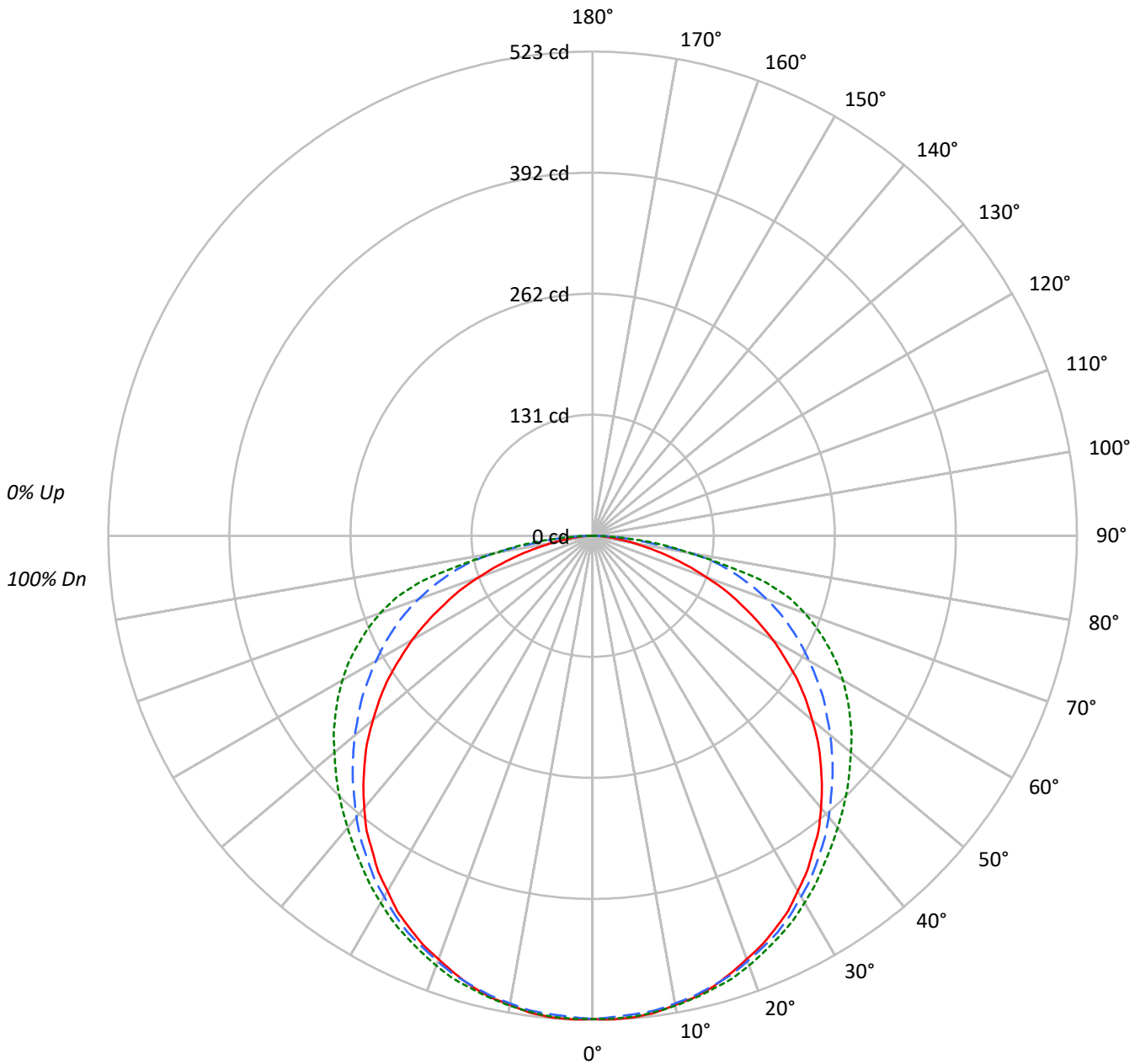
Lumens per Lamp: N/A
Luminaire Lumens: 1660.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{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°	737	737	737
5°	740	735	738
10°	737	735	739
15°	736	735	740
20°	731	735	742
25°	728	736	744
30°	722	734	746
35°	715	732	749
40°	707	731	759
45°	695	732	776
50°	680	736	799
55°	663	748	835
60°	635	762	881
65°	594	789	935
70°	541	826	1006
75°	458	871	1051
80°	362	876	849
85°	267	667	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.0
10°-20°	142.5	8.6
20°-30°	217.9	13.1
30°-40°	266.4	16.0
40°-50°	283.9	17.1
50°-60°	271.5	16.4
60°-70°	230.0	13.9
70°-80°	154.6	9.3
80°-90°	43.6	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°	410.0	24.7
0°-40°	676.4	40.7
0°-60°	1231.8	74.2
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	522	521	519	521	521	50
15°	504	504	503	507	506	142
25°	468	469	473	477	478	216
35°	415	418	425	433	435	260
45°	348	354	366	382	389	269
55°	269	279	304	328	339	240
65°	178	196	236	268	280	177
75°	84	114	160	187	193	90
85°	16	34	41	44	46	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.0	522.0	522.0	522.0	522.0
2.5°	522.8	522.8	520.3	522.0	522.0
5°	522.0	521.2	518.8	521.2	521.2
7.5°	519.5	518.8	517.1	519.5	518.8
10°	514.6	514.6	513.0	515.5	515.5
12.5°	510.5	509.7	508.8	512.1	511.3
15°	504.0	504.0	503.1	507.2	506.3
17.5°	495.7	496.5	497.3	500.6	501.5
20°	486.6	488.3	489.1	494.0	494.0
22.5°	478.3	479.2	480.8	485.8	485.8
25°	467.7	469.3	472.6	476.8	477.5
27.5°	457.0	457.8	462.0	467.7	468.5
30°	443.0	445.5	450.3	457.0	457.8
32.5°	430.6	433.1	438.8	445.5	447.1
35°	415.0	418.3	424.8	433.1	434.8
37.5°	401.0	403.5	411.7	420.8	423.2
40°	383.7	388.6	396.8	407.6	411.7
42.5°	366.5	371.3	381.2	395.2	400.2
45°	348.3	354.0	366.5	382.0	388.6
47.5°	330.2	336.8	350.8	368.8	376.3
50°	309.6	317.8	335.1	355.7	364.0
52.5°	289.8	299.7	318.7	341.7	352.5
55°	269.3	279.1	303.8	327.7	339.2
57.5°	246.2	259.3	286.5	313.7	326.0
60°	224.8	237.1	270.0	299.7	312.0
62.5°	201.7	218.2	253.6	284.8	297.3
65°	177.8	196.0	236.3	267.6	280.0
67.5°	156.5	176.2	219.0	250.3	262.7
70°	131.0	155.6	200.1	231.3	243.7
72.5°	107.0	134.2	180.3	210.8	222.3
75°	84.0	114.5	159.7	186.9	192.7
77.5°	62.5	94.7	138.3	149.8	145.7
80°	44.5	75.8	107.8	102.1	104.5
82.5°	28.8	57.7	66.7	75.8	78.2
85°	16.5	33.8	41.2	44.5	46.1
87.5°	7.4	12.3	16.5	16.5	15.7
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)