

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: P733975

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733975
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-CP187-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

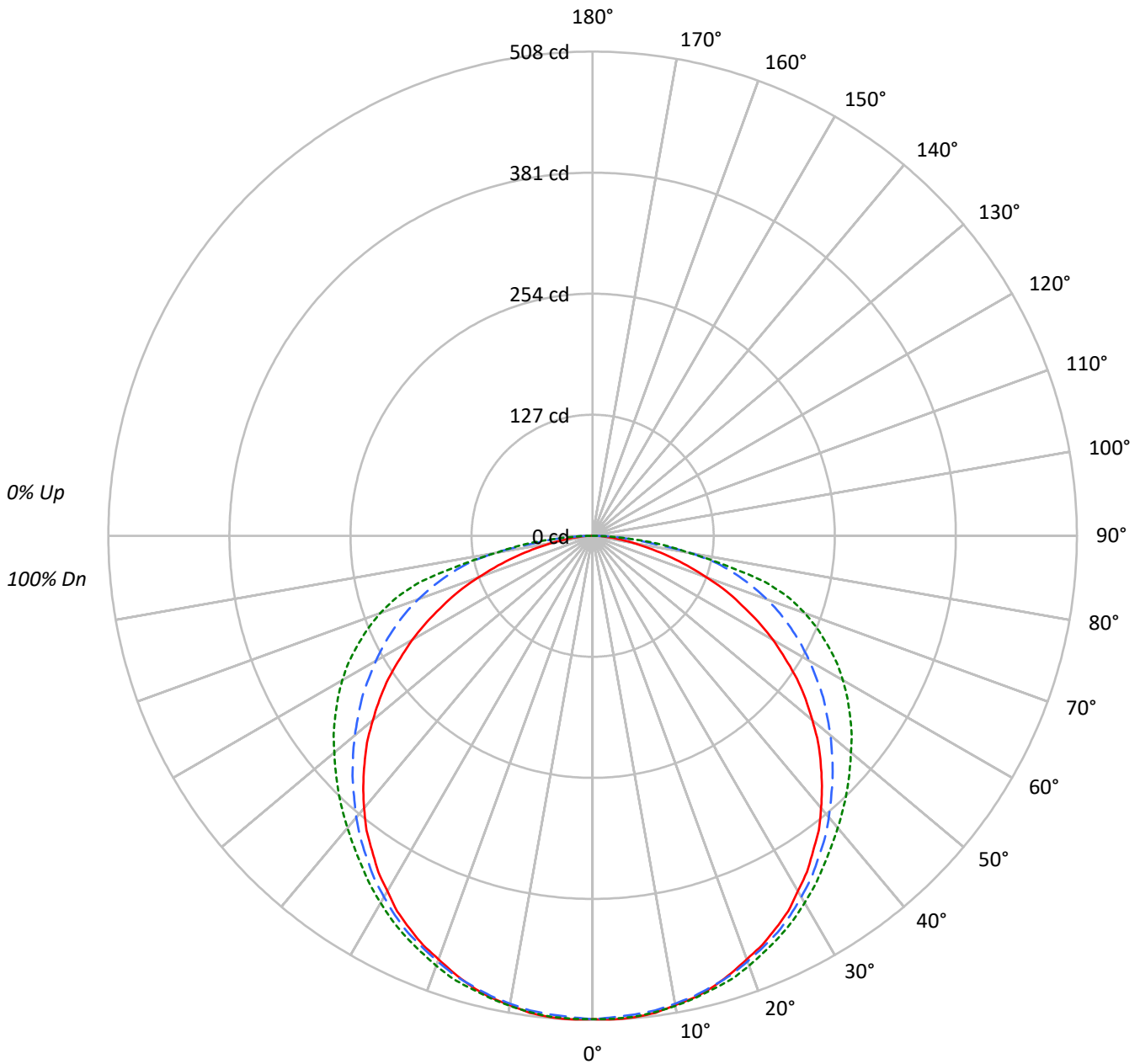
Lumens per Lamp: N/A
Luminaire Lumens: 1613.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	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°	716	716	716
5°	719	714	718
10°	717	714	718
15°	716	714	719
20°	710	714	721
25°	708	715	723
30°	702	713	725
35°	695	711	728
40°	687	710	737
45°	675	711	754
50°	660	715	777
55°	644	726	811
60°	616	741	856
65°	577	767	908
70°	525	802	977
75°	445	846	1021
80°	351	852	826
85°	259	648	725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.0
10°-20°	138.5	8.6
20°-30°	211.8	13.1
30°-40°	258.9	16.0
40°-50°	275.9	17.1
50°-60°	263.8	16.4
60°-70°	223.5	13.9
70°-80°	150.2	9.3
80°-90°	42.4	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°	398.4	24.7
0°-40°	657.2	40.7
0°-60°	1197.0	74.2
0°-90°	1613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	507	506	504	506	506	48
15°	490	490	489	493	492	138
25°	454	456	459	463	464	209
35°	403	406	413	421	422	253
45°	338	344	356	371	378	261
55°	262	271	295	318	330	233
65°	173	190	230	260	272	172
75°	82	111	155	182	187	87
85°	16	33	40	43	45	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.2	507.2	507.2	507.2	507.2
2.5°	508.0	508.0	505.6	507.2	507.2
5°	507.2	506.5	504.1	506.5	506.5
7.5°	504.8	504.1	502.4	504.8	504.1
10°	500.0	500.0	498.5	500.9	500.9
12.5°	496.1	495.3	494.4	497.6	496.8
15°	489.7	489.7	488.8	492.9	492.0
17.5°	481.7	482.5	483.2	486.4	487.3
20°	472.8	474.4	475.2	480.0	480.0
22.5°	464.8	465.7	467.2	472.0	472.0
25°	454.5	456.0	459.2	463.3	464.0
27.5°	444.1	444.8	448.9	454.5	455.2
30°	430.5	432.9	437.6	444.1	444.8
32.5°	418.4	420.8	426.4	432.9	434.4
35°	403.3	406.4	412.8	420.8	422.4
37.5°	389.6	392.1	400.1	408.8	411.3
40°	372.9	377.6	385.6	396.0	400.1
42.5°	356.1	360.8	370.5	384.1	388.9
45°	338.4	344.0	356.1	371.2	377.6
47.5°	320.9	327.2	340.8	358.4	365.6
50°	300.8	308.8	325.6	345.7	353.7
52.5°	281.6	291.2	309.7	332.1	342.5
55°	261.6	271.2	295.2	318.5	329.6
57.5°	239.2	252.0	278.4	304.9	316.8
60°	218.4	230.4	262.4	291.2	303.2
62.5°	196.0	212.0	246.4	276.8	288.8
65°	172.8	190.4	229.6	260.0	272.0
67.5°	152.0	171.2	212.8	243.2	255.3
70°	127.2	151.2	194.4	224.8	236.8
72.5°	104.0	130.4	175.2	204.8	216.0
75°	81.6	111.2	155.2	181.7	187.3
77.5°	60.8	92.0	134.4	145.6	141.6
80°	43.2	73.6	104.8	99.2	101.6
82.5°	28.0	56.0	64.8	73.6	76.0
85°	16.0	32.8	40.0	43.2	44.8
87.5°	7.2	12.0	16.0	16.0	15.2
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)