

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: P733984

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733984
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-CP375-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

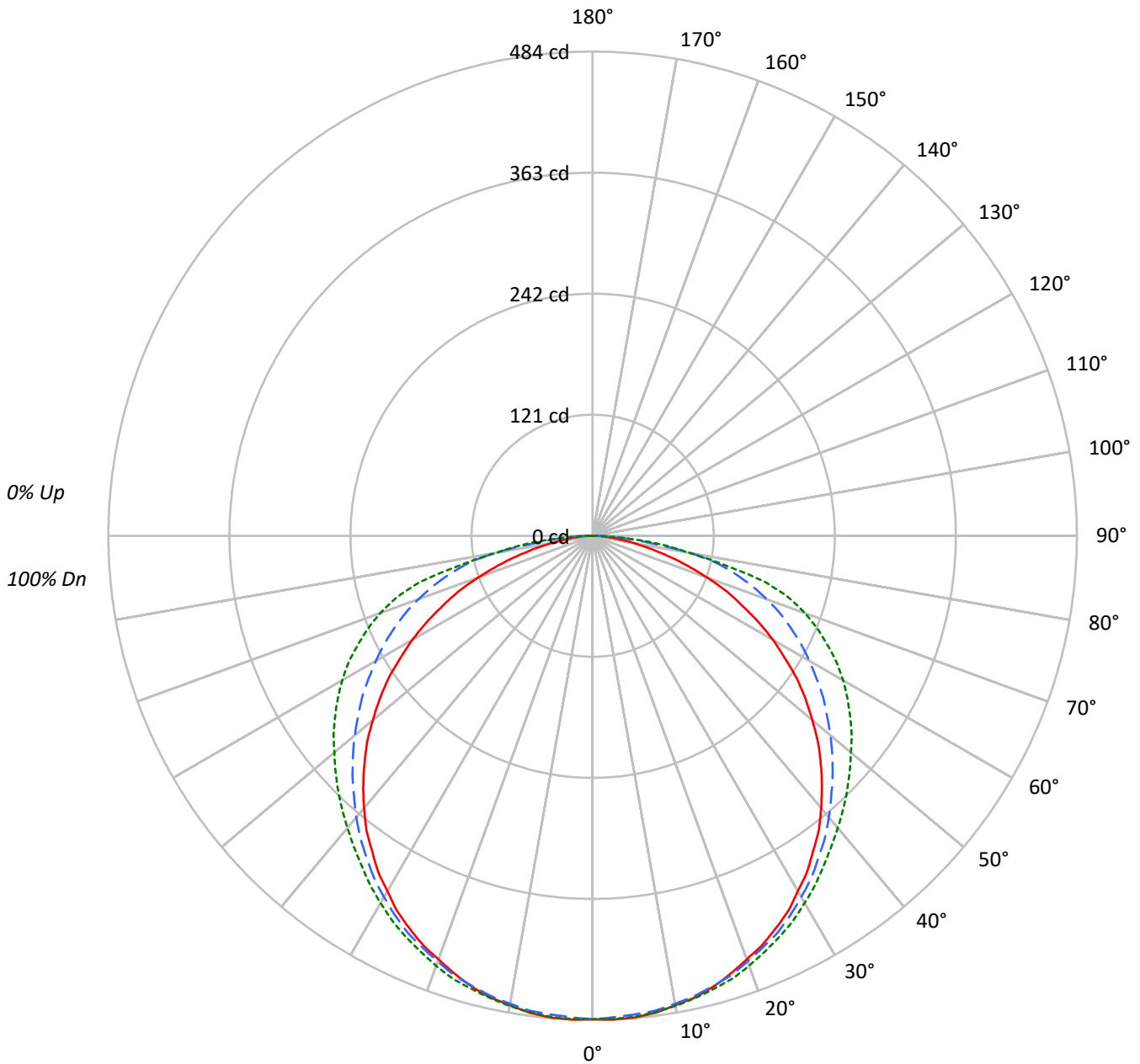
Lumens per Lamp: N/A
Luminaire Lumens: 1537.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	682	682	682
5°	685	680	684
10°	683	681	684
15°	682	681	685
20°	677	680	687
25°	674	681	689
30°	668	680	691
35°	662	678	693
40°	655	677	702
45°	644	677	718
50°	629	681	740
55°	613	692	773
60°	587	706	815
65°	550	731	866
70°	501	764	931
75°	424	806	973
80°	335	811	787
85°	248	617	691



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	3.0
10°-20°	132.0	8.6
20°-30°	201.8	13.1
30°-40°	246.7	16.0
40°-50°	262.9	17.1
50°-60°	251.4	16.4
60°-70°	212.9	13.9
70°-80°	143.1	9.3
80°-90°	40.4	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°	379.6	24.7
0°-40°	626.3	40.7
0°-60°	1140.6	74.2
0°-90°	1537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	483	483	480	483	483	46
15°	467	467	466	470	469	132
25°	433	434	438	441	442	200
35°	384	387	393	401	402	241
45°	322	328	339	354	360	249
55°	249	258	281	303	314	222
65°	165	182	219	248	259	163
75°	78	106	148	173	178	83
85°	15	31	38	41	43	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	483.3	483.3	483.3	483.3	483.3
2.5°	484.1	484.1	481.8	483.3	483.3
5°	483.3	482.6	480.3	482.6	482.6
7.5°	481.0	480.3	478.8	481.0	480.3
10°	476.5	476.5	475.0	477.3	477.3
12.5°	472.7	471.9	471.1	474.2	473.4
15°	466.6	466.6	465.8	469.7	468.8
17.5°	459.0	459.7	460.5	463.5	464.3
20°	450.5	452.1	452.8	457.4	457.4
22.5°	442.9	443.7	445.2	449.8	449.8
25°	433.1	434.5	437.6	441.4	442.2
27.5°	423.1	423.9	427.7	433.1	433.8
30°	410.2	412.5	417.0	423.1	423.9
32.5°	398.7	401.0	406.3	412.5	413.9
35°	384.3	387.3	393.4	401.0	402.5
37.5°	371.3	373.6	381.2	389.6	391.9
40°	355.3	359.8	367.4	377.4	381.2
42.5°	339.3	343.8	353.0	366.0	370.6
45°	322.5	327.8	339.3	353.7	359.8
47.5°	305.7	311.8	324.8	341.5	348.4
50°	286.6	294.3	310.3	329.4	337.0
52.5°	268.3	277.5	295.1	316.4	326.3
55°	249.3	258.4	281.3	303.4	314.1
57.5°	228.0	240.1	265.3	290.5	301.9
60°	208.1	219.5	250.0	277.5	288.9
62.5°	186.8	202.1	234.8	263.7	275.2
65°	164.6	181.5	218.8	247.7	259.2
67.5°	144.9	163.2	202.8	231.7	243.2
70°	121.3	144.0	185.2	214.2	225.7
72.5°	99.1	124.3	166.9	195.2	205.8
75°	77.8	106.0	147.9	173.1	178.4
77.5°	57.9	87.7	128.1	138.7	134.9
80°	41.2	70.1	99.8	94.5	96.8
82.5°	26.7	53.4	61.8	70.1	72.4
85°	15.3	31.3	38.1	41.2	42.7
87.5°	6.9	11.4	15.3	15.3	14.5
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)