

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: P733985

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733985
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-CP375-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

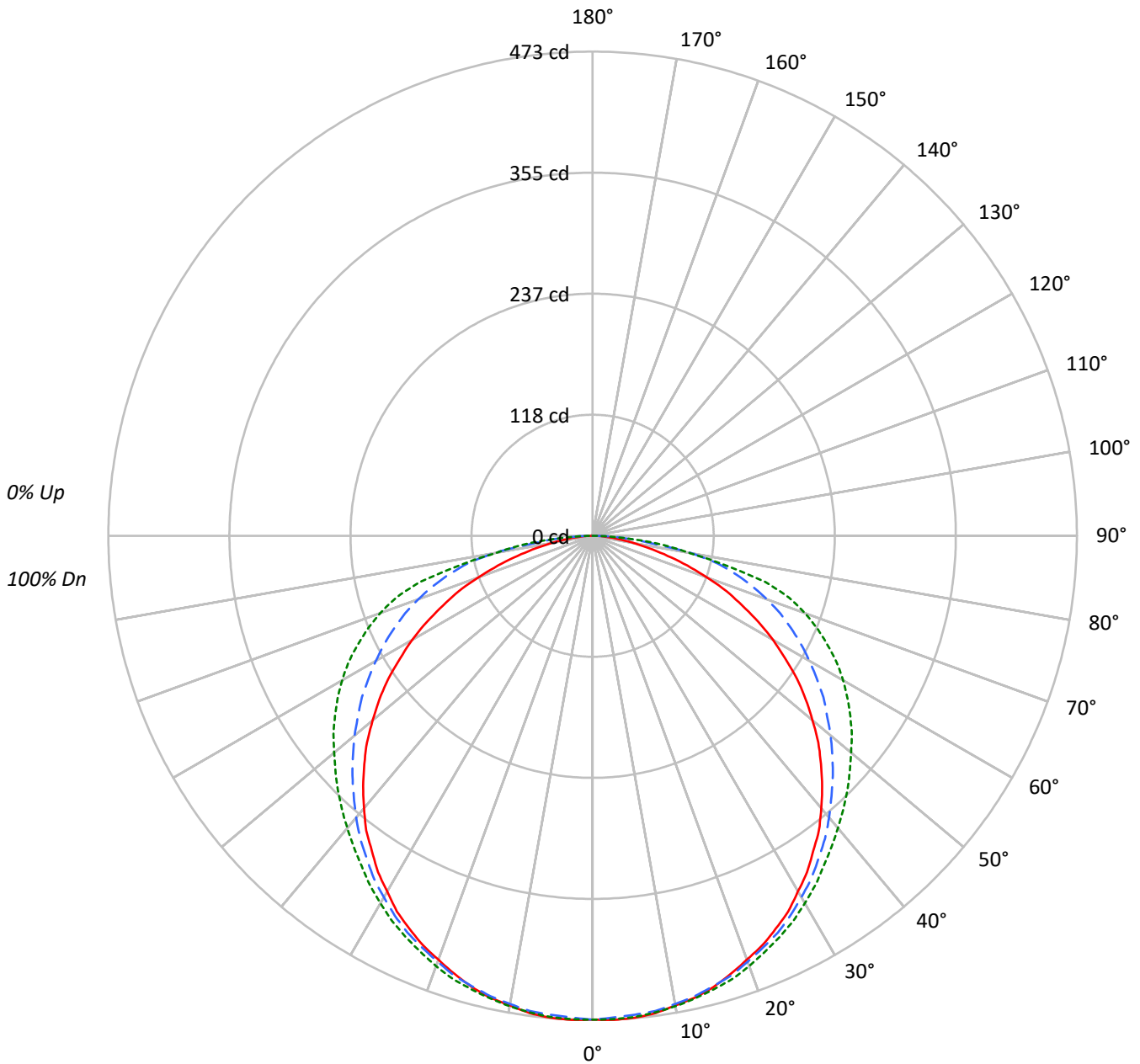
Lumens per Lamp: N/A
Luminaire Lumens: 1503.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P733985

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CP375-5000K

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°	667	667	667
5°	670	665	669
10°	668	666	669
15°	667	666	670
20°	662	665	672
25°	659	666	673
30°	654	665	676
35°	647	663	678
40°	640	662	687
45°	629	662	702
50°	615	666	723
55°	600	677	756
60°	574	690	797
65°	538	714	847
70°	489	747	911
75°	414	789	952
80°	328	793	770
85°	241	604	675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.0
10°-20°	129.0	8.6
20°-30°	197.3	13.1
30°-40°	241.2	16.0
40°-50°	257.1	17.1
50°-60°	245.8	16.4
60°-70°	208.2	13.9
70°-80°	139.9	9.3
80°-90°	39.5	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°	371.2	24.7
0°-40°	612.4	40.7
0°-60°	1115.3	74.2
0°-90°	1503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	473	472	470	472	472	45
15°	456	456	456	459	458	129
25°	424	425	428	432	432	195
35°	376	379	385	392	394	235
45°	315	321	332	346	352	243
55°	244	253	275	297	307	217
65°	161	177	214	242	254	160
75°	76	104	145	169	174	81
85°	15	31	37	40	42	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	472.7	472.7	472.7	472.7	472.7
2.5°	473.4	473.4	471.1	472.7	472.7
5°	472.7	471.9	469.7	471.9	471.9
7.5°	470.4	469.7	468.2	470.4	469.7
10°	465.9	465.9	464.5	466.7	466.7
12.5°	462.2	461.5	460.7	463.7	462.9
15°	456.3	456.3	455.5	459.3	458.5
17.5°	448.8	449.6	450.3	453.2	454.0
20°	440.6	442.1	442.8	447.3	447.3
22.5°	433.1	433.9	435.3	439.8	439.8
25°	423.5	424.9	427.9	431.7	432.4
27.5°	413.8	414.5	418.3	423.5	424.2
30°	401.1	403.3	407.8	413.8	414.5
32.5°	389.9	392.1	397.3	403.3	404.8
35°	375.8	378.7	384.7	392.1	393.6
37.5°	363.1	365.3	372.8	381.0	383.2
40°	347.4	351.8	359.3	369.0	372.8
42.5°	331.8	336.2	345.2	357.9	362.4
45°	315.3	320.6	331.8	345.9	351.8
47.5°	299.0	304.9	317.6	334.0	340.7
50°	280.3	287.7	303.4	322.1	329.5
52.5°	262.4	271.4	288.6	309.4	319.1
55°	243.8	252.7	275.1	296.7	307.2
57.5°	222.9	234.8	259.4	284.1	295.2
60°	203.5	214.7	244.5	271.4	282.5
62.5°	182.7	197.6	229.6	257.9	269.1
65°	161.0	177.4	213.9	242.3	253.5
67.5°	141.7	159.6	198.3	226.6	237.9
70°	118.6	140.9	181.1	209.4	220.7
72.5°	96.9	121.5	163.2	190.8	201.3
75°	76.0	103.6	144.6	169.3	174.5
77.5°	56.6	85.8	125.2	135.6	132.0
80°	40.3	68.6	97.6	92.4	94.7
82.5°	26.1	52.2	60.4	68.6	70.8
85°	14.9	30.6	37.3	40.3	41.7
87.5°	6.7	11.1	14.9	14.9	14.2
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)