



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L061702304 FREESTYLE 31 OPEN.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L061702304  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 6/13/2017  
[MANUFAC] Kino Flo Lighting Systems  
[LUMCAT] CFX-F31 or CFX-F31T  
[LUMINAIRE] FreeStyle 31, open  
[BALLASTCAT] KINO FLO LED-150X or LED-151X  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[TEST CONDITION] BRIGHTNESS IS SET TO 100%. COLOR TEMPERATURE IS SET TO 6500K.  
[MORE] TEST IS PERFORMED WITHOUT LOUVER.  
[INPUT] 120VAC, 1.03A, 123.05W, 0.99PF, 8%ATHD  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	123.05
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.26
Spacing Criteria (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.67 ft
Luminous Width (90-270)	3.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13619	13771	13846
55	12760	13059	13189
65	11761	12153	12482
75	9406	9902	10584
85	4665	5648	7551

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	2808	2808	2808	2808	2808
<b>5</b>	2793	2793	2797	2795	2793
<b>10</b>	2750	2752	2756	2756	2753
<b>15</b>	2676	2682	2688	2689	2688
<b>20</b>	2581	2586	2595	2596	2598
<b>25</b>	2464	2470	2475	2478	2479
<b>30</b>	2325	2327	2337	2342	2344
<b>35</b>	2167	2172	2181	2188	2191
<b>40</b>	1995	1999	2009	2017	2020
<b>45</b>	1800	1809	1820	1827	1830
<b>50</b>	1589	1598	1618	1625	1628
<b>55</b>	1368	1377	1400	1410	1414
<b>60</b>	1163	1173	1195	1212	1215
<b>65</b>	929	939	960	983	986
<b>70</b>	689	696	716	742	746
<b>75</b>	455	462	479	503	512
<b>80</b>	244	250	264	286	297
<b>85</b>	76	80	92	108	123
<b>90</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	2162.8	N.A.	27.80
0-40	3526.44	N.A.	45.40
0-60	6179.65	N.A.	79.60
0-90	7766.27	N.A.	100.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
0-180	7766.27	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	265.46
10-20	757.53
20-30	1139.8
30-40	1363.64
40-50	1401.5
50-60	1251.71
60-70	948.00
70-80	514.14
80-90	124.48
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

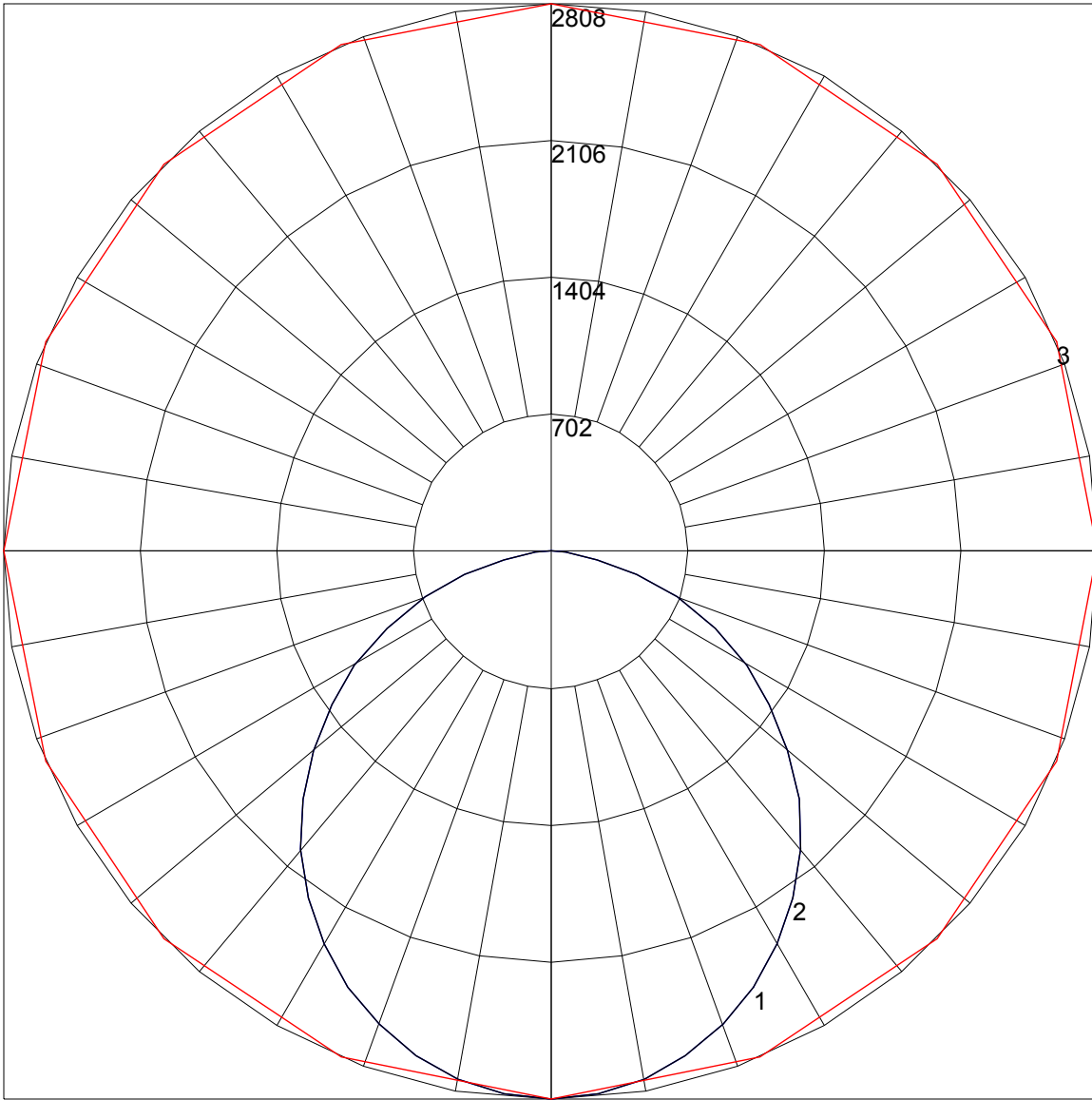
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

POLAR GRAPH



Maximum Candela = 2808 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (0 - 180)

# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)