



KINO FLO® LIGHTING SYSTEMS

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

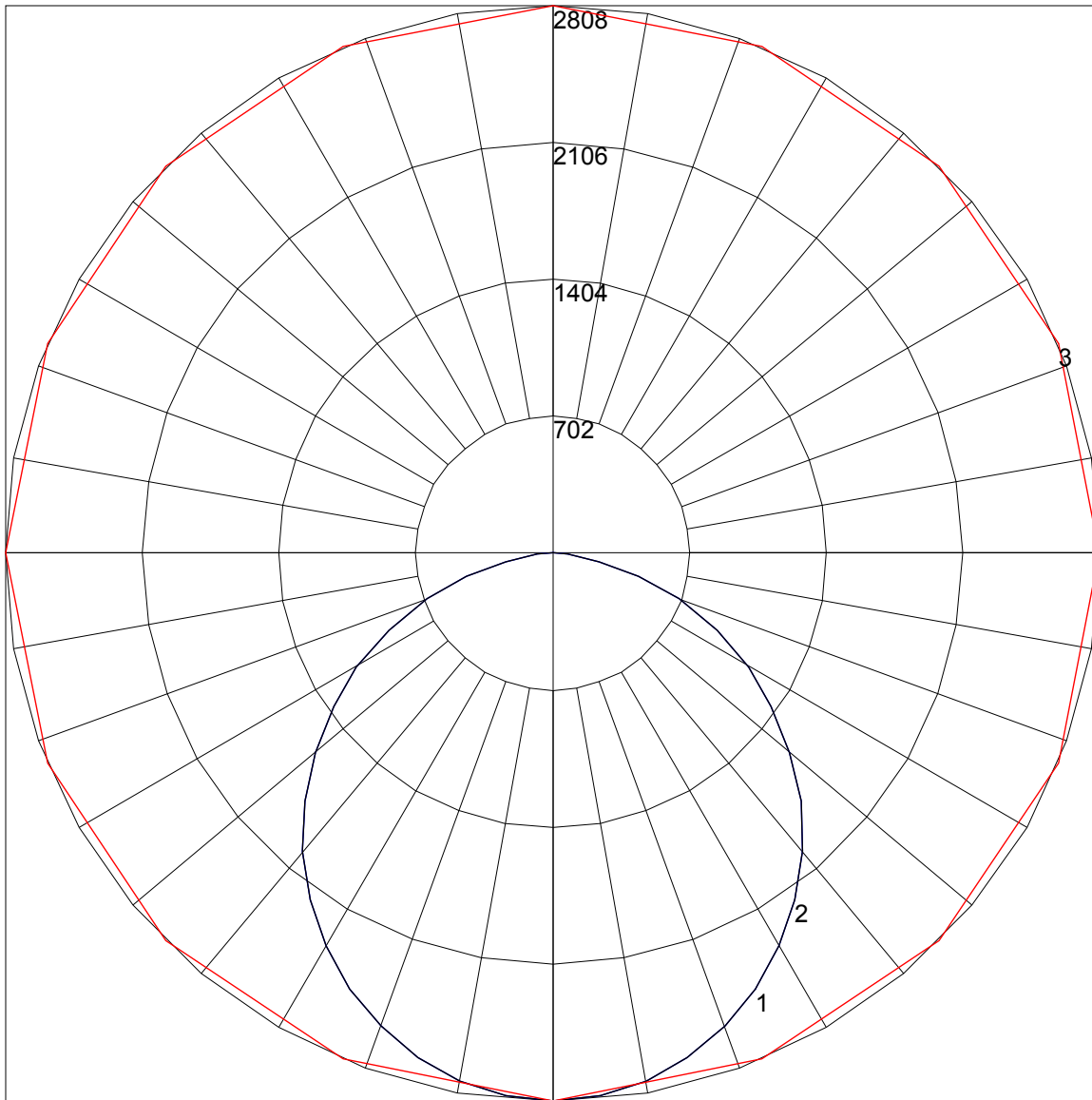
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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.)