



KINO FLO® LIGHTING SYSTEMS

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L061702306 FREESTYLE 31 60.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L061702306

[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, w 60 Louver

[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 WITH 60 DEGREE LOUVER.

[INPUT] 120VAC, 1.04A, 123.48W, 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	908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	123.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	0.54
Spacing Criteria (90-270)	0.56
Spacing Criteria (Diagonal)	0.58
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	174	185	189
55	75	75	75
65	76	76	76
75	124	124	124
85	307	307	307

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358
1.0	2324	2320	2324	2328	2330	2333	2334	2334	2338	2341
3.0	2246	2255	2254	2251	2254	2255	2263	2265	2264	2267
5.0	2136	2136	2132	2137	2137	2140	2143	2148	2155	2154
7.0	1986	1986	1985	1993	1993	1997	2002	2008	2012	2013
9.0	1828	1828	1829	1826	1832	1831	1835	1840	1839	1849
11.0	1663	1668	1668	1667	1669	1670	1675	1676	1684	1689
13.0	1497	1496	1496	1494	1499	1498	1505	1507	1510	1512
15.0	1317	1317	1318	1325	1326	1329	1334	1337	1338	1339
17.0	1133	1137	1145	1144	1147	1149	1152	1156	1156	1162
19.5	924	926	927	928	931	933	938	939	945	945
22.5	668	671	671	674	679	677	681	684	687	690
25.5	442	442	444	445	447	449	452	455	458	461
29.0	237	236	235	238	239	240	242	246	249	251
33.0	136	136	136	137	136	136	137	137	138	139
37.5	75	75	75	75	75	75	75	76	76	76
42.5	33	33	34	34	34	35	35	35	35	35
47.5	13	13	13	13	13	13	13	14	14	14
55.0	8	8	8	8	8	8	8	8	8	8
65.0	6	6	6	6	6	6	6	6	6	6
75.0	6	6	6	6	6	6	6	6	6	6
85.0	5	5	5	5	5	5	5	5	5	5
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	2358	2358	2358	2358	2358	2358	2358	2358	2358
1.0	2347	2349	2347	2344	2343	2340	2337	2346	2355
3.0	2273	2278	2270	2274	2280	2282	2283	2286	2290
5.0	2157	2158	2160	2163	2164	2167	2166	2170	2167
7.0	2012	2012	2015	2021	2021	2026	2026	2026	2027
9.0	1860	1858	1865	1866	1865	1863	1866	1869	1870
11.0	1688	1683	1685	1692	1697	1696	1691	1695	1694
13.0	1517	1515	1521	1524	1528	1525	1527	1525	1526
15.0	1337	1340	1344	1346	1350	1349	1350	1355	1356
17.0	1166	1170	1172	1174	1175	1178	1178	1184	1183
19.5	947	947	951	955	957	960	962	964	964
22.5	691	694	695	696	701	699	702	704	706
25.5	464	466	469	471	473	473	475	475	476
29.0	256	259	260	262	265	265	265	265	266
33.0	140	141	141	141	142	142	141	141	141
37.5	77	77	77	77	78	78	78	78	78
42.5	35	35	35	35	35	35	36	36	36
47.5	14	14	14	14	14	14	14	14	14
55.0	8	8	8	8	8	8	8	8	8
65.0	6	6	6	6	6	6	6	6	6
75.0	6	6	6	6	6	6	6	6	6
85.0	5	5	5	5	5	5	5	5	5
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	777.23	N.A.	85.60
0-40	851.94	N.A.	93.80
0-60	887.85	N.A.	97.80
0-90	907.97	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	907.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.23
10-20	381.51
20-30	235.49
30-40	74.71
40-50	28.97
50-60	6.93
60-70	6.64
70-80	6.18
80-90	7.30
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

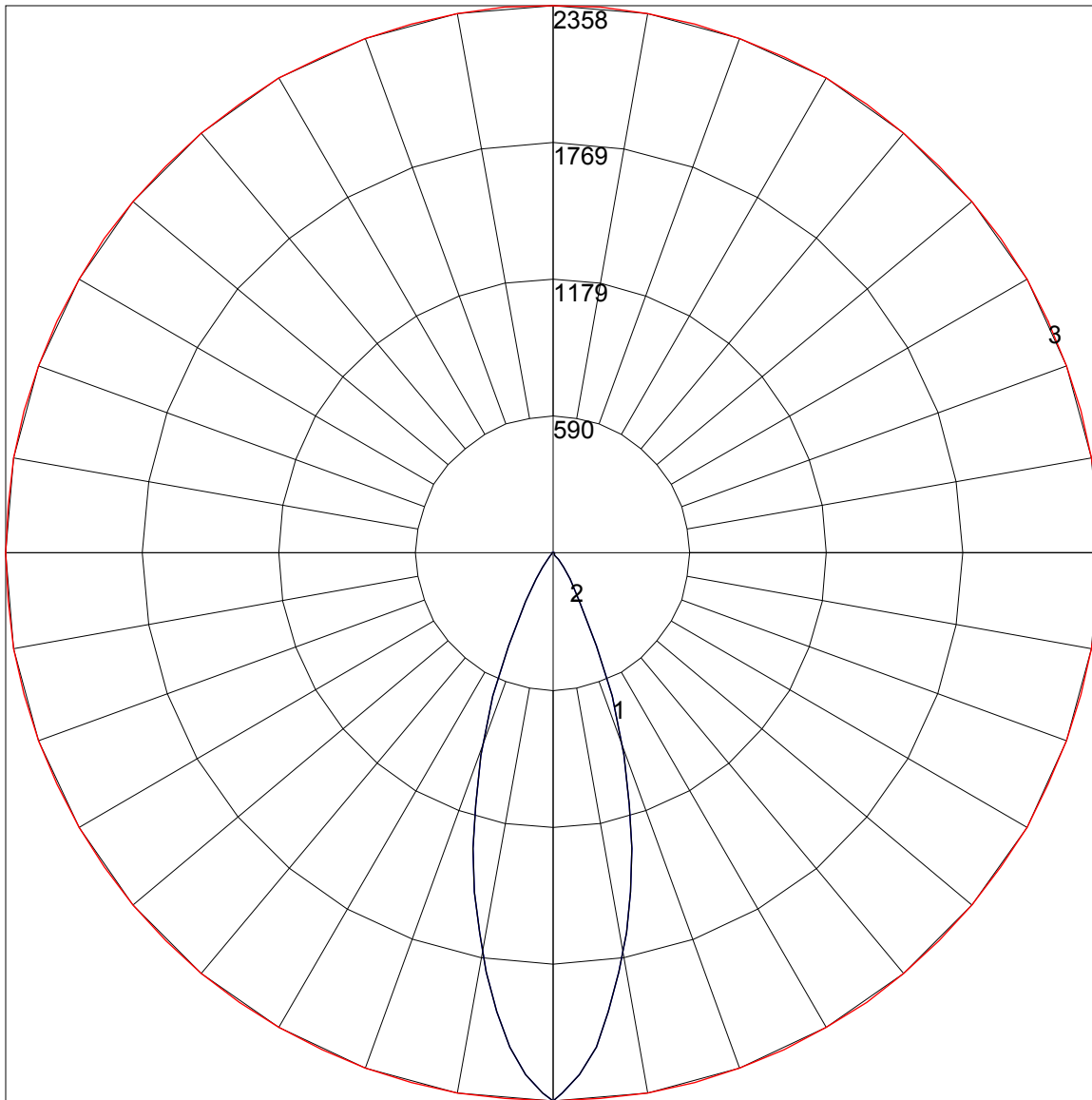
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	88	80	75	72	87	80	75	71	79	74	71	77	74	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	74	68	65	81	73	68	65	72	68	65	71	67	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

POLAR GRAPH



Maximum Candela = 2358 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.)