



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : FREESTYLE 41 60 DEGREE LOUVER.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L051807203
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 5/31/2018
 [MANUFAC] Kino Flo Lighting Systems
 [LUMCAT] CFX-F41 or CFX-F41T
 [LUMINAIRE] FreeStyle 41 w 60 degree louver
 [BALLASTCAT] Kino Flo LED-151X
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 119.50W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	803
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	119.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	0.54
Spacing Criteria (90-270)	0.54
Spacing Criteria (Diagonal)	0.56
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.58 ft
Luminous Width (90-270)	4.04 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	107	110	117
55	16	16	16
65	11	11	11
75	18	18	18
85	0	0	0

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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	2222	2222	2222	2222	2222	2222	2222	2222	2222	2222
1.0	2231	2232	2233	2234	2233	2231	2231	2234	2236	2238
3.0	2143	2144	2145	2147	2146	2144	2145	2148	2152	2153
5.0	2019	2019	2021	2022	2022	2021	2022	2025	2029	2031
7.0	1869	1870	1872	1873	1873	1873	1875	1878	1882	1885
9.0	1711	1667	1669	1673	1678	1686	1693	1700	1708	1718
11.0	1548	1549	1550	1552	1551	1551	1553	1556	1559	1561
13.0	1382	1383	1384	1386	1386	1387	1389	1391	1393	1395
15.0	1213	1215	1216	1218	1219	1220	1221	1223	1226	1227
17.0	1046	1047	1048	1050	1050	1051	1053	1055	1057	1059
19.5	839	841	842	843	843	844	845	847	849	851
22.5	604	605	605	606	606	606	608	609	611	613
25.5	395	395	395	395	395	395	395	397	399	401
29.0	211	211	211	211	211	211	212	214	216	218
33.0	123	123	123	123	123	123	123	123	124	124
37.5	65	65	65	65	65	65	66	66	66	66
42.5	26	26	26	27	27	27	27	27	27	27
47.5	7	7	7	7	7	7	7	7	7	7
55.0	2	2	2	2	2	2	2	2	2	2
65.0	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	0	1	1
85.0	0	0	0	0	0	0	0	0	0	0
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	2222	2222	2222	2222	2222	2222	2222	2222	2222
1.0	2236	2232	2228	2225	2225	2228	2230	2231	2231
3.0	2153	2149	2146	2143	2144	2147	2148	2149	2148
5.0	2031	2028	2026	2024	2025	2027	2029	2030	2030
7.0	1885	1883	1881	1879	1881	1884	1886	1887	1888
9.0	1726	1732	1737	1741	1746	1751	1756	1760	1731
11.0	1562	1562	1561	1560	1562	1565	1568	1569	1569
13.0	1396	1396	1396	1395	1397	1401	1403	1405	1406
15.0	1228	1228	1228	1228	1230	1233	1236	1238	1239
17.0	1059	1059	1060	1060	1062	1065	1068	1070	1071
19.5	851	852	852	853	855	858	861	863	863
22.5	614	615	616	616	618	620	622	624	624
25.5	403	404	405	405	407	408	409	409	410
29.0	219	221	222	223	224	224	224	224	224
33.0	125	125	125	125	125	124	124	124	124
37.5	66	66	66	66	66	66	66	66	66
42.5	27	27	27	27	27	27	27	28	28
47.5	7	7	7	7	7	7	8	8	8
55.0	2	2	2	2	2	2	2	2	2
65.0	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1
85.0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	708.73	N.A.	88.30
0-40	774.26	N.A.	96.40
0-60	800.12	N.A.	99.60
0-90	803.05	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	803.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.40
10-20	349.95
20-30	208.37
30-40	65.53
40-50	22.93
50-60	2.93
60-70	1.42
70-80	1.00
80-90	0.51
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

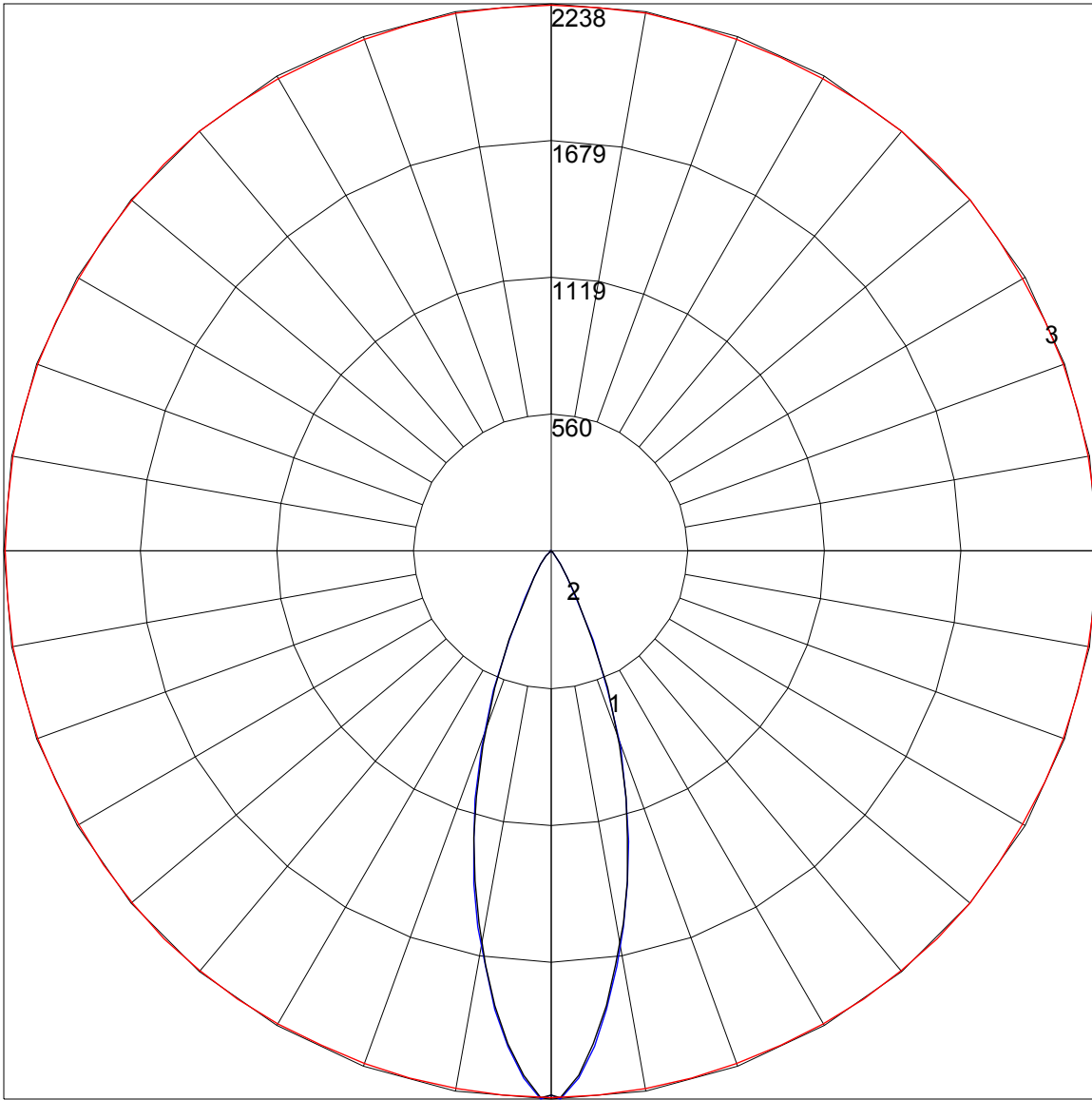
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	98	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78
6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	74
7	90	82	77	74	89	82	77	73	80	76	73	79	75	73	78	75	72	71
8	87	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	67	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

POLAR GRAPH



Maximum Candela = 2238 Located At Horizontal Angle = 45, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

ILLUMINATION AT A DISTANCE

Illuminance at a Distance							
Distance (Ft)	Center Beam Footcandle	Beam Width (Ft)		Distance (m)	Center Beam Lux	Beam Width (m)	
		Vertical	Horizontal			Vertical	Horizontal
2	555.5	1.16	1.18	0.5	8888.0	0.29	0.30
4	138.9	2.32	2.36	1.0	2222.0	0.58	0.59
6	61.7	3.47	3.54	1.5	987.6	0.87	0.89
8	34.7	4.63	4.72	2.0	555.5	1.16	1.18
10	22.2	5.79	5.91	2.5	355.5	1.45	1.48
12	15.4	6.95	7.09	3.0	246.9	1.74	1.77
14	11.3	8.11	8.27	3.5	181.4	2.03	2.07
16	8.7	9.27	9.45	4.0	138.9	2.32	2.36
18	6.9	10.42	10.63	4.5	109.7	2.61	2.66
20	5.6	11.58	11.81	5.0	88.9	2.90	2.95
22	4.6	12.74	12.99	5.5	73.5	3.19	3.25
24	3.9	13.90	14.17	6.0	61.7	3.47	3.54