



IES INDOOR REPORT
PHOTOMETRIC FILENAME : FREESTYLE 41 OPEN FACE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051807201R01
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 6/1/2018
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] CFX-F41 or CFX-F41T
[LUMINAIRE] FreeStyle 41 open face
[BALLASTCAT] Kino Flo LED-151X
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 118.08W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	118.08
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.24
Spacing Criteria (Diagonal)	1.36
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	11261	11417	11417
55	10514	10810	10938
65	9328	9730	10045
75	7004	7678	8458
85	1632	3001	5740

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	2702	2702	2702	2702	2702	2702	2702	2702	2702	2702
5	2691	2692	2694	2695	2692	2690	2690	2692	2694	2695
10	2649	2650	2651	2652	2650	2648	2648	2650	2652	2653
15	2581	2582	2584	2584	2583	2581	2582	2584	2585	2587
20	2490	2492	2493	2493	2492	2491	2492	2494	2496	2497
25	2377	2379	2380	2381	2380	2380	2381	2382	2384	2386
30	2245	2246	2247	2248	2247	2248	2249	2251	2253	2255
35	2093	2096	2097	2098	2097	2098	2099	2102	2104	2106
40	1926	1928	1930	1932	1932	1932	1934	1936	1938	1940
45	1735	1737	1739	1742	1744	1746	1750	1755	1757	1759
50	1530	1533	1535	1538	1541	1544	1548	1553	1559	1564
55	1314	1317	1319	1322	1326	1330	1334	1339	1345	1351
60	1091	1091	1093	1096	1100	1105	1110	1115	1121	1127
65	859	858	860	863	868	872	877	884	890	896
70	623	624	625	628	632	637	642	648	655	662
75	395	396	397	400	404	409	414	420	426	433
80	192	192	193	195	198	202	207	212	219	225
85	31	32	33	34	36	39	42	47	52	57
90	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	50	55	60	65	70	75	80	85	90
0	2702	2702	2702	2702	2702	2702	2702	2702	2702
5	2692	2686	2680	2675	2674	2676	2678	2678	2679
10	2651	2646	2640	2635	2634	2636	2637	2637	2637
15	2585	2581	2576	2571	2570	2571	2573	2573	2573
20	2496	2493	2489	2485	2484	2485	2486	2486	2486
25	2386	2383	2380	2377	2376	2377	2378	2378	2378
30	2255	2254	2251	2249	2248	2249	2250	2249	2248
35	2106	2105	2104	2103	2102	2103	2104	2103	2102
40	1941	1941	1940	1939	1938	1939	1939	1938	1938
45	1761	1762	1761	1760	1758	1759	1759	1759	1759
50	1568	1570	1570	1569	1568	1567	1568	1568	1569
55	1358	1365	1366	1366	1365	1365	1366	1367	1367
60	1135	1142	1150	1152	1152	1150	1150	1150	1151
65	903	910	918	925	928	927	926	925	925
70	669	676	685	692	699	700	699	697	697
75	441	449	457	464	472	477	479	478	477
80	233	241	248	256	263	270	275	276	275
85	63	70	77	85	92	99	105	109	109
90	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2079.72	N.A.	28.10
0-40	3394.07	N.A.	45.90
0-60	5948.51	N.A.	80.40
0-90	7397.06	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	7397.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	255.15
10-20	727.76
20-30	1096.81
30-40	1314.34
40-50	1351.76
50-60	1202.68
60-70	885.97
70-80	465.50
80-90	97.08
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

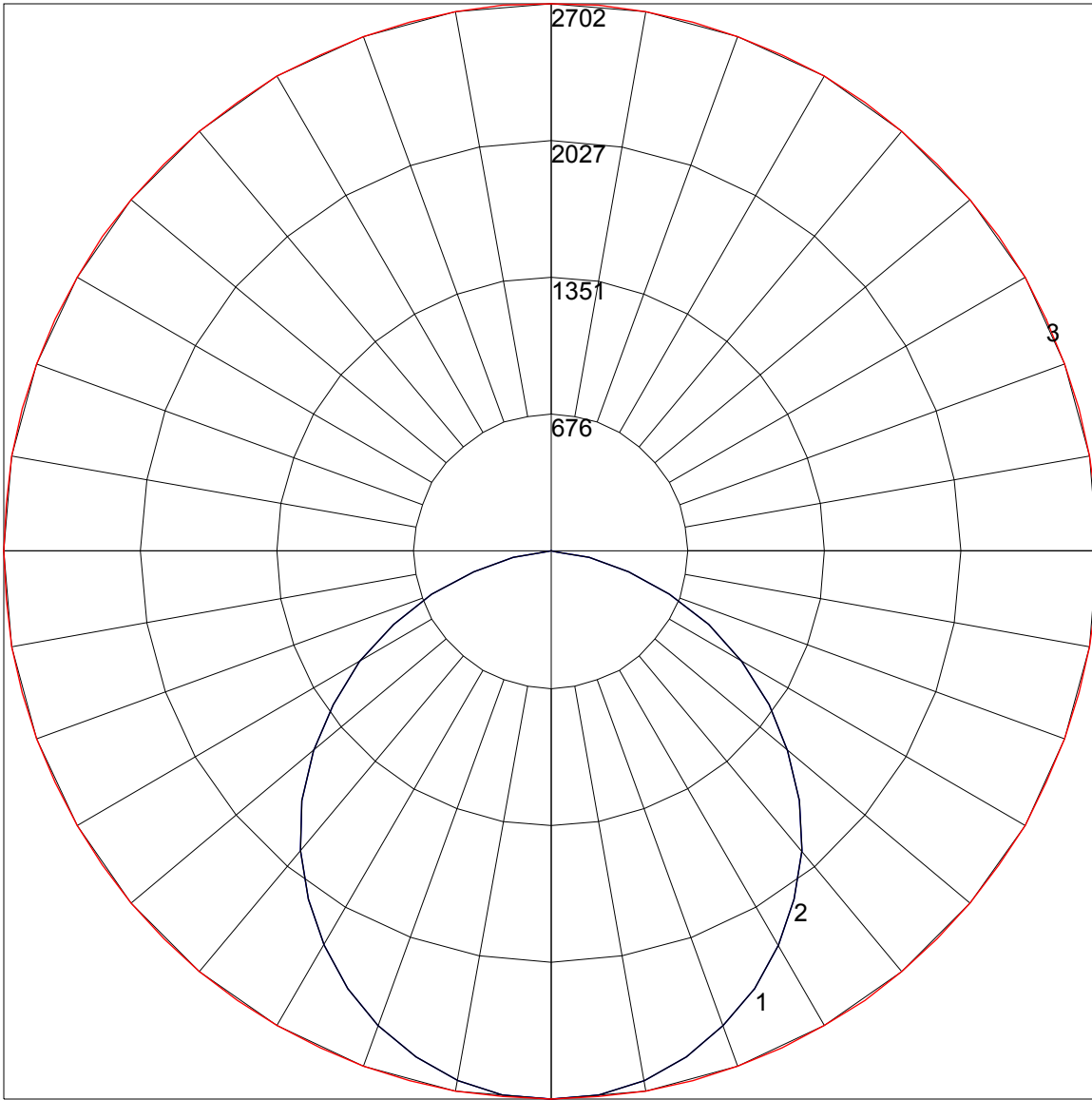
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2702 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.)

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	675.5	5.54	5.79	0.5	10808.0	1.38	1.45
4	168.9	11.07	11.58	1.0	2702.0	2.77	2.89
6	75.1	16.61	17.36	1.5	1200.9	4.15	4.34
8	42.2	22.14	23.15	2.0	675.5	5.54	5.79
10	27.0	27.68	28.94	2.5	432.3	6.92	7.23
12	18.8	33.22	34.73	3.0	300.2	8.30	8.68
14	13.8	38.75	40.51	3.5	220.6	9.69	10.13
16	10.6	44.29	46.30	4.0	168.9	11.07	11.58
18	8.3	49.82	52.09	4.5	133.4	12.46	13.02
20	6.8	55.36	57.88	5.0	108.1	13.84	14.47
22	5.6	60.90	63.66	5.5	89.3	15.22	15.92
24	4.7	66.43	69.45	6.0	75.1	16.61	17.36