



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051702606.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051702606
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 6/19/2017
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] CEL-450Q-120U
[LUMINAIRE] **Celeb 450Q, 60**
[BALLASTCAT] N/A
[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, 2.14A, 252.36W, 0.98PF, 16%ATHD
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	252.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	0.54
Spacing Criteria (90-270)	0.46
Spacing Criteria (Diagonal)	0.56
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.79 ft
Luminous Width (90-270)	2.04 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	144	204	202
55	133	139	133
65	202	153	118
75	341	250	148
85	980	845	845

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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	5265	5265	5265	5265	5265	5265	5265	5265	5265	5265
1.0	5213	5212	5212	5212	5211	5210	5209	5208	5208	5208
3.0	4997	4994	4993	4992	4988	4984	4981	4975	4968	4961
5.0	4681	4679	4678	4678	4675	4671	4666	4657	4646	4631
7.0	4328	4326	4327	4327	4327	4325	4321	4314	4302	4282
9.0	3963	3961	3962	3962	3963	3964	3962	3957	3946	3923
11.0	3587	3586	3587	3588	3591	3593	3594	3591	3579	3553
13.0	3211	3210	3213	3217	3222	3226	3228	3224	3210	3181
15.0	2833	2832	2838	2845	2851	2856	2858	2852	2835	2800
17.0	2464	2464	2471	2481	2490	2495	2494	2483	2462	2420
19.5	2021	2022	2029	2038	2047	2050	2044	2026	1992	1942
22.5	1526	1526	1528	1531	1534	1530	1514	1480	1428	1364
25.5	1091	1087	1081	1072	1060	1041	1008	956	889	824
29.0	669	661	641	610	570	523	468	410	361	330
33.0	306	294	258	195	150	132	118	114	115	116
37.5	87	78	70	67	69	71	74	76	79	81
42.5	40	41	43	45	47	49	51	54	55	57
47.5	29	30	31	32	34	36	37	39	40	41
55.0	26	26	26	26	26	26	26	27	27	27
65.0	29	29	29	28	28	28	27	26	24	22
75.0	30	30	30	29	28	28	27	25	24	22
85.0	29	29	28	27	26	25	25	24	25	25
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	5265	5265	5265	5265	5265	5265	5265	5265	5265
1.0	5207	5206	5206	5205	5205	5206	5207	5208	5207
3.0	4951	4941	4931	4921	4914	4908	4903	4901	4899
5.0	4613	4592	4569	4547	4527	4510	4498	4490	4486
7.0	4255	4223	4188	4153	4121	4095	4076	4064	4060
9.0	3890	3847	3800	3754	3714	3683	3660	3646	3641
11.0	3512	3460	3404	3351	3307	3272	3247	3232	3227
13.0	3133	3074	3013	2956	2910	2875	2850	2836	2831
15.0	2747	2684	2620	2565	2520	2487	2464	2450	2445
17.0	2362	2296	2235	2183	2141	2114	2095	2083	2079
19.5	1878	1815	1761	1721	1690	1670	1656	1649	1647
22.5	1300	1248	1211	1188	1173	1167	1164	1164	1164
25.5	774	741	722	715	715	721	728	734	737
29.0	315	310	310	314	317	322	326	331	333
33.0	118	119	120	122	122	122	120	120	119
37.5	82	83	83	83	82	82	82	82	81
42.5	58	58	58	58	58	57	57	57	57
47.5	42	42	42	42	41	41	41	40	40
55.0	28	28	28	27	27	27	27	26	26
65.0	20	18	18	18	18	17	17	17	17
75.0	20	18	17	15	13	13	13	13	13
85.0	25	25	25	25	25	25	24	24	25
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1572.37	N.A.	86.90
0-40	1669.15	N.A.	92.30
0-60	1730.63	N.A.	95.70
0-90	1809.03	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	1809.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.81
10-20	776.24
20-30	454.32
30-40	96.78
40-50	40.72
50-60	20.77
60-70	23.40
70-80	22.68
80-90	32.31
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

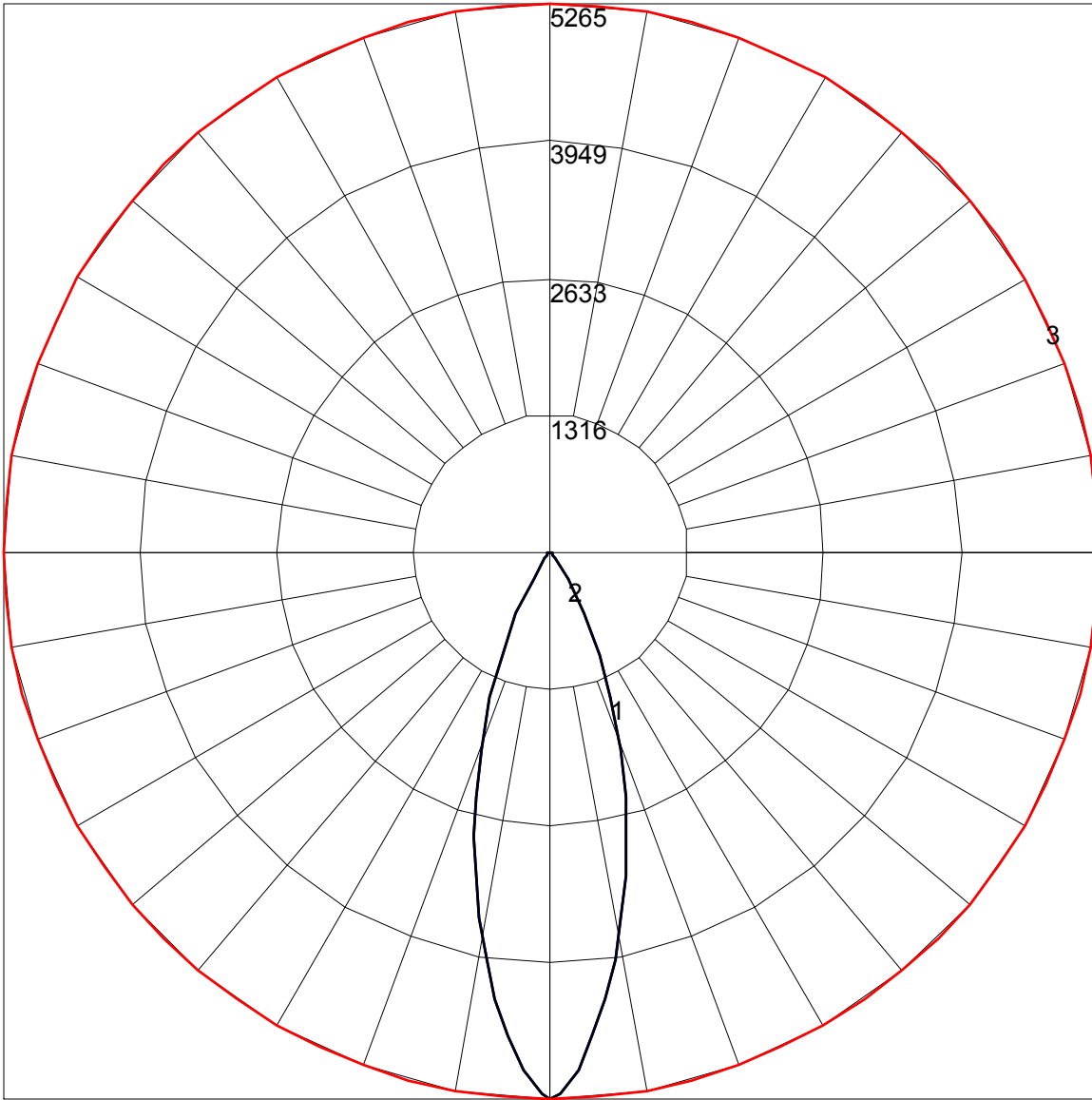
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	104	98	93	90	102	96	92	89	94	90	87	92	89	86	89	87	85	83
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	78	83	79	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	74	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	69	65	62	61

POLAR GRAPH



Maximum Candela = 5265 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.)