



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051702603.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051702603
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 6/19/2017
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] CEL-450C-120U
[LUMINAIRE] **Celeb450C, 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, 2.12A, 249.68W, 0.98PF, 15%ATHD
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	249.68
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	0.46
Spacing Criteria (90-270)	0.54
Spacing Criteria (Diagonal)	0.54
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.96 ft
Luminous Width (90-270)	3.71 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	154	154	135
55	179	116	100
65	314	186	100
75	642	397	128
85	1836	1316	658

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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	4948	4948	4948	4948	4948	4948	4948	4948	4948	4948
1.0	4865	4866	4867	4871	4875	4880	4885	4890	4896	4902
3.0	4589	4591	4593	4600	4607	4616	4626	4638	4651	4665
5.0	4215	4216	4222	4232	4246	4262	4279	4298	4318	4338
7.0	3799	3803	3814	3833	3855	3882	3909	3937	3964	3990
9.0	3383	3387	3401	3426	3456	3493	3531	3567	3602	3634
11.0	2970	2975	2990	3015	3050	3093	3138	3184	3227	3265
13.0	2577	2578	2593	2618	2652	2697	2748	2801	2851	2895
15.0	2191	2194	2206	2229	2259	2302	2354	2411	2467	2519
17.0	1825	1828	1838	1855	1881	1916	1964	2022	2083	2143
19.5	1395	1395	1400	1410	1425	1451	1487	1537	1601	1672
22.5	915	913	912	912	918	931	955	990	1040	1109
25.5	495	493	492	493	498	508	524	546	577	621
29.0	140	143	148	159	174	188	197	209	218	231
33.0	78	78	78	78	79	80	81	81	82	82
37.5	56	56	56	56	57	57	57	58	58	57
42.5	40	40	40	41	41	41	41	41	41	41
47.5	32	32	32	31	31	31	31	31	31	31
55.0	34	34	33	32	31	29	28	25	23	22
65.0	44	44	43	42	40	38	35	32	29	26
75.0	55	54	53	52	50	48	45	41	38	34
85.0	53	52	52	50	48	46	44	42	40	38
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	4948	4948	4948	4948	4948	4948	4948	4948	4948
1.0	4907	4912	4915	4920	4922	4923	4924	4924	4925
3.0	4679	4694	4707	4720	4731	4739	4745	4748	4750
5.0	4358	4378	4398	4417	4434	4449	4460	4467	4469
7.0	4015	4038	4058	4078	4094	4110	4124	4134	4137
9.0	3662	3687	3709	3726	3741	3757	3772	3783	3787
11.0	3299	3327	3348	3365	3380	3393	3408	3421	3425
13.0	2934	2966	2989	3007	3021	3034	3047	3058	3063
15.0	2565	2602	2631	2649	2663	2673	2682	2689	2693
17.0	2198	2242	2275	2298	2312	2320	2324	2327	2328
19.5	1741	1799	1841	1869	1885	1890	1889	1887	1886
22.5	1193	1273	1331	1369	1387	1393	1392	1390	1389
25.5	685	769	848	898	926	942	951	956	958
29.0	250	289	349	409	455	495	526	546	553
33.0	82	84	89	103	127	148	188	220	235
37.5	57	56	55	54	54	54	58	68	75
42.5	41	40	40	39	38	37	37	36	36
47.5	30	30	30	29	29	28	27	27	27
55.0	21	21	21	21	20	20	20	19	19
65.0	21	17	16	15	15	15	14	14	14
75.0	29	25	21	16	13	12	11	11	11
85.0	35	33	31	28	25	22	20	19	19
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1405.64	N.A.	86.50
0-40	1474.45	N.A.	90.70
0-60	1522.62	N.A.	93.70
0-90	1625.19	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	1625.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	321.31
10-20	709.85
20-30	374.48
30-40	68.82
40-50	30.59
50-60	17.57
60-70	24.54
70-80	30.62
80-90	47.42
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

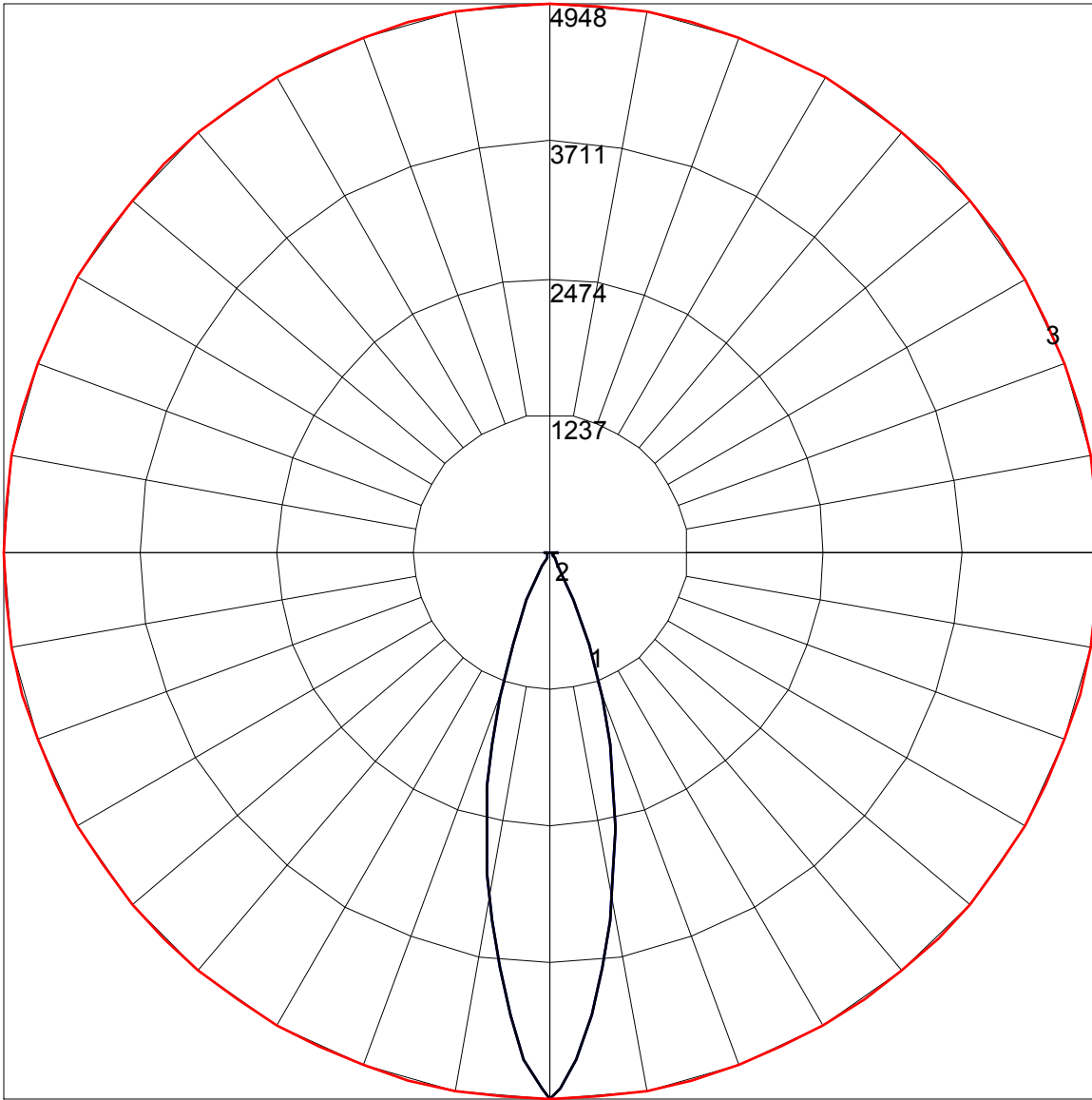
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	88	82	79	94	87	82	78	85	81	78	83	80	77	82	79	76	75
6	92	84	79	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	72	68	84	76	72	68	75	71	68	74	70	68	74	70	67	66
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	61

POLAR GRAPH



Maximum Candela = 4948 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.)