



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051702605.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051702605
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 6/19/2017
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] CEL-450Q-120U
[LUMINAIRE] Celeb 450Q, 90
[BALLASTCAT] NAV
[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 90 DEGREE LOUVER.
[INPUT] 120VAC, 2.15A, 252.65W, 0.98PF, 16%ATHD
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Table with 2 columns: Characteristic Name and Value. Includes Lumens Per Lamp, Total Lamp Lumens, Luminaire Lumens, Total Luminaire Efficiency, Luminaire Efficacy Rating (LER), Total Luminaire Watts, Ballast Factor, CIE Type, Spacing Criteria (0-180), Spacing Criteria (90-270), Spacing Criteria (Diagonal), Basic Luminous Shape, Luminous Length (0-180), Luminous Width (90-270), Luminous Height.



LUMINANCE DATA (cd/sq.m)

Table with 4 columns: Angle In Degrees, Average 0-Deg, Average 45-Deg, Average 90-Deg. Shows luminance values for angles 45, 55, 65, 75, and 85 degrees.

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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	5125	5125	5125	5125	5125	5125	5125	5125	5125	5125
1.0	5106	5106	5106	5106	5105	5104	5104	5104	5104	5104
3.0	5020	5021	5021	5020	5019	5019	5019	5020	5020	5021
5.0	4867	4867	4867	4867	4866	4866	4867	4868	4869	4870
7.0	4651	4651	4651	4652	4652	4652	4654	4655	4657	4659
9.0	4399	4398	4399	4400	4401	4402	4404	4407	4410	4413
11.0	4121	4121	4122	4123	4125	4127	4130	4134	4138	4142
13.0	3834	3834	3835	3836	3839	3842	3845	3850	3855	3859
15.0	3537	3536	3538	3540	3543	3546	3551	3555	3561	3566
17.0	3237	3237	3238	3241	3245	3248	3253	3258	3264	3271
19.5	2862	2862	2864	2867	2871	2875	2881	2887	2894	2900
22.5	2410	2409	2413	2416	2421	2427	2433	2440	2448	2454
25.5	1967	1967	1970	1975	1981	1987	1994	2002	2009	2016
29.0	1476	1476	1479	1484	1490	1497	1504	1512	1519	1526
33.0	965	965	967	971	976	982	989	996	1002	1009
37.5	517	517	519	521	524	527	531	535	539	543
42.5	246	245	245	245	244	244	244	245	246	247
47.5	133	133	133	132	132	132	131	131	131	131
55.0	58	58	57	57	56	55	54	53	53	53
65.0	35	35	35	34	33	33	31	30	28	26
75.0	35	35	34	34	33	32	31	30	29	28
85.0	34	34	33	32	31	30	30	30	30	30
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	5125	5125	5125	5125	5125	5125	5125	5125	5125
1.0	5104	5104	5103	5104	5104	5106	5107	5109	5108
3.0	5021	5022	5022	5022	5023	5024	5025	5026	5026
5.0	4871	4872	4873	4874	4875	4877	4878	4879	4879
7.0	4661	4662	4663	4665	4667	4670	4672	4672	4673
9.0	4416	4418	4420	4422	4425	4427	4429	4430	4430
11.0	4146	4150	4152	4155	4158	4160	4162	4163	4163
13.0	3864	3868	3872	3875	3879	3881	3883	3884	3885
15.0	3571	3576	3580	3585	3589	3592	3595	3596	3596
17.0	3277	3282	3288	3293	3298	3302	3304	3306	3306
19.5	2906	2912	2919	2925	2931	2936	2939	2940	2941
22.5	2461	2467	2474	2481	2489	2494	2497	2499	2500
25.5	2023	2030	2037	2044	2051	2057	2061	2064	2064
29.0	1533	1539	1546	1553	1559	1566	1570	1572	1573
33.0	1014	1020	1026	1032	1037	1043	1046	1048	1049
37.5	547	550	553	556	559	561	562	563	563
42.5	249	250	251	251	252	252	252	252	252
47.5	131	131	131	131	131	131	130	130	130
55.0	53	53	53	53	53	53	53	53	53
65.0	24	22	22	22	22	22	22	22	22
75.0	26	24	22	20	18	18	18	18	18
85.0	30	31	31	31	31	31	30	30	30
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2306.6	N.A.	72.30
0-40	2813.07	N.A.	88.20
0-60	3085.09	N.A.	96.70
0-90	3190.85	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	3190.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	367.03
10-20	1013.82
20-30	925.75
30-40	506.47
40-50	212.57
50-60	59.45
60-70	38.65
70-80	27.67
80-90	39.44
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

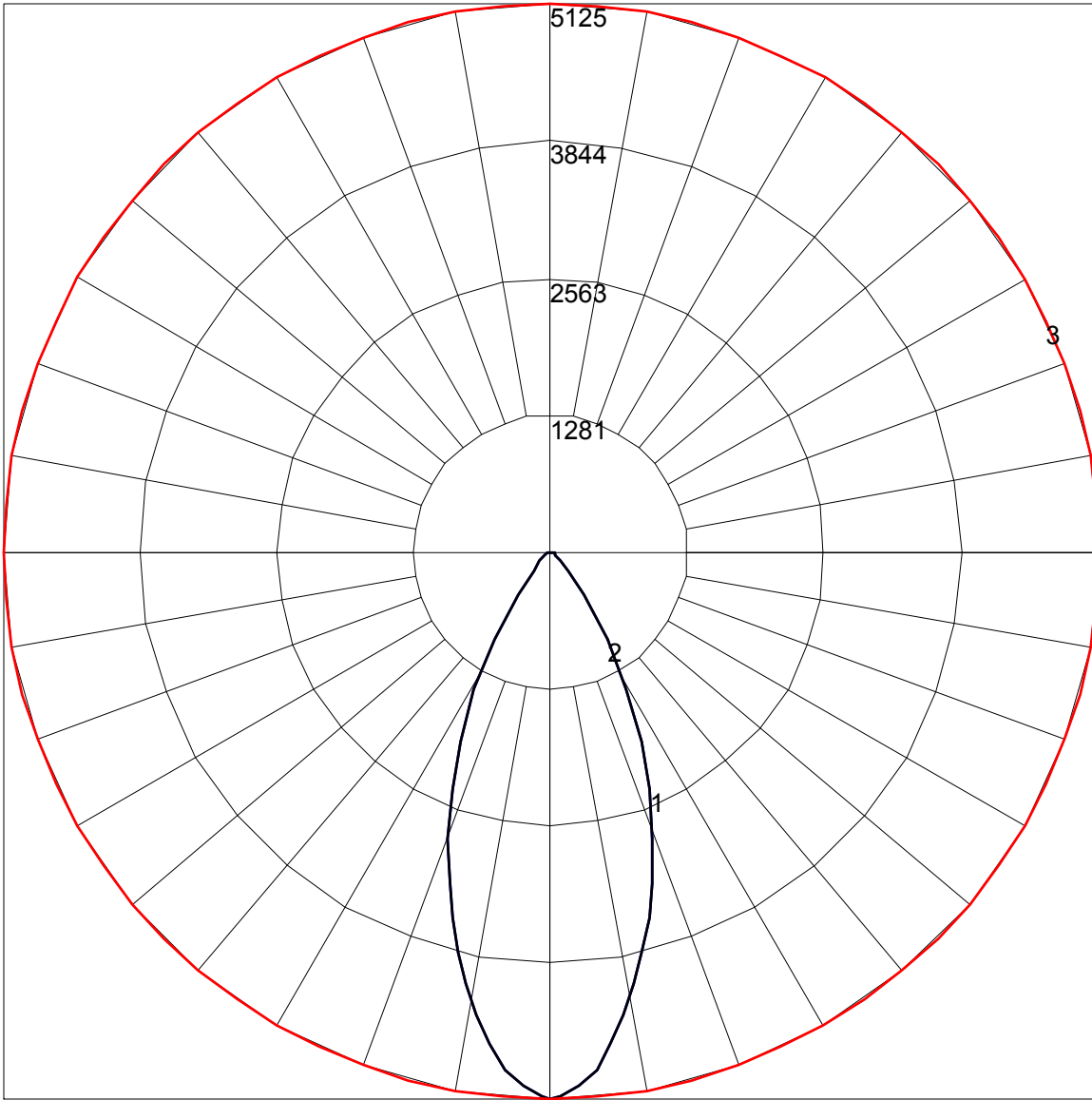
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	97	89	83	79	95	88	83	78	86	81	78	84	80	77	82	78	76	74
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

POLAR GRAPH



Maximum Candela = 5125 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.)