



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CELEB_250_60.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L061702309
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 6/13/2017
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] CEL-250C-120U
[LUMINAIRE] **Celeb 250, 60**
[BALLASTCAT] KINO FLO CEL-250-120U C/Y/P
[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, 1.36A, 162.13W, 0.99PF, 6%ATHD
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	162.13
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)	0.92 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	246	224	229
55	260	119	98
65	441	265	103
75	793	504	168
85	2140	1783	1355

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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	2859	2859	2859	2859	2859	2859	2859	2859	2859	2859
1.0	2834	2834	2834	2835	2837	2838	2840	2841	2841	2842
3.0	2738	2738	2738	2739	2740	2741	2742	2743	2745	2747
5.0	2586	2587	2587	2588	2588	2589	2591	2592	2596	2598
7.0	2403	2403	2403	2405	2406	2407	2407	2410	2409	2411
9.0	2204	2205	2205	2205	2205	2206	2207	2208	2210	2213
11.0	1997	1997	1997	1997	1998	1998	1999	2001	2002	2004
13.0	1787	1787	1788	1788	1789	1790	1791	1792	1793	1794
15.0	1571	1571	1572	1573	1575	1576	1577	1579	1579	1580
17.0	1355	1356	1357	1358	1360	1362	1363	1364	1365	1365
19.5	1089	1089	1090	1092	1094	1096	1097	1098	1099	1099
22.5	782	782	783	784	786	787	788	789	790	791
25.5	510	510	510	510	511	511	512	513	514	516
29.0	277	277	277	276	276	276	276	277	278	279
33.0	157	157	156	156	156	155	155	155	156	156
37.5	84	84	84	84	84	84	84	84	84	84
42.5	37	37	37	37	37	37	37	37	37	37
47.5	19	19	19	18	18	17	16	15	15	14
55.0	24	24	23	22	21	19	17	14	13	11
65.0	30	30	30	29	28	26	25	23	21	18
75.0	33	33	32	32	31	30	28	26	24	21
85.0	30	29	29	28	27	26	26	25	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	2859	2859	2859	2859	2859	2859	2859	2859	2859
1.0	2844	2847	2848	2848	2847	2847	2846	2847	2847
3.0	2746	2746	2750	2752	2752	2752	2752	2753	2754
5.0	2598	2599	2602	2602	2601	2602	2602	2604	2606
7.0	2414	2414	2416	2419	2421	2421	2420	2419	2418
9.0	2213	2217	2219	2219	2220	2221	2221	2221	2222
11.0	2006	2008	2010	2011	2012	2013	2013	2014	2015
13.0	1795	1797	1799	1800	1802	1803	1804	1805	1806
15.0	1580	1581	1583	1584	1586	1588	1589	1591	1592
17.0	1365	1366	1367	1369	1371	1372	1374	1375	1377
19.5	1099	1100	1101	1102	1104	1105	1107	1108	1109
22.5	791	792	792	793	794	795	795	796	797
25.5	517	517	518	518	517	517	517	516	517
29.0	281	281	282	282	281	281	280	279	279
33.0	157	157	157	157	157	156	156	156	156
37.5	84	84	84	84	84	84	84	84	84
42.5	36	36	36	36	37	37	37	37	37
47.5	14	14	14	14	14	14	14	14	15
55.0	10	9	9	9	9	9	9	9	9
65.0	14	12	9	8	7	7	7	7	7
75.0	19	16	15	12	9	7	7	7	7
85.0	24	23	23	22	21	21	19	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	912.48	N.A.	82.80
0-40	995.79	N.A.	90.30
0-60	1036.71	N.A.	94.10
0-90	1102.27	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	1102.27	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	192.95
10-20	451.29
20-30	268.24
30-40	83.31
40-50	31.42
50-60	9.50
60-70	15.10
70-80	19.68
80-90	30.77
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

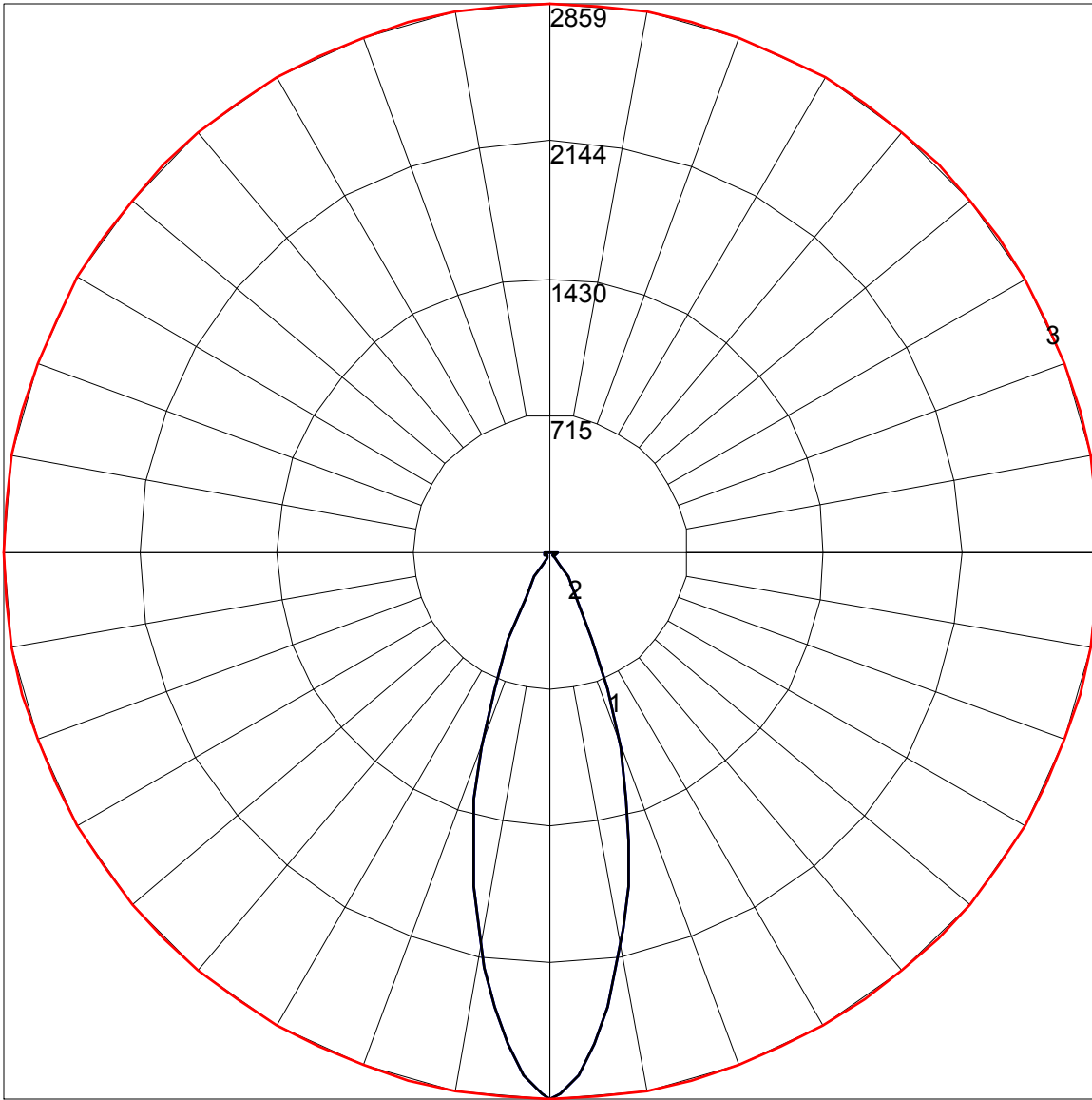
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	75	71	68	67
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64
9	81	72	67	63	80	72	66	63	71	66	63	70	66	63	69	65	62	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

POLAR GRAPH



Maximum Candela = 2859 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.)