



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L051702608.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L051702608  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 6/19/2017  
[MANUFAC] Kino Flo Lighting Systems  
[LUMCAT] CEL-850-120U  
[LUMINAIRE] **Celeb 850, 90**  
[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 90 DEGREE LOUVER.  
[INPUT] 120VAC, 3.95A, 465.0W, 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	6559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	14
Total Luminaire Watts	465
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	0.64
Spacing Criteria (90-270)	0.74
Spacing Criteria (Diagonal)	0.76
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.85 ft
Luminous Width (90-270)	3.52 ft
Luminous Height	0.00 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	592	666	1416
55	665	466	253
65	922	625	231
75	1480	1002	274
85	3771	2558	815

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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>
<b>0.0</b>	9779	9779	9779	9779	9779	9779	9779	9779	9779	9779
<b>1.0</b>	9696	9697	9697	9699	9703	9707	9712	9717	9722	9726
<b>3.0</b>	9408	9409	9411	9417	9424	9434	9445	9460	9475	9491
<b>5.0</b>	8998	9000	9004	9011	9021	9034	9050	9070	9093	9118
<b>7.0</b>	8507	8509	8516	8528	8546	8568	8594	8626	8658	8692
<b>9.0</b>	7966	7970	7986	8010	8039	8074	8112	8155	8199	8244
<b>11.0</b>	7404	7409	7431	7465	7508	7556	7607	7663	7718	7773
<b>13.0</b>	6845	6851	6876	6917	6970	7030	7095	7163	7228	7292
<b>15.0</b>	6281	6287	6314	6359	6419	6491	6567	6648	6724	6798
<b>17.0</b>	5724	5731	5759	5805	5869	5948	6034	6125	6211	6294
<b>19.5</b>	5040	5048	5076	5122	5187	5269	5366	5466	5563	5656
<b>22.5</b>	4234	4240	4266	4309	4370	4448	4548	4655	4764	4869
<b>25.5</b>	3461	3467	3487	3523	3574	3643	3734	3841	3958	4076
<b>29.0</b>	2616	2619	2631	2653	2687	2737	2808	2902	3019	3151
<b>33.0</b>	1723	1721	1722	1727	1741	1769	1818	1885	1962	2104
<b>37.5</b>	847	846	848	854	866	886	917	956	1010	1088
<b>42.5</b>	271	272	278	289	307	327	343	357	370	389
<b>47.5</b>	236	235	233	230	224	218	211	200	192	181
<b>55.0</b>	231	230	227	223	217	209	199	188	176	162
<b>65.0</b>	236	235	231	227	220	211	201	188	175	160
<b>75.0</b>	232	231	228	223	216	207	197	185	172	157
<b>85.0</b>	199	198	195	190	184	176	167	157	146	135
<b>90.0</b>	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>
<b>0.0</b>	9779	9779	9779	9779	9779	9779	9779	9779	9779
<b>1.0</b>	9731	9736	9740	9745	9749	9754	9757	9759	9761
<b>3.0</b>	9509	9528	9549	9570	9589	9604	9612	9617	9619
<b>5.0</b>	9147	9179	9214	9251	9286	9312	9328	9338	9341
<b>7.0</b>	8731	8772	8815	8858	8899	8927	8945	8955	8957
<b>9.0</b>	8292	8341	8387	8430	8469	8496	8514	8525	8529
<b>11.0</b>	7829	7883	7930	7971	8006	8034	8056	8071	8075
<b>13.0</b>	7355	7412	7457	7496	7531	7560	7586	7604	7610
<b>15.0</b>	6867	6924	6968	7008	7044	7076	7103	7123	7130
<b>17.0</b>	6369	6428	6473	6515	6553	6588	6616	6636	6643
<b>19.5</b>	5737	5798	5843	5886	5924	5962	6001	6030	6041
<b>22.5</b>	4961	5029	5084	5134	5175	5210	5243	5267	5276
<b>25.5</b>	4181	4262	4329	4386	4430	4463	4489	4502	4507
<b>29.0</b>	3276	3380	3466	3533	3577	3605	3621	3624	3626
<b>33.0</b>	2251	2388	2500	2578	2643	2653	2663	2664	2665
<b>37.5</b>	1197	1336	1472	1573	1635	1670	1691	1701	1703
<b>42.5</b>	421	475	558	652	728	785	832	864	874
<b>47.5</b>	170	160	157	157	200	244	293	325	339
<b>55.0</b>	147	132	118	105	95	91	89	89	88
<b>65.0</b>	143	127	110	92	77	65	60	59	59
<b>75.0</b>	141	125	109	92	75	60	48	44	43
<b>85.0</b>	123	111	100	88	75	64	52	45	43
<b>90.0</b>	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	4436.82	N.A.	67.60
0-40	5516.26	N.A.	84.10
0-60	6073.88	N.A.	92.60
0-90	6559.16	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	6559.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	689.20
10-20	1917.9
20-30	1829.71
30-40	1079.45
40-50	437.01
50-60	120.61
60-70	147.15
70-80	153.69
80-90	184.44
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

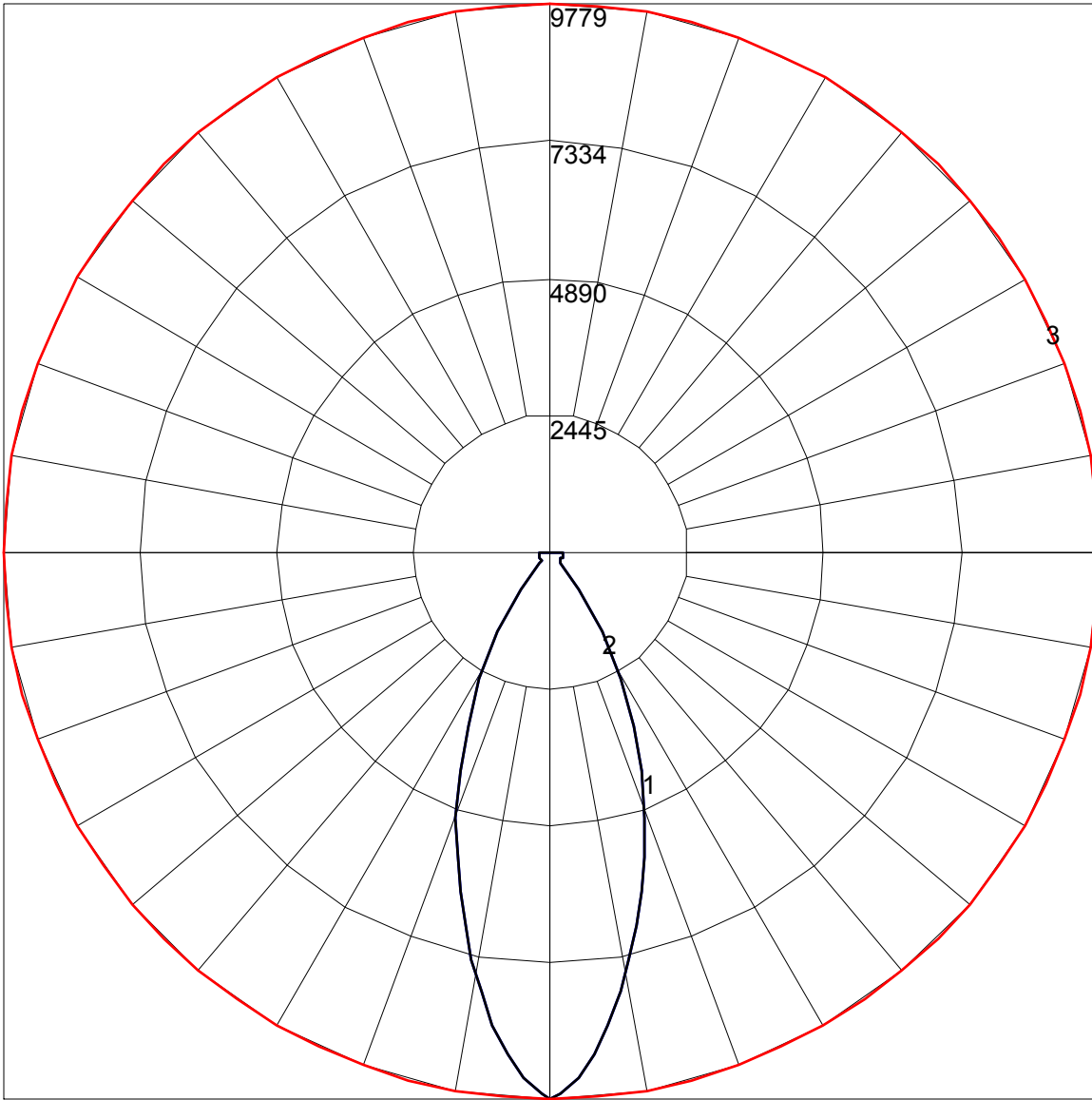
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
9	74	64	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

POLAR GRAPH



Maximum Candela = 9779 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.)