



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051702609.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051702609
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 6/19/2017
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] CEL-850-120U
[LUMINAIRE] **Celeb 850, 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, 3.98A, 467.7W, 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	3217
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	467.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	0.48
Spacing Criteria (90-270)	0.54
Spacing Criteria (Diagonal)	0.54
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	322	201	126
55	469	274	98
65	742	449	102
75	1276	810	134
85	3373	2274	720

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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	8916	8916	8916	8916	8916	8916	8916	8916	8916	8916
1.0	8778	8778	8780	8784	8791	8798	8806	8815	8824	8833
3.0	8353	8352	8357	8364	8375	8389	8405	8427	8449	8472
5.0	7776	7776	7781	7789	7801	7816	7838	7864	7894	7925
7.0	7106	7107	7114	7125	7143	7164	7193	7229	7266	7305
9.0	6387	6389	6403	6425	6452	6486	6525	6573	6620	6665
11.0	5649	5654	5673	5704	5740	5785	5834	5893	5948	6004
13.0	4933	4939	4959	4993	5034	5085	5141	5209	5272	5335
15.0	4232	4236	4253	4284	4323	4376	4435	4511	4581	4654
17.0	3561	3562	3575	3596	3626	3673	3729	3810	3888	3971
19.5	2763	2760	2762	2769	2784	2814	2864	2933	3019	3112
22.5	1860	1856	1850	1846	1847	1858	1886	1929	1996	2089
25.5	1064	1061	1059	1055	1053	1055	1067	1086	1120	1178
29.0	341	347	365	385	404	418	428	438	452	474
33.0	153	153	153	152	151	154	158	160	158	155
37.5	135	135	133	131	128	124	119	114	108	101
42.5	134	133	131	128	123	118	111	104	95	87
47.5	142	141	139	135	130	123	115	106	96	85
55.0	163	162	159	155	148	141	131	120	108	95
65.0	190	188	185	180	174	165	155	143	130	115
75.0	200	199	196	191	184	176	166	154	141	127
85.0	178	177	174	169	163	155	147	139	130	120
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	8916	8916	8916	8916	8916	8916	8916	8916	8916
1.0	8843	8851	8858	8865	8871	8877	8882	8885	8887
3.0	8498	8522	8547	8572	8595	8611	8623	8633	8634
5.0	7963	8000	8041	8079	8112	8136	8151	8160	8159
7.0	7348	7389	7431	7469	7498	7523	7536	7545	7548
9.0	6712	6754	6788	6819	6839	6857	6867	6872	6878
11.0	6053	6092	6119	6143	6152	6163	6169	6173	6180
13.0	5386	5426	5448	5464	5469	5473	5474	5475	5480
15.0	4710	4751	4773	4785	4788	4784	4779	4779	4776
17.0	4034	4081	4107	4121	4123	4111	4100	4093	4088
19.5	3190	3244	3277	3293	3292	3285	3273	3263	3260
22.5	2191	2276	2333	2366	2374	2372	2364	2355	2352
25.5	1264	1365	1451	1508	1537	1553	1562	1567	1569
29.0	511	569	644	710	754	791	826	853	865
33.0	155	160	167	191	227	268	309	341	355
37.5	95	91	90	89	89	90	94	102	108
42.5	78	71	66	64	64	63	63	62	62
47.5	74	64	55	50	48	48	47	46	46
55.0	82	68	55	44	37	35	34	34	34
65.0	100	84	68	52	38	29	26	26	26
75.0	112	97	81	65	49	40	24	21	21
85.0	110	100	89	78	68	57	47	40	38
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2589.3	N.A.	80.50
0-40	2716.49	N.A.	84.40
0-60	2845.7	N.A.	88.50
0-90	3217.13	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	3217.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	588.58
10-20	1310.69
20-30	690.03
30-40	127.19
40-50	70.41
50-60	58.80
60-70	96.76
70-80	117.20
80-90	157.47
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

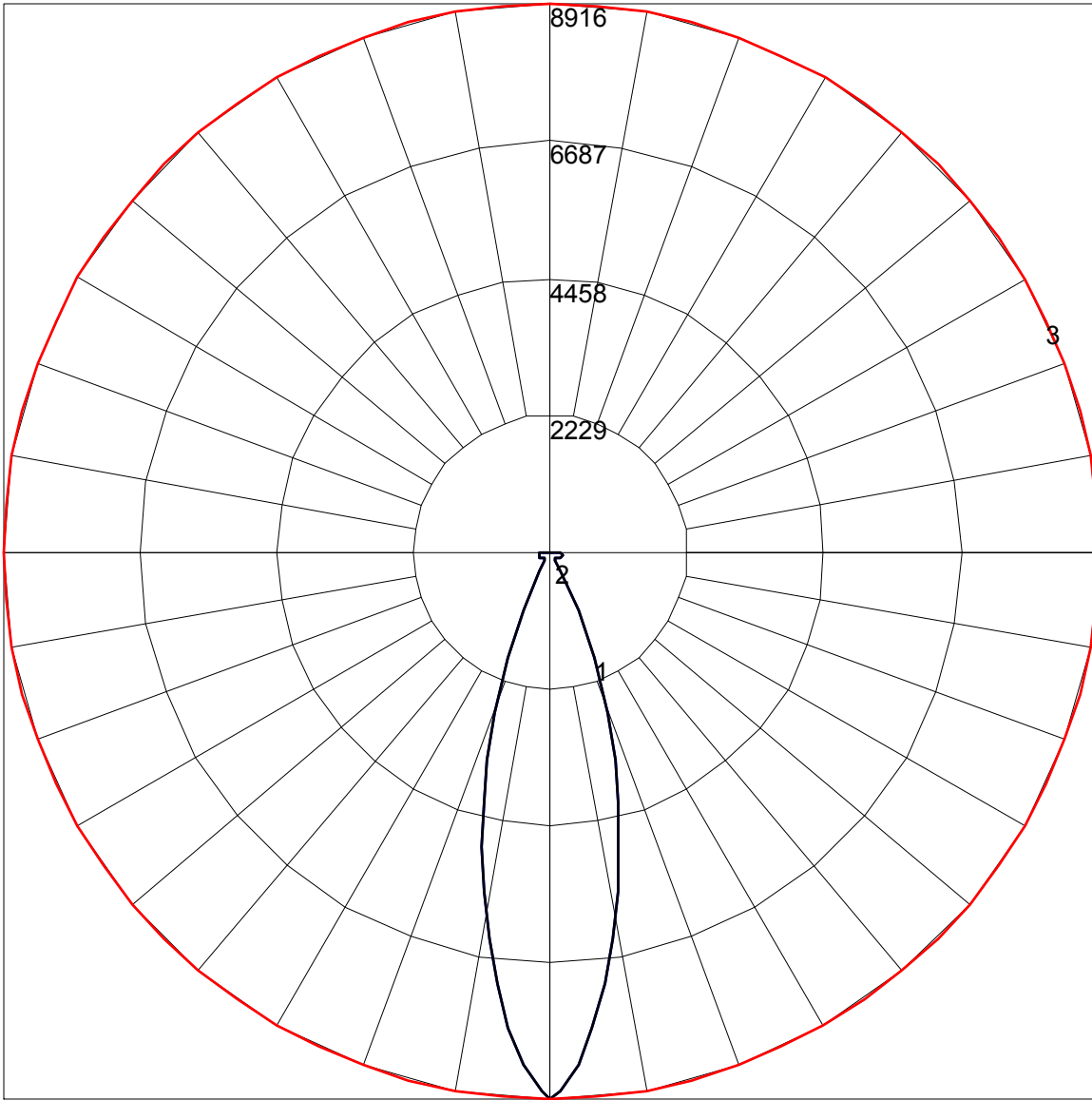
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59
10	76	68	62	59	76	67	62	59	66	62	59	66	61	58	65	61	58	57

POLAR GRAPH



Maximum Candela = 8916 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.)