



KINO FLO® LIGHTING SYSTEMS

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L80U-OPEN L071802901.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L071802901

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 8/1/2018

[MANUFAC] Kino Flo Lighting Systems

[LUMCAT] IMG-L80U

[LUMINAIRE] Image L80 open face test

[BALLASTCAT] Kino Flo Custom Driver

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

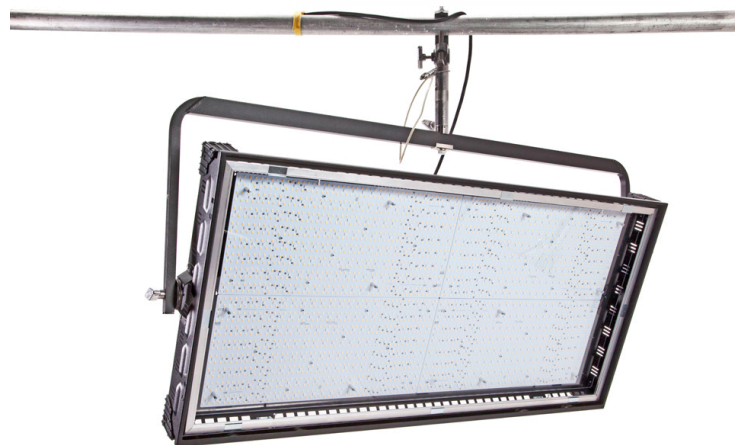
[TEST CONDITION] Fixture is tested at 6500K, 100% dimming, and 0 G/M conditions.

[INPUT] 120VAC, 354.07W

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29692
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	354.07
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.30
Spacing Criteria (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14741	15055	15523
55	13315	13554	14536
65	10715	10702	12250
75	5670	5765	7629
85	1856	1409	1906

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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	11154	11154	11154	11154	11154	11154	11154	11154	11154	11154
5	11130	11146	11153	11153	11153	11148	11144	11136	11124	11114
10	11000	11013	11014	11013	11012	11012	11009	10998	10987	10979
15	10810	10809	10804	10801	10790	10785	10774	10767	10758	10754
20	10502	10496	10494	10483	10478	10475	10472	10468	10461	10451
25	9844	9848	9845	9838	9852	9911	9993	10055	10073	10081
30	9389	9384	9376	9367	9360	9360	9357	9354	9385	9518
35	8771	8767	8777	8789	8806	8811	8812	8807	8803	8806
40	7971	7976	7971	7959	7957	7989	8067	8129	8158	8165
45	7216	7206	7191	7181	7190	7230	7248	7234	7269	7370
50	6269	6256	6236	6226	6249	6308	6376	6374	6367	6355
55	5287	5275	5262	5284	5343	5364	5358	5302	5343	5382
60	4250	4236	4234	4231	4254	4290	4269	4250	4292	4273
65	3135	3127	3126	3127	3134	3122	3127	3131	3133	3131
70	1998	1993	1997	2017	2003	1996	1999	2002	2010	1996
75	1016	1013	1018	1021	1007	1015	1020	1015	1023	1033
80	332	332	331	332	331	332	339	342	348	355
85	112	112	110	106	101	96	92	89	87	85
90	53	53	52	52	50	49	48	48	48	47
95	41	42	42	43	43	44	45	46	47	48
100	46	46	46	46	47	48	48	49	51	52
105	50	50	50	50	50	51	52	54	54	53
110	50	51	51	51	51	51	51	51	52	54
115	52	52	52	51	51	51	51	50	50	50
120	54	54	54	54	53	53	52	51	52	49
125	57	57	57	57	56	56	55	53	52	52
130	63	63	62	61	60	60	60	61	57	51
135	71	72	73	73	70	65	62	60	59	57
140	71	71	70	69	69	67	66	65	64	58
145	74	73	73	72	72	71	69	63	58	55
150	69	69	67	66	64	62	60	59	57	55
155	56	55	55	54	54	53	52	50	49	48
160	45	45	44	44	44	45	44	44	44	43
165	44	44	44	44	43	44	43	43	43	42
170	45	45	45	44	44	44	43	43	43	42
175	50	50	49	49	49	48	48	48	48	48
180	51	51	51	51	51	51	51	51	51	51

Vert. 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	11154	11154	11154	11154	11154	11154	11154	11154	11154
5	11101	11104	11094	11090	11083	11076	11068	11063	11057
10	10973	10974	10969	10964	10963	10955	10949	10947	10931
15	10752	10749	10754	10759	10766	10760	10753	10748	10754
20	10448	10448	10449	10464	10470	10472	10464	10462	10458
25	10075	10077	10080	10083	10089	10089	10087	10092	10091
30	9602	9621	9632	9628	9636	9642	9638	9647	9649
35	8834	8991	9056	9065	9064	9071	9083	9086	9095
40	8164	8159	8259	8335	8326	8334	8357	8372	8378
45	7374	7339	7346	7466	7585	7588	7583	7589	7599
50	6386	6466	6457	6488	6627	6713	6733	6755	6765
55	5380	5374	5468	5514	5563	5722	5738	5756	5772
60	4262	4303	4326	4419	4486	4589	4686	4707	4722

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CANDELA TABULATION - (Cont.)

65	3136	3138	3181	3253	3357	3430	3537	3562	3584
70	2013	2025	2064	2128	2218	2301	2370	2424	2441
75	1033	1044	1081	1138	1199	1259	1307	1351	1367
80	356	362	380	412	445	475	498	520	536
85	84	86	88	92	95	100	105	110	115
90	47	47	47	48	48	47	47	47	47
95	49	50	50	51	52	52	53	54	54
100	52	53	53	54	53	52	53	53	52
105	53	53	52	50	52	48	46	44	45
110	53	53	51	50	47	43	41	38	39
115	51	51	52	49	45	39	39	38	39
120	48	46	45	44	37	35	35	33	34
125	48	43	41	36	31	28	27	28	27
130	49	48	41	35	32	29	28	28	28
135	56	48	43	40	37	34	32	32	32
140	51	48	45	43	41	38	37	38	39
145	53	51	49	47	45	43	43	44	45
150	54	52	50	49	47	46	47	47	48
155	47	45	44	42	41	41	42	42	42
160	43	42	41	41	41	42	42	43	43
165	42	41	41	41	42	42	43	43	43
170	42	42	42	43	43	43	44	44	44
175	47	48	48	48	48	48	48	47	47
180	51	51	51	51	51	51	51	51	51

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	8713.9	N.A.	29.30
0-40	14272.51	N.A.	48.10
0-60	24782.58	N.A.	83.50
0-90	29381.03	N.A.	99.00
90-120	153.68	N.A.	0.50
90-130	195.38	N.A.	0.70
90-150	271.77	N.A.	0.90
90-180	311.12	N.A.	1.00
0-180	29692.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1056.67
10-20	3040.78
20-30	4616.45
30-40	5558.62
40-50	5659.71
50-60	4850.36
60-70	3195.13
70-80	1232.4
80-90	170.92
90-100	52.99
100-110	53.01
110-120	47.68
120-130	41.70
130-140	40.76
140-150	35.64
150-160	22.71
160-170	12.18
170-180	4.46

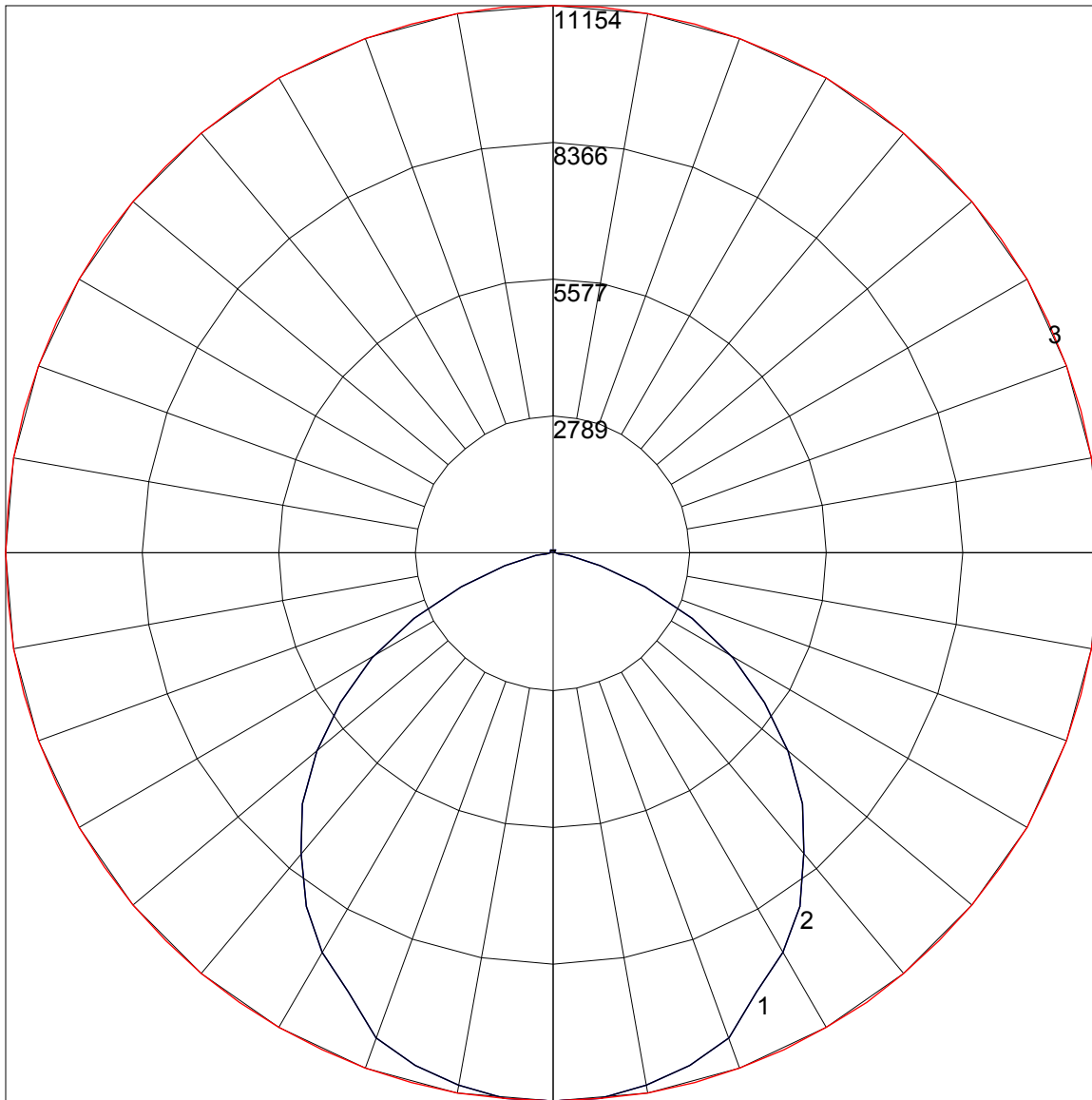
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	105	101	98	107	103	99	96	99	96	93	94	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	52	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	49	40	35	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	40	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 11154 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.)