



IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-3L-LED-23L-45-IC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] EVERFINE
[TESTDATE] 2016-09-06
[ISSUEDATE] 11/15/2019
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] TEL22-3L-LED-23L-45-IC
[_SEARCH_ SOURCETYPE] LED
[_SEARCH_ APPLICATION] Outdoor
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25501
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	288
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27128
Maximum Candela Angle	50H 70V
Maximum Candela (<90 Degrees Vertical)	27128
Maximum Candela Angle (<90 Degrees Vertical)	50H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	509 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2123.1	N.A.	8.3
FM - Front-Medium (30-60)	6828.0	N.A.	26.8
FH - Front-High (60-80)	4397.0	N.A.	17.2
FVH - Front-Very High (80-90)	59.2	N.A.	0.2
BL - Back-Low (0-30)	2121.3	N.A.	8.3
BM - Back-Medium (30-60)	6328.6	N.A.	24.8
BH - Back-High (60-80)	3609.9	N.A.	14.2
BVH - Back-Very High (80-90)	33.9	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25501.0	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
5	4635	5055	5436	5757	6008	6198	6330	6422	6463	6444
10	4607	5432	6116	6600	6931	7174	7349	7473	7553	7567
15	4581	5812	6700	7263	7659	7892	7990	8045	8094	8127
20	4518	6125	7169	7839	8202	8376	8471	8518	8553	8576
25	4444	6444	7610	8290	8590	8837	9017	9119	9182	9205
30	4394	6807	8078	8671	8939	9290	9664	9882	9980	9985
35	4337	7245	8618	9041	9321	9782	10161	10325	10458	10479
40	4201	7624	9163	9437	9624	9910	10368	10822	11069	11092
45	3903	7812	9628	9719	9669	9900	10634	11342	11589	11581
50	3469	7670	9924	9937	9630	10081	10644	11539	12209	12281
55	2898	7159	10254	10378	10059	10132	10704	12268	13702	13978
60	2254	5815	9590	11715	11384	10650	12036	14824	17110	17482
65	1480	3391	5816	11807	16834	14748	17492	22443	22562	20396
70	871	1212	1485	2168	18505	27128	22107	7720	2707	2311
75	502	626	789	919	1446	5895	2606	1337	1216	1208
80	159	278	361	368	412	477	509	461	426	486
85	38	59	62	64	51	38	30	23	21	20
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
5	6456	6425	6340	6205	6015	5768	5456	5088	4674	4239
10	7566	7516	7406	7233	6981	6637	6160	5504	4683	3814
15	8124	8101	8060	7980	7755	7353	6775	5907	4681	3402
20	8581	8570	8547	8468	8323	7990	7303	6271	4652	3024
25	9207	9174	9066	8899	8714	8479	7860	6604	4533	2649
30	9983	9911	9672	9339	9072	8349	7828	6499	4186	2224
35	10410	10277	10108	9745	8797	8636	8358	6888	4104	1959
40	10951	10680	10246	9176	9019	8934	8801	7149	3919	1732
45	11411	11071	9913	9178	9015	9117	9103	7110	3476	1527
50	11986	11315	9705	9277	9013	9219	8417	6307	2847	1319
55	13561	11708	9726	9477	9200	8882	8198	5545	2283	1124

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CANDELA TABULATION - (Cont.)

60	17172	13594	11175	9929	10611	9333	6897	4017	1607	918
65	22831	20578	16231	14818	14854	6473	3570	2237	971	696
70	2492	8126	18384	21791	7238	1234	861	711	469	469
75	1104	1025	1899	3600	879	539	461	336	246	265
80	392	349	362	267	238	183	148	86	58	59
85	18	18	17	17	16	16	15	13	10	7
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
5	3828	3471	3159	2911	2699	2549	2447	2396	2441	2530
10	3106	2602	2244	2068	2010	1993	1990	2013	2016	2023
15	2544	2081	1993	1977	1977	1996	2042	2116	2106	2059
20	2117	1951	1956	1962	1960	1968	1991	2043	2046	2033
25	1906	1897	1895	1897	1917	1936	1958	2009	2008	2008
30	1802	1810	1821	1858	1901	1931	1957	2014	2010	2010
35	1696	1707	1754	1833	1893	1922	1950	1983	1996	2015
40	1592	1606	1685	1767	1825	1893	1922	1956	1980	2001
45	1487	1527	1657	1707	1815	1840	1873	1900	1924	2005
50	1366	1435	1663	1681	1726	1765	1771	1805	1830	1895
55	1176	1241	1519	1641	1803	1668	1601	1649	1675	1817
60	1006	1144	1304	1707	1666	1404	1445	1786	1513	1588
65	784	900	1078	1254	1241	1148	1166	1234	1244	1315
70	607	751	798	810	831	868	842	850	910	1029
75	317	443	456	486	510	589	541	536	605	734
80	103	157	180	199	207	241	234	232	274	339
85	9	13	19	25	28	31	35	38	42	47
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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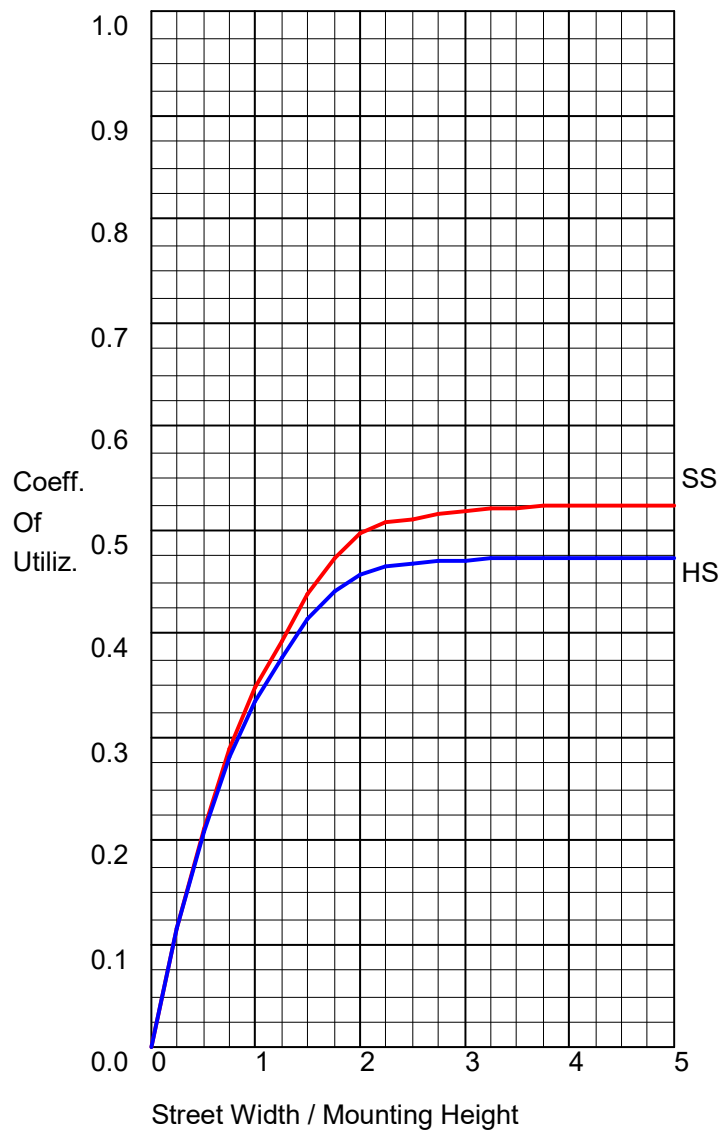
CANDELA TABULATION - (Cont.)

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0	4536	4536	4536	4536	4536	4536	4536
5	2672	2869	3113	3405	3767	4192	4635
10	2042	2088	2228	2572	3089	3766	4607
15	2030	2040	2064	2134	2539	3388	4581
20	2041	2059	2064	2071	2188	3036	4518
25	2016	2023	2049	2058	2078	2705	4444
30	2018	2013	2005	2030	2039	2409	4394
35	2035	2019	1981	1969	1979	2159	4337
40	1988	1984	1954	1905	1915	2001	4201
45	2010	1956	1923	1843	1834	1878	3903
50	1987	1986	2096	1807	1758	1720	3469
55	2036	1943	1960	1718	1621	1540	2898
60	1991	2137	1650	1471	1390	1303	2254
65	1646	1610	1454	1265	1196	1043	1480
70	1070	1079	1102	1059	894	799	871
75	708	675	697	702	546	499	502
80	316	320	311	312	268	178	159
85	52	57	61	65	67	46	38
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

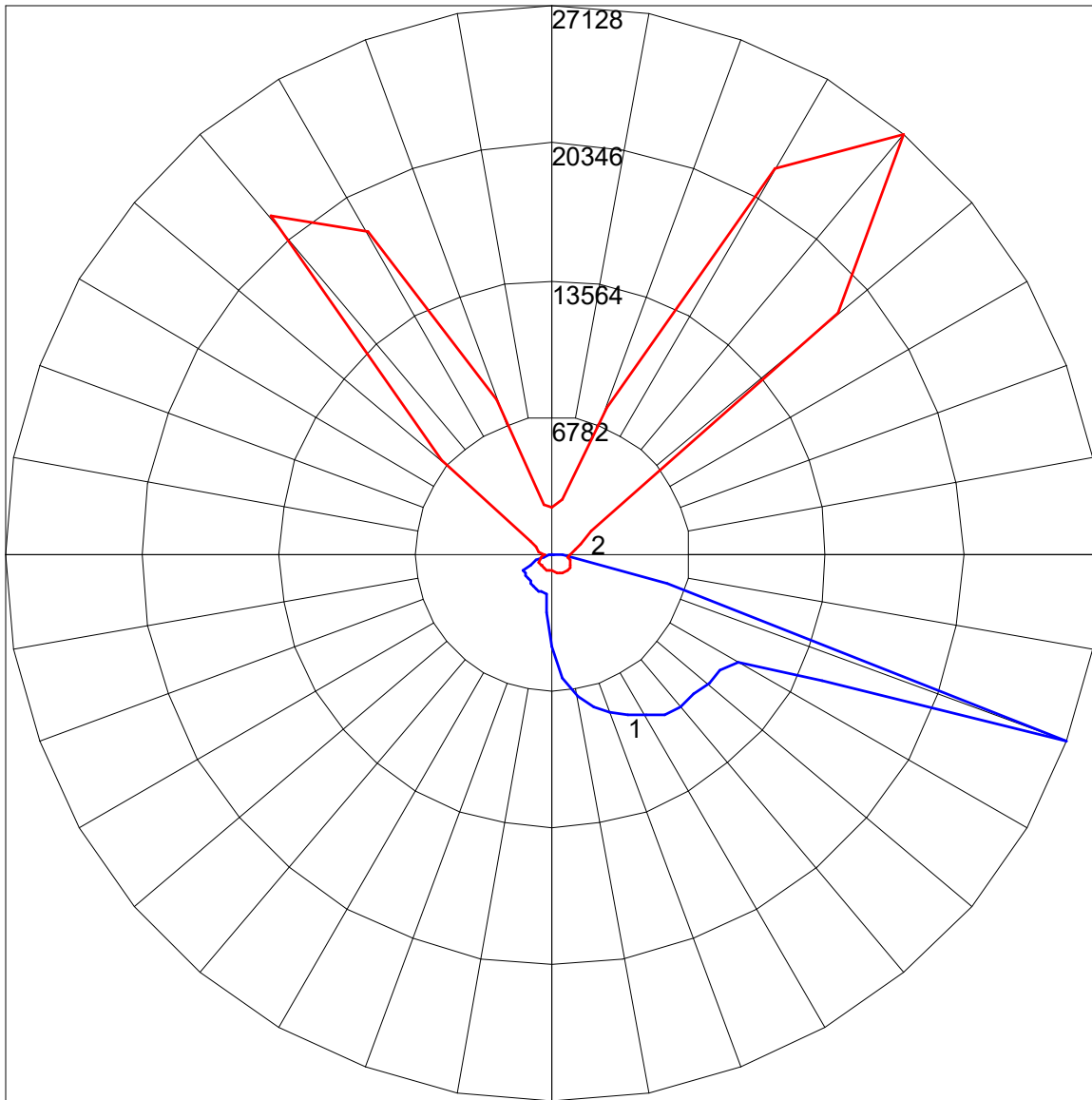
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

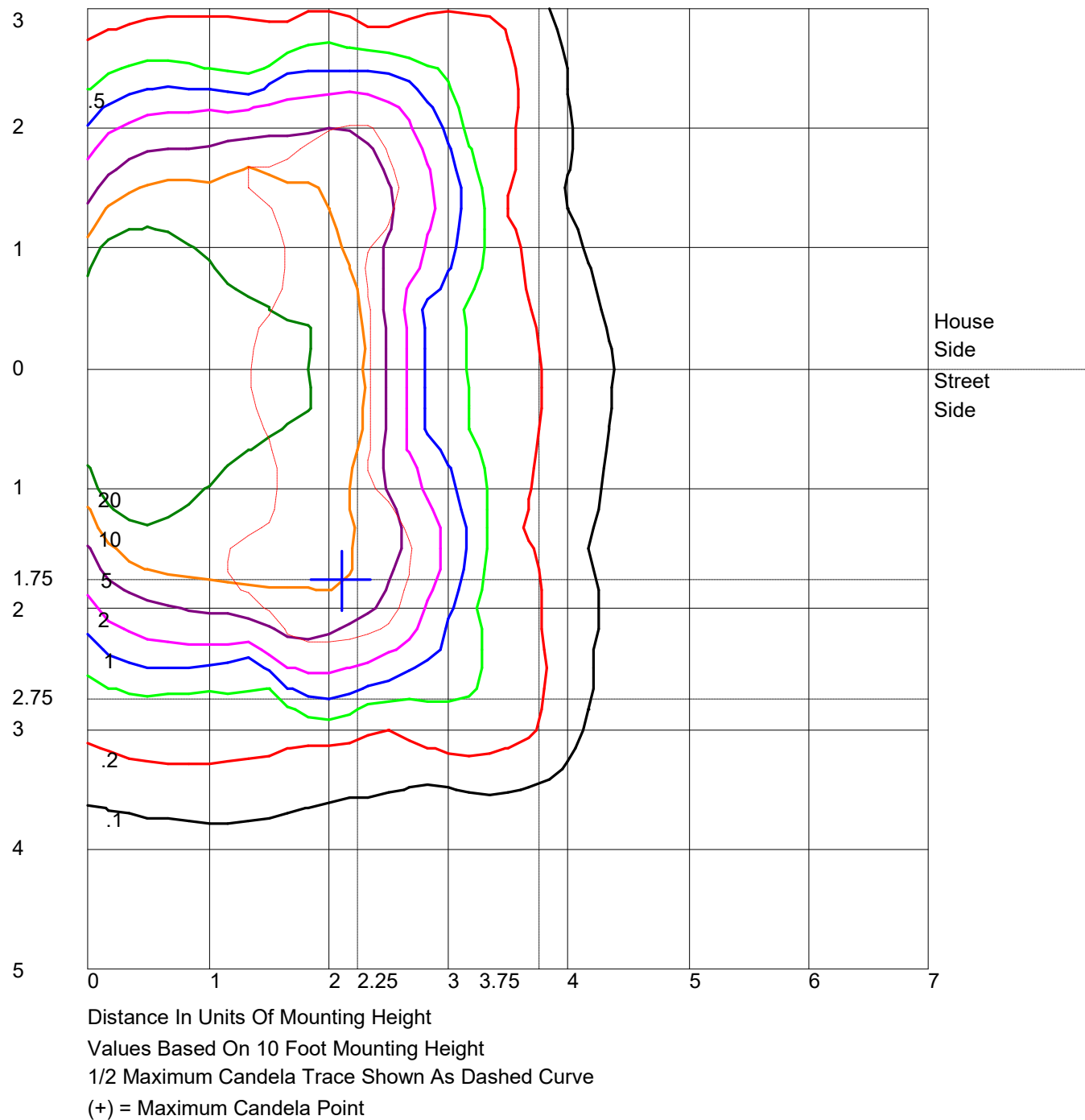
	Lumens	Percent Of Luminaire
Downward Street Side	13407.3	52.6
Downward House Side	12093.8	47.4
Downward Total	25501.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25501.1	100.0

POLAR GRAPH

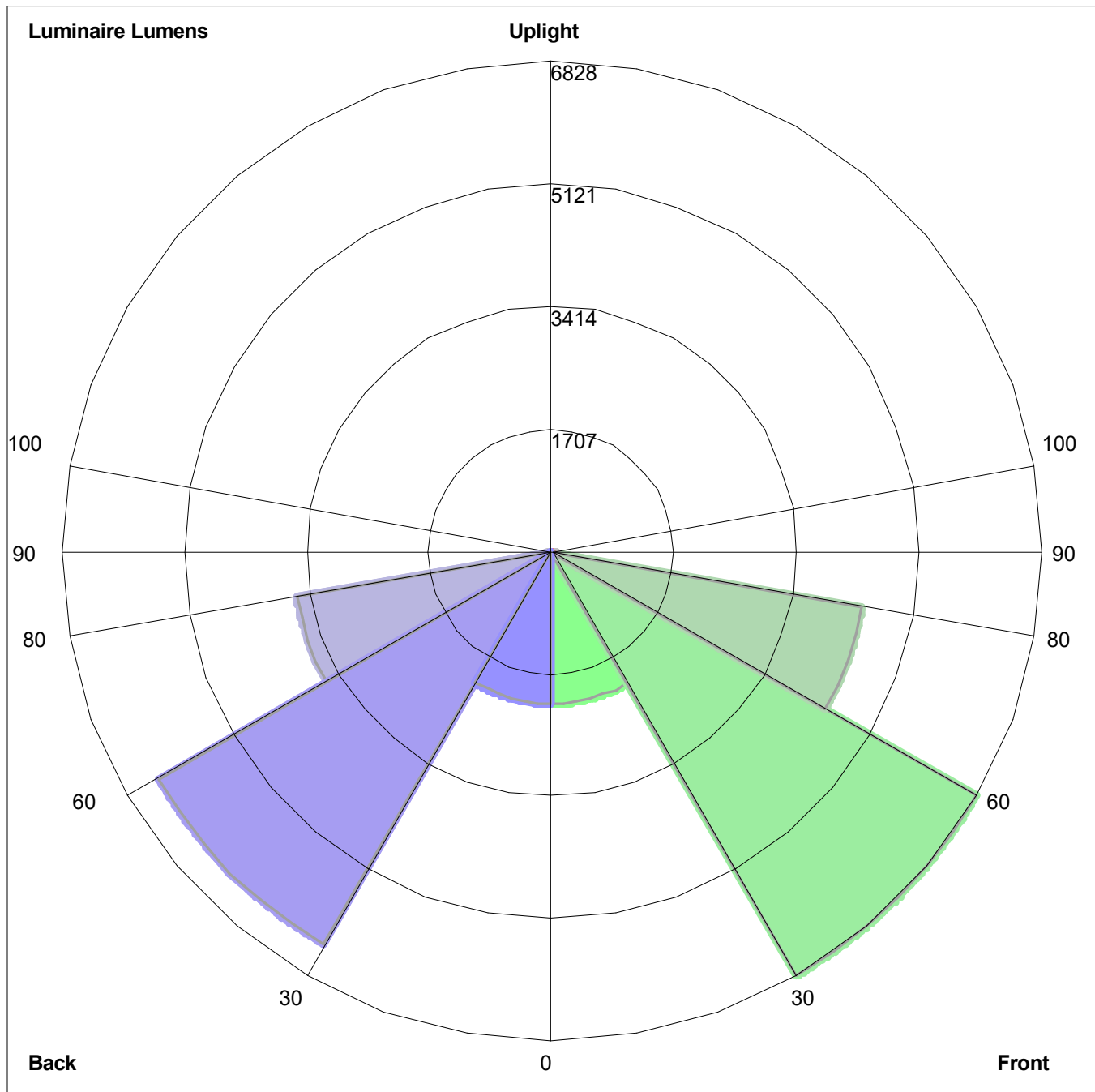


Maximum Candela = 27128 Located At Horizontal Angle = 50, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2123.1, Medium= 6828.0, High= 4397.0, Very High=59.2
Back: Low=2121.3, Medium=6328.6, High=3609.9, Very High=33.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4