



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11746
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/23/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-25L-40-IL
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18866
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19289
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	19289
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	21 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	762 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1456.3	N.A.	7.7
FM - Front-Medium (30-60)	10627.6	N.A.	56.3
FH - Front-High (60-80)	3489.6	N.A.	18.5
FVH - Front-Very High (80-90)	73.9	N.A.	0.4
BL - Back-Low (0-30)	789.8	N.A.	4.2
BM - Back-Medium (30-60)	1979.7	N.A.	10.5
BH - Back-High (60-80)	410.3	N.A.	2.2
BVH - Back-Very High (80-90)	13.5	N.A.	0.1
UL - Uplight-Low (90-100)	5.8	N.A.	0.0
UH - Uplight-High (100-180)	19.3	N.A.	0.1
Total	18865.8	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	1939	1939	1939	1939	1939	1939	1939	1939	1939	1939
2.5	1974	1983	1978	1997	1995	1995	2004	1987	1959	1926
5.0	1975	2003	2047	2027	2088	1946	1956	1897	1848	1835
7.5	2014	2072	2102	1993	2040	1956	1984	2052	2004	1947
10.0	2141	2131	2220	2056	2113	2148	2170	2141	2084	2021
12.5	2316	2424	2340	2278	2332	2297	2327	2292	2278	2282
15.0	2495	2599	2555	2618	2676	2550	2584	2543	2582	2491
17.5	2667	2743	2717	2776	2850	2965	2834	2897	2948	2808
20.0	3028	3088	3073	3042	3131	3185	3266	3241	3301	3277
22.5	3264	3288	3362	3448	3492	3512	3787	3770	3888	3872
25.0	3729	3624	3727	3815	3917	3905	4283	4531	4558	4575
27.5	4260	4374	4419	4300	4337	4467	4835	5464	5689	5574
30.0	4964	4846	4815	4843	4907	5148	5555	6559	6798	6730
32.5	5862	5938	5566	5359	5563	5777	6502	7962	8333	8259
35.0	6789	6705	6398	6245	6179	6679	7462	9129	9920	9758
37.5	7758	7747	7314	7010	7167	7364	8377	10014	10647	10830
40.0	8194	8213	8076	7938	7977	8236	9102	10371	11165	11198
42.5	8368	8335	8283	8332	8716	8981	9959	10619	11340	11557
45.0	8169	8179	8181	8441	9051	9805	10899	11320	11921	12298
47.5	7564	7546	7700	8118	8916	10134	11850	12492	12808	13366
50.0	6691	6654	6849	7307	8312	9965	12821	13806	13851	14498
52.5	5567	5567	5781	6253	7343	9270	13373	15258	15167	16335
55.0	4328	4313	4535	5107	6141	8153	13429	16467	16753	18024
57.5	3096	3034	3290	3816	4774	6735	12725	16808	18009	19289
60.0	2111	2094	2299	2675	3422	5075	11183	16236	18408	19266
62.5	1484	1495	1613	1860	2314	3443	9154	14237	17430	17894
65.0	1036	1034	1133	1367	1665	2195	6928	11979	15063	14879
67.5	674	705	768	967	1248	1484	4704	8973	11939	11413
70.0	426	439	461	641	906	1070	2858	6128	8363	7363
72.5	315	327	327	405	629	770	1481	3830	4850	3688
75.0	218	227	225	263	423	557	825	2327	2375	1472
77.5	144	145	151	162	260	393	497	1325	1241	792
80.0	96	101	105	102	143	255	312	709	762	537
82.5	92	91	87	82	89	128	184	355	481	414
85.0	69	68	65	65	71	91	108	172	248	249
87.5	40	40	39	38	41	53	65	85	93	90
90.0	14	14	11	9	9	10	6	10	13	10
92.5	6	5	5	5	3	0	0	0	1	1
95.0	4	3	4	4	2	0	0	0	0	0
97.5	4	3	4	4	2	0	0	0	0	0
100.0	3	3	4	4	2	0	0	0	0	0
102.5	4	3	4	4	2	0	0	0	0	0
105.0	4	3	4	4	2	0	0	0	0	0
107.5	4	4	4	4	2	0	0	0	0	0
110.0	5	4	5	5	2	0	0	0	0	0
112.5	5	5	5	5	3	1	0	0	0	0
115.0	6	6	6	5	3	1	0	0	1	1
117.5	7	7	6	6	4	1	0	0	1	2
120.0	9	8	7	6	4	2	0	1	2	2
122.5	10	9	8	7	5	3	0	1	3	3
125.0	11	10	9	7	5	3	1	2	4	4
127.5	12	11	10	8	6	4	2	3	4	5
130.0	13	12	11	8	6	4	2	3	5	6

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PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-40-IL.IES

CANDELA TABULATION - (Cont.)

132.5	13	12	11	9	6	4	2	3	5	6
135.0	12	11	9	7	5	4	2	3	4	5
137.5	6	5	5	4	3	1	0	0	1	2
140.0	1	1	2	2	0	0	0	0	0	0
142.5	1	1	2	1	0	0	0	0	0	0
145.0	1	1	2	1	0	0	0	0	0	0
147.5	1	1	1	1	0	0	0	0	0	0
150.0	1	1	1	1	0	0	0	0	0	0
152.5	1	1	1	1	0	0	0	0	0	0
155.0	1	1	1	1	0	0	0	0	0	0
157.5	1	1	1	1	0	0	0	0	0	0
160.0	1	1	1	1	0	0	0	0	0	0
162.5	1	1	1	0	0	0	0	0	0	0
165.0	1	1	1	0	0	0	0	0	0	0
167.5	1	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	2	2	0	0	0	0	0	0
177.5	1	1	2	2	0	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1939	1939	1939	1939	1939	1939	1939	1939	1939	1939
2.5	1934	1929	1938	1928	1903	1917	1926	1929	1912	1897
5.0	1857	1841	1806	1788	1802	1798	1765	1782	1752	1700
7.5	1916	1922	1881	1894	1800	1710	1573	1594	1571	1617
10.0	1991	1947	1886	1919	1699	1656	1584	1537	1459	1518
12.5	2161	2129	2084	1979	1774	1658	1567	1609	1614	1699
15.0	2389	2325	2187	2015	1746	1698	1704	1792	1833	1806
17.5	2694	2535	2407	2139	1810	1809	1911	1957	1952	1939
20.0	3060	2933	2719	2261	1918	1993	2008	2038	1912	1741
22.5	3682	3338	3125	2554	2104	2144	2097	1850	1506	1259
25.0	4340	4075	3659	2767	2432	2289	1904	1357	974	752
27.5	5245	4767	4318	3121	2691	2244	1483	893	601	507
30.0	6366	5741	5034	3495	2903	1995	1054	600	493	448
32.5	7574	6790	5806	3858	3017	1642	713	512	440	414
35.0	8969	7958	6699	4265	2921	1230	597	462	414	391
37.5	10042	9129	7445	4575	2641	836	539	431	378	351
40.0	10525	9647	7806	4830	2227	666	489	399	335	306
42.5	11059	10205	8091	4843	1560	590	444	356	287	249
45.0	11814	10834	8502	4712	986	526	397	306	235	199
47.5	12904	11690	8899	4302	719	468	338	250	187	155
50.0	14095	12500	9224	3589	616	415	281	195	149	120
52.5	15553	13212	9349	2667	559	359	224	149	115	91
55.0	17092	13381	9156	1798	515	301	175	113	88	64
57.5	17693	12846	8405	1268	476	245	130	82	63	40
60.0	17118	11669	7234	1034	458	199	96	55	37	19
62.5	15116	9856	5822	856	437	156	68	29	20	10
65.0	12261	7561	4230	655	381	122	45	14	14	7
67.5	8753	5270	2581	462	289	90	28	11	12	7
70.0	5031	3150	1422	327	194	60	23	13	11	7
72.5	2268	1553	800	241	123	37	23	16	11	6
75.0	947	807	495	174	70	30	26	18	10	6
77.5	584	553	319	113	45	31	27	20	9	6

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CANDELA TABULATION - (Cont.)

80.0	463	389	206	62	34	30	28	21	10	6
82.5	331	237	122	30	28	27	27	21	10	7
85.0	191	121	58	15	20	26	26	19	9	7
87.5	66	31	9	8	15	23	22	17	9	6
90.0	3	3	4	7	14	21	21	14	8	6
92.5	0	2	4	7	13	19	18	12	7	6
95.0	0	2	3	6	10	15	13	9	6	6
97.5	0	2	3	5	8	10	8	7	5	5
100.0	0	2	3	5	7	7	7	6	5	5
102.5	0	2	3	5	6	6	5	5	4	5
105.0	0	2	3	4	5	5	5	5	4	5
107.5	0	2	3	5	5	5	5	5	4	4
110.0	1	2	3	5	5	5	5	5	4	5
112.5	1	2	3	5	5	5	5	5	5	5
115.0	2	3	4	5	6	6	5	5	5	5
117.5	3	3	4	5	6	6	6	6	5	6
120.0	4	4	5	6	6	6	6	6	6	6
122.5	4	5	5	6	7	7	7	7	7	7
125.0	5	6	6	6	7	7	7	7	7	7
127.5	6	6	6	7	7	7	7	8	8	8
130.0	6	6	7	7	7	7	7	8	8	8
132.5	6	6	7	7	7	7	7	8	8	8
135.0	6	6	6	7	7	7	7	8	8	8
137.5	2	3	4	4	5	5	6	7	7	7
140.0	0	0	1	2	3	4	5	6	6	6
142.5	0	0	0	1	3	4	4	5	6	5
145.0	0	0	0	1	3	4	4	5	6	5
147.5	0	0	0	1	3	4	5	6	6	5
150.0	0	0	0	1	3	4	5	6	6	5
152.5	0	0	0	2	3	4	5	6	6	5
155.0	0	0	0	2	3	4	5	6	6	5
157.5	0	0	0	2	3	4	5	6	6	5
160.0	0	0	0	1	2	3	4	5	5	4
162.5	0	0	0	1	2	3	4	5	5	4
165.0	0	0	0	0	1	2	3	4	4	4
167.5	0	0	0	0	1	2	3	4	4	3
170.0	0	0	0	0	1	2	2	4	4	3
172.5	0	0	0	0	0	1	2	3	3	3
175.0	0	0	0	0	0	1	2	3	3	3
177.5	0	0	0	0	0	1	2	2	3	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1939	1939
2.5	1875	1842
5.0	1689	1668
7.5	1596	1559
10.0	1560	1514
12.5	1741	1687
15.0	1938	1901
17.5	2027	1964
20.0	1721	1634
22.5	1148	1130
25.0	661	644

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CANDELA TABULATION - (Cont.)

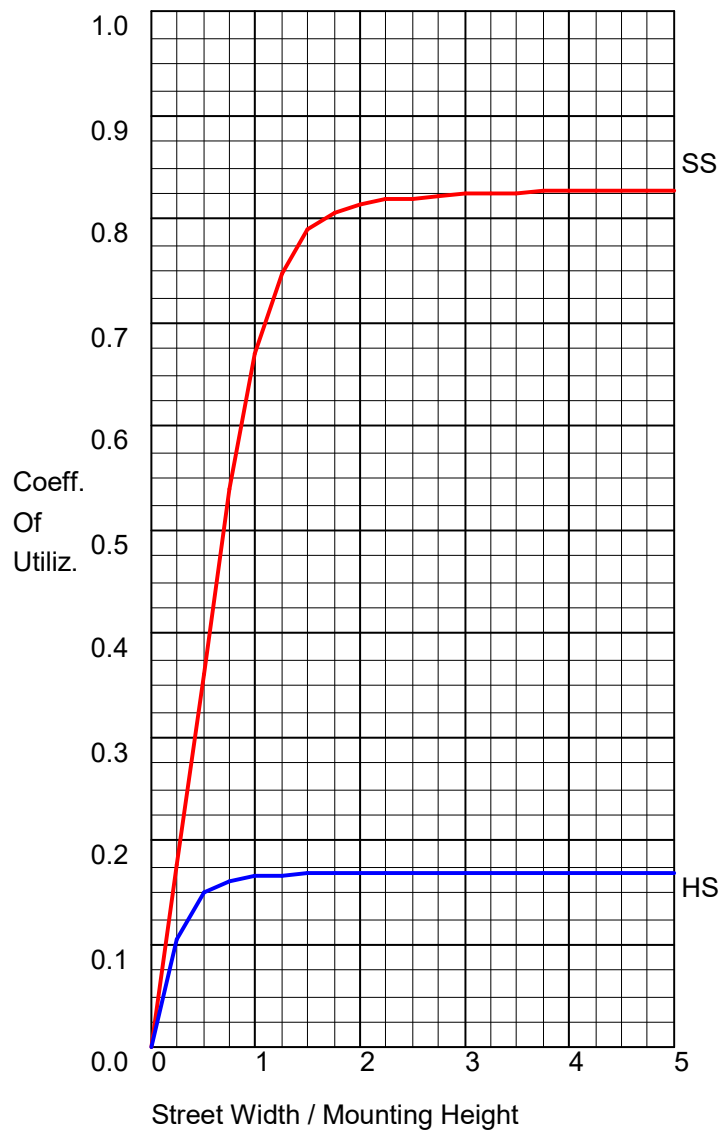
27.5	493	489
30.0	441	440
32.5	418	418
35.0	386	387
37.5	347	350
40.0	293	293
42.5	237	233
45.0	187	184
47.5	145	143
50.0	110	109
52.5	80	79
55.0	54	54
57.5	29	28
60.0	12	12
62.5	6	6
65.0	3	3
67.5	4	4
70.0	4	4
72.5	3	2
75.0	2	2
77.5	3	2
80.0	3	3
82.5	3	3
85.0	3	3
87.5	3	3
90.0	3	3
92.5	3	3
95.0	3	2
97.5	2	2
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	3	2
112.5	3	3
115.0	3	3
117.5	4	4
120.0	5	5
122.5	5	6
125.0	7	7
127.5	8	8
130.0	8	9
132.5	8	9
135.0	8	8
137.5	6	6
140.0	4	4
142.5	4	4
145.0	3	4
147.5	3	4
150.0	3	4
152.5	4	4
155.0	3	4
157.5	3	3
160.0	2	2
162.5	2	1
165.0	1	0

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PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-40-IL.IES

CANDELA TABULATION - (Cont.)

167.5	1	0
170.0	1	0
172.5	1	0
175.0	1	0
177.5	1	0
180.0	1	1

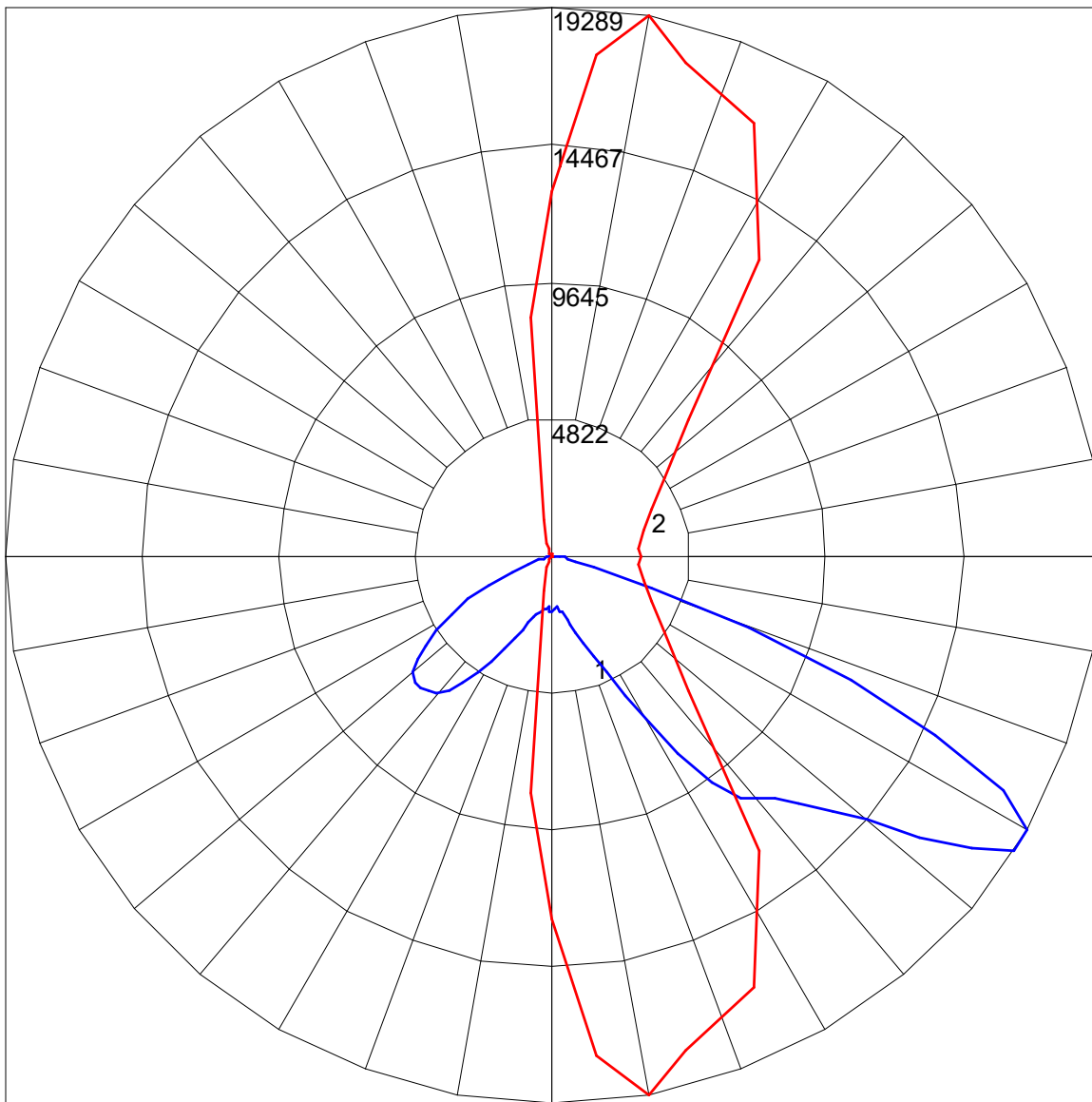
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

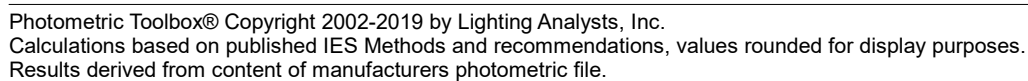
	Lumens	Percent Of Luminaire
Downward Street Side	15647.4	82.9
Downward House Side	3193.3	16.9
Downward Total	18840.7	99.9
Upward Street Side	8.0	0.0
Upward House Side	17.1	0.1
Upward Total	25.1	0.1
Total Flux	18865.8	100.0

POLAR GRAPH

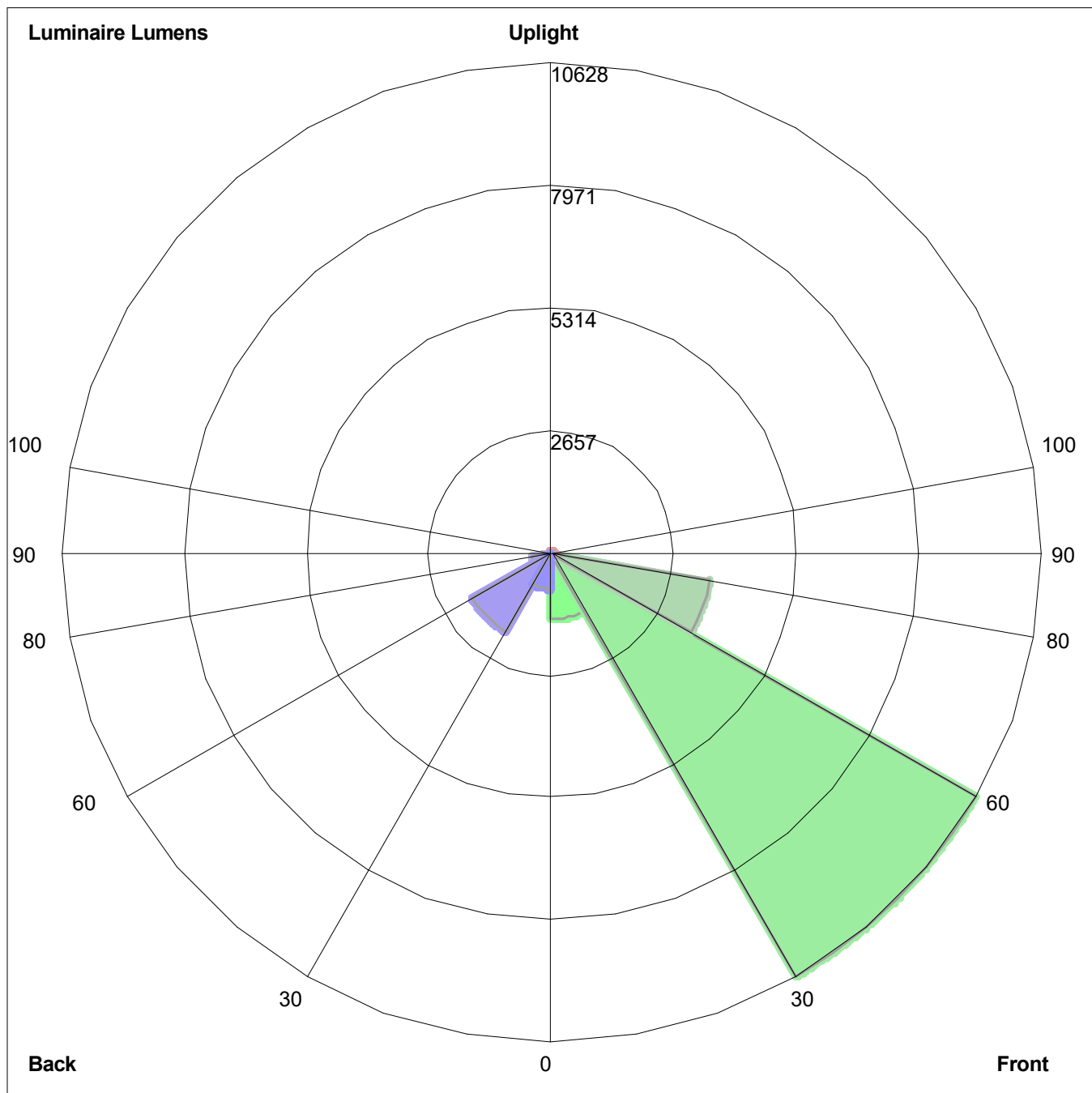


Maximum Candela = 19289 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1456.3, Medium=10627.6, High=3489.6, Very High=73.9
Back: Low=789.8, Medium=1979.7, High=410.3, Very High=13.5
Uplight: Low=5.8, High=19.3

BUG Rating : B2-U2-G2