



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-10L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11788
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/30/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-LED-10L-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
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8606
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6696
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	6696
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	851 (9.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	782.8	N.A.	9.1
FM - Front-Medium (30-60)	3556.8	N.A.	41.3
FH - Front-High (60-80)	3067.8	N.A.	35.6
FVH - Front-Very High (80-90)	96.2	N.A.	1.1
BL - Back-Low (0-30)	400.8	N.A.	4.7
BM - Back-Medium (30-60)	592.1	N.A.	6.9
BH - Back-High (60-80)	107.2	N.A.	1.2
BVH - Back-Very High (80-90)	2.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8605.9	N.A.	100.0
BUG Rating	B1-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
2.5	1636	1621	1623	1622	1624	1605	1616	1614	1607	1608
5.0	1676	1661	1662	1665	1667	1644	1660	1655	1643	1636
7.5	1692	1674	1679	1685	1690	1670	1692	1689	1683	1670
10.0	1698	1683	1686	1695	1703	1695	1708	1723	1718	1711
12.5	1713	1694	1699	1706	1716	1716	1730	1752	1757	1750
15.0	1736	1726	1731	1739	1750	1742	1759	1780	1792	1791
17.5	1767	1767	1769	1782	1788	1780	1797	1813	1829	1837
20.0	1816	1813	1819	1828	1830	1824	1837	1852	1865	1881
22.5	1872	1866	1872	1876	1882	1877	1889	1898	1897	1916
25.0	1936	1932	1931	1937	1942	1943	1947	1951	1941	1958
27.5	2014	2005	2005	2014	2017	2018	2014	2010	1995	2002
30.0	2106	2099	2097	2104	2102	2105	2101	2075	2054	2041
32.5	2209	2207	2207	2210	2201	2206	2205	2160	2122	2081
35.0	2318	2323	2332	2331	2329	2336	2318	2274	2197	2135
37.5	2454	2453	2455	2457	2469	2481	2463	2412	2288	2201
40.0	2581	2582	2591	2601	2620	2649	2627	2563	2403	2282
42.5	2718	2722	2733	2768	2805	2848	2820	2752	2566	2398
45.0	2874	2881	2902	2971	3016	3069	3060	2994	2763	2534
47.5	3057	3056	3100	3195	3269	3346	3319	3288	2996	2695
50.0	3254	3257	3325	3452	3583	3672	3638	3617	3262	2876
52.5	3458	3461	3564	3763	3929	4057	4024	3990	3565	3086
55.0	3680	3693	3830	4074	4324	4493	4496	4398	3893	3311
57.5	3907	3959	4114	4420	4768	4998	4947	4844	4240	3482
60.0	4149	4229	4421	4792	5222	5482	5419	5284	4517	3578
62.5	4265	4346	4665	5197	5655	6009	5944	5644	4683	3503
65.0	3924	4021	4513	5393	6165	6547	6479	5816	4579	3216
67.5	3187	3288	3895	4998	6191	6696	6695	5732	4172	2611
70.0	1676	1774	2550	4030	5374	6075	6304	5262	3321	1884
72.5	663	707	1066	2132	3847	4891	5111	4176	2350	1128
75.0	476	496	678	1095	1924	2871	3161	2869	1422	725
77.5	374	392	558	829	1181	1449	1522	1607	926	496
80.0	298	309	463	656	788	841	851	724	566	336
82.5	214	229	346	454	401	342	331	258	270	203
85.0	92	104	137	156	144	132	129	98	103	115
87.5	33	35	47	59	50	39	35	28	29	37
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
2.5	1597	1597	1595	1582	1582	1573	1563	1561	1547	1543
5.0	1616	1612	1599	1579	1565	1543	1516	1501	1489	1475
7.5	1641	1635	1614	1579	1541	1506	1467	1427	1386	1353
10.0	1681	1666	1640	1587	1523	1459	1369	1266	1180	1117
12.5	1725	1702	1672	1596	1497	1361	1196	1041	914	825
15.0	1767	1741	1707	1600	1443	1206	971	782	663	608
17.5	1815	1785	1749	1599	1352	1030	752	614	538	495
20.0	1863	1835	1783	1592	1232	836	621	516	461	431
22.5	1909	1876	1819	1562	1086	699	541	458	414	391
25.0	1943	1913	1853	1501	932	617	489	420	389	376
27.5	1978	1948	1881	1423	813	565	455	398	377	372

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CANDELA TABULATION - (Cont.)

30.0	2014	1981	1904	1334	737	529	431	382	365	367
32.5	2047	2008	1927	1227	686	504	412	363	352	358
35.0	2076	2026	1942	1138	651	487	392	342	334	335
37.5	2109	2046	1949	1077	623	466	366	314	305	292
40.0	2156	2080	1962	1041	603	442	335	277	260	239
42.5	2220	2125	1977	1028	579	406	294	235	206	182
45.0	2292	2170	1976	1027	543	362	249	186	152	135
47.5	2393	2221	1978	1040	486	303	196	141	111	98
50.0	2508	2299	1996	1061	403	225	139	98	82	73
52.5	2628	2372	2011	1062	300	151	94	69	58	55
55.0	2724	2401	1995	1007	200	108	68	49	41	38
57.5	2780	2405	1961	866	140	82	53	37	28	23
60.0	2755	2341	1814	629	110	66	41	27	16	11
62.5	2587	2121	1516	381	93	53	32	18	9	6
65.0	2224	1734	1080	213	76	42	24	12	5	2
67.5	1649	1219	646	133	57	32	17	9	4	2
70.0	1065	737	347	84	39	22	13	7	4	2
72.5	581	435	191	55	26	14	9	6	3	0
75.0	400	285	113	37	16	9	8	4	1	0
77.5	268	187	82	22	9	7	5	2	0	0
80.0	151	106	56	13	6	4	3	1	0	0
82.5	99	70	34	5	4	3	2	1	0	0
85.0	62	38	12	3	2	3	2	1	0	0
87.5	23	8	2	1	1	2	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

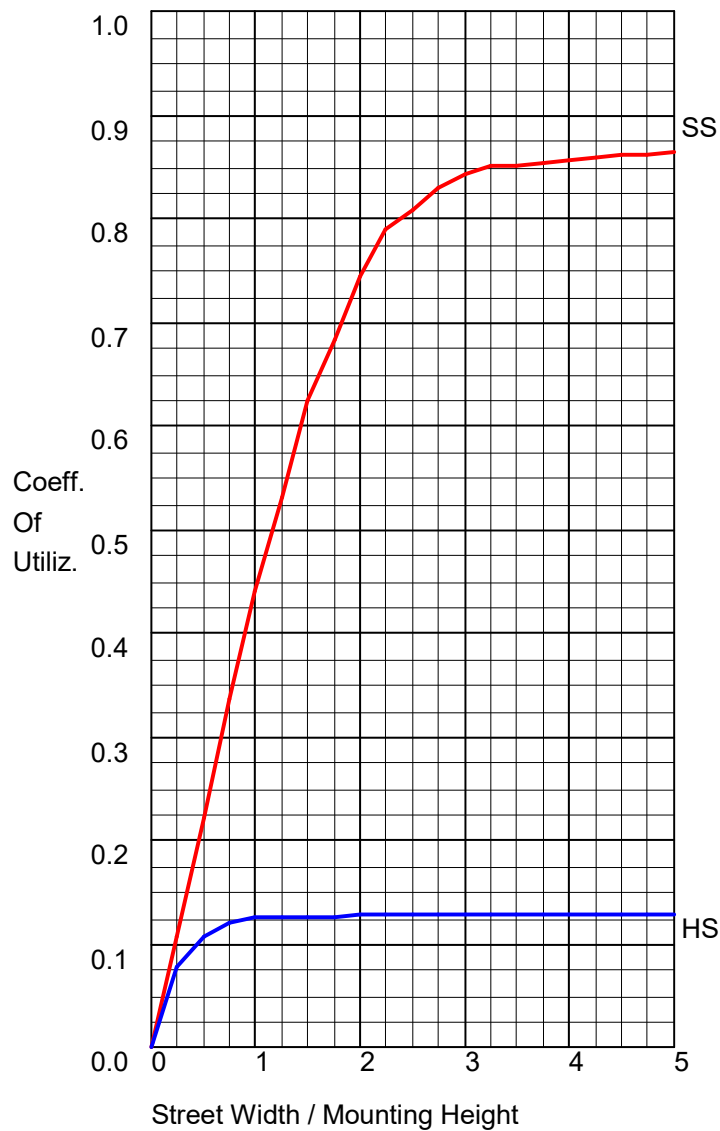
	<u>175.0</u>	<u>180.0</u>
0.0	1586	1586
2.5	1541	1532
5.0	1465	1455
7.5	1337	1323
10.0	1070	1073
12.5	768	768
15.0	575	575
17.5	475	474
20.0	417	415
22.5	382	381
25.0	372	373
27.5	368	370
30.0	365	365
32.5	354	354
35.0	321	316
37.5	270	266
40.0	212	212
42.5	163	160
45.0	118	116
47.5	91	90
50.0	71	71
52.5	54	54
55.0	37	37
57.5	22	22
60.0	11	10
62.5	5	4
65.0	1	1

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CANDELA TABULATION - (Cont.)

67.5	1	1
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

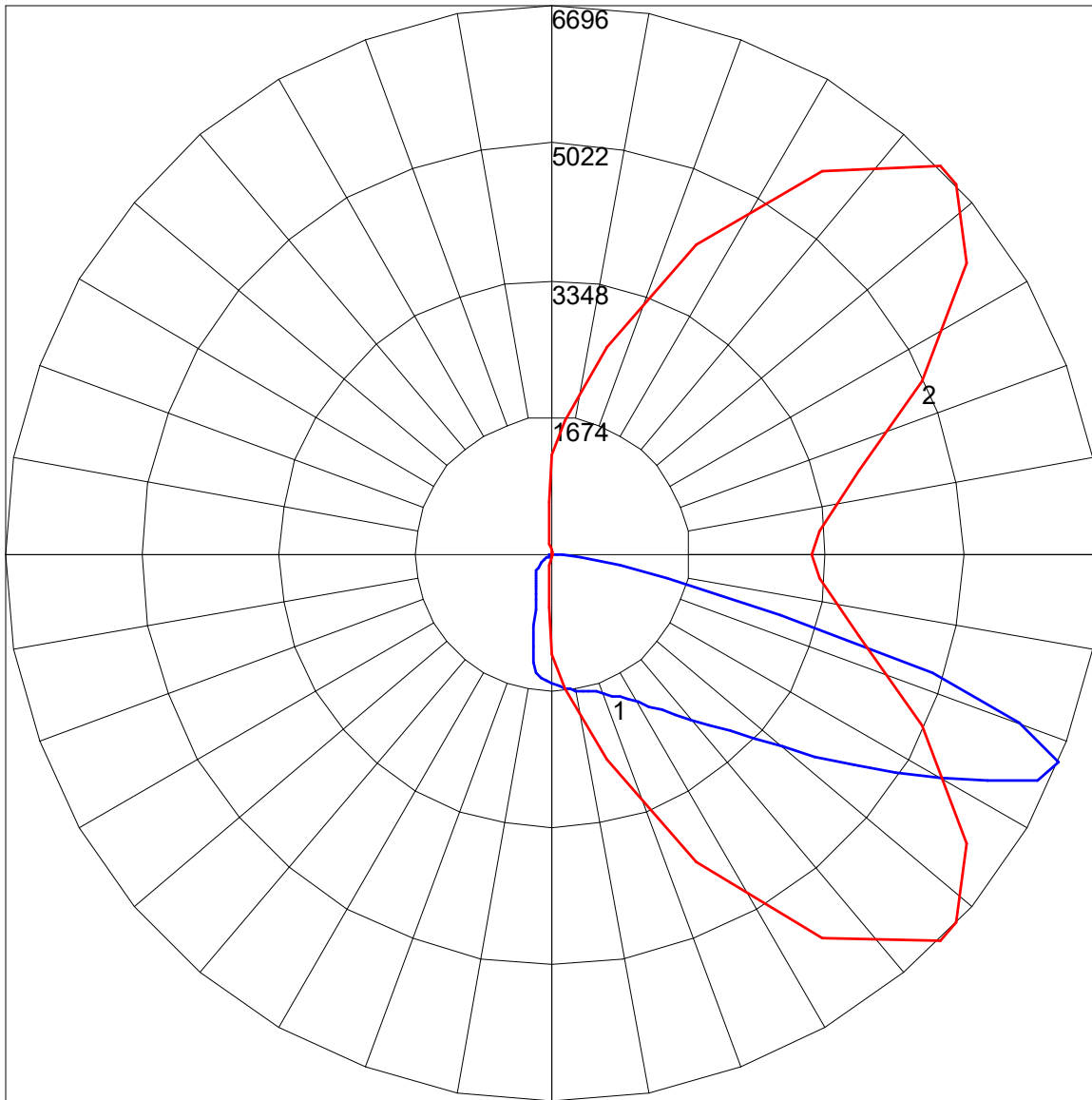
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

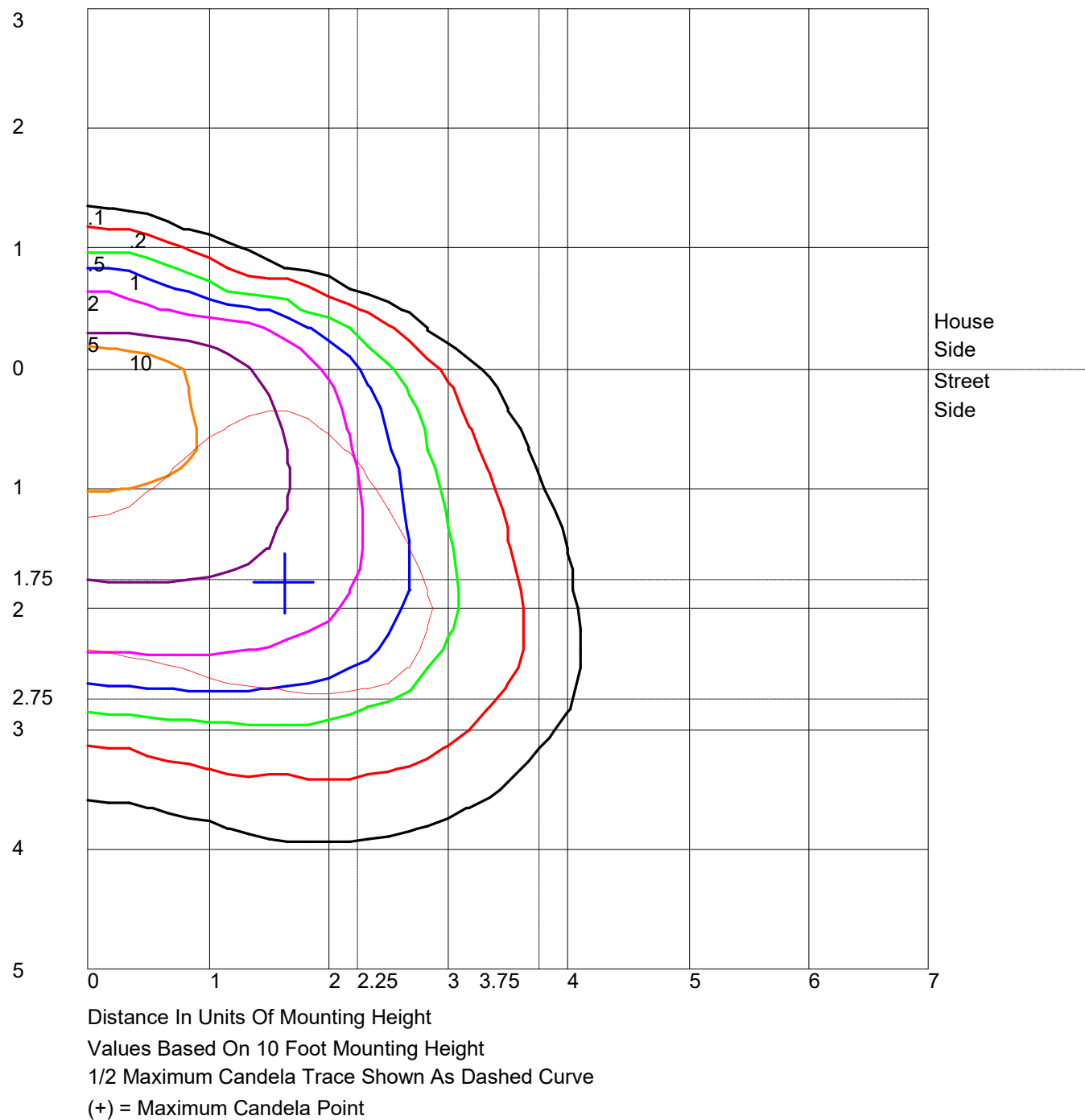
	Lumens	Percent Of Luminaire
Downward Street Side	7503.7	87.2
Downward House Side	1102.3	12.8
Downward Total	8605.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8605.9	100.0

POLAR GRAPH

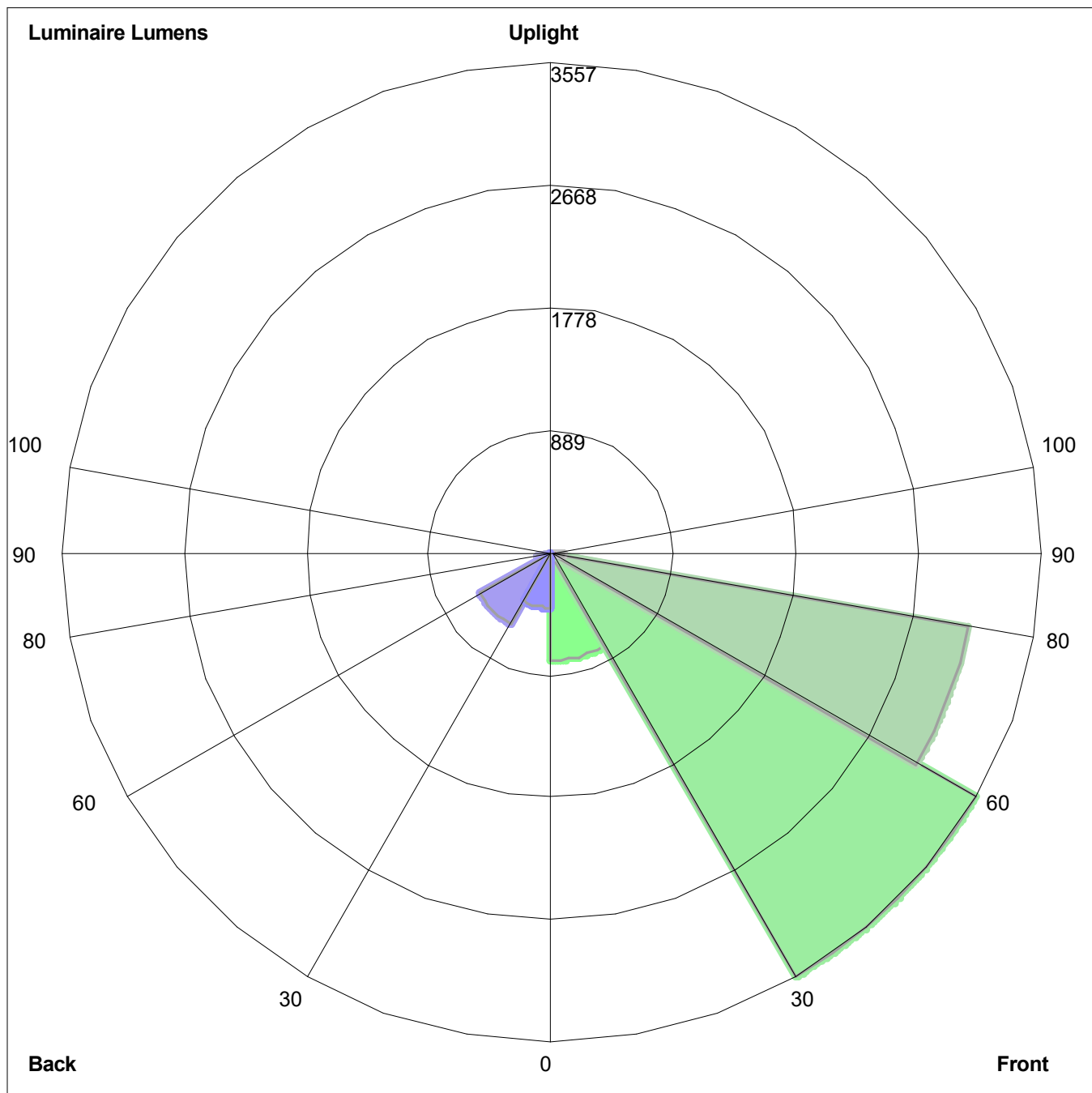


Maximum Candela = 6696 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=782.8, Medium=3556.8, High=3067.8, Very High=96.2
Back: Low=400.8, Medium=592.1, High=107.2, Very High=2.2
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2