



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11786

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-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	5992
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4289
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	4289
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	195 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-40-IL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	375.5	N.A.	6.3
FM - Front-Medium (30-60)	2256.5	N.A.	37.7
FH - Front-High (60-80)	1877.4	N.A.	31.3
FVH - Front-Very High (80-90)	20.3	N.A.	0.3
BL - Back-Low (0-30)	371.3	N.A.	6.2
BM - Back-Medium (30-60)	826.0	N.A.	13.8
BH - Back-High (60-80)	263.3	N.A.	4.4
BVH - Back-Very High (80-90)	1.7	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	5992.0	N.A.	100.0
BUG Rating	B1-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-40-IL.IES

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>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	638	638	638	638	638	638	638	638	638	638
2.5	640	631	632	630	632	634	625	632	635	632
5.0	632	622	624	625	628	629	621	631	635	638
7.5	638	630	630	631	635	637	628	638	643	650
10.0	658	647	650	652	654	657	648	659	661	666
12.5	690	682	684	687	690	692	682	691	691	695
15.0	734	727	730	736	736	740	732	736	732	735
17.5	784	778	784	796	799	802	802	796	786	781
20.0	842	839	846	866	878	880	878	867	850	838
22.5	901	901	918	944	963	973	965	953	923	903
25.0	964	963	990	1037	1063	1074	1068	1051	1007	969
27.5	1032	1034	1072	1131	1181	1187	1187	1154	1096	1042
30.0	1101	1108	1159	1237	1300	1308	1308	1267	1189	1125
32.5	1172	1188	1244	1339	1418	1429	1423	1384	1290	1219
35.0	1249	1261	1328	1439	1529	1561	1549	1500	1398	1309
37.5	1324	1344	1413	1538	1645	1688	1692	1622	1521	1411
40.0	1413	1432	1507	1642	1769	1814	1824	1751	1631	1522
42.5	1513	1532	1616	1754	1892	1939	1952	1884	1755	1635
45.0	1620	1641	1729	1865	2010	2069	2081	2010	1878	1763
47.5	1747	1765	1849	1984	2146	2193	2219	2143	2016	1894
50.0	1864	1888	1982	2106	2280	2343	2367	2284	2142	2022
52.5	1989	2026	2110	2248	2420	2494	2510	2424	2286	2179
55.0	2130	2172	2255	2389	2581	2660	2673	2578	2462	2345
57.5	2279	2314	2406	2551	2782	2888	2909	2791	2639	2514
60.0	2395	2432	2567	2756	3056	3211	3259	3038	2795	2618
62.5	2463	2487	2637	2913	3388	3611	3634	3304	2926	2677
65.0	2300	2334	2559	2936	3582	4008	3966	3492	3000	2731
67.5	1697	1708	2091	2682	3545	4289	4262	3740	3072	2648
70.0	488	499	887	1843	3083	4262	4267	3674	2660	2030
72.5	140	142	194	414	1760	3486	3488	2904	1858	1256
75.0	63	65	73	132	378	1604	1859	1693	957	561
77.5	30	30	34	48	113	328	374	601	415	242
80.0	23	23	23	28	45	78	89	148	195	116
82.5	22	22	22	26	31	38	39	52	89	93
85.0	18	18	19	22	27	31	32	38	50	77
87.5	12	12	13	15	17	22	23	27	39	48
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	638	638	638	638	638	638	638	638	638	638
2.5	636	638	641	638	643	645	646	648	652	653
5.0	642	646	652	654	659	665	669	673	674	679
7.5	656	664	669	676	684	692	697	701	704	706
10.0	677	687	693	704	715	725	730	733	737	735
12.5	706	716	725	742	757	767	769	774	769	769
15.0	743	755	766	783	804	815	816	818	810	805
17.5	786	799	811	838	860	871	876	873	856	840
20.0	840	848	863	893	920	939	944	929	903	875
22.5	898	906	925	961	994	1018	1018	1000	953	899
25.0	960	974	989	1027	1072	1098	1095	1058	955	841
27.5	1028	1039	1052	1104	1153	1183	1174	1063	848	674

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-40-IL.IES

CANDELA TABULATION - (Cont.)

30.0	1102	1113	1129	1181	1246	1282	1224	959	653	465
32.5	1187	1197	1215	1271	1346	1376	1179	757	442	283
35.0	1273	1279	1300	1360	1445	1437	1015	533	271	172
37.5	1368	1369	1397	1463	1543	1413	785	336	165	116
40.0	1472	1475	1498	1568	1643	1272	542	199	112	90
42.5	1577	1583	1602	1684	1730	1023	339	126	86	74
45.0	1690	1699	1726	1805	1738	746	195	91	70	63
47.5	1812	1824	1854	1937	1638	486	120	70	59	51
50.0	1953	1959	1991	2074	1415	289	84	58	47	39
52.5	2113	2132	2146	2215	1089	167	62	46	36	28
55.0	2275	2286	2310	2325	754	100	50	35	24	17
57.5	2407	2427	2455	2329	506	65	38	24	14	8
60.0	2485	2494	2526	2125	364	49	28	14	6	2
62.5	2508	2515	2536	1688	305	44	19	7	2	0
65.0	2538	2545	2551	1140	288	64	11	2	1	0
67.5	2391	2384	2398	670	273	99	6	1	0	0
70.0	1703	1676	1704	317	212	127	6	1	1	0
72.5	982	902	917	111	101	110	4	1	1	0
75.0	394	371	366	48	37	46	2	0	0	0
77.5	173	158	139	24	13	18	0	0	0	0
80.0	92	80	59	11	5	5	0	0	0	0
82.5	67	56	33	3	2	2	0	0	0	0
85.0	45	34	14	1	0	0	0	0	0	0
87.5	25	10	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

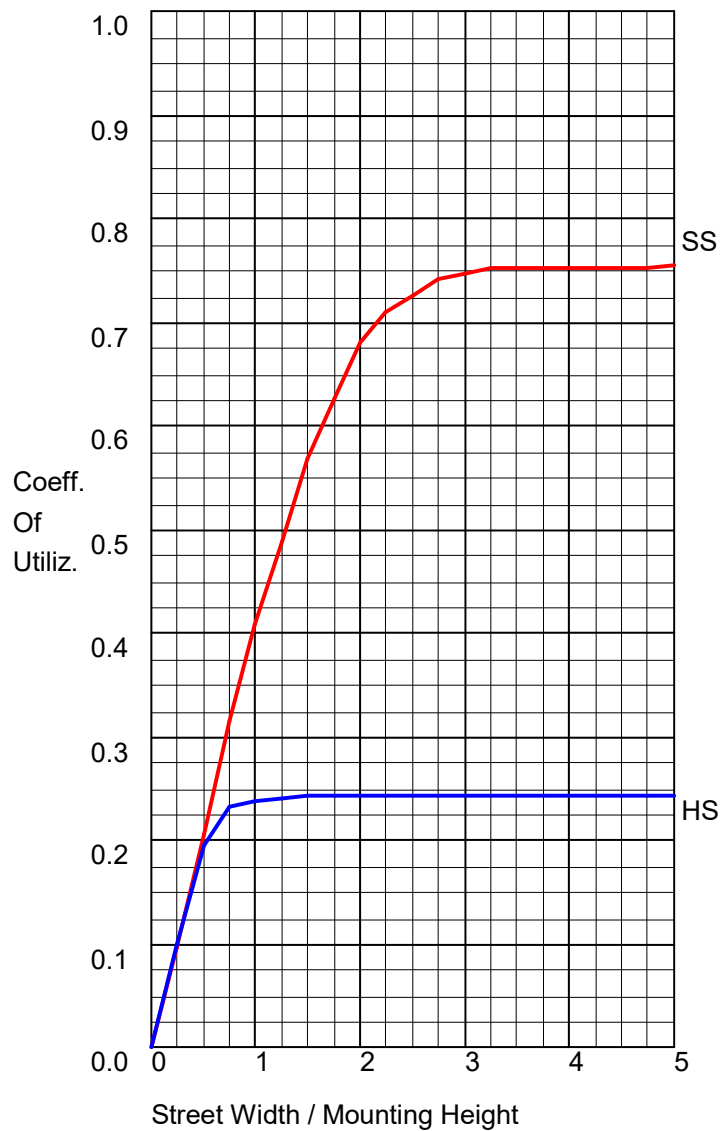
	<u>175.0</u>	<u>180.0</u>
0.0	638	638
2.5	653	652
5.0	680	677
7.5	705	705
10.0	733	739
12.5	764	766
15.0	800	797
17.5	832	832
20.0	859	861
22.5	858	855
25.0	769	759
27.5	578	567
30.0	377	366
32.5	229	222
35.0	141	140
37.5	102	102
40.0	82	81
42.5	70	69
45.0	59	58
47.5	47	47
50.0	36	35
52.5	24	23
55.0	13	13
57.5	6	5
60.0	1	1
62.5	0	0
65.0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-40-IL.IES

CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
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

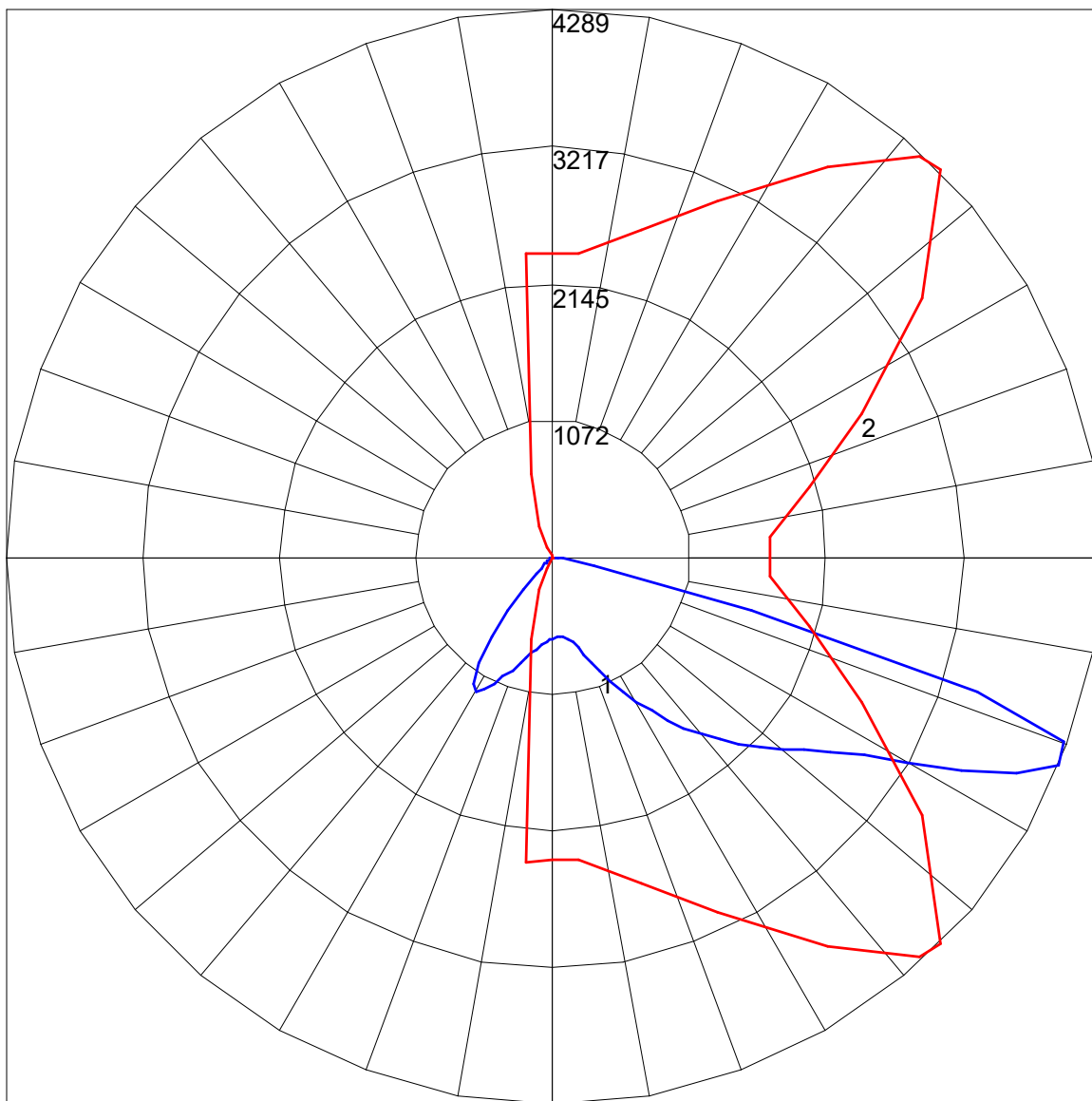
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

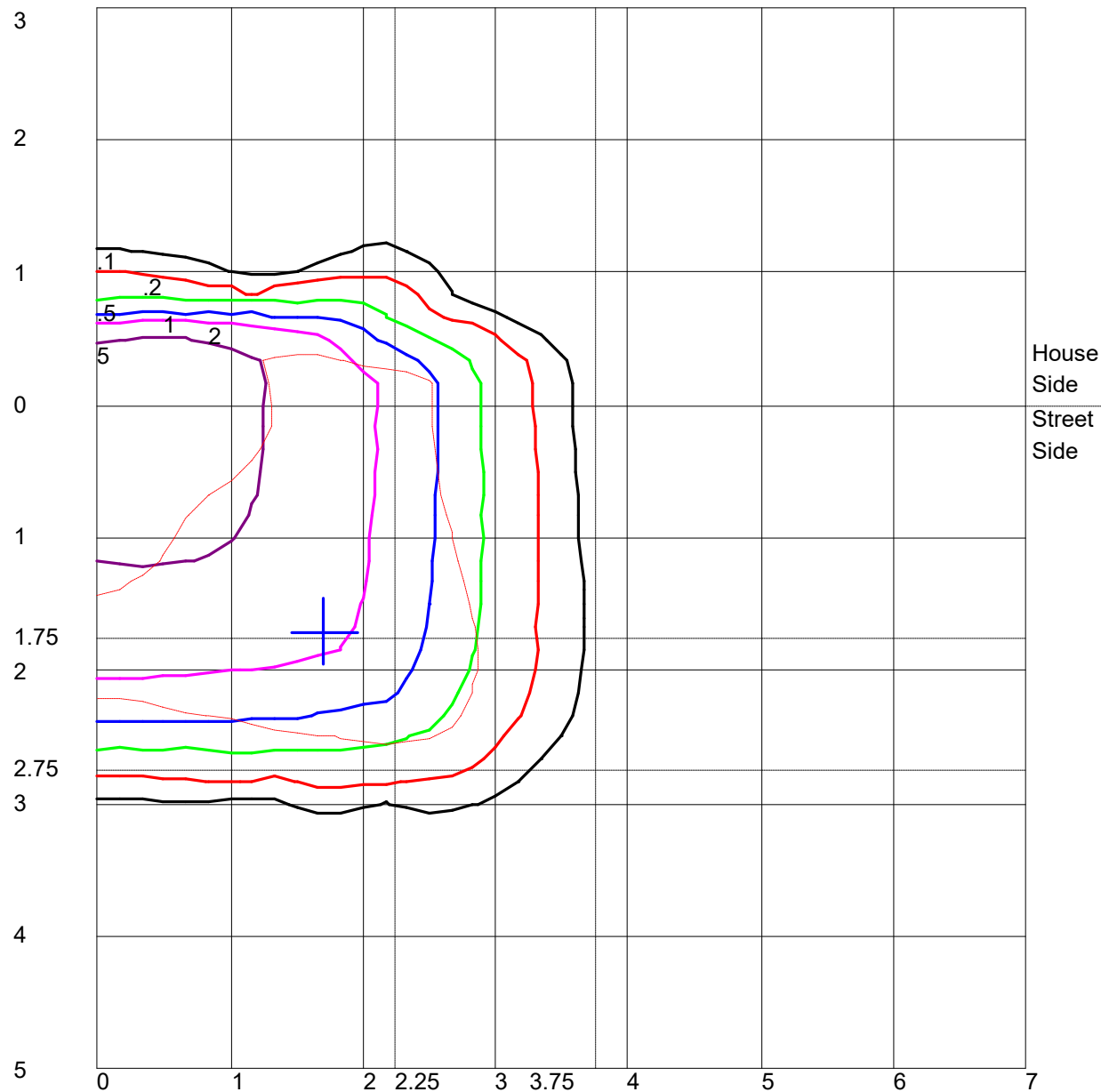
	Lumens	Percent Of Luminaire
Downward Street Side	4529.8	75.6
Downward House Side	1462.3	24.4
Downward Total	5992.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5992.1	100.0

POLAR GRAPH

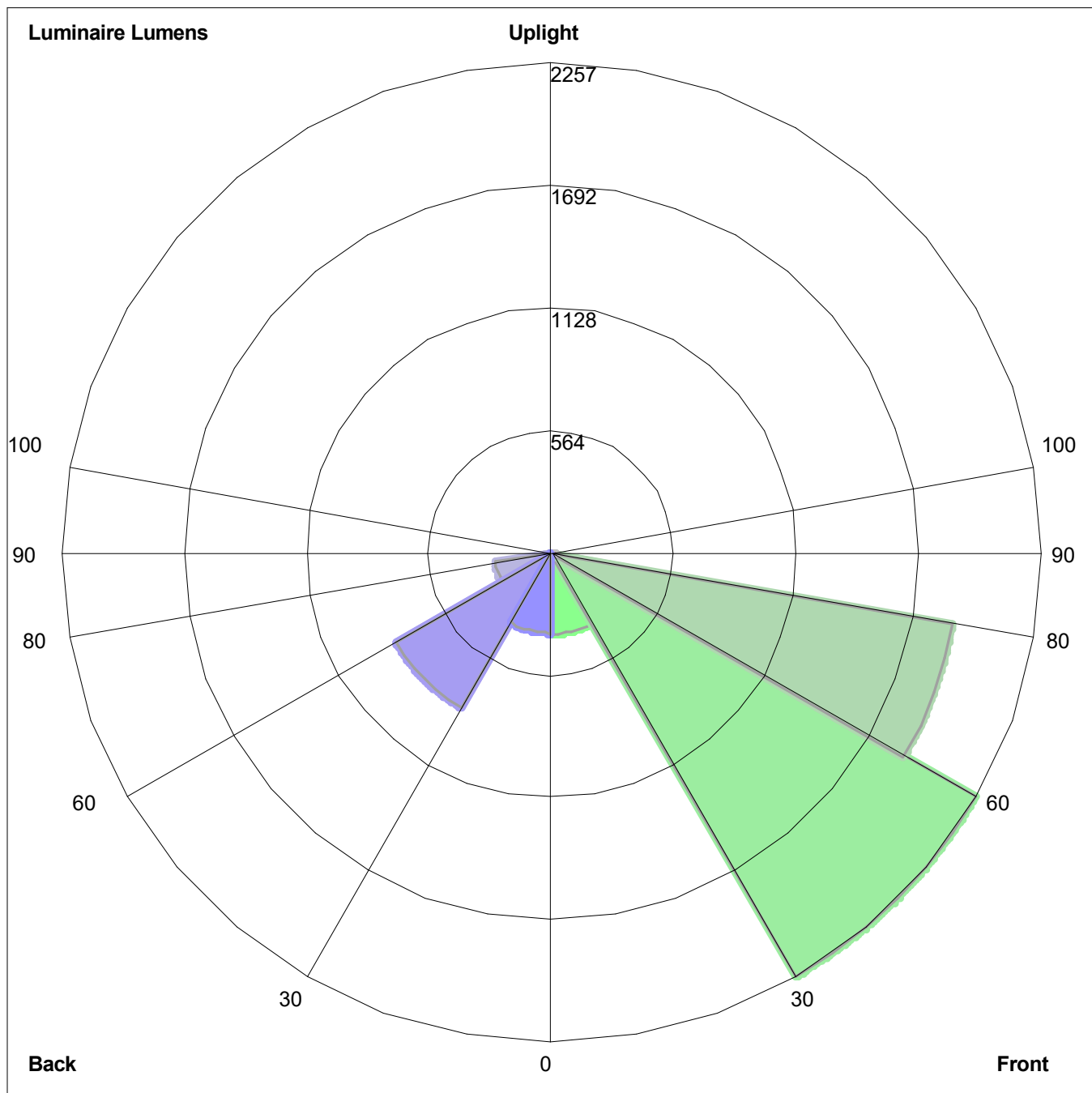


Maximum Candela = 4289 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=375.5, Medium=2256.5, High=1877.4, Very High=20.3
Back: Low=371.3, Medium=826.0, High=263.3, Very High=1.7
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2