



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11784

[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

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[FACTORED] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10010
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5269
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	5269
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	699 (7.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	445.7	N.A.	4.5
FM - Front-Medium (30-60)	2052.5	N.A.	20.5
FH - Front-High (60-80)	2461.9	N.A.	24.6
FVH - Front-Very High (80-90)	44.7	N.A.	0.4
BL - Back-Low (0-30)	445.7	N.A.	4.5
BM - Back-Medium (30-60)	2052.5	N.A.	20.5
BH - Back-High (60-80)	2461.9	N.A.	24.6
BVH - Back-Very High (80-90)	44.7	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	10009.6	N.A.	100.0
BUG Rating	B3-U0-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>85</u>
0.0	874	874	874	874	874	874	874	874	874	874
2.5	878	878	876	876	878	878	878	878	876	876
5.0	882	882	882	882	883	883	883	883	882	882
7.5	890	890	890	894	894	894	896	894	892	894
10.0	905	905	906	908	910	910	912	910	910	910
12.5	926	926	928	933	933	935	935	931	931	929
15.0	954	956	958	963	967	967	965	961	958	958
17.5	986	986	993	1000	1007	1007	1004	995	991	988
20.0	1023	1023	1032	1043	1055	1057	1052	1036	1027	1020
22.5	1062	1062	1075	1094	1110	1114	1105	1087	1066	1057
25.0	1103	1105	1121	1148	1172	1178	1167	1139	1110	1094
27.5	1144	1148	1169	1206	1238	1250	1234	1197	1158	1137
30.0	1188	1192	1220	1268	1313	1329	1307	1258	1210	1181
32.5	1234	1238	1275	1330	1387	1408	1383	1323	1266	1233
35.0	1284	1289	1334	1399	1465	1490	1462	1394	1329	1289
37.5	1339	1344	1394	1470	1545	1575	1543	1469	1396	1352
40.0	1399	1405	1458	1547	1628	1664	1630	1552	1469	1424
42.5	1465	1472	1531	1626	1719	1758	1719	1635	1548	1501
45.0	1541	1548	1612	1708	1807	1855	1814	1720	1634	1577
47.5	1630	1635	1697	1793	1896	1953	1912	1814	1720	1660
50.0	1728	1729	1793	1893	1995	2054	2010	1914	1814	1754
52.5	1827	1832	1894	1999	2105	2167	2120	2024	1916	1848
55.0	1946	1953	2010	2114	2224	2292	2237	2139	2033	1955
57.5	2081	2091	2153	2256	2373	2449	2375	2272	2162	2079
60.0	2265	2276	2338	2432	2574	2657	2556	2442	2338	2240
62.5	2497	2512	2595	2717	2859	2951	2817	2677	2556	2455
65.0	2712	2732	2857	3049	3287	3416	3198	2994	2865	2753
67.5	2790	2824	3045	3398	3845	4138	3796	3448	3260	3090
70.0	2363	2405	2749	3416	4438	5107	4511	3799	3157	2744
72.5	1348	1419	1850	2627	3961	5269	4195	2939	2171	1793
75.0	429	442	667	1304	2650	3899	2872	1589	958	754
77.5	215	216	275	461	1002	1898	1275	672	397	330
80.0	85	83	106	193	403	699	523	286	167	140
82.5	48	46	50	74	142	259	176	114	85	87
85.0	28	27	27	37	60	90	74	59	46	51
87.5	11	11	11	14	21	28	23	20	16	16
90.0	0	0	0	0	0	0	0	0	0	0

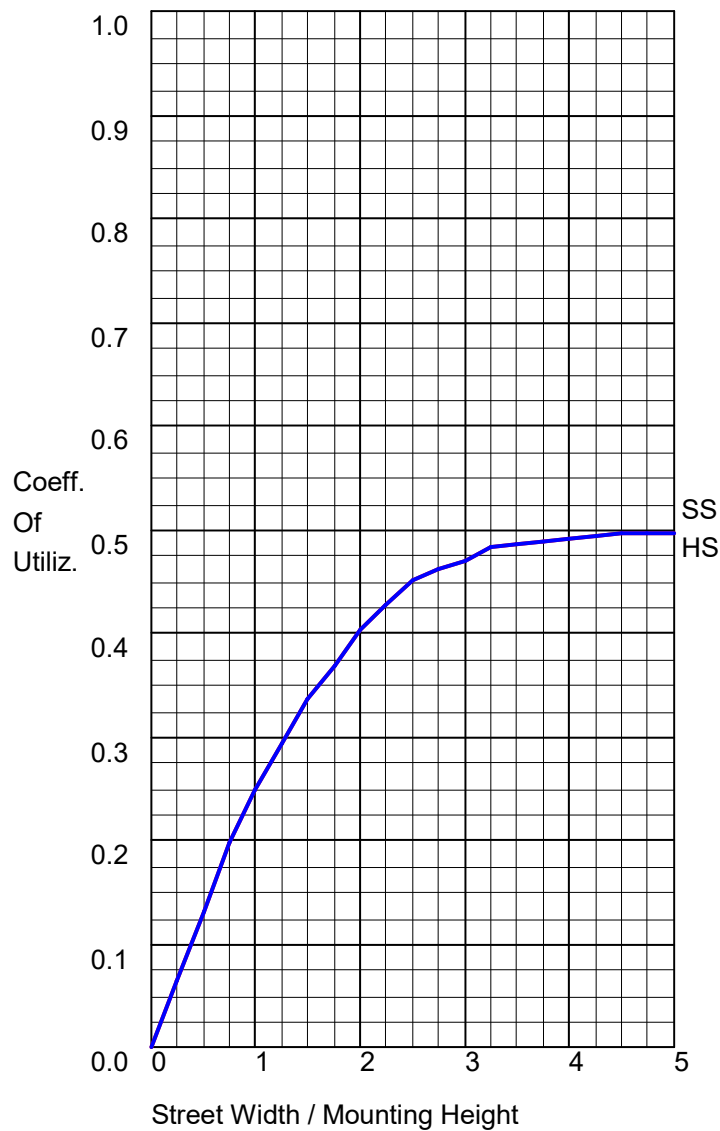
Vert. Angles	Horizontal Angles
	<u>90</u>
0.0	874
2.5	876
5.0	882
7.5	892
10.0	908
12.5	931
15.0	956
17.5	986
20.0	1020
22.5	1055
25.0	1094
27.5	1133

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CANDELA TABULATION - (Cont.)

30.0	1178
32.5	1227
35.0	1286
37.5	1350
40.0	1417
42.5	1497
45.0	1573
47.5	1657
50.0	1751
52.5	1845
55.0	1953
57.5	2075
60.0	2235
62.5	2460
65.0	2755
67.5	3090
70.0	2723
72.5	1767
75.0	750
77.5	314
80.0	142
82.5	89
85.0	48
87.5	14
90.0	0

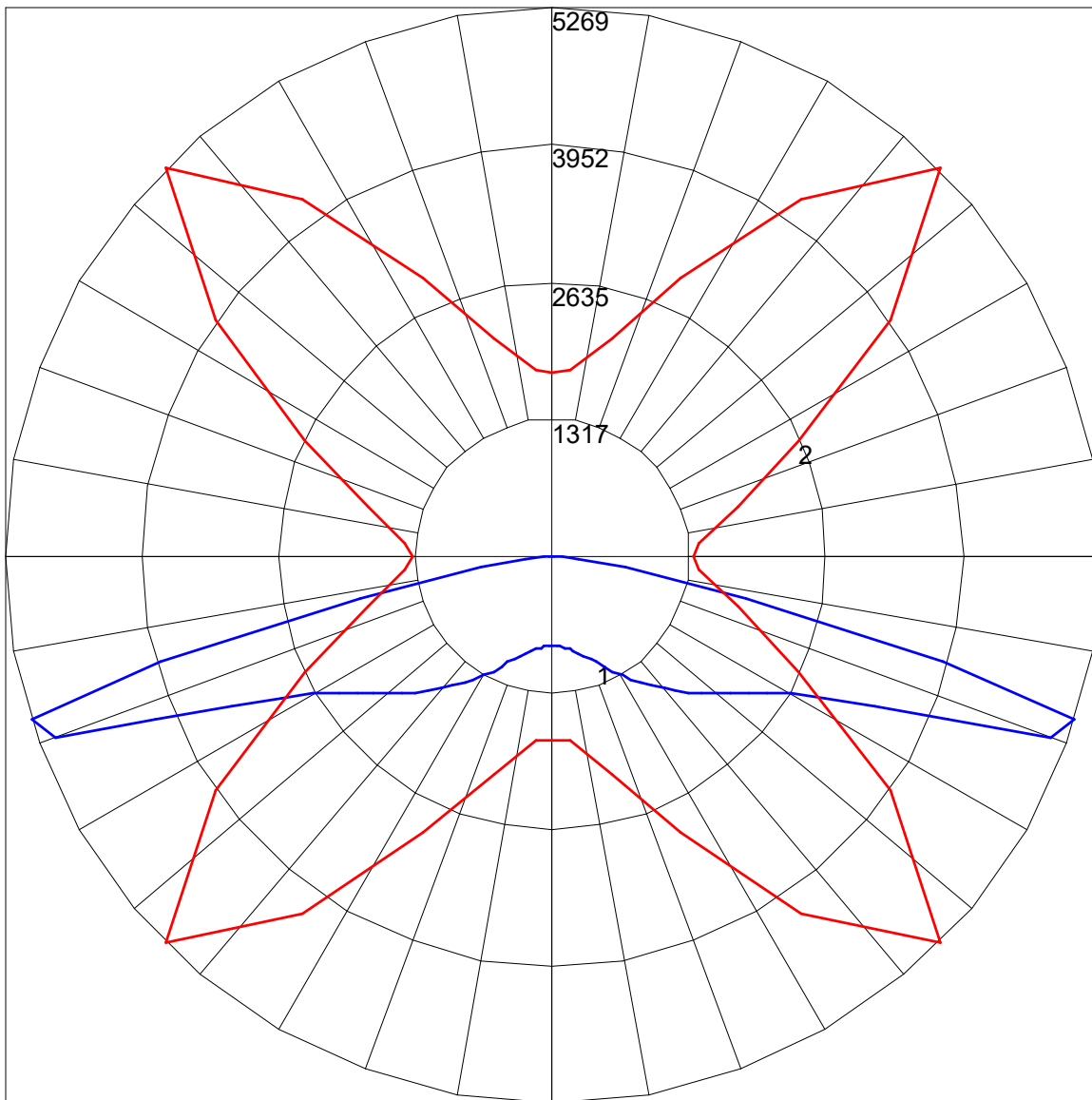
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

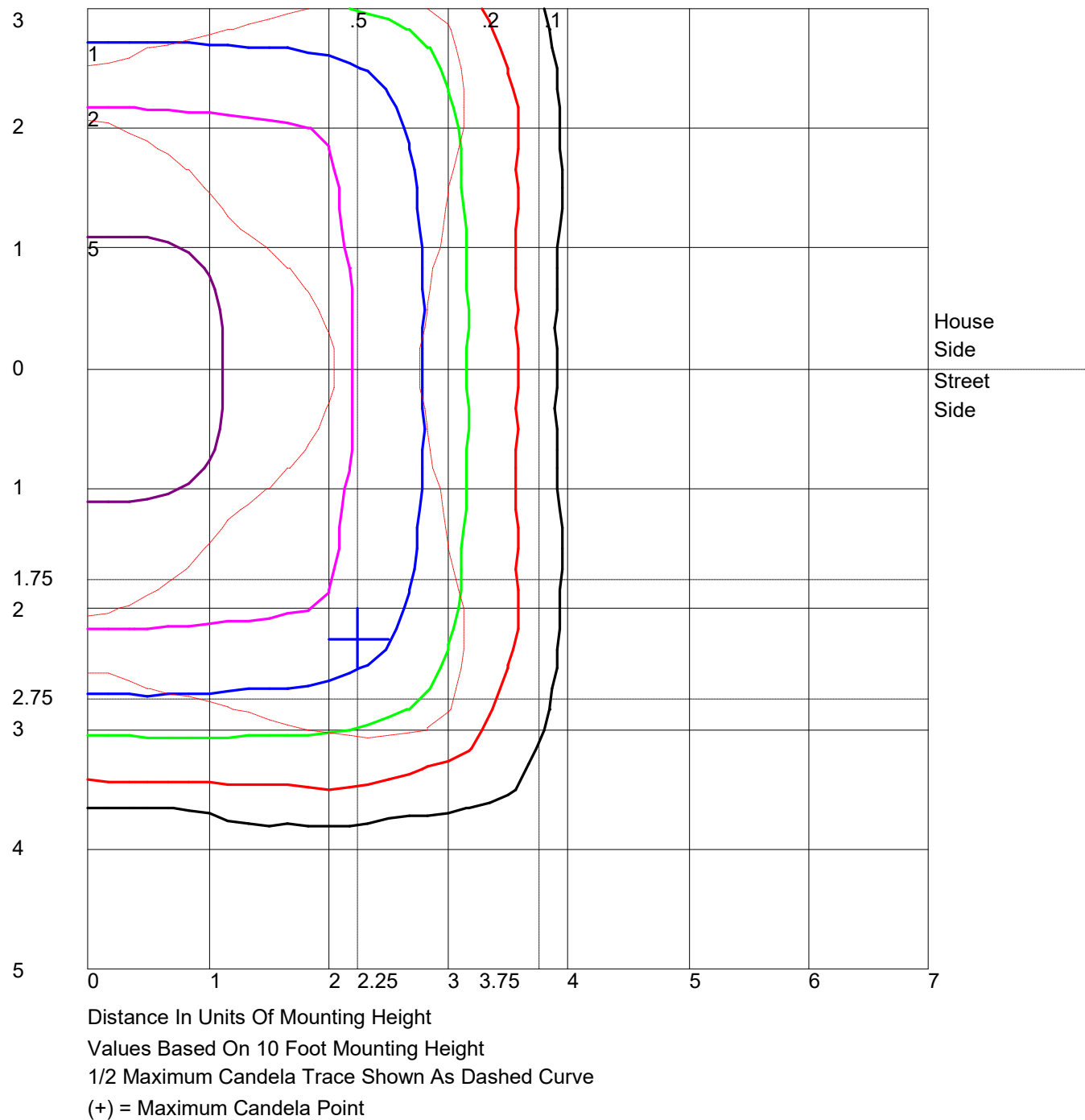
	Lumens	Percent Of Luminaire
Downward Street Side	5004.8	50.0
Downward House Side	5004.8	50.0
Downward Total	10009.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10009.6	100.0

POLAR GRAPH

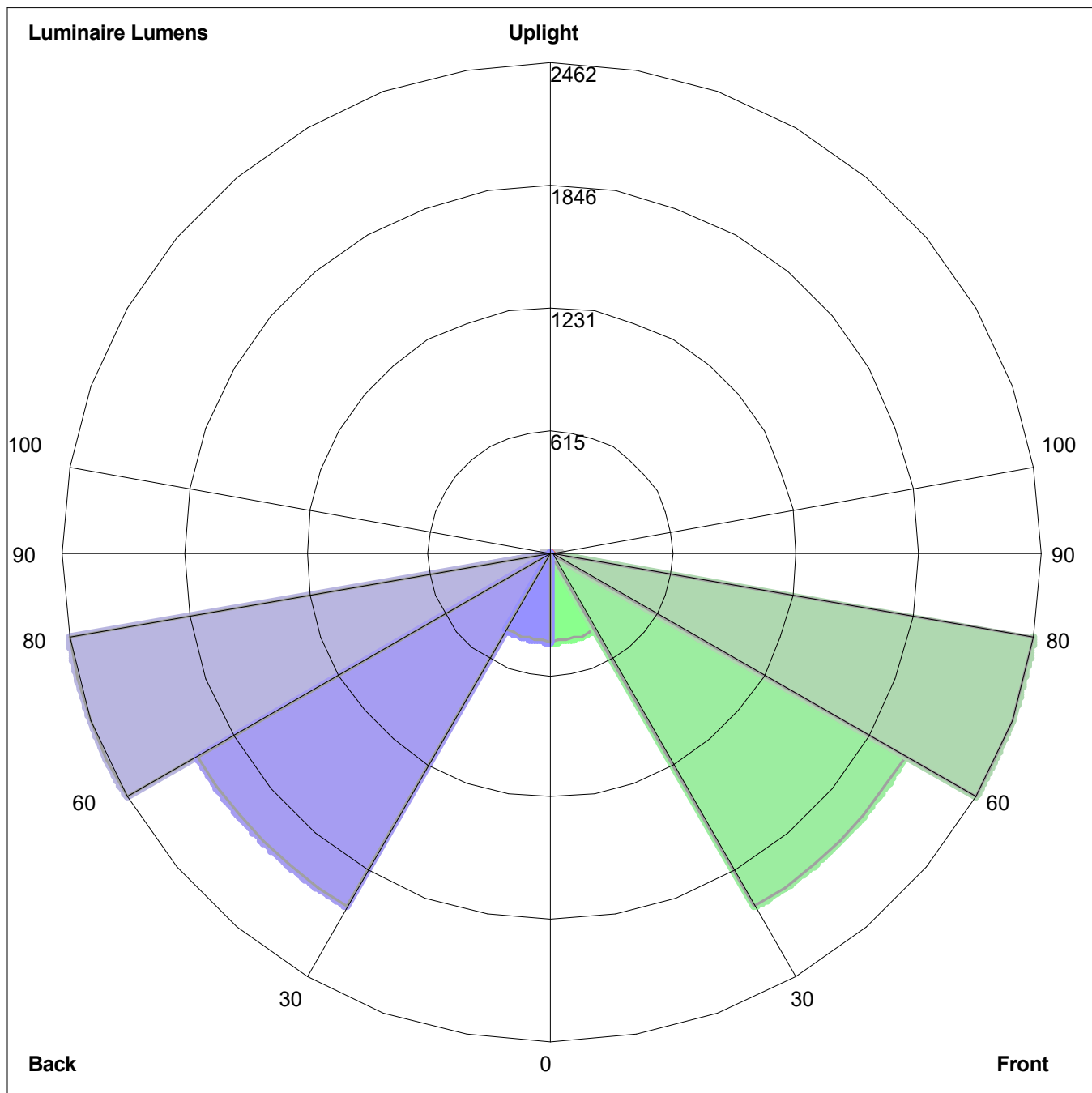


Maximum Candela = 5269 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=445.7, Medium=2052.5, High=2461.9, Very High=44.7
Back: Low=445.7, Medium=2052.5, High=2461.9, Very High=44.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2