



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-50.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-50

[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	10510
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5532
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	5532
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	734 (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)	468.0	N.A.	4.5
FM - Front-Medium (30-60)	2155.2	N.A.	20.5
FH - Front-High (60-80)	2585.0	N.A.	24.6
FVH - Front-Very High (80-90)	47.0	N.A.	0.4
BL - Back-Low (0-30)	468.0	N.A.	4.5
BM - Back-Medium (30-60)	2155.2	N.A.	20.5
BH - Back-High (60-80)	2585.0	N.A.	24.6
BVH - Back-Very High (80-90)	47.0	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	10510.4	N.A.	100.0
BUG Rating	B4-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>	<u><b>85</b></u>
<b>0.0</b>	918	918	918	918	918	918	918	918	918	918
<b>2.5</b>	922	922	920	920	922	922	922	922	920	920
<b>5.0</b>	926	926	926	926	927	927	927	927	926	926
<b>7.5</b>	934	934	934	939	939	939	941	939	937	939
<b>10.0</b>	950	950	951	953	955	955	958	955	955	955
<b>12.5</b>	972	972	974	980	980	982	982	978	978	975
<b>15.0</b>	1002	1004	1006	1011	1015	1015	1013	1009	1006	1006
<b>17.5</b>	1035	1035	1043	1050	1057	1057	1054	1045	1041	1037
<b>20.0</b>	1074	1074	1084	1095	1108	1110	1105	1088	1078	1071
<b>22.5</b>	1115	1115	1129	1149	1165	1170	1160	1141	1119	1110
<b>25.0</b>	1158	1160	1177	1205	1231	1237	1225	1196	1165	1149
<b>27.5</b>	1201	1205	1227	1266	1300	1312	1296	1257	1216	1194
<b>30.0</b>	1247	1252	1281	1331	1379	1395	1372	1321	1270	1240
<b>32.5</b>	1296	1300	1339	1396	1456	1478	1452	1389	1329	1295
<b>35.0</b>	1348	1353	1401	1469	1538	1564	1535	1464	1395	1353
<b>37.5</b>	1406	1411	1464	1543	1622	1654	1620	1542	1466	1420
<b>40.0</b>	1469	1475	1531	1624	1709	1747	1711	1630	1542	1495
<b>42.5</b>	1538	1546	1608	1707	1805	1846	1805	1717	1625	1576
<b>45.0</b>	1618	1625	1693	1793	1897	1948	1905	1806	1716	1656
<b>47.5</b>	1711	1717	1782	1883	1991	2051	2008	1905	1806	1743
<b>50.0</b>	1814	1815	1883	1988	2095	2157	2110	2010	1905	1842
<b>52.5</b>	1918	1924	1989	2099	2210	2275	2226	2125	2012	1940
<b>55.0</b>	2043	2051	2110	2220	2335	2407	2349	2246	2135	2053
<b>57.5</b>	2185	2196	2261	2369	2492	2571	2494	2386	2270	2183
<b>60.0</b>	2378	2390	2455	2554	2703	2790	2684	2564	2455	2352
<b>62.5</b>	2622	2638	2725	2853	3002	3099	2958	2811	2684	2578
<b>65.0</b>	2848	2869	3000	3201	3451	3587	3358	3144	3008	2891
<b>67.5</b>	2929	2965	3197	3568	4037	4345	3986	3620	3423	3244
<b>70.0</b>	2481	2525	2886	3587	4660	5362	4737	3989	3315	2881
<b>72.5</b>	1415	1490	1942	2758	4159	5532	4405	3086	2280	1883
<b>75.0</b>	450	464	700	1369	2782	4094	3016	1668	1006	792
<b>77.5</b>	226	227	289	484	1052	1993	1339	706	417	346
<b>80.0</b>	89	87	111	203	423	734	549	300	175	147
<b>82.5</b>	50	48	52	78	149	272	185	120	89	91
<b>85.0</b>	29	28	28	39	63	94	78	62	48	54
<b>87.5</b>	12	12	12	15	22	29	24	21	17	17
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

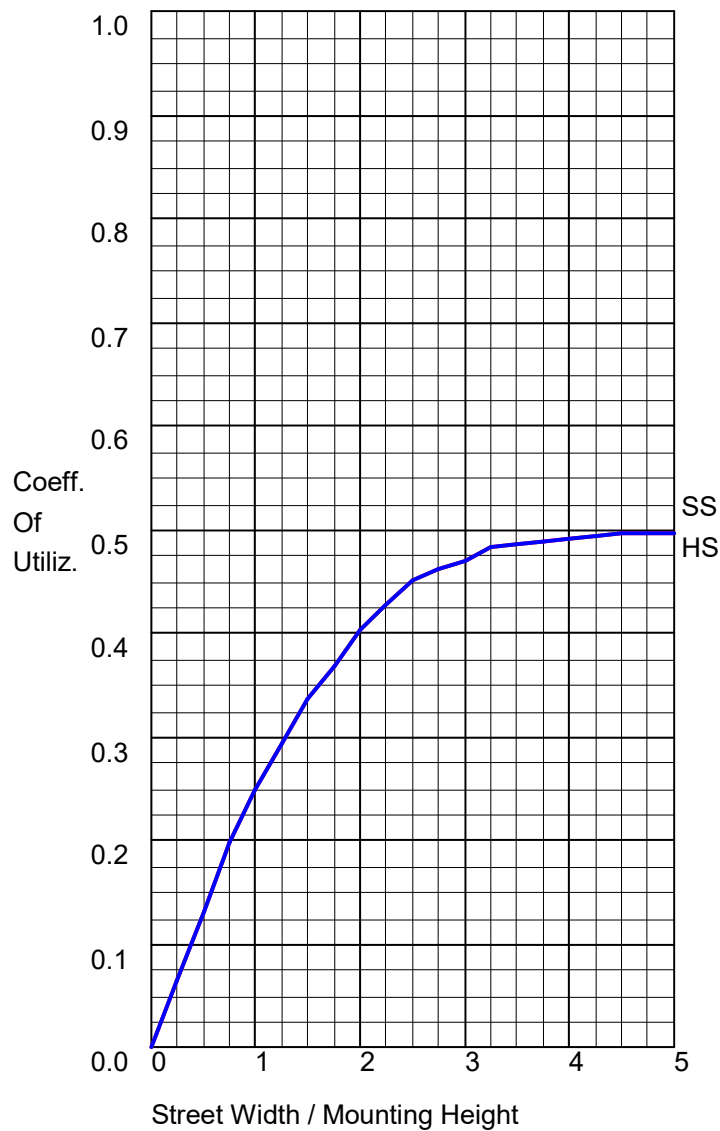
<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u><b>90</b></u>
<b>0.0</b>	918
<b>2.5</b>	920
<b>5.0</b>	926
<b>7.5</b>	937
<b>10.0</b>	953
<b>12.5</b>	978
<b>15.0</b>	1004
<b>17.5</b>	1035
<b>20.0</b>	1071
<b>22.5</b>	1108
<b>25.0</b>	1149
<b>27.5</b>	1190

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	1237
<b>32.5</b>	1288
<b>35.0</b>	1350
<b>37.5</b>	1417
<b>40.0</b>	1488
<b>42.5</b>	1572
<b>45.0</b>	1652
<b>47.5</b>	1740
<b>50.0</b>	1839
<b>52.5</b>	1937
<b>55.0</b>	2051
<b>57.5</b>	2179
<b>60.0</b>	2347
<b>62.5</b>	2583
<b>65.0</b>	2893
<b>67.5</b>	3244
<b>70.0</b>	2859
<b>72.5</b>	1855
<b>75.0</b>	787
<b>77.5</b>	330
<b>80.0</b>	149
<b>82.5</b>	93
<b>85.0</b>	50
<b>87.5</b>	15
<b>90.0</b>	0

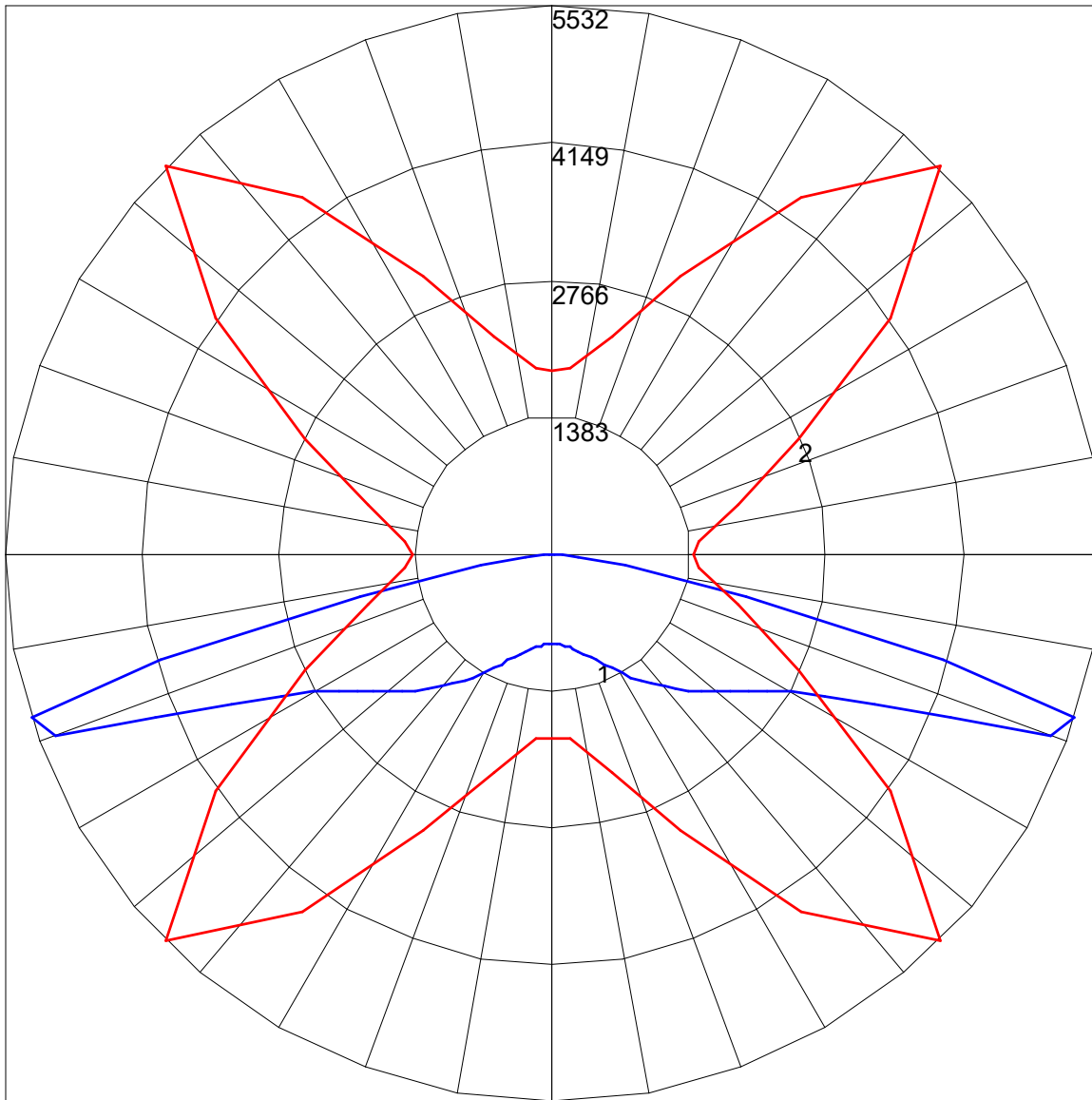
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

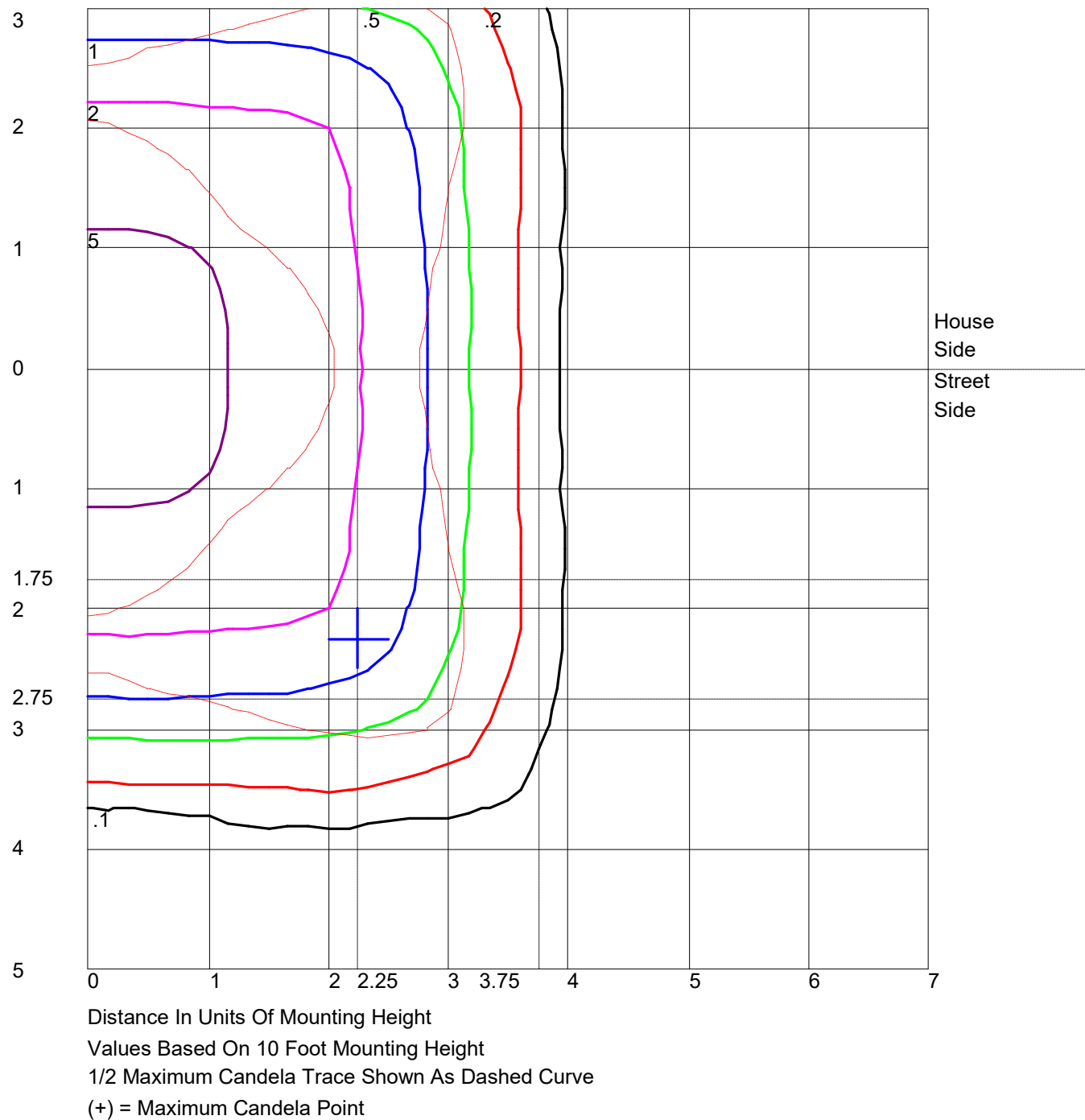
	Lumens	Percent Of Luminaire
Downward Street Side	5255.1	50.0
Downward House Side	5255.1	50.0
Downward Total	10510.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10510.2	100.0

POLAR GRAPH

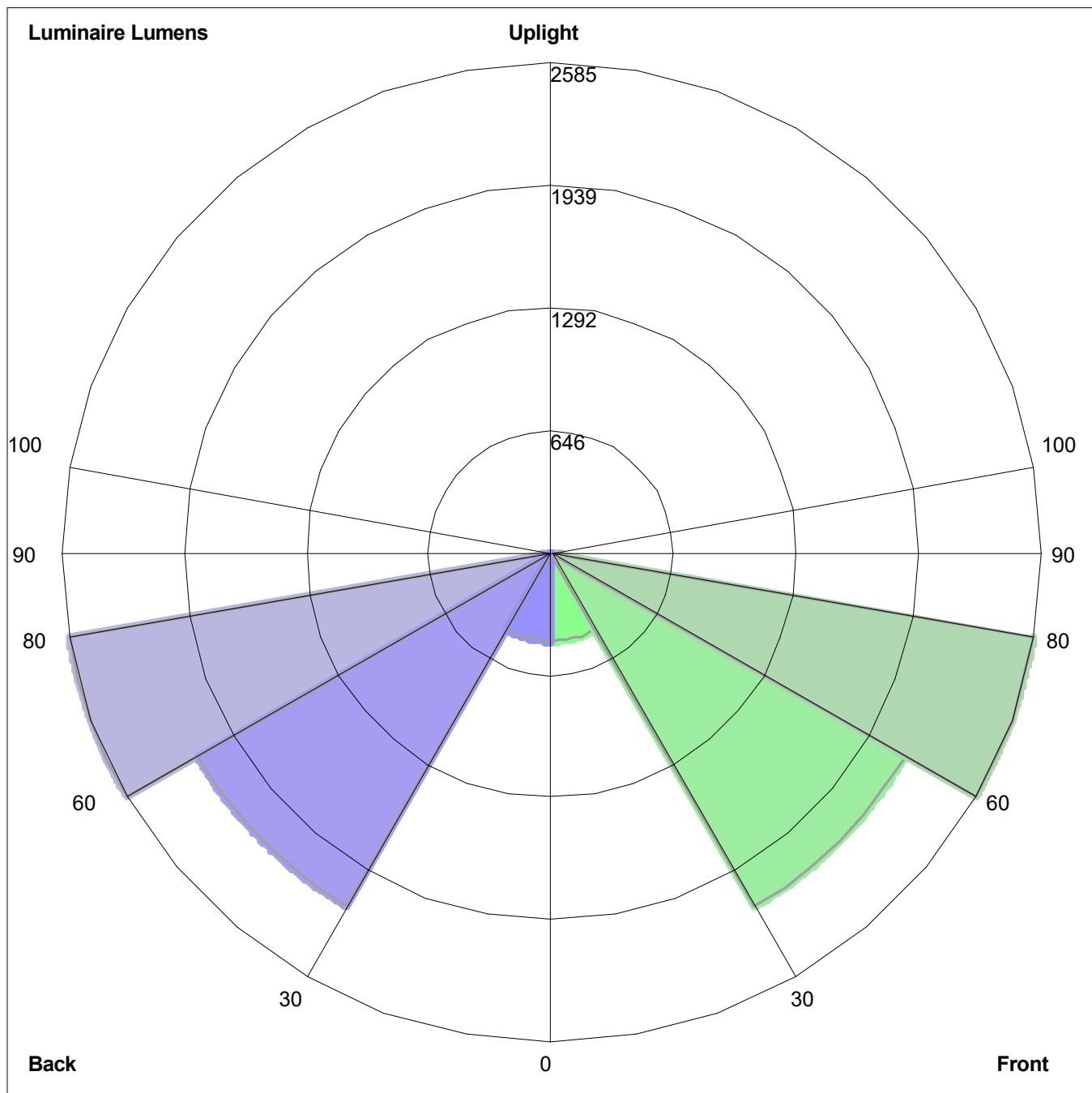


Maximum Candela = 5532 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=468.0, Medium=2155.2, High= 2585.0, Very High=47.0  
Back: Low=468.0, Medium=2155.2, High= 2585.0, Very High=47.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2