



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-18L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11790
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-18L-50-IL
[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	17810
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19155
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	19155
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	891 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	913.2	N.A.	5.1
FM - Front-Medium (30-60)	9211.8	N.A.	51.7
FH - Front-High (60-80)	5756.5	N.A.	32.3
FVH - Front-Very High (80-90)	114.7	N.A.	0.6
BL - Back-Low (0-30)	508.6	N.A.	2.9
BM - Back-Medium (30-60)	1061.2	N.A.	6.0
BH - Back-High (60-80)	231.8	N.A.	1.3
BVH - Back-Very High (80-90)	12.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	17809.9	N.A.	100.0
BUG Rating	B2-U0-G3		

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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>45.0</u>	<u>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631
2.5	1610	1612	1613	1616	1611	1614	1612	1618	1623	1624
5.0	1587	1588	1592	1598	1601	1605	1605	1613	1618	1623
7.5	1542	1547	1556	1564	1581	1596	1599	1609	1619	1626
10.0	1510	1516	1528	1542	1560	1579	1595	1605	1627	1634
12.5	1505	1510	1520	1542	1562	1590	1608	1617	1648	1656
15.0	1536	1538	1553	1585	1618	1643	1660	1668	1687	1690
17.5	1625	1636	1650	1684	1728	1744	1763	1767	1768	1758
20.0	1801	1814	1825	1855	1896	1923	1934	1935	1917	1881
22.5	2077	2091	2115	2121	2161	2208	2203	2200	2165	2103
25.0	2424	2457	2473	2501	2550	2608	2597	2587	2537	2412
27.5	2874	2903	2937	2971	3044	3133	3137	3091	3015	2792
30.0	3343	3373	3433	3490	3624	3719	3721	3698	3541	3214
32.5	3815	3807	3899	4015	4218	4338	4334	4305	4074	3655
35.0	4292	4299	4387	4575	4804	4963	4960	4907	4633	4078
37.5	4852	4876	4973	5183	5396	5584	5582	5502	5143	4446
40.0	5552	5587	5672	5862	6025	6221	6190	6075	5585	4747
42.5	6396	6432	6527	6693	6834	6872	6800	6646	5967	5040
45.0	7489	7532	7604	7744	7765	7601	7407	7199	6343	5340
47.5	8853	8974	9180	9153	9021	8640	8120	7842	6777	5774
50.0	10128	10311	10562	10712	10512	9856	9079	8725	7409	6671
52.5	11112	11215	11969	12667	12513	11405	10438	9970	8651	7961
55.0	11686	11861	12703	13965	14251	13373	12484	12024	10535	9447
57.5	10667	10815	12298	14307	15577	15293	15013	14741	13195	10303
60.0	8084	8326	10034	12952	15836	17038	17694	17606	14642	10759
62.5	4648	4903	6530	9647	14245	17670	19155	19081	15378	10962
65.0	1911	2079	3041	5715	10676	16274	18857	19082	15506	10170
67.5	1044	1093	1458	2667	6928	12574	16755	17492	14106	7947
70.0	643	676	843	1505	3511	8025	12699	13943	10584	5454
72.5	446	464	584	1013	2024	4140	7379	8484	6685	2383
75.0	302	315	414	797	1464	2074	3284	4072	2874	933
77.5	214	222	300	632	1180	1234	1340	1570	1393	501
80.0	163	172	232	490	891	776	645	655	692	311
82.5	125	135	189	395	588	466	338	333	352	230
85.0	94	99	148	304	378	240	182	183	187	155
87.5	61	66	103	192	143	84	70	67	67	70
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	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631
2.5	1632	1641	1641	1641	1652	1658	1654	1655	1650	1650
5.0	1641	1645	1655	1655	1676	1692	1695	1696	1701	1701
7.5	1647	1652	1665	1675	1699	1723	1724	1716	1711	1701
10.0	1652	1662	1678	1694	1724	1738	1706	1636	1557	1489
12.5	1659	1665	1689	1710	1731	1697	1555	1380	1238	1122
15.0	1680	1684	1701	1722	1714	1542	1283	1083	959	885
17.5	1728	1711	1724	1732	1636	1319	1034	907	822	770
20.0	1822	1784	1769	1747	1491	1109	900	811	753	701
22.5	1983	1913	1850	1745	1318	990	823	756	727	658
25.0	2200	2063	1957	1700	1168	920	769	724	743	685
27.5	2443	2238	2072	1613	1073	866	731	714	818	795

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CANDELA TABULATION - (Cont.)

30.0	2708	2429	2183	1509	1000	825	697	731	951	958
32.5	2982	2612	2283	1417	918	797	678	758	1101	1101
35.0	3240	2774	2359	1347	853	774	652	764	1269	1238
37.5	3448	2900	2416	1270	792	742	625	748	1436	1451
40.0	3620	3006	2458	1196	738	694	592	710	1599	1491
42.5	3825	3128	2496	1150	695	649	554	645	1664	1088
45.0	4101	3355	2612	1164	656	603	504	573	1359	753
47.5	4700	3763	2824	1215	621	547	442	485	752	554
50.0	5504	4311	3061	1262	564	449	356	403	415	435
52.5	6441	4868	3290	1299	471	313	246	282	272	361
55.0	7062	5164	3341	1265	348	208	175	185	189	298
57.5	7430	5235	3212	1131	254	166	139	131	143	244
60.0	7681	5089	2808	947	217	147	114	102	112	203
62.5	7419	4432	2046	721	197	132	99	81	92	174
65.0	6267	3550	1431	512	174	114	84	66	76	147
67.5	4564	2550	903	328	140	89	64	52	56	124
70.0	2391	1311	487	203	101	65	44	38	39	99
72.5	890	566	281	143	71	45	29	25	24	71
75.0	436	329	215	120	52	30	19	16	13	47
77.5	249	216	175	106	40	22	12	12	7	30
80.0	187	165	148	91	29	14	9	8	6	19
82.5	135	122	120	70	19	12	9	6	5	12
85.0	86	81	86	43	12	9	9	6	4	6
87.5	40	34	42	18	8	8	7	6	4	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

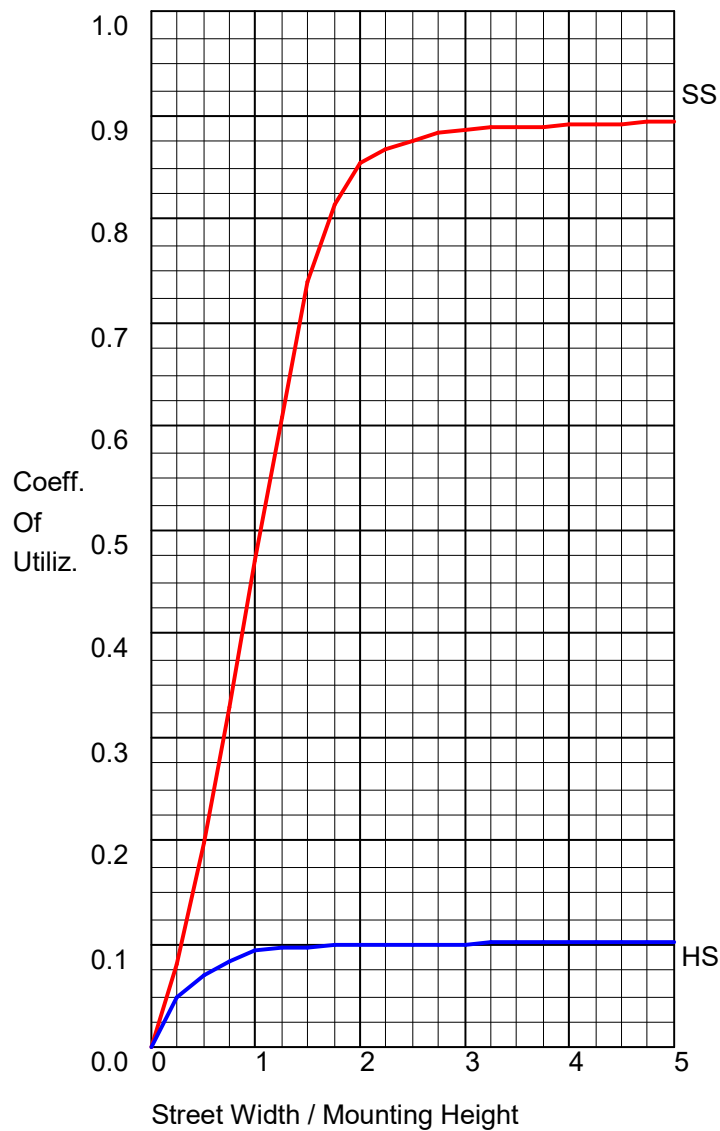
	<u>175.0</u>	<u>180.0</u>
0.0	1631	1631
2.5	1642	1652
5.0	1687	1696
7.5	1679	1673
10.0	1440	1413
12.5	1068	1055
15.0	850	843
17.5	740	737
20.0	668	665
22.5	616	611
25.0	616	607
27.5	671	650
30.0	766	724
32.5	813	762
35.0	886	832
37.5	886	794
40.0	681	596
42.5	484	428
45.0	371	336
47.5	308	272
50.0	274	228
52.5	255	196
55.0	244	183
57.5	246	188
60.0	255	207
62.5	264	228
65.0	264	245

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CANDELA TABULATION - (Cont.)

67.5	251	239
70.0	218	212
72.5	174	172
75.0	125	128
77.5	86	96
80.0	61	67
82.5	42	45
85.0	25	28
87.5	14	15
90.0	0	0

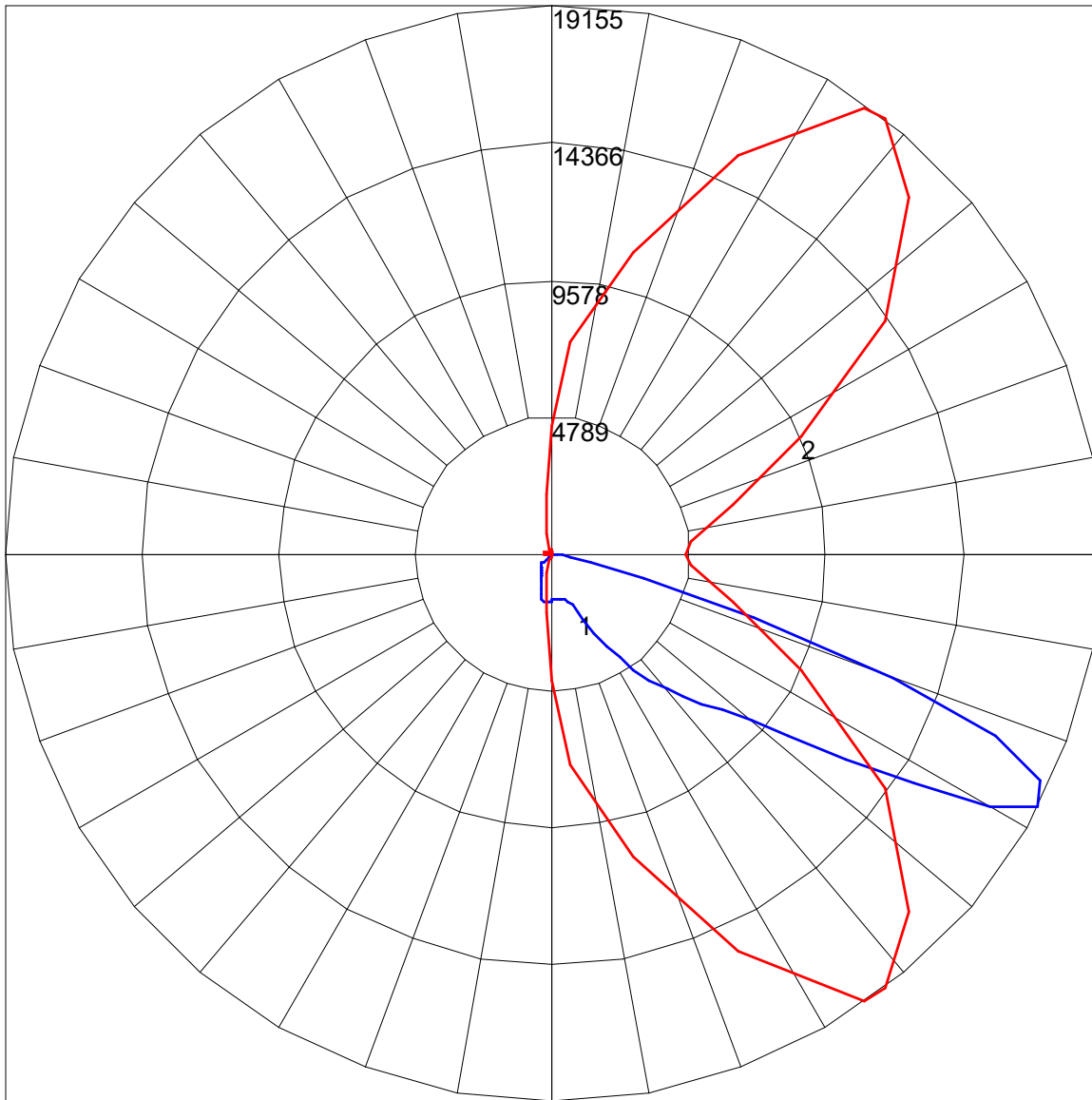
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

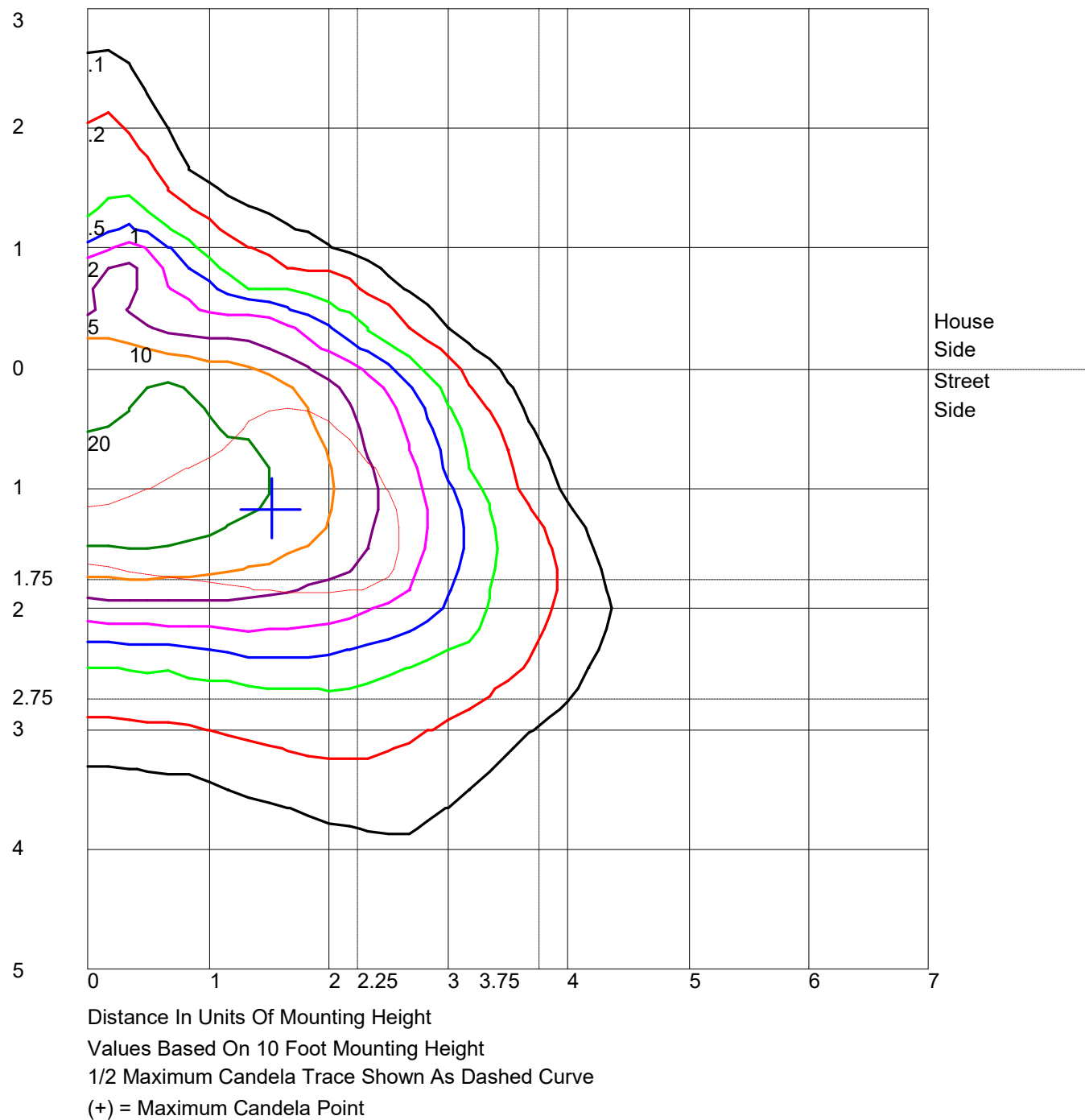
	Lumens	Percent Of Luminaire
Downward Street Side	15996.2	89.8
Downward House Side	1813.7	10.2
Downward Total	17809.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17809.9	100.0

POLAR GRAPH

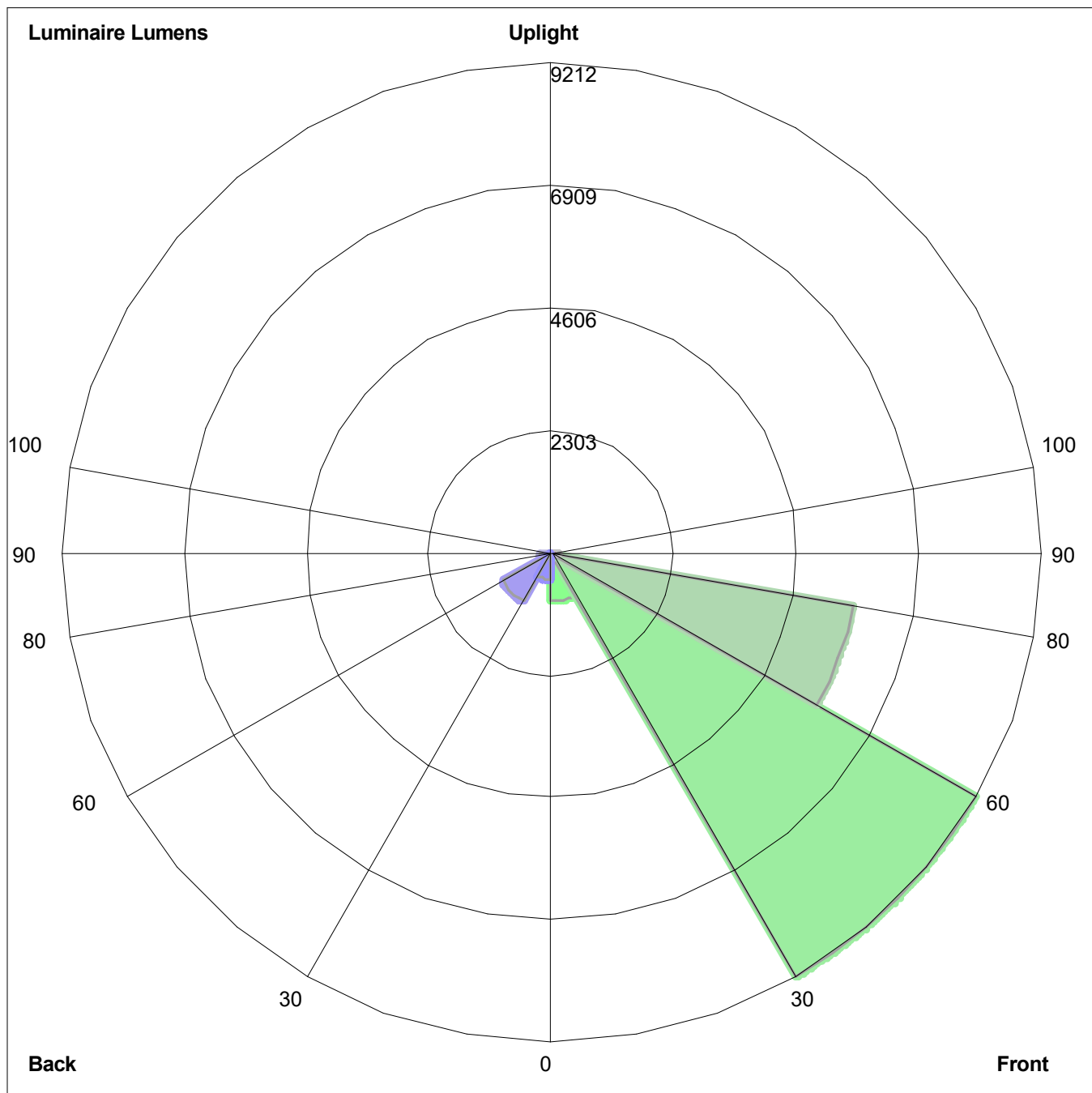


Maximum Candela = 19155 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=913.2, Medium=9211.8, High=5756.5, Very High=114.7
Back: Low=508.6, Medium=1061.2, High=231.8, Very High=12.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3