



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-18L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11801
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/05/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-3-LED-18L-30
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18806
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	149.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19283
Maximum Candela Angle	55H 65V
Maximum Candela (<90 Degrees Vertical)	19283
Maximum Candela Angle (<90 Degrees Vertical)	55H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1005 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	786.6	N.A.	4.2
FM - Front-Medium (30-60)	8188.9	N.A.	43.5
FH - Front-High (60-80)	5684.3	N.A.	30.2
FVH - Front-Very High (80-90)	131.5	N.A.	0.7
BL - Back-Low (0-30)	727.7	N.A.	3.9
BM - Back-Medium (30-60)	2234.0	N.A.	11.9
BH - Back-High (60-80)	967.2	N.A.	5.1
BVH - Back-Very High (80-90)	85.9	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18806.1	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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468
2.5	1436	1442	1443	1446	1452	1453	1455	1456	1459	1462
5.0	1408	1412	1417	1422	1433	1437	1442	1444	1454	1457
7.5	1366	1372	1377	1388	1403	1420	1431	1435	1450	1454
10.0	1323	1332	1338	1352	1377	1396	1421	1425	1447	1457
12.5	1295	1302	1312	1330	1361	1386	1418	1424	1448	1460
15.0	1297	1303	1314	1335	1369	1405	1434	1443	1460	1473
17.5	1345	1350	1367	1396	1432	1466	1492	1507	1517	1512
20.0	1471	1477	1501	1533	1569	1600	1633	1636	1637	1611
22.5	1730	1752	1755	1782	1810	1834	1859	1858	1839	1771
25.0	2096	2118	2128	2158	2182	2191	2204	2194	2147	2025
27.5	2621	2587	2596	2626	2662	2714	2647	2626	2560	2379
30.0	3091	3066	3092	3141	3202	3255	3152	3122	3024	2771
32.5	3484	3498	3536	3649	3757	3841	3696	3641	3486	3161
35.0	3857	3878	3933	4115	4299	4426	4256	4150	3906	3501
37.5	4257	4284	4387	4574	4855	4976	4762	4637	4288	3807
40.0	4757	4786	4884	5103	5366	5499	5233	5105	4672	4078
42.5	5478	5506	5576	5732	5919	6014	5670	5554	5028	4325
45.0	6500	6526	6557	6686	6652	6579	6126	5993	5371	4602
47.5	8021	8006	8111	8082	7786	7295	6662	6460	5731	4911
50.0	9989	10058	10135	10058	9380	8333	7296	7035	6175	5320
52.5	11583	11664	12051	12332	11525	9902	8176	7825	6819	5975
55.0	12064	12082	12755	13761	13754	11928	9488	8965	7850	7122
57.5	11105	11205	12352	13686	15131	14201	11415	10815	9573	8853
60.0	7883	8061	9823	12582	15199	16038	14763	14314	12486	10709
62.5	4129	4253	5514	9041	13428	16609	18275	18146	15072	11555
65.0	2019	2079	2683	4724	9931	15494	19283	19272	16166	11397
67.5	1201	1231	1487	2311	5753	11970	17785	18068	15496	9473
70.0	762	778	906	1414	2872	7240	13641	14179	11968	5227
72.5	487	498	649	981	1831	3828	8314	8949	6092	2093
75.0	336	355	475	802	1395	1933	3896	4138	2720	906
77.5	250	263	350	676	1209	1239	1692	1953	1283	430
80.0	176	183	271	568	1005	889	769	797	580	290
82.5	117	127	205	402	765	569	480	521	392	214
85.0	91	96	149	303	417	314	239	256	225	137
87.5	85	93	106	216	241	102	97	90	87	71
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	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468
2.5	1470	1476	1477	1479	1486	1496	1497	1495	1500	1499
5.0	1473	1485	1488	1501	1514	1533	1541	1543	1551	1553
7.5	1473	1488	1500	1522	1541	1569	1587	1603	1615	1624
10.0	1475	1487	1508	1537	1568	1606	1636	1653	1670	1677
12.5	1478	1489	1514	1546	1589	1641	1677	1697	1718	1723
15.0	1485	1494	1515	1552	1610	1668	1711	1732	1756	1762
17.5	1512	1514	1525	1564	1625	1692	1742	1763	1785	1790
20.0	1572	1553	1554	1579	1640	1715	1763	1786	1809	1809
22.5	1687	1645	1615	1601	1653	1738	1785	1810	1834	1831
25.0	1868	1783	1713	1631	1668	1768	1809	1836	1862	1866
27.5	2134	1979	1844	1659	1678	1805	1846	1870	1904	1923

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CANDELA TABULATION - (Cont.)

30.0	2389	2176	1975	1679	1679	1833	1877	1915	1989	2024
32.5	2626	2340	2082	1679	1670	1848	1896	1972	2113	2212
35.0	2830	2471	2158	1667	1651	1845	1904	2040	2261	2429
37.5	3012	2584	2209	1638	1619	1834	1900	2050	2389	2579
40.0	3192	2689	2247	1603	1572	1798	1870	2016	2563	2720
42.5	3361	2784	2275	1566	1517	1745	1817	1963	2786	2659
45.0	3554	2897	2319	1533	1459	1683	1763	1914	3012	2512
47.5	3809	3069	2404	1518	1411	1619	1710	1849	3026	2427
50.0	4204	3378	2580	1533	1367	1559	1652	1819	2858	2366
52.5	4771	3804	2803	1567	1321	1488	1583	1744	2573	2293
55.0	5706	4454	3124	1602	1259	1401	1501	1639	2212	2203
57.5	6980	5224	3383	1591	1178	1287	1392	1527	1859	2083
60.0	8022	5532	3121	1449	1075	1147	1269	1395	1526	1985
62.5	8395	5250	2522	1231	961	1006	1134	1244	1312	1882
65.0	7682	4267	1695	968	851	893	998	1140	1170	1719
67.5	5156	2688	1074	768	743	792	872	1052	1078	1484
70.0	2073	1209	643	605	630	673	759	957	969	1236
72.5	917	576	418	474	530	578	660	856	847	1032
75.0	395	319	306	395	447	499	575	731	670	755
77.5	234	210	243	346	382	432	481	393	336	428
80.0	173	166	210	296	314	319	279	293	250	313
82.5	123	123	169	253	243	187	179	210	160	236
85.0	78	81	131	192	137	121	120	99	77	144
87.5	38	38	82	107	73	59	38	48	35	64
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

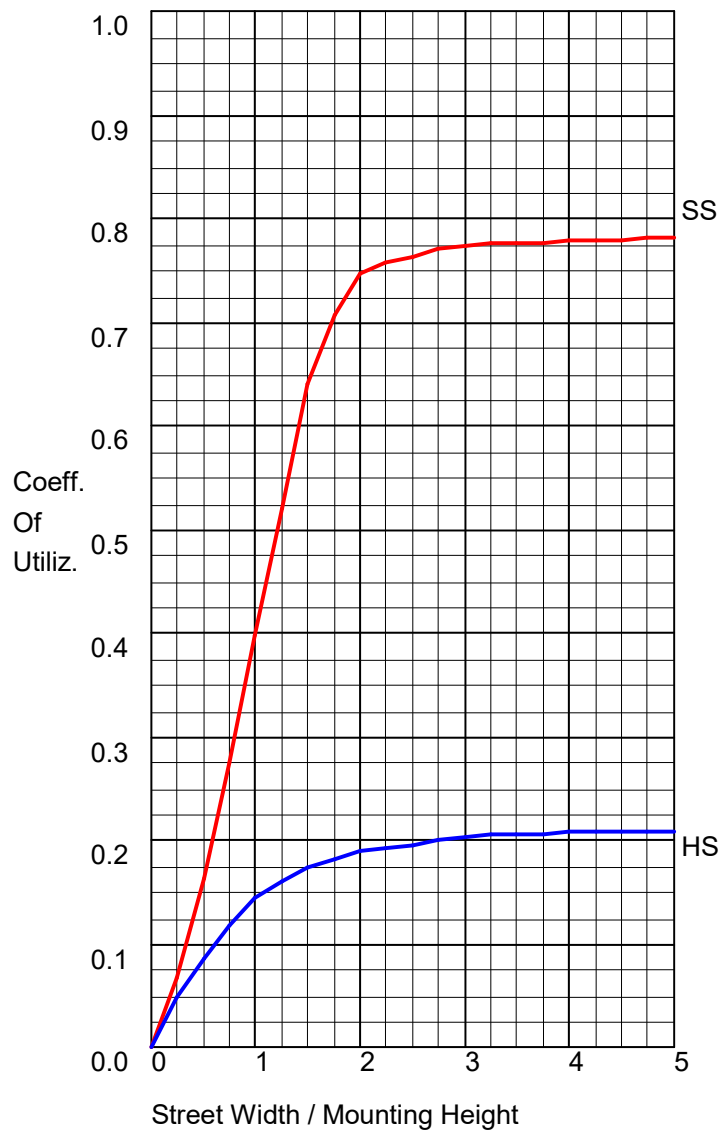
	<u>175.0</u>	<u>180.0</u>
0.0	1468	1468
2.5	1496	1493
5.0	1550	1548
7.5	1621	1625
10.0	1678	1681
12.5	1725	1731
15.0	1766	1762
17.5	1792	1794
20.0	1812	1815
22.5	1828	1832
25.0	1864	1860
27.5	1923	1921
30.0	2022	2029
32.5	2208	2209
35.0	2397	2380
37.5	2359	2318
40.0	2176	2121
42.5	1923	1840
45.0	1761	1679
47.5	1644	1567
50.0	1557	1479
52.5	1485	1390
55.0	1427	1300
57.5	1384	1224
60.0	1431	1209
62.5	1556	1309
65.0	1698	1457

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CANDELA TABULATION - (Cont.)

67.5	1774	1649
70.0	1750	1818
72.5	1494	1696
75.0	1086	1380
77.5	868	1031
80.0	625	694
82.5	436	436
85.0	304	297
87.5	333	447
90.0	0	0

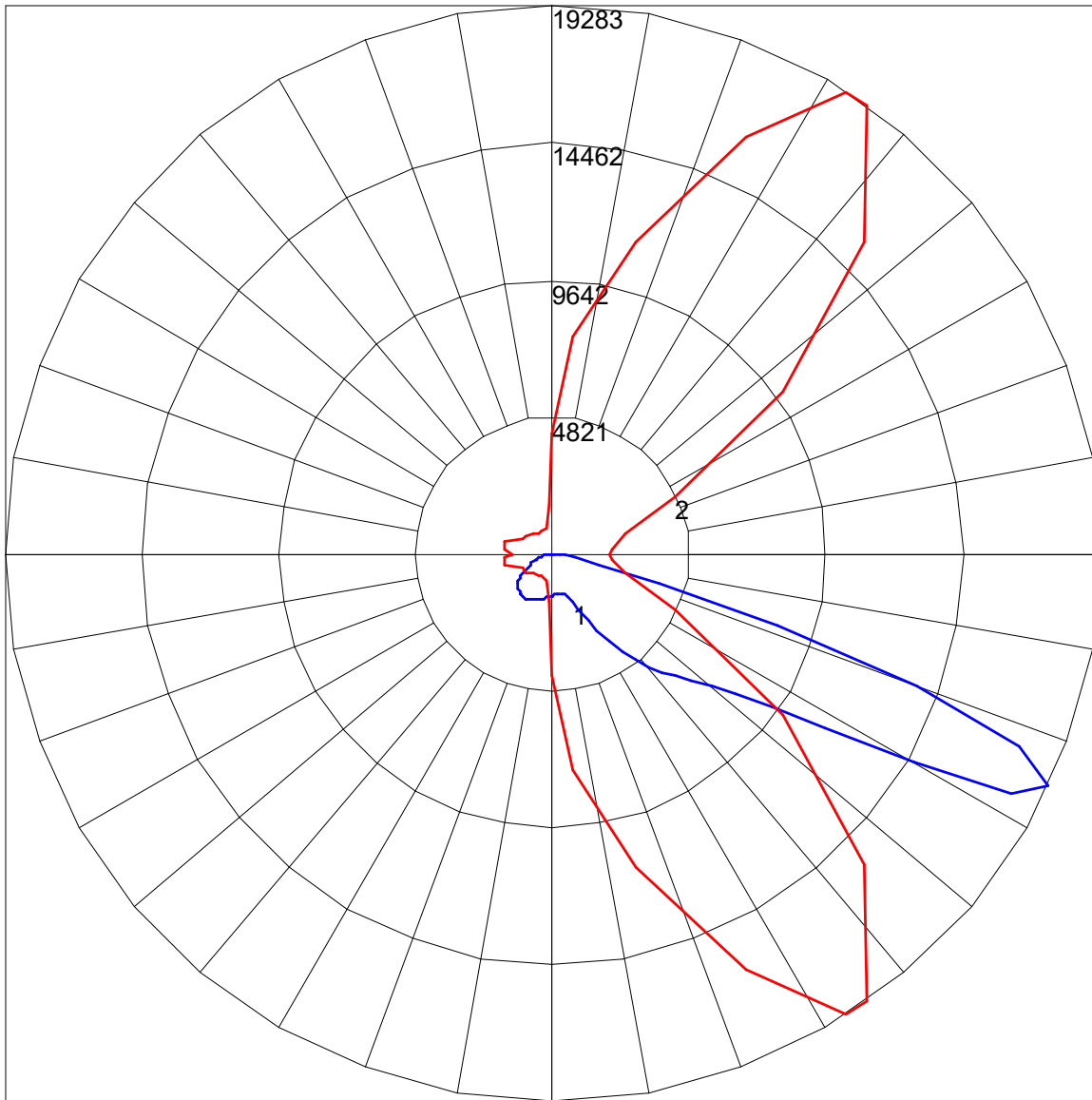
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

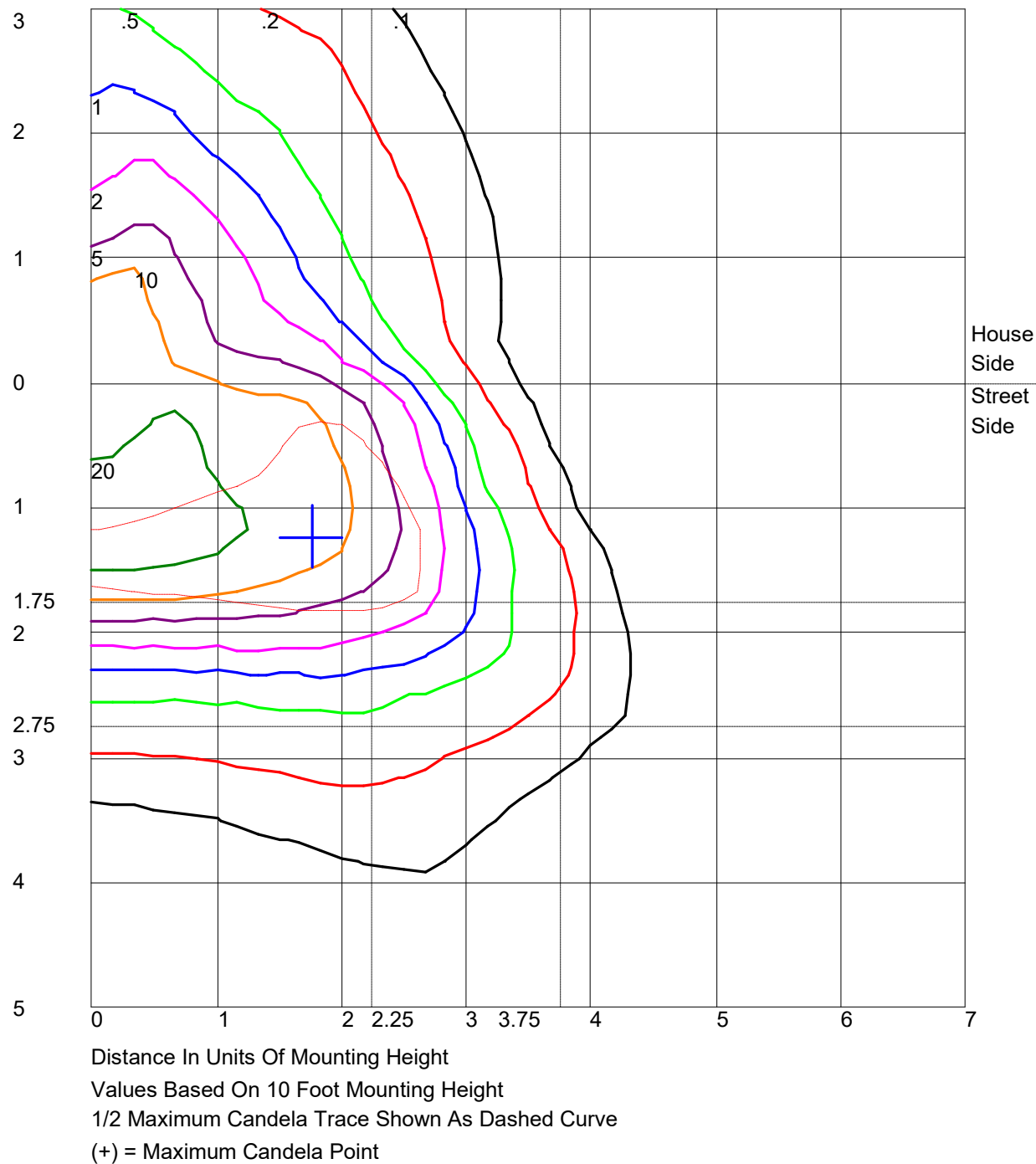
	Lumens	Percent Of Luminaire
Downward Street Side	14791.3	78.7
Downward House Side	4014.7	21.3
Downward Total	18806.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18806.0	100.0

POLAR GRAPH

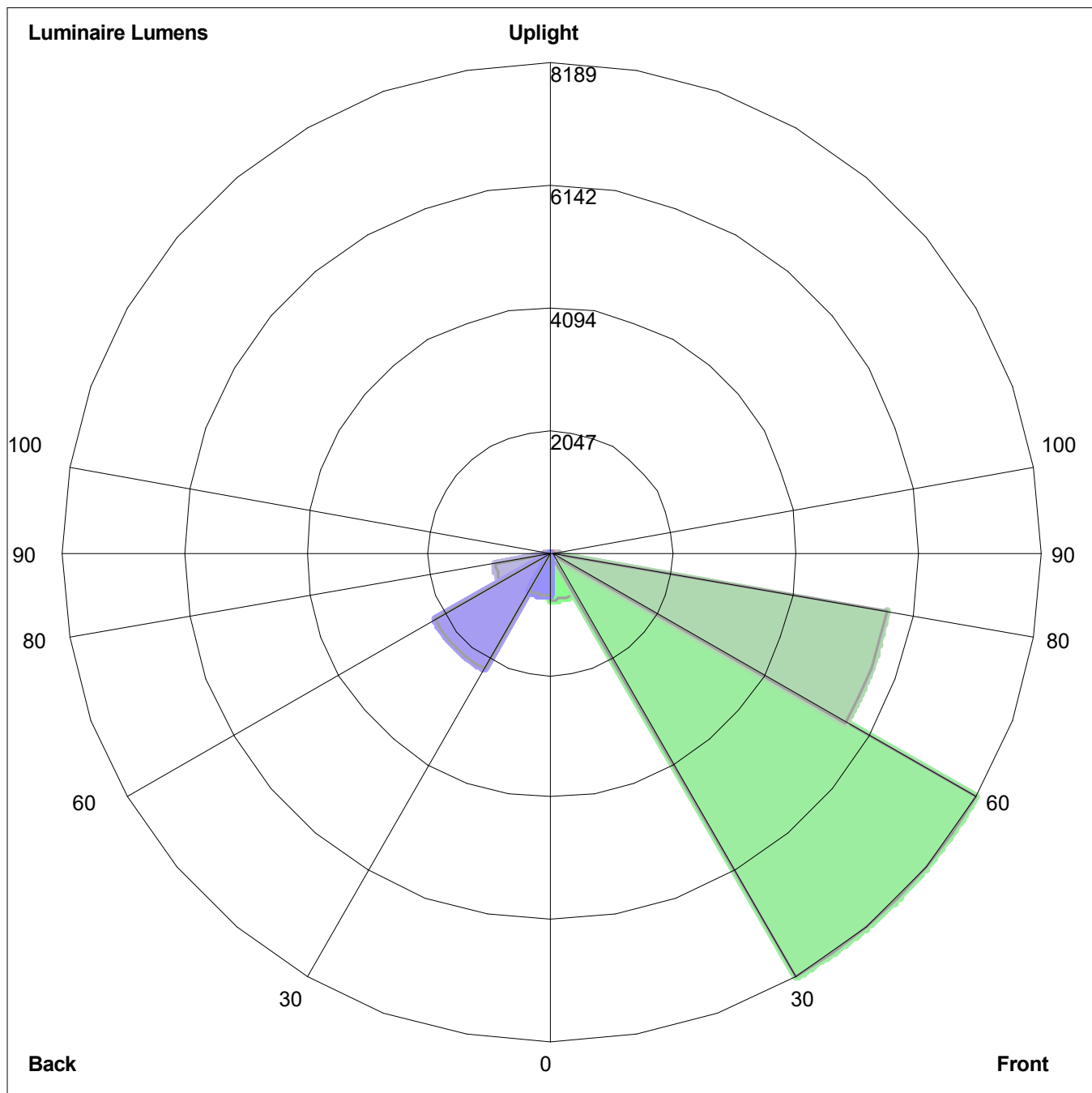


Maximum Candela = 19283 Located At Horizontal Angle = 55, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=786.6, Medium=8188.9, High=5684.3, Very High=131.5
Back: Low=727.7, Medium= 2234.0, High=967.2, Very High=85.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3