



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-10L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11796
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/04/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-LED-10L-40
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11350
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7435
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	7435
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2183 (19.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	746.1	N.A.	6.6
FM - Front-Medium (30-60)	3400.0	N.A.	30.0
FH - Front-High (60-80)	4020.5	N.A.	35.4
FVH - Front-Very High (80-90)	219.4	N.A.	1.9
BL - Back-Low (0-30)	681.8	N.A.	6.0
BM - Back-Medium (30-60)	1588.7	N.A.	14.0
BH - Back-High (60-80)	642.4	N.A.	5.7
BVH - Back-Very High (80-90)	50.7	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	11349.6	N.A.	100.0
BUG Rating	B2-U0-G2		

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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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1559	1559	1559	1559	1559	1559	1559	1559	1559	1559
2.5	1555	1558	1560	1564	1566	1565	1567	1570	1566	1565
5.0	1553	1553	1557	1563	1570	1574	1574	1580	1580	1581
7.5	1527	1529	1536	1546	1562	1573	1577	1594	1602	1609
10.0	1516	1520	1529	1542	1562	1577	1582	1610	1633	1647
12.5	1522	1523	1535	1551	1574	1594	1602	1636	1665	1694
15.0	1547	1552	1561	1580	1606	1630	1638	1673	1709	1749
17.5	1593	1598	1608	1627	1653	1674	1683	1719	1751	1797
20.0	1661	1663	1674	1691	1715	1735	1738	1765	1797	1833
22.5	1738	1742	1750	1765	1784	1797	1804	1822	1835	1870
25.0	1834	1836	1841	1854	1863	1871	1870	1873	1877	1899
27.5	1935	1945	1943	1950	1954	1950	1944	1930	1916	1925
30.0	2052	2059	2057	2059	2055	2037	2027	1994	1958	1945
32.5	2163	2170	2174	2173	2157	2133	2123	2067	2003	1965
35.0	2284	2295	2295	2291	2276	2242	2234	2152	2055	1989
37.5	2414	2418	2429	2422	2404	2372	2359	2261	2122	2018
40.0	2554	2564	2568	2575	2548	2519	2506	2388	2205	2066
42.5	2735	2733	2741	2745	2733	2693	2683	2553	2319	2133
45.0	2909	2909	2925	2940	2936	2896	2887	2749	2465	2241
47.5	3098	3099	3127	3164	3180	3153	3132	2999	2673	2393
50.0	3300	3300	3344	3409	3447	3435	3429	3308	2936	2593
52.5	3489	3494	3565	3676	3745	3761	3764	3675	3268	2856
55.0	3656	3671	3759	3931	4067	4116	4138	4105	3680	3174
57.5	3802	3814	3936	4174	4409	4536	4583	4638	4146	3551
60.0	3953	3961	4112	4422	4756	5001	5077	5224	4668	3905
62.5	4161	4175	4365	4732	5166	5525	5645	5852	5168	4193
65.0	4442	4473	4710	5145	5707	6112	6256	6419	5537	4198
67.5	4548	4582	4962	5645	6380	6798	6919	6761	5450	3723
70.0	4201	4264	4780	5917	7055	7431	7435	6535	4668	2619
72.5	3284	3386	3985	5354	7146	7328	7125	5535	3166	1412
75.0	1942	1976	2672	3998	5831	6059	5848	3755	1726	936
77.5	896	932	1349	2366	3656	4098	3925	2222	1160	616
80.0	441	477	820	1297	1891	2183	2116	1410	728	383
82.5	277	289	541	829	927	1252	1201	749	428	219
85.0	209	221	385	531	641	619	539	345	215	118
87.5	135	152	259	297	378	171	114	107	66	49
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	1559	1559	1559	1559	1559	1559	1559	1559	1559	1559
2.5	1564	1571	1572	1562	1566	1566	1562	1557	1561	1552
5.0	1583	1583	1585	1575	1573	1568	1550	1539	1530	1524
7.5	1612	1611	1611	1596	1577	1553	1537	1532	1534	1530
10.0	1649	1649	1643	1618	1578	1558	1551	1553	1560	1557
12.5	1699	1694	1687	1640	1585	1570	1572	1572	1576	1577
15.0	1756	1745	1730	1660	1598	1588	1588	1586	1593	1588
17.5	1807	1795	1774	1679	1613	1606	1596	1597	1595	1596
20.0	1854	1841	1816	1695	1626	1609	1605	1597	1596	1593
22.5	1893	1883	1851	1704	1634	1612	1606	1594	1592	1587
25.0	1919	1913	1879	1706	1635	1613	1598	1585	1584	1579
27.5	1938	1930	1898	1704	1623	1604	1586	1575	1572	1569

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CANDELA TABULATION - (Cont.)

30.0	1945	1938	1903	1686	1605	1587	1569	1556	1554	1559
32.5	1948	1937	1899	1661	1580	1567	1546	1531	1537	1542
35.0	1947	1925	1889	1633	1553	1537	1517	1501	1515	1527
37.5	1944	1915	1876	1601	1513	1502	1480	1470	1489	1509
40.0	1956	1908	1859	1561	1477	1460	1441	1428	1468	1502
42.5	1987	1917	1853	1523	1423	1417	1391	1388	1447	1469
45.0	2044	1943	1853	1484	1368	1362	1334	1342	1445	1367
47.5	2132	1996	1878	1449	1306	1307	1278	1299	1382	1256
50.0	2265	2085	1930	1428	1227	1242	1213	1261	1285	1163
52.5	2447	2206	1999	1415	1151	1169	1141	1215	1182	1076
55.0	2661	2350	2088	1412	1072	1091	1072	1145	1087	995
57.5	2893	2504	2183	1410	994	1019	1000	1062	979	881
60.0	3118	2637	2182	1396	919	947	932	961	861	800
62.5	3200	2608	1990	1347	844	871	855	859	756	727
65.0	2996	2326	1575	1221	759	787	767	786	674	665
67.5	2384	1749	1048	984	668	695	692	723	608	622
70.0	1360	986	650	698	568	598	623	652	549	581
72.5	747	575	450	505	454	501	547	570	486	495
75.0	516	377	295	362	348	399	456	458	326	317
77.5	315	232	194	252	265	316	338	271	237	257
80.0	171	132	134	183	205	231	205	206	186	203
82.5	110	87	89	133	153	134	143	156	126	151
85.0	65	45	49	85	78	82	94	87	59	95
87.5	23	11	16	29	34	34	32	32	25	38
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

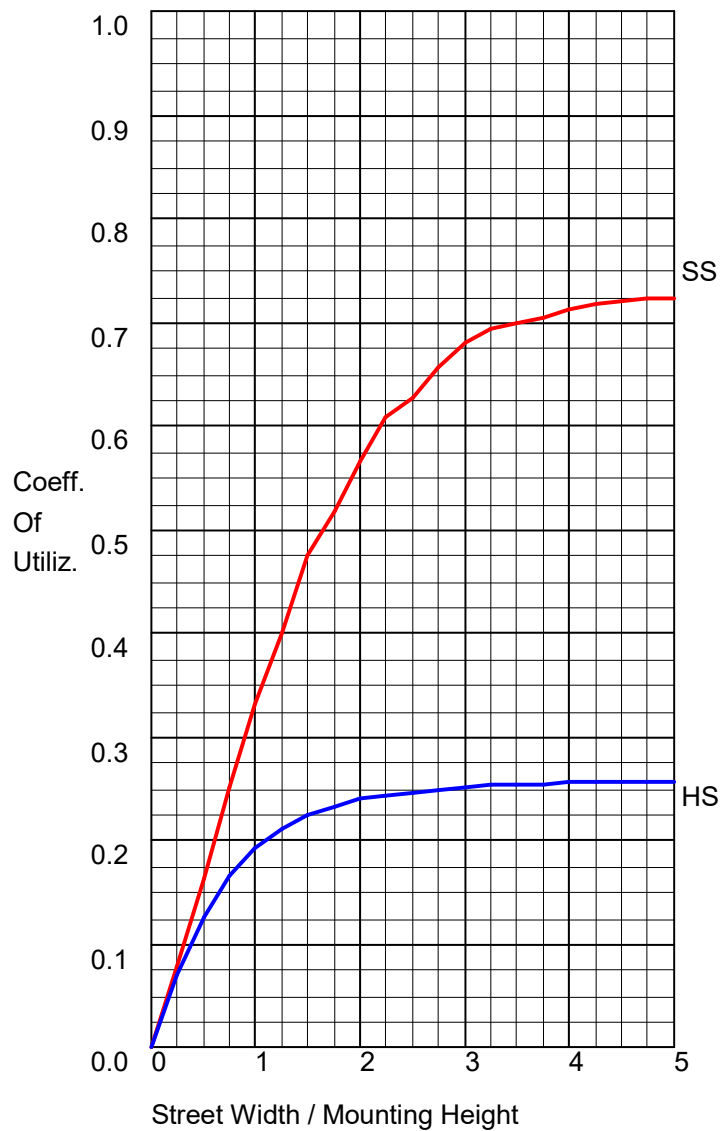
	<u>175.0</u>	<u>180.0</u>
0.0	1559	1559
2.5	1553	1551
5.0	1520	1519
7.5	1529	1528
10.0	1558	1557
12.5	1573	1572
15.0	1589	1589
17.5	1590	1591
20.0	1591	1590
22.5	1586	1586
25.0	1579	1578
27.5	1570	1567
30.0	1560	1557
32.5	1544	1546
35.0	1530	1527
37.5	1508	1509
40.0	1489	1483
42.5	1377	1368
45.0	1269	1264
47.5	1183	1173
50.0	1105	1092
52.5	1022	1015
55.0	937	926
57.5	837	823
60.0	757	743
62.5	693	679
65.0	649	636

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CANDELA TABULATION - (Cont.)

67.5	622	607
70.0	597	578
72.5	506	493
75.0	380	379
77.5	348	360
80.0	292	319
82.5	232	252
85.0	154	179
87.5	80	92
90.0	0	0

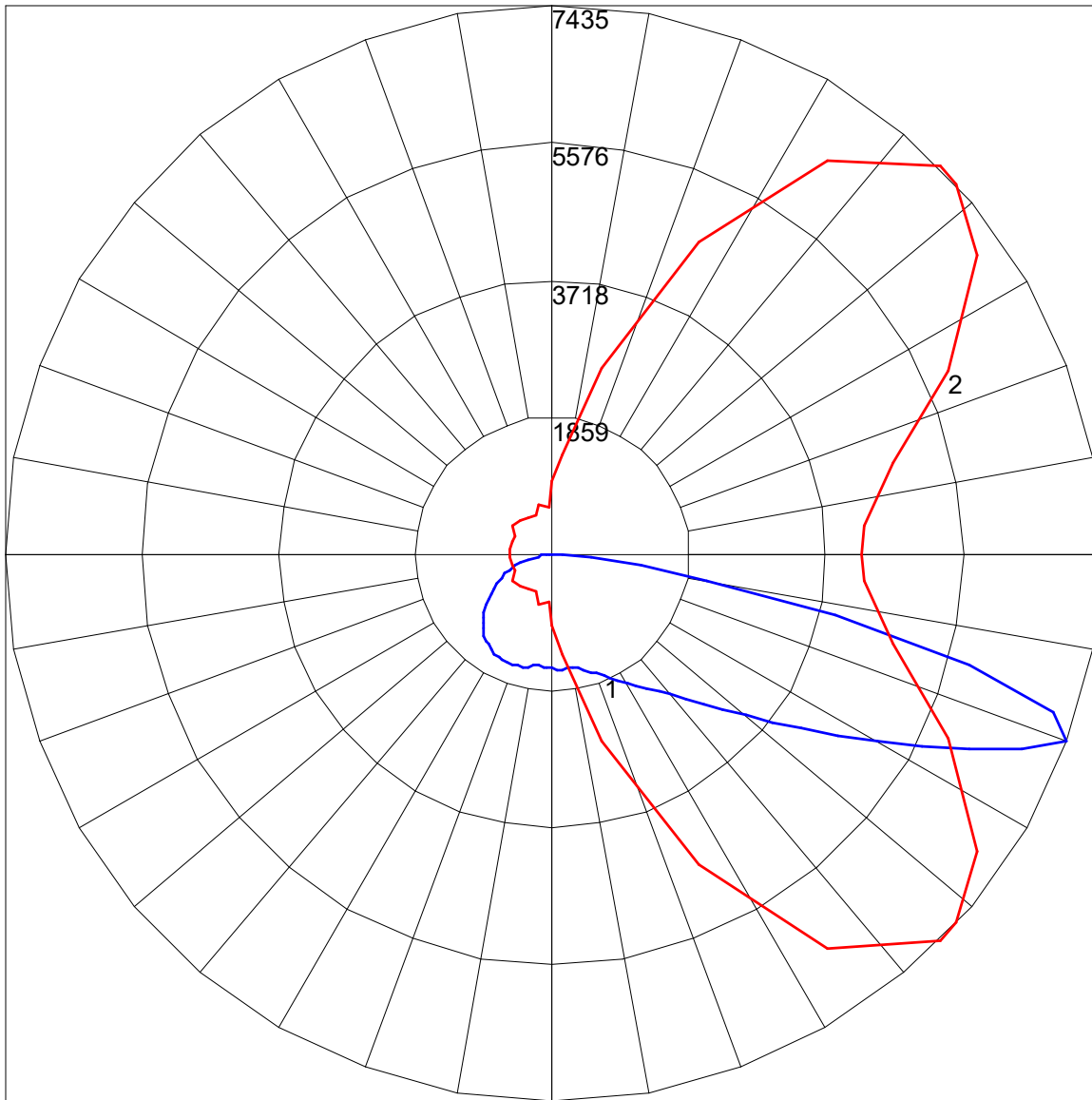
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

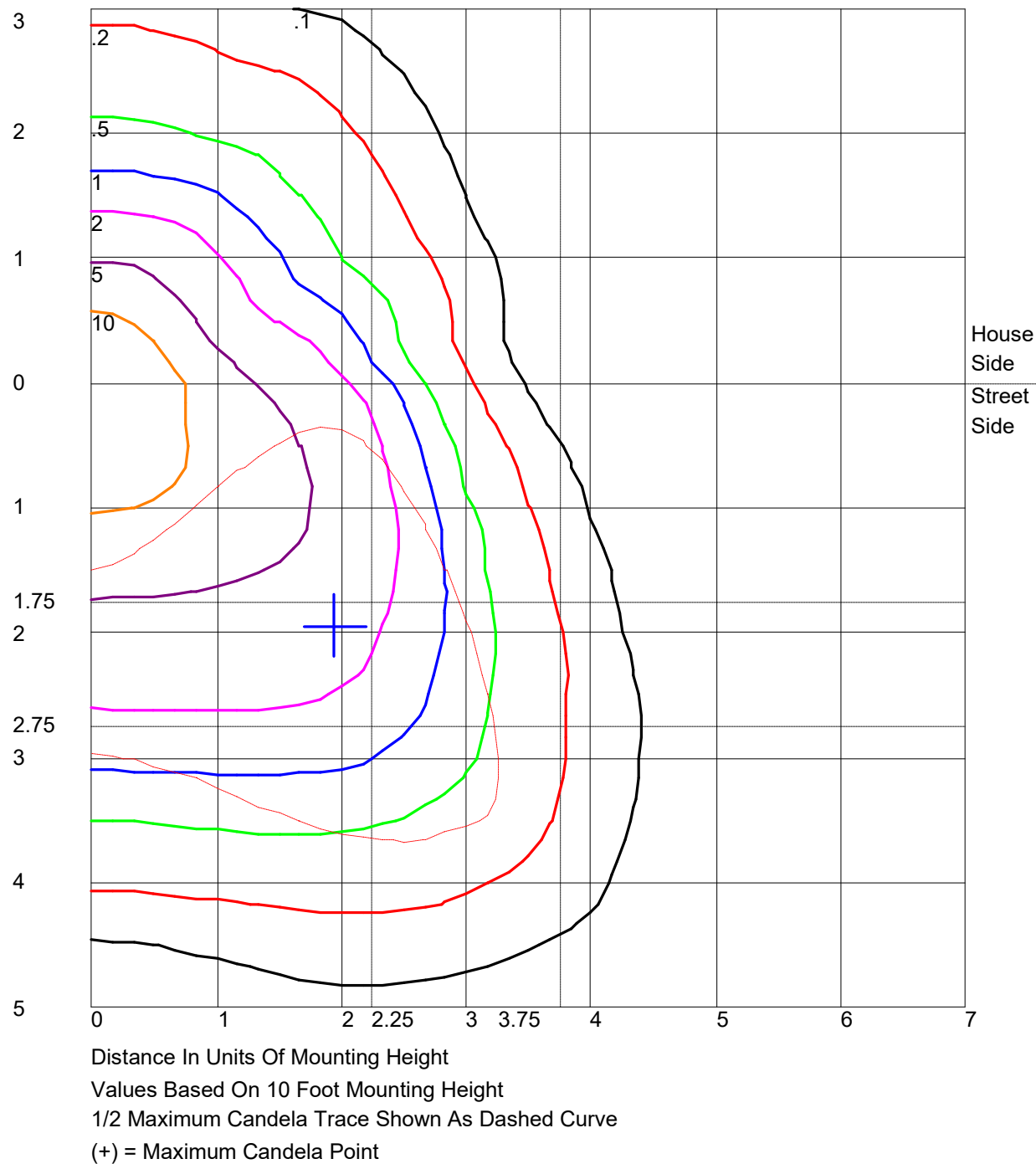
	Lumens	Percent Of Luminaire
Downward Street Side	8386.0	73.9
Downward House Side	2963.6	26.1
Downward Total	11349.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11349.6	100.0

POLAR GRAPH

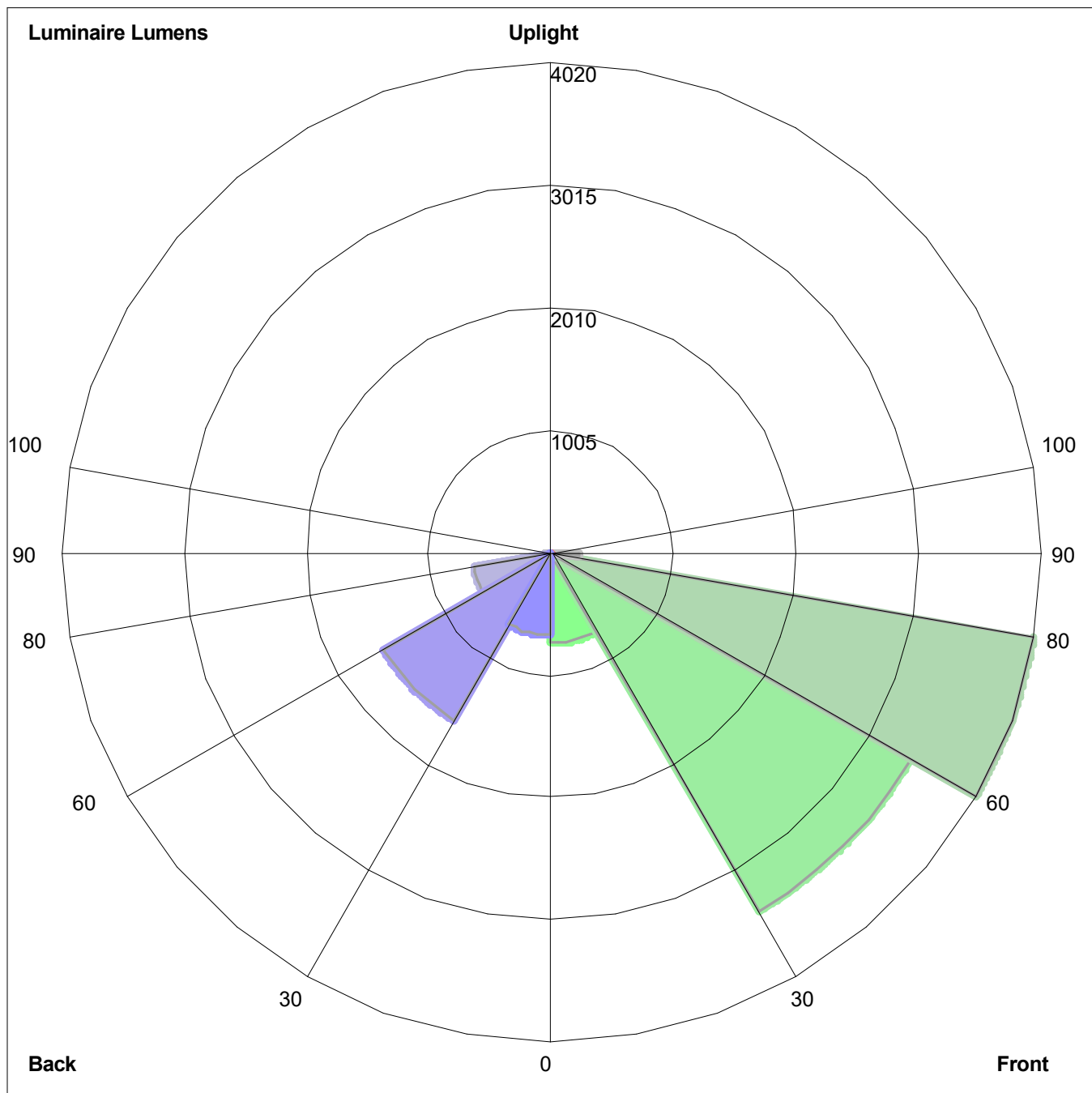


Maximum Candela = 7435 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=746.1, Medium= 3400.0, High=4020.5, Very High=219.4
Back: Low=681.8, Medium=1588.7, High=642.4, Very High=50.7
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2