



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11803  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 05/06/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-5W-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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18730
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	149.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9971
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	9971
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	875 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	800.6	N.A.	4.3
FM - Front-Medium (30-60)	4076.7	N.A.	21.8
FH - Front-High (60-80)	4423.7	N.A.	23.6
FVH - Front-Very High (80-90)	64.2	N.A.	0.3
BL - Back-Low (0-30)	800.6	N.A.	4.3
BM - Back-Medium (30-60)	4076.7	N.A.	21.8
BH - Back-High (60-80)	4423.7	N.A.	23.6
BVH - Back-Very High (80-90)	64.2	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18730.4	N.A.	100.0
BUG Rating	B4-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	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414
2.5	1418	1420	1418	1419	1417	1422	1419	1417	1412	1417
5.0	1441	1441	1441	1440	1442	1442	1437	1436	1428	1433
7.5	1486	1485	1484	1482	1482	1478	1472	1470	1463	1464
10.0	1540	1540	1539	1536	1537	1536	1529	1518	1508	1506
12.5	1604	1604	1608	1607	1611	1611	1600	1584	1570	1566
15.0	1674	1675	1682	1690	1699	1701	1688	1665	1638	1635
17.5	1746	1753	1765	1786	1797	1806	1789	1756	1722	1707
20.0	1826	1832	1852	1886	1913	1923	1906	1859	1813	1789
22.5	1908	1914	1949	1997	2045	2055	2036	1975	1917	1881
25.0	1997	2004	2052	2118	2185	2201	2176	2104	2023	1976
27.5	2092	2099	2162	2252	2339	2365	2332	2243	2142	2081
30.0	2187	2199	2277	2390	2502	2546	2507	2390	2271	2190
32.5	2292	2303	2396	2535	2670	2733	2682	2550	2399	2311
35.0	2418	2426	2527	2688	2840	2920	2864	2714	2546	2439
37.5	2549	2560	2668	2847	3021	3111	3065	2889	2701	2585
40.0	2689	2702	2822	3019	3210	3314	3259	3077	2877	2748
42.5	2849	2867	2995	3200	3414	3517	3451	3270	3064	2925
45.0	3019	3037	3172	3397	3608	3711	3652	3463	3266	3116
47.5	3212	3225	3363	3587	3792	3896	3857	3671	3467	3325
50.0	3422	3431	3568	3785	3986	4086	4062	3885	3678	3535
52.5	3644	3649	3794	3998	4172	4287	4274	4109	3926	3768
55.0	3886	3899	4039	4227	4385	4529	4504	4364	4174	4016
57.5	4150	4172	4306	4492	4656	4826	4805	4672	4469	4294
60.0	4518	4515	4650	4829	5026	5245	5199	5043	4809	4601
62.5	4975	5003	5146	5319	5587	5885	5764	5509	5280	5054
65.0	5280	5317	5627	6012	6516	6923	6698	6328	6035	5726
67.5	5013	5077	5627	6497	7649	8632	8096	7174	6430	5821
70.0	3800	3887	4582	5793	8091	9971	8576	6615	5188	4293
72.5	2030	2092	2595	3881	6334	8838	6905	4493	2892	2275
75.0	730	739	964	1701	3539	5741	3899	2055	1187	962
77.5	306	311	408	667	1341	2356	1614	858	516	403
80.0	133	133	158	256	531	875	613	344	225	212
82.5	91	88	96	131	195	269	212	176	141	148
85.0	57	56	58	78	104	124	115	103	80	87
87.5	27	27	28	34	43	47	42	38	29	27
90.0	0	0	0	0	0	0	0	0	0	0

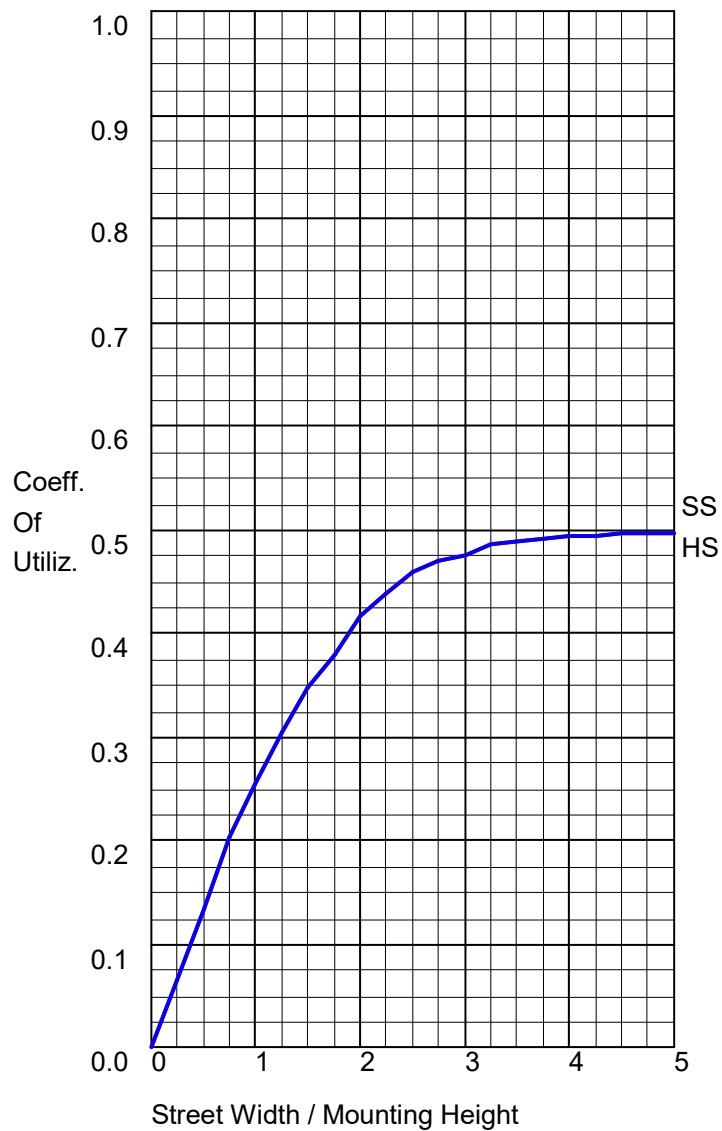
Vert. Angles	Horizontal Angles									
	<u>90</u>									
0.0	1414									
2.5	1415									
5.0	1432									
7.5	1463									
10.0	1508									
12.5	1562									
15.0	1625									
17.5	1704									
20.0	1788									
22.5	1875									
25.0	1968									
27.5	2070									

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	2181
<b>32.5</b>	2296
<b>35.0</b>	2420
<b>37.5</b>	2567
<b>40.0</b>	2733
<b>42.5</b>	2905
<b>45.0</b>	3082
<b>47.5</b>	3308
<b>50.0</b>	3517
<b>52.5</b>	3737
<b>55.0</b>	3979
<b>57.5</b>	4247
<b>60.0</b>	4561
<b>62.5</b>	5007
<b>65.0</b>	5659
<b>67.5</b>	5748
<b>70.0</b>	4246
<b>72.5</b>	2222
<b>75.0</b>	942
<b>77.5</b>	392
<b>80.0</b>	218
<b>82.5</b>	152
<b>85.0</b>	85
<b>87.5</b>	27
<b>90.0</b>	0

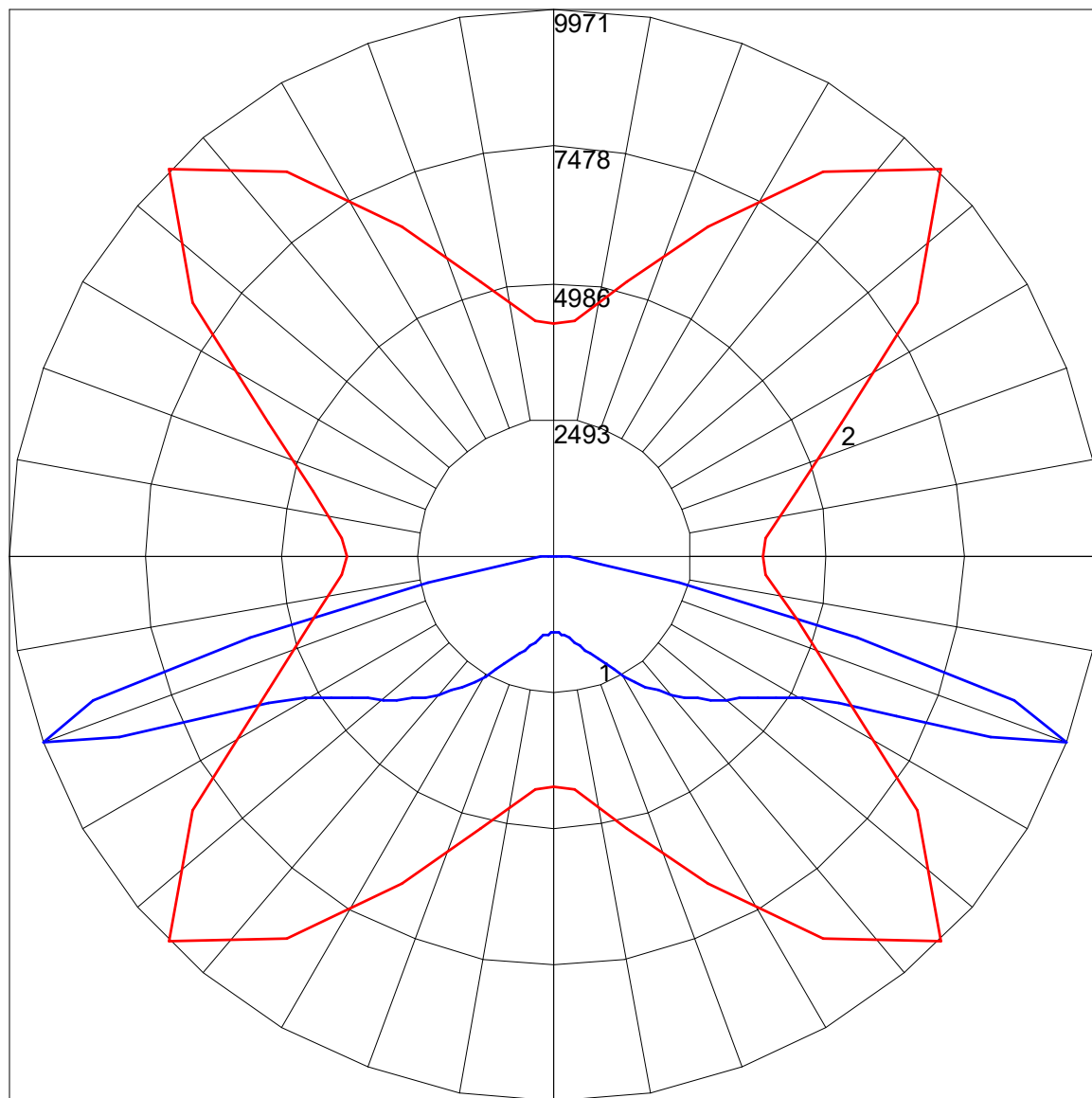
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	9365.2	50.0
Downward House Side	9365.2	50.0
Downward Total	18730.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18730.4	100.0

POLAR GRAPH



Maximum Candela = 9971 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

