



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-25L-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11788  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/30/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-FT-LED-25L-30-IL  
[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	19403
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15097
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	15097
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1919 (9.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1764.9	N.A.	9.1
FM - Front-Medium (30-60)	8019.0	N.A.	41.3
FH - Front-High (60-80)	6916.6	N.A.	35.6
FVH - Front-Very High (80-90)	216.9	N.A.	1.1
BL - Back-Low (0-30)	903.6	N.A.	4.7
BM - Back-Medium (30-60)	1334.9	N.A.	6.9
BH - Back-High (60-80)	241.6	N.A.	1.2
BVH - Back-Very High (80-90)	4.9	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	19402.4	N.A.	100.0
BUG Rating	B2-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>42.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	3576	3576	3576	3576	3576	3576	3576	3576	3576	3576
<b>2.5</b>	3690	3655	3659	3658	3661	3618	3643	3639	3622	3625
<b>5.0</b>	3778	3744	3746	3754	3758	3706	3742	3730	3704	3688
<b>7.5</b>	3816	3775	3786	3799	3811	3764	3814	3809	3794	3766
<b>10.0</b>	3829	3794	3801	3821	3841	3822	3850	3885	3874	3857
<b>12.5</b>	3863	3820	3830	3847	3870	3870	3901	3949	3960	3945
<b>15.0</b>	3913	3890	3903	3921	3946	3929	3967	4012	4040	4039
<b>17.5</b>	3984	3984	3989	4017	4031	4012	4051	4087	4124	4141
<b>20.0</b>	4095	4087	4102	4122	4127	4113	4143	4175	4204	4240
<b>22.5</b>	4222	4207	4221	4230	4243	4231	4258	4279	4276	4319
<b>25.0</b>	4365	4355	4353	4366	4378	4381	4389	4398	4375	4413
<b>27.5</b>	4540	4521	4521	4541	4548	4549	4540	4532	4498	4513
<b>30.0</b>	4748	4731	4729	4744	4739	4747	4736	4677	4632	4601
<b>32.5</b>	4981	4976	4977	4983	4961	4974	4971	4870	4785	4692
<b>35.0</b>	5227	5237	5258	5255	5251	5266	5227	5127	4954	4813
<b>37.5</b>	5532	5530	5535	5540	5565	5594	5553	5438	5159	4962
<b>40.0</b>	5819	5822	5843	5863	5907	5971	5923	5778	5418	5145
<b>42.5</b>	6127	6137	6162	6240	6323	6421	6358	6205	5786	5406
<b>45.0</b>	6479	6495	6542	6699	6799	6918	6900	6749	6230	5712
<b>47.5</b>	6892	6889	6990	7202	7369	7543	7483	7414	6756	6077
<b>50.0</b>	7336	7343	7496	7782	8079	8279	8202	8154	7355	6485
<b>52.5</b>	7796	7803	8035	8484	8857	9146	9072	8996	8036	6958
<b>55.0</b>	8296	8327	8634	9185	9750	10131	10137	9915	8778	7464
<b>57.5</b>	8809	8926	9275	9966	10751	11268	11153	10922	9559	7850
<b>60.0</b>	9355	9535	9968	10803	11774	12359	12217	11913	10184	8066
<b>62.5</b>	9615	9799	10517	11718	12749	13549	13401	12725	10558	7899
<b>65.0</b>	8846	9066	10174	12159	13899	14761	14608	13112	10324	7251
<b>67.5</b>	7186	7413	8783	11268	13959	15097	15094	12924	9407	5886
<b>70.0</b>	3778	4000	5748	9086	12115	13696	14213	11864	7488	4247
<b>72.5</b>	1494	1593	2404	4806	8672	11026	11523	9414	5298	2542
<b>75.0</b>	1074	1118	1529	2468	4337	6472	7127	6468	3206	1635
<b>77.5</b>	844	883	1258	1870	2664	3267	3431	3623	2088	1118
<b>80.0</b>	672	696	1044	1480	1777	1895	1919	1632	1275	757
<b>82.5</b>	482	517	781	1024	904	770	746	583	609	458
<b>85.0</b>	208	234	309	352	324	298	291	222	233	260
<b>87.5</b>	75	79	107	133	113	89	79	62	66	83
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	3576	3576	3576	3576	3576	3576	3576	3576	3576	3576
<b>2.5</b>	3601	3602	3595	3567	3566	3547	3524	3519	3489	3478
<b>5.0</b>	3643	3635	3606	3560	3528	3478	3417	3383	3357	3325
<b>7.5</b>	3699	3687	3639	3561	3475	3396	3307	3217	3125	3051
<b>10.0</b>	3789	3756	3698	3578	3433	3289	3086	2854	2659	2518
<b>12.5</b>	3889	3837	3770	3597	3374	3069	2697	2347	2061	1860
<b>15.0</b>	3984	3926	3849	3608	3253	2720	2190	1763	1495	1370
<b>17.5</b>	4091	4024	3944	3606	3048	2323	1695	1385	1212	1116
<b>20.0</b>	4201	4138	4020	3589	2777	1886	1400	1164	1039	972
<b>22.5</b>	4303	4230	4101	3523	2448	1577	1220	1033	933	882
<b>25.0</b>	4381	4312	4177	3384	2101	1390	1101	948	877	848
<b>27.5</b>	4460	4391	4241	3209	1832	1273	1026	896	849	838

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**CANDELA TABULATION - (Cont.)**

30.0	4541	4467	4294	3007	1661	1192	971	861	822	827
32.5	4614	4528	4345	2766	1546	1136	929	818	793	807
35.0	4680	4567	4379	2565	1468	1097	884	770	753	756
37.5	4755	4612	4393	2428	1404	1052	825	707	687	659
40.0	4860	4691	4424	2348	1360	997	755	624	586	539
42.5	5005	4791	4458	2318	1306	916	663	529	464	410
45.0	5168	4893	4454	2316	1225	817	561	420	344	305
47.5	5394	5008	4459	2345	1096	682	441	317	251	221
50.0	5653	5183	4501	2391	909	506	314	220	184	164
52.5	5926	5348	4534	2395	676	341	211	155	130	123
55.0	6141	5413	4499	2271	451	242	154	111	92	85
57.5	6267	5422	4421	1953	316	186	119	83	63	52
60.0	6211	5277	4090	1418	249	148	92	60	36	26
62.5	5833	4783	3418	858	209	119	73	40	20	12
65.0	5014	3910	2435	480	172	94	54	28	12	4
67.5	3719	2748	1456	299	129	72	38	20	9	4
70.0	2402	1663	783	190	89	49	29	17	9	4
72.5	1309	980	432	123	59	31	21	14	7	1
75.0	902	642	255	83	36	20	18	8	3	0
77.5	605	421	185	51	20	16	11	4	1	0
80.0	341	239	126	28	12	10	7	3	0	0
82.5	224	157	76	12	8	7	5	2	0	0
85.0	139	86	27	6	5	6	4	2	0	0
87.5	52	19	4	2	3	4	3	2	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

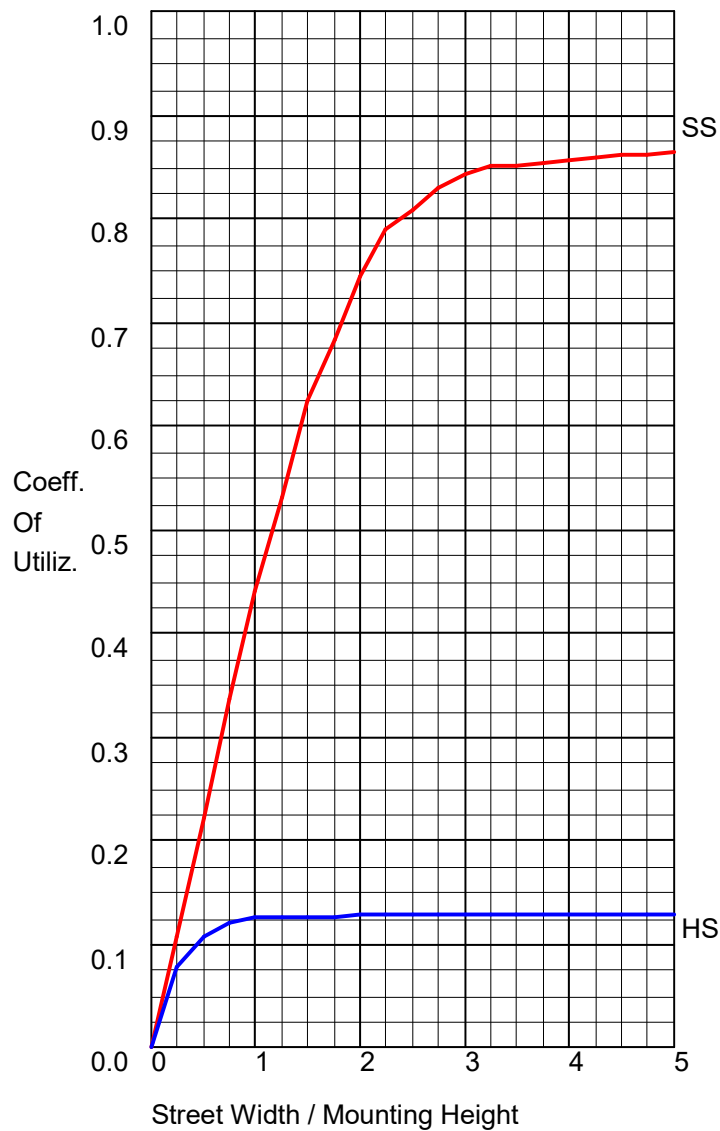
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	3576	3576
2.5	3474	3455
5.0	3303	3281
7.5	3014	2983
10.0	2413	2419
12.5	1732	1732
15.0	1297	1297
17.5	1071	1069
20.0	940	935
22.5	862	858
25.0	838	842
27.5	830	833
30.0	822	823
32.5	798	798
35.0	723	711
37.5	608	600
40.0	478	477
42.5	367	360
45.0	266	261
47.5	205	203
50.0	160	159
52.5	121	121
55.0	84	84
57.5	49	49
60.0	24	23
62.5	11	10
65.0	3	3

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>2</b>	<b>2</b>
<b>70.0</b>	<b>2</b>	<b>2</b>
<b>72.5</b>	<b>0</b>	<b>0</b>
<b>75.0</b>	<b>0</b>	<b>0</b>
<b>77.5</b>	<b>0</b>	<b>0</b>
<b>80.0</b>	<b>0</b>	<b>0</b>
<b>82.5</b>	<b>0</b>	<b>0</b>
<b>85.0</b>	<b>0</b>	<b>0</b>
<b>87.5</b>	<b>0</b>	<b>0</b>
<b>90.0</b>	<b>0</b>	<b>0</b>

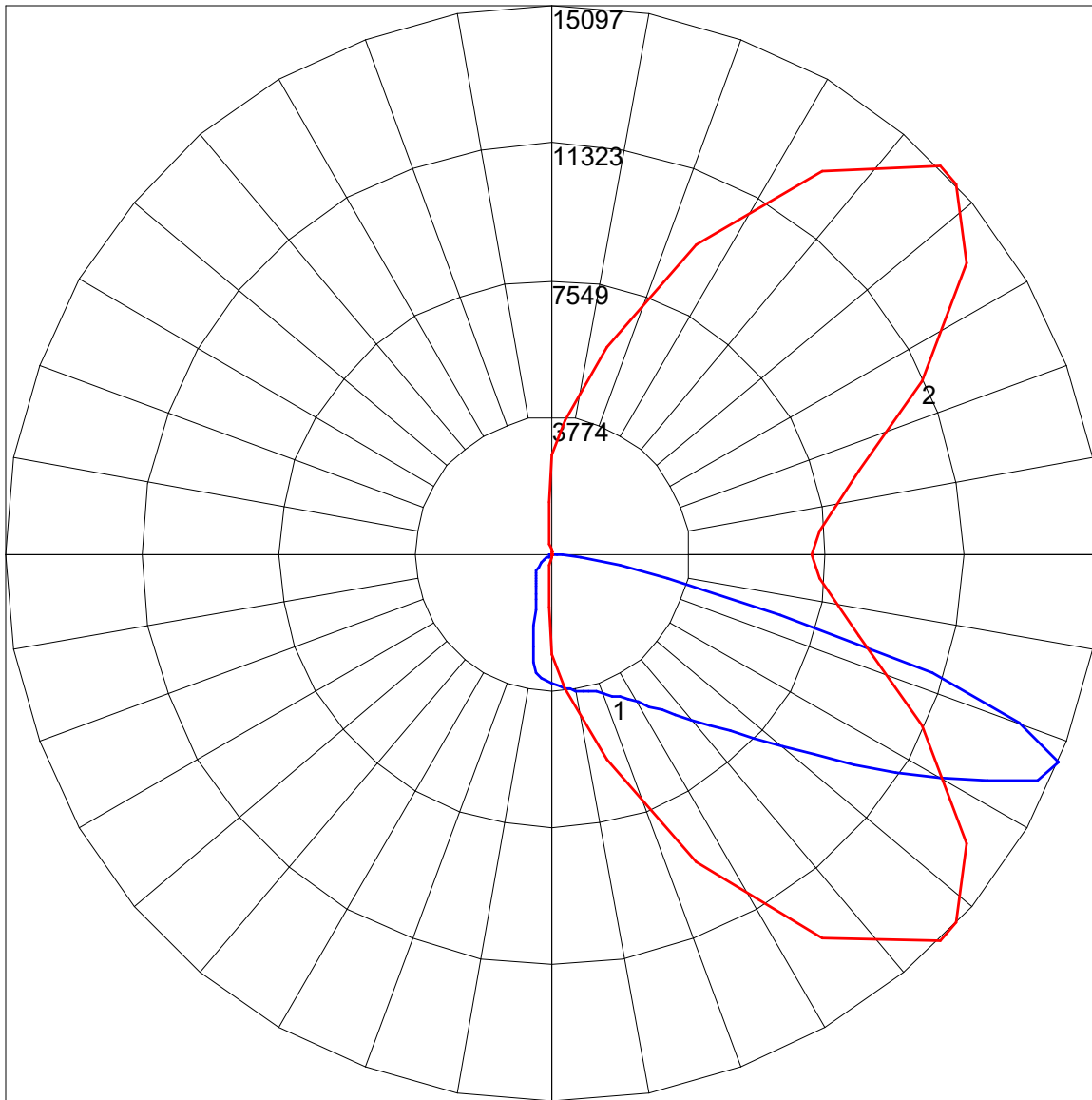
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

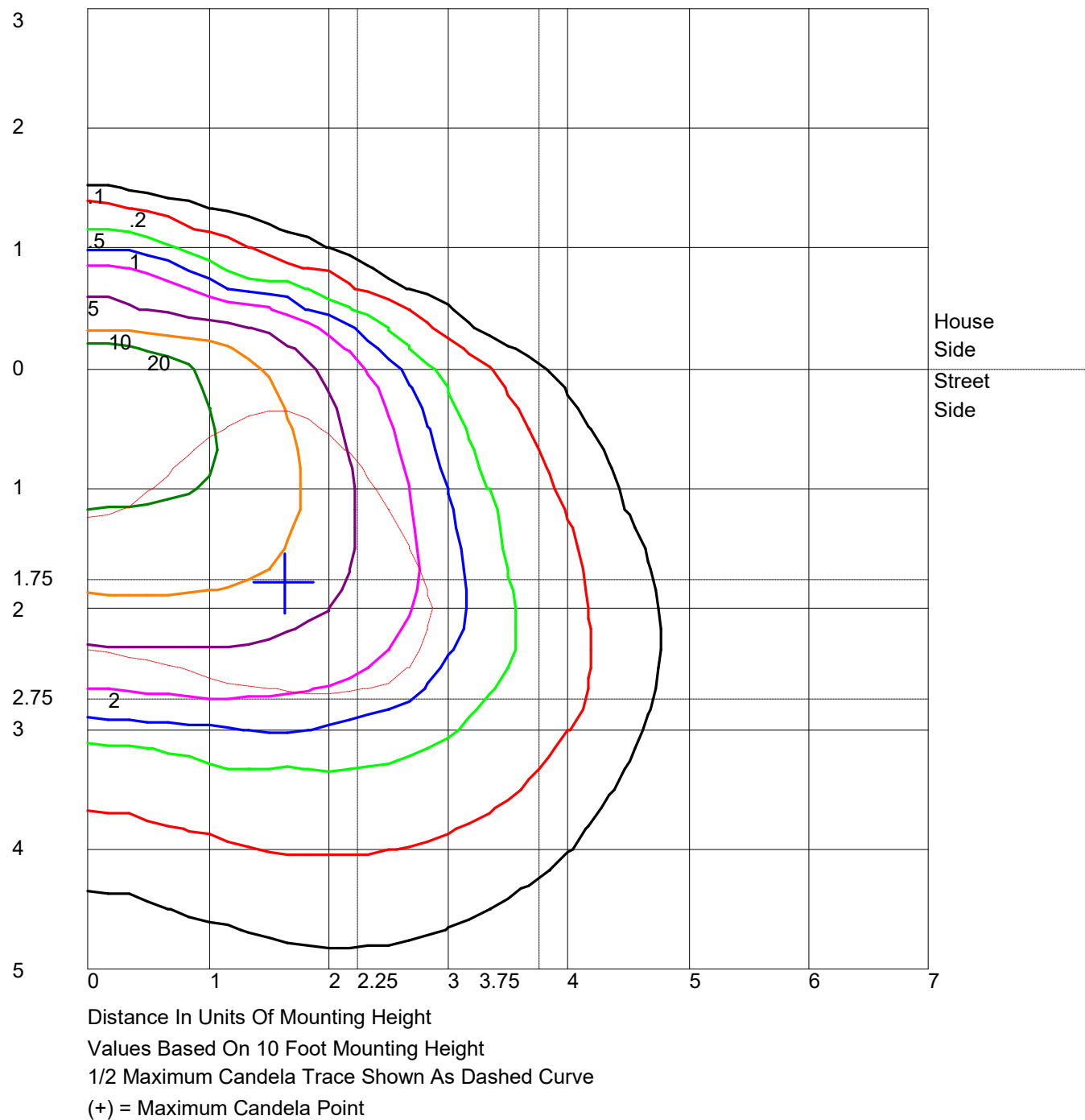
	Lumens	Percent Of Luminaire
Downward Street Side	16917.5	87.2
Downward House Side	2485.1	12.8
Downward Total	19402.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	19402.6	100.0

POLAR GRAPH



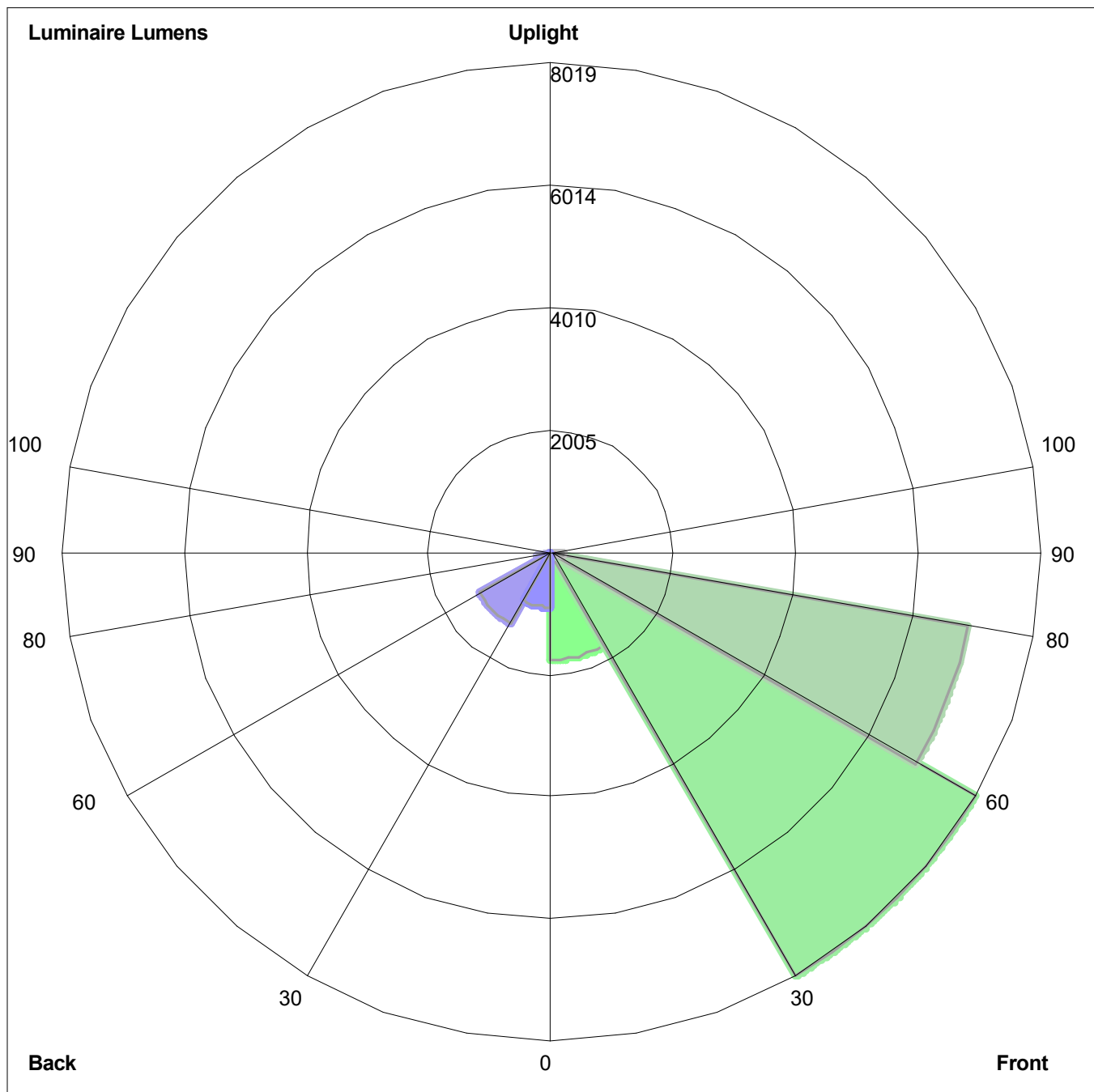
Maximum Candela = 15097 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1764.9, Medium= 8019.0, High=6916.6, Very High=216.9  
Back: Low=903.6, Medium=1334.9, High=241.6, Very High=4.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3