



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11780
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/29/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-3-LED-05L-50
[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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6121
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5772
Maximum Candela Angle	57.5H 70V
Maximum Candela (<90 Degrees Vertical)	5772
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	633 (10.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	252.3	N.A.	4.1
FM - Front-Medium (30-60)	2372.8	N.A.	38.8
FH - Front-High (60-80)	2133.2	N.A.	34.9
FVH - Front-Very High (80-90)	53.1	N.A.	0.9
BL - Back-Low (0-30)	251.4	N.A.	4.1
BM - Back-Medium (30-60)	710.7	N.A.	11.6
BH - Back-High (60-80)	319.6	N.A.	5.2
BVH - Back-Very High (80-90)	27.9	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	6121.0	N.A.	100.0
BUG Rating	B1-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>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	500	500	500	500	500	500	500	500	500	500
2.5	490	491	491	492	495	496	496	497	498	499
5.0	481	481	482	484	488	491	493	495	497	498
7.5	461	462	464	468	475	482	488	490	496	500
10.0	441	441	444	451	461	472	483	486	493	501
12.5	426	426	432	439	451	465	480	483	493	503
15.0	422	423	427	437	450	466	483	487	498	509
17.5	436	436	441	450	465	482	502	505	517	526
20.0	474	472	479	489	505	526	543	545	554	558
22.5	542	544	546	558	573	596	609	610	612	603
25.0	636	638	642	656	684	700	705	703	697	670
27.5	755	758	770	784	818	834	826	822	804	751
30.0	899	903	912	940	974	990	966	958	919	837
32.5	1044	1048	1067	1108	1144	1161	1115	1099	1037	927
35.0	1172	1179	1216	1273	1323	1343	1276	1252	1160	1021
37.5	1301	1315	1353	1433	1510	1527	1441	1415	1286	1112
40.0	1432	1448	1499	1598	1689	1715	1609	1574	1414	1198
42.5	1613	1613	1673	1783	1882	1918	1777	1730	1533	1275
45.0	1845	1845	1915	2029	2107	2120	1957	1883	1651	1350
47.5	2170	2166	2248	2370	2398	2348	2124	2037	1773	1434
50.0	2571	2566	2670	2799	2782	2632	2302	2207	1900	1530
52.5	3003	3020	3116	3251	3246	2961	2505	2392	2051	1667
55.0	3339	3359	3515	3727	3710	3344	2767	2629	2251	1883
57.5	3561	3587	3808	4094	4180	3785	3127	2977	2567	2229
60.0	3358	3398	3710	4186	4545	4288	3645	3488	3066	2750
62.5	2553	2547	2962	3730	4548	4760	4341	4245	3719	3263
65.0	1371	1365	1745	2648	4032	5022	5182	5105	4349	3554
67.5	616	653	799	1367	2832	4590	5737	5633	4753	3620
70.0	319	341	434	691	1468	3519	5635	5772	4769	2998
72.5	180	187	254	430	828	2029	4513	4719	3766	1508
75.0	121	127	165	280	545	1076	2781	2931	1794	514
77.5	88	91	124	228	411	629	1275	1272	766	243
80.0	63	66	96	183	324	384	609	633	387	124
82.5	41	44	72	135	243	235	236	248	172	82
85.0	29	33	52	102	145	131	92	109	91	49
87.5	24	26	38	77	85	42	33	34	30	25
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	500	500	500	500	500	500	500	500	500	500
2.5	501	502	502	504	506	508	509	510	511	510
5.0	502	504	506	511	519	526	530	534	538	539
7.5	503	506	509	521	532	543	552	560	567	570
10.0	505	508	512	528	544	561	575	581	586	587
12.5	509	510	516	535	555	576	589	593	597	601
15.0	514	514	519	542	567	588	598	604	611	614
17.5	529	525	526	550	577	596	608	614	622	624
20.0	551	543	539	558	584	605	616	623	628	628
22.5	583	567	555	566	587	612	625	629	631	631
25.0	626	600	580	570	587	619	633	634	636	636
27.5	676	635	603	572	584	625	639	642	645	648

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CANDELA TABULATION - (Cont.)

30.0	727	673	625	570	579	627	644	649	658	669
32.5	777	706	642	563	571	629	647	659	681	706
35.0	831	739	655	551	561	625	648	675	717	759
37.5	882	768	666	537	547	615	647	680	736	793
40.0	929	793	672	519	530	603	632	669	768	819
42.5	973	814	674	499	509	582	607	656	823	811
45.0	1016	837	677	482	488	558	582	647	890	765
47.5	1070	868	688	467	466	531	561	634	913	732
50.0	1150	924	714	461	445	508	542	621	901	708
52.5	1256	1000	757	461	427	485	520	594	852	692
55.0	1424	1121	827	464	411	463	497	556	781	674
57.5	1630	1297	895	464	390	436	468	506	693	644
60.0	1972	1516	918	442	362	400	436	456	588	625
62.5	2320	1621	803	391	330	356	390	400	484	603
65.0	2548	1554	629	328	296	313	333	354	392	572
67.5	2389	1258	440	265	257	274	289	317	329	528
70.0	1520	719	277	218	220	233	250	285	296	458
72.5	540	287	152	174	186	194	206	250	255	349
75.0	233	140	111	139	153	163	173	208	164	220
77.5	106	79	80	114	127	138	132	123	107	151
80.0	70	56	64	94	105	99	77	93	78	109
82.5	47	39	49	78	83	60	58	69	48	78
85.0	27	23	37	61	42	40	40	31	23	47
87.5	13	9	25	34	21	18	13	13	9	23
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

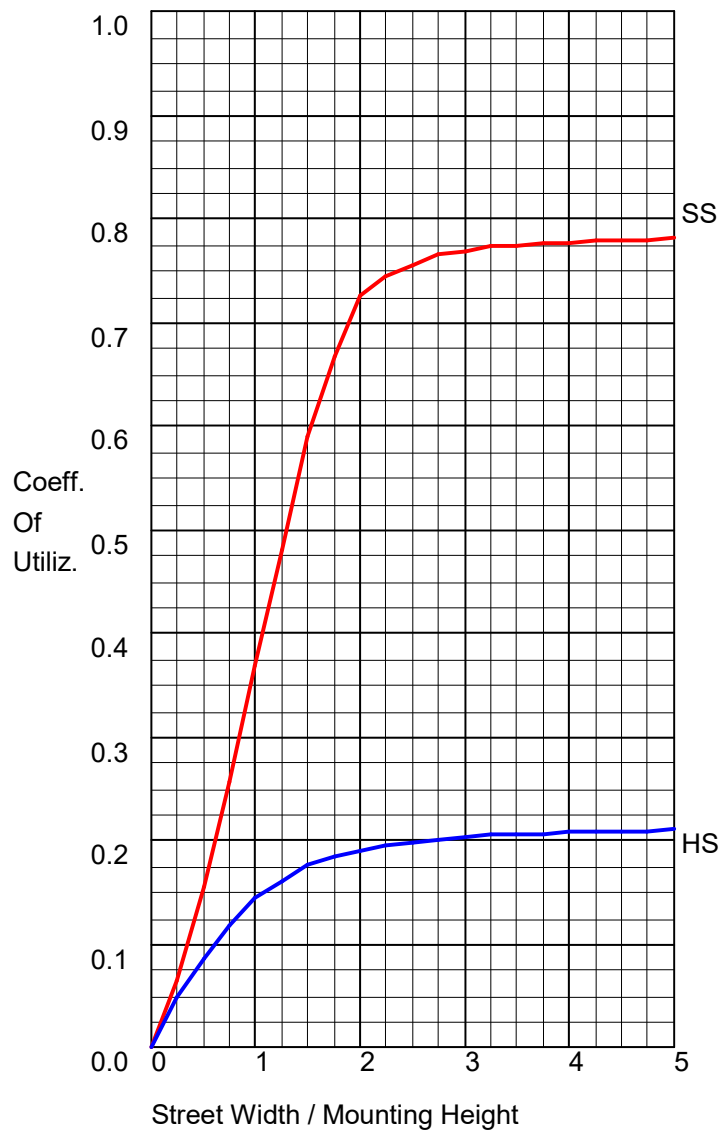
	<u>175.0</u>	<u>180.0</u>
0.0	500	500
2.5	509	510
5.0	539	539
7.5	570	570
10.0	586	587
12.5	601	601
15.0	614	615
17.5	624	624
20.0	627	627
22.5	631	631
25.0	636	637
27.5	648	649
30.0	671	672
32.5	712	711
35.0	770	771
37.5	766	760
40.0	727	710
42.5	637	623
45.0	594	575
47.5	563	539
50.0	538	512
52.5	514	484
55.0	487	448
57.5	457	412
60.0	447	396
62.5	448	396
65.0	467	413

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CANDELA TABULATION - (Cont.)

67.5	504	457
70.0	524	501
72.5	479	496
75.0	387	454
77.5	324	378
80.0	247	271
82.5	169	187
85.0	118	123
87.5	73	99
90.0	0	0

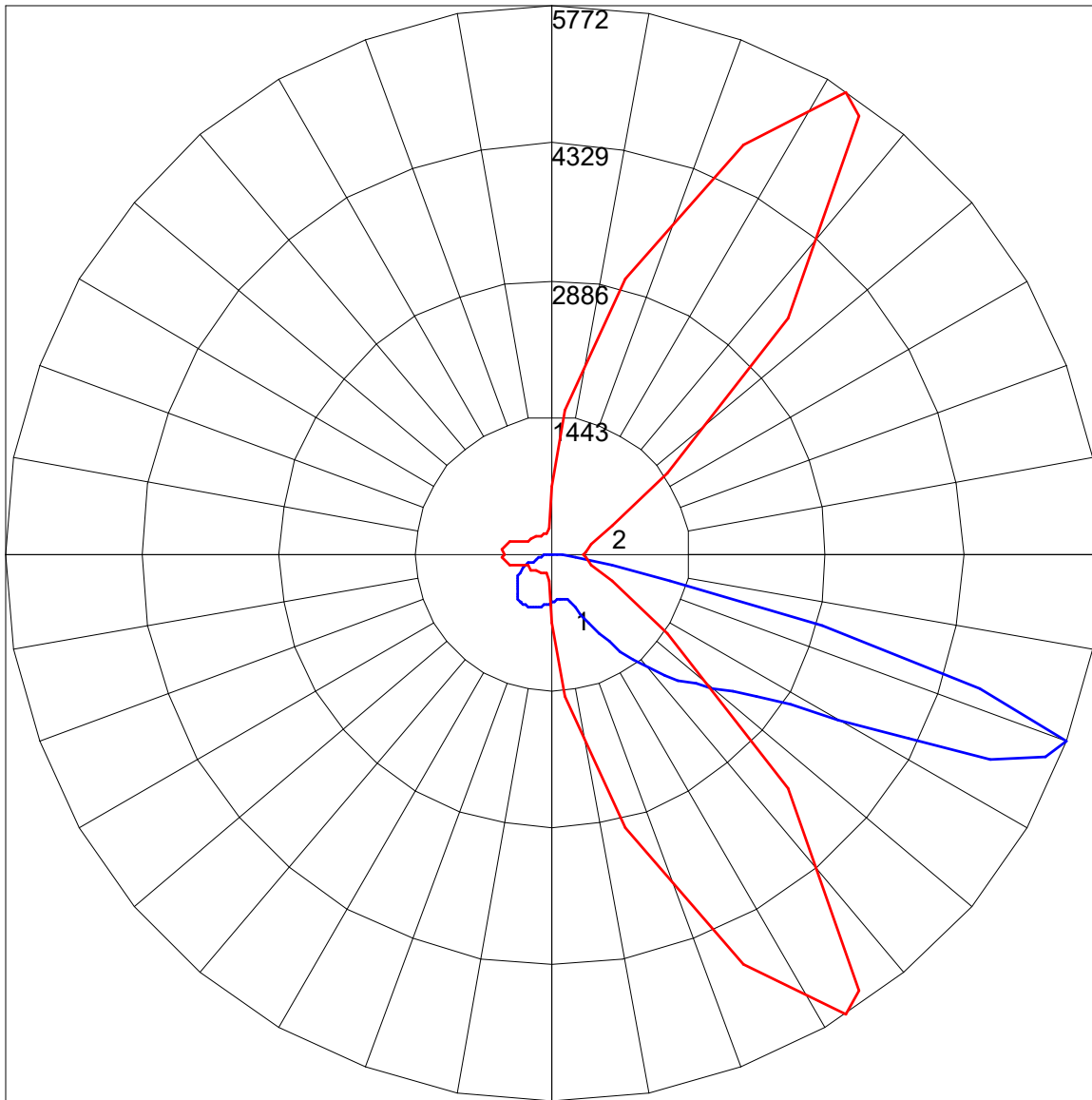
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

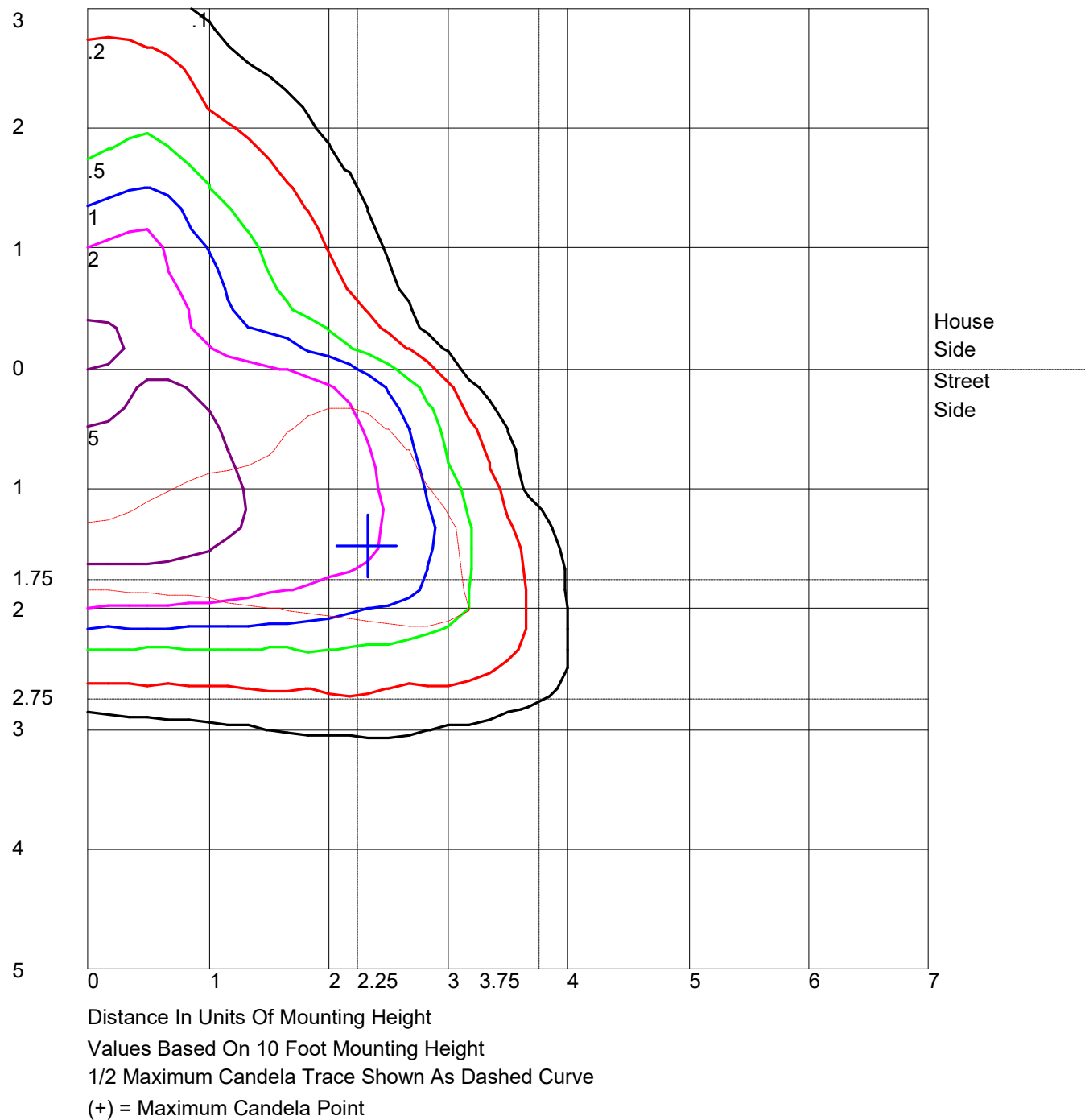
	Lumens	Percent Of Luminaire
Downward Street Side	4811.4	78.6
Downward House Side	1309.7	21.4
Downward Total	6121.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6121.1	100.0

POLAR GRAPH

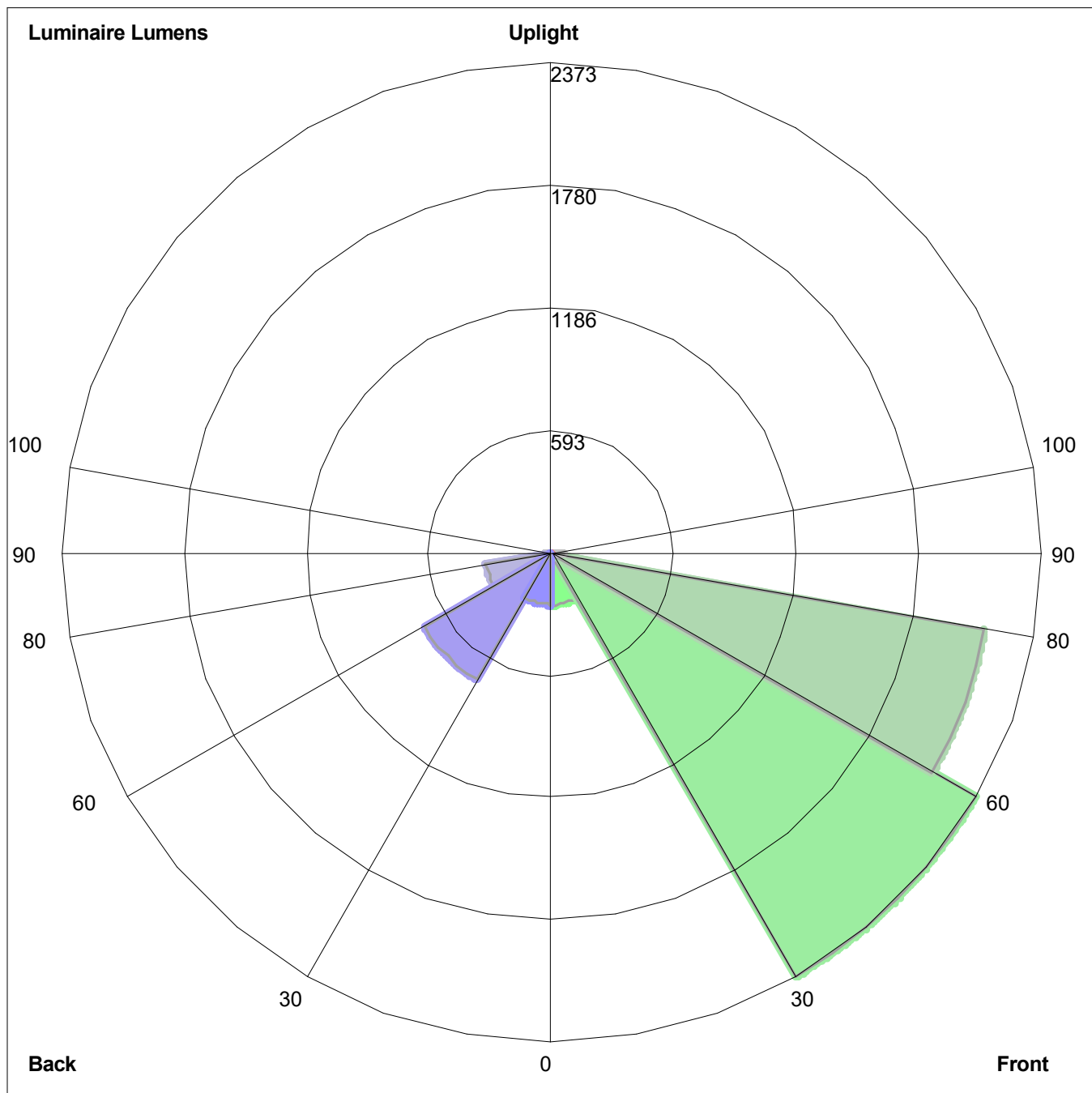


Maximum Candela = 5772 Located At Horizontal Angle = 57.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=252.3, Medium=2372.8, High=2133.2, Very High=53.1
Back: Low=251.4, Medium=710.7, High=319.6, Very High=27.9
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2