



## IES ROAD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11790  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 05/01/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[LUMCAT] ENM4-SAX-3-LED-05L-50-IL  
[FACTORED] SCALED FROM ORIGINAL TEST DATA

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5047
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5428
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	5428
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	253 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	258.8	N.A.	5.1
FM - Front-Medium (30-60)	2610.6	N.A.	51.7
FH - Front-High (60-80)	1631.4	N.A.	32.3
FVH - Front-Very High (80-90)	32.5	N.A.	0.6
BL - Back-Low (0-30)	144.1	N.A.	2.9
BM - Back-Medium (30-60)	300.7	N.A.	6.0
BH - Back-High (60-80)	65.7	N.A.	1.3
BVH - Back-Very High (80-90)	3.4	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5047.2	N.A.	100.0
BUG Rating	B1-U0-G1		

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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>45.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	462	462	462	462	462	462	462	462	462	462
<b>2.5</b>	456	457	457	458	457	458	457	459	460	460
<b>5.0</b>	449	449	451	453	454	455	455	457	459	460
<b>7.5</b>	437	439	441	443	448	453	454	456	459	461
<b>10.0</b>	428	429	433	437	442	447	453	455	461	463
<b>12.5</b>	426	428	430	437	443	450	456	458	467	469
<b>15.0</b>	436	436	440	449	459	465	470	472	479	479
<b>17.5</b>	461	463	467	478	489	495	500	501	501	498
<b>20.0</b>	510	514	518	526	538	545	548	548	543	532
<b>22.5</b>	588	592	600	602	612	626	625	624	613	596
<b>25.0</b>	687	696	701	709	722	739	736	733	719	684
<b>27.5</b>	815	822	833	842	863	888	889	876	855	792
<b>30.0</b>	947	955	973	989	1027	1054	1054	1048	1004	910
<b>32.5</b>	1081	1079	1105	1138	1195	1230	1228	1220	1155	1036
<b>35.0</b>	1217	1218	1243	1297	1362	1407	1406	1390	1312	1156
<b>37.5</b>	1375	1382	1409	1469	1529	1582	1582	1559	1457	1260
<b>40.0</b>	1574	1583	1608	1661	1707	1763	1755	1722	1582	1345
<b>42.5</b>	1812	1823	1850	1896	1937	1948	1927	1884	1692	1428
<b>45.0</b>	2122	2135	2155	2194	2201	2155	2099	2040	1798	1513
<b>47.5</b>	2508	2543	2602	2593	2557	2449	2302	2223	1920	1637
<b>50.0</b>	2871	2922	2994	3036	2979	2793	2574	2473	2100	1890
<b>52.5</b>	3149	3178	3391	3590	3546	3232	2958	2826	2452	2256
<b>55.0</b>	3312	3361	3600	3957	4038	3789	3538	3407	2985	2677
<b>57.5</b>	3023	3065	3485	4055	4414	4334	4255	4178	3740	2920
<b>60.0</b>	2291	2359	2843	3671	4488	4829	5015	4990	4150	3049
<b>62.5</b>	1318	1389	1850	2734	4037	5007	5428	5407	4359	3107
<b>65.0</b>	542	589	862	1620	3026	4612	5343	5407	4394	2882
<b>67.5</b>	296	310	414	756	1963	3564	4748	4957	3997	2252
<b>70.0</b>	183	192	238	426	995	2274	3598	3951	3000	1546
<b>72.5</b>	126	131	166	288	573	1173	2092	2404	1894	675
<b>75.0</b>	86	89	118	226	415	588	931	1154	815	265
<b>77.5</b>	61	63	85	180	334	350	380	445	395	142
<b>80.0</b>	46	49	66	139	253	219	183	186	196	88
<b>82.5</b>	36	38	54	111	167	132	96	94	100	65
<b>85.0</b>	26	28	42	86	107	68	51	51	54	44
<b>87.5</b>	18	19	29	55	41	24	20	19	19	20
<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>	462	462	462	462	462	462	462	462	462	462
<b>2.5</b>	462	465	465	465	468	470	468	468	467	467
<b>5.0</b>	465	466	469	469	475	480	480	481	482	482
<b>7.5</b>	467	468	472	475	482	488	488	486	485	482
<b>10.0</b>	468	471	476	480	488	492	483	463	441	422
<b>12.5</b>	470	472	479	485	490	481	441	391	351	318
<b>15.0</b>	476	478	482	488	486	437	363	307	272	251
<b>17.5</b>	489	485	488	491	463	374	293	257	233	218
<b>20.0</b>	517	506	501	495	422	314	255	230	213	198
<b>22.5</b>	562	542	524	495	374	280	233	214	206	187
<b>25.0</b>	624	585	554	482	331	260	218	206	211	194
<b>27.5</b>	692	634	587	457	304	246	207	203	232	226

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**CANDELA TABULATION - (Cont.)**

30.0	768	688	618	427	283	234	197	207	270	271
32.5	845	740	647	402	260	226	192	215	312	312
35.0	918	786	669	382	241	219	185	216	360	351
37.5	978	822	685	360	225	210	177	212	407	412
40.0	1026	852	697	339	209	196	168	201	454	422
42.5	1085	886	708	325	197	184	157	183	471	309
45.0	1162	950	740	330	186	171	143	163	385	213
47.5	1331	1067	800	344	175	155	125	138	213	157
50.0	1560	1222	867	358	160	127	101	114	118	123
52.5	1825	1380	932	369	133	89	69	80	77	102
55.0	2001	1464	947	359	99	59	49	52	54	85
57.5	2105	1484	910	320	72	47	39	37	40	69
60.0	2177	1443	796	269	62	42	33	28	31	58
62.5	2103	1256	580	205	56	38	28	23	26	49
65.0	1777	1006	405	145	49	33	24	19	22	42
67.5	1294	722	256	92	40	25	18	15	16	35
70.0	677	372	138	58	28	19	13	10	10	28
72.5	252	161	80	40	20	13	8	7	6	20
75.0	124	93	61	34	15	8	5	4	3	14
77.5	70	61	49	30	12	6	3	3	2	8
80.0	52	46	42	26	8	4	3	2	2	5
82.5	38	35	34	20	5	3	2	2	1	3
85.0	24	23	24	13	3	3	2	2	1	2
87.5	12	9	12	5	2	2	2	2	1	1
90.0	0	0	0	0	0	0	0	0	0	0

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

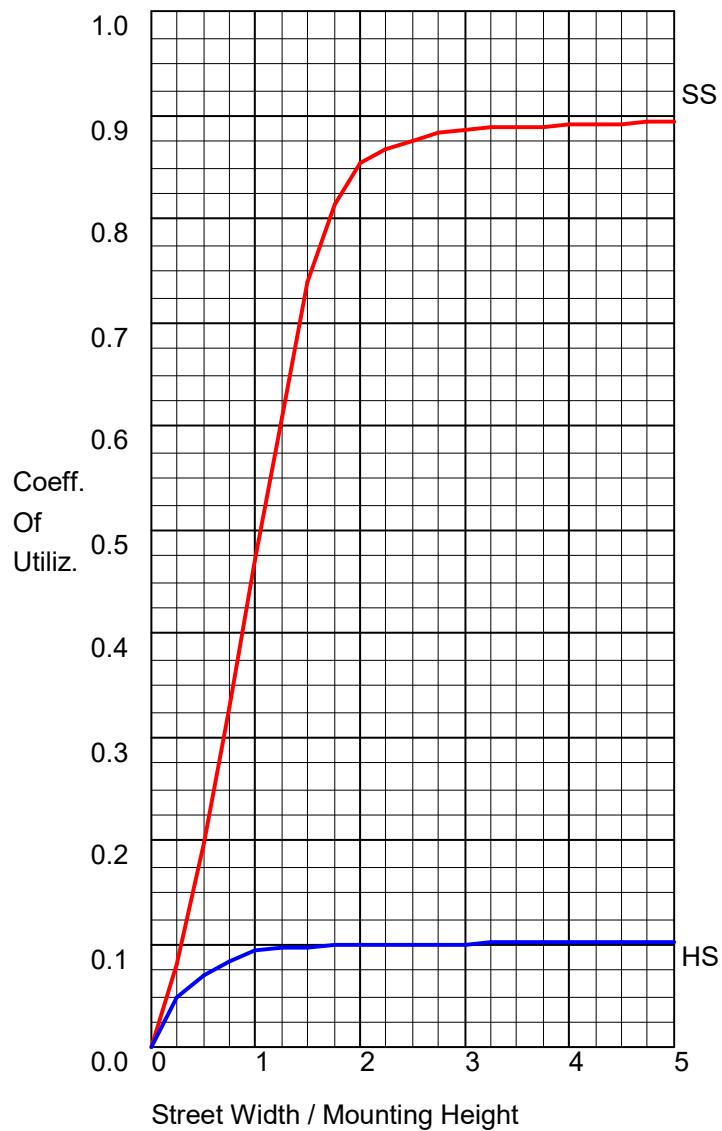
	<u>175.0</u>	<u>180.0</u>
0.0	462	462
2.5	465	468
5.0	478	481
7.5	476	474
10.0	408	400
12.5	302	299
15.0	240	239
17.5	210	209
20.0	189	188
22.5	174	173
25.0	174	172
27.5	190	185
30.0	217	205
32.5	230	216
35.0	251	235
37.5	251	225
40.0	193	169
42.5	138	122
45.0	105	96
47.5	87	77
50.0	78	65
52.5	72	56
55.0	69	51
57.5	69	54
60.0	72	59
62.5	75	65
65.0	75	69

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	71	68
<b>70.0</b>	62	60
<b>72.5</b>	49	49
<b>75.0</b>	36	37
<b>77.5</b>	24	27
<b>80.0</b>	18	19
<b>82.5</b>	12	13
<b>85.0</b>	7	8
<b>87.5</b>	4	4
<b>90.0</b>	0	0

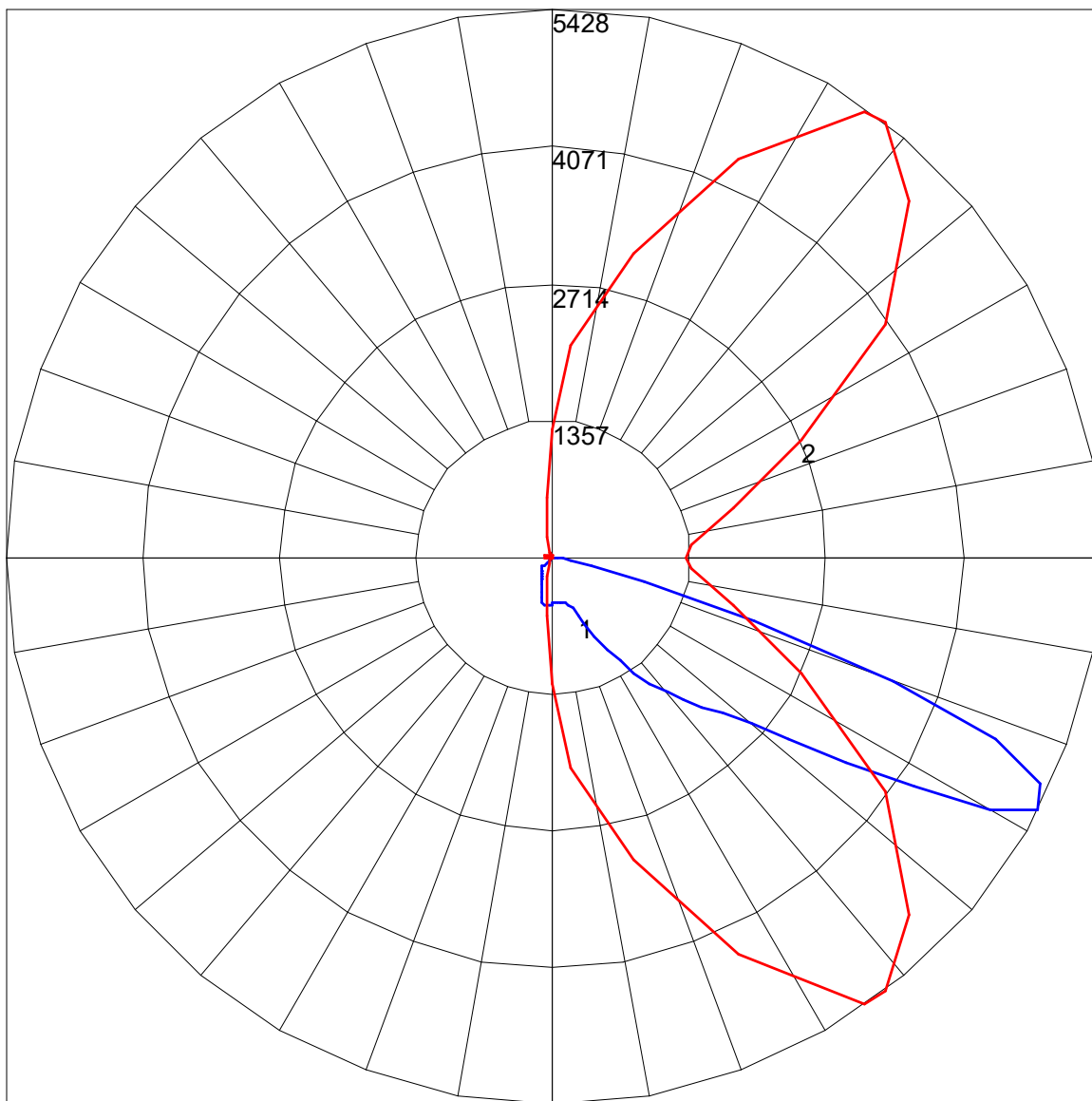
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

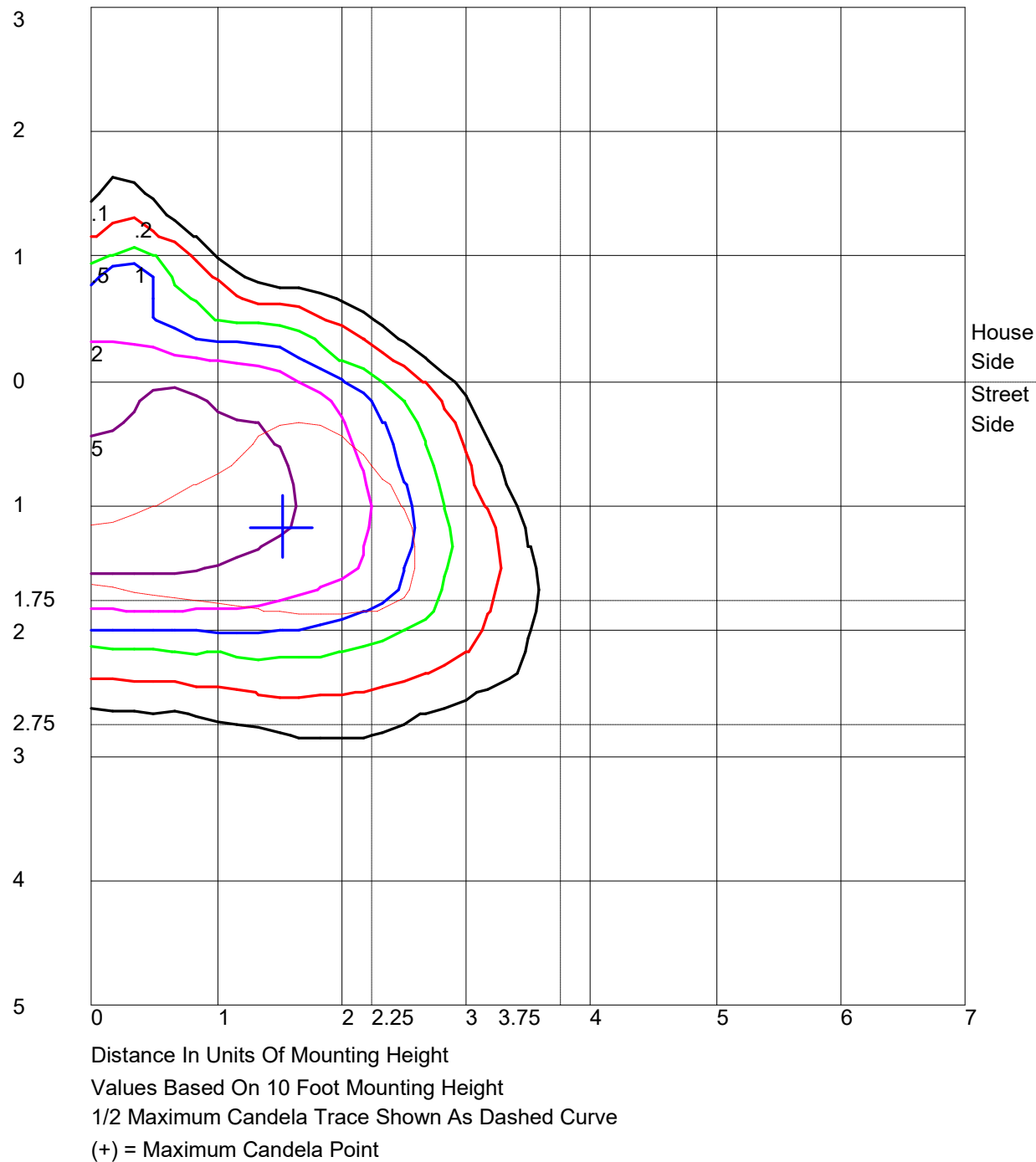
	Lumens	Percent Of Luminaire
Downward Street Side	4533.3	89.8
Downward House Side	513.9	10.2
Downward Total	5047.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5047.2	100.0

POLAR GRAPH



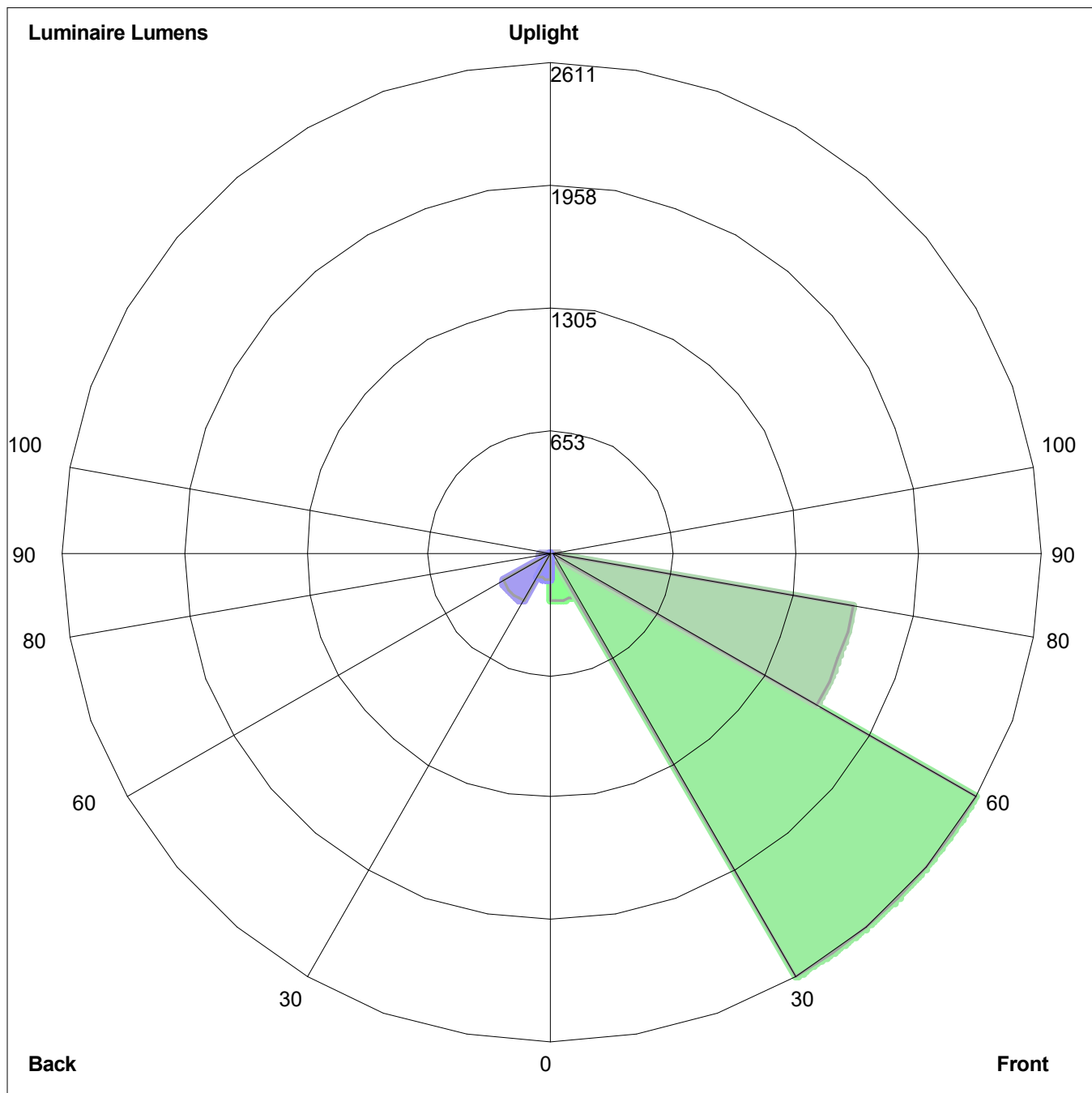
Maximum Candela = 5428 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=258.8, Medium=2610.6, High=1631.4, Very High=32.5  
Back: Low=144.1, Medium=300.7, High=65.7, Very High=3.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1