



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-25L-50-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11792  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 05/01/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-2-LED-25L-50-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22739
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	227.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20715
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	20715
Maximum Candela Angle (<90 Degrees Vertical)	75H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1265 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2214.5	N.A.	9.7
FM - Front-Medium (30-60)	10791.7	N.A.	47.5
FH - Front-High (60-80)	5351.2	N.A.	23.5
FVH - Front-Very High (80-90)	92.5	N.A.	0.4
BL - Back-Low (0-30)	1457.5	N.A.	6.4
BM - Back-Medium (30-60)	2172.2	N.A.	9.6
BH - Back-High (60-80)	652.2	N.A.	2.9
BVH - Back-Very High (80-90)	7.5	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	22739.3	N.A.	100.0
BUG Rating	B3-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>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>	<u><b>77.5</b></u>
<b>0.0</b>	4186	4186	4186	4186	4186	4186	4186	4186	4186	4186
<b>2.5</b>	4265	4263	4281	4275	4262	4257	4245	4217	4220	4177
<b>5.0</b>	4387	4350	4360	4369	4362	4346	4342	4307	4280	4236
<b>7.5</b>	4450	4439	4456	4456	4465	4450	4448	4407	4391	4336
<b>10.0</b>	4517	4509	4539	4549	4559	4574	4571	4543	4498	4467
<b>12.5</b>	4623	4607	4626	4639	4689	4701	4706	4698	4657	4625
<b>15.0</b>	4688	4677	4716	4756	4815	4850	4871	4859	4825	4815
<b>17.5</b>	4753	4773	4822	4864	4941	5028	5074	5070	5058	5042
<b>20.0</b>	4873	4909	4940	5019	5097	5208	5263	5327	5321	5271
<b>22.5</b>	5067	5086	5145	5215	5313	5397	5518	5609	5589	5561
<b>25.0</b>	5313	5331	5384	5446	5528	5640	5788	5900	5921	5896
<b>27.5</b>	5577	5591	5635	5745	5850	5951	6049	6231	6272	6244
<b>30.0</b>	5930	5950	6015	6079	6219	6321	6440	6588	6633	6636
<b>32.5</b>	6344	6360	6410	6529	6633	6766	6839	6959	7050	7076
<b>35.0</b>	6776	6771	6871	7007	7175	7272	7299	7368	7468	7507
<b>37.5</b>	7233	7239	7322	7499	7707	7847	7816	7847	7946	8024
<b>40.0</b>	7694	7710	7810	8035	8317	8487	8472	8420	8509	8598
<b>42.5</b>	8069	8125	8263	8573	8960	9211	9164	9047	9094	9351
<b>45.0</b>	8345	8394	8622	8979	9498	9942	9969	9765	9853	10024
<b>47.5</b>	8447	8421	8707	9231	9908	10663	10962	10665	10706	10865
<b>50.0</b>	8154	8118	8449	9119	10190	11294	11969	11859	11828	11967
<b>52.5</b>	7439	7457	7800	8539	9924	11758	13118	13213	13189	13345
<b>55.0</b>	6346	6349	6748	7576	9160	11740	14203	14649	14697	14893
<b>57.5</b>	4923	4958	5394	6174	7811	11095	14954	16251	16525	16733
<b>60.0</b>	3330	3366	3764	4542	6129	9690	15106	17954	18463	18622
<b>62.5</b>	1831	1893	2196	2805	4128	7682	14483	18879	19934	20146
<b>65.0</b>	982	990	1163	1542	2451	5528	12760	18392	20715	20533
<b>67.5</b>	601	617	671	922	1457	3481	9822	16116	19434	19004
<b>70.0</b>	391	391	424	568	936	1988	6619	12278	14888	14131
<b>72.5</b>	259	266	281	367	636	1270	3876	7798	8802	7950
<b>75.0</b>	159	161	168	220	409	929	1892	4655	4346	3582
<b>77.5</b>	85	88	91	117	235	644	994	2554	2210	1755
<b>80.0</b>	73	75	71	76	111	361	586	1079	1265	1028
<b>82.5</b>	77	77	73	76	87	146	273	387	737	642
<b>85.0</b>	61	62	58	61	75	113	128	181	327	306
<b>87.5</b>	40	39	36	37	44	68	81	117	117	113
<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>	4186	4186	4186	4186	4186	4186	4186	4186	4186	4186
<b>2.5</b>	4221	4199	4202	4180	4160	4158	4141	4134	4136	4147
<b>5.0</b>	4277	4246	4218	4171	4152	4119	4096	4074	4039	4033
<b>7.5</b>	4346	4300	4302	4204	4159	4082	4037	4000	3971	3950
<b>10.0</b>	4459	4425	4362	4243	4171	4076	4010	3941	3886	3853
<b>12.5</b>	4606	4540	4490	4312	4196	4075	3943	3849	3808	3763
<b>15.0</b>	4774	4703	4609	4409	4240	4032	3883	3802	3739	3715
<b>17.5</b>	4975	4872	4795	4488	4247	4015	3835	3725	3628	3516
<b>20.0</b>	5226	5106	4978	4622	4276	3983	3774	3553	3138	2773
<b>22.5</b>	5493	5370	5208	4758	4292	3965	3621	2920	2312	1854
<b>25.0</b>	5792	5621	5417	4888	4331	3874	3040	2148	1426	996
<b>27.5</b>	6138	5961	5717	5021	4342	3608	2331	1301	849	690

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**CANDELA TABULATION - (Cont.)**

30.0	6523	6301	5991	5123	4363	3045	1574	832	654	592
32.5	6936	6690	6317	5251	4236	2393	981	664	577	537
35.0	7377	7097	6621	5360	3887	1660	737	587	530	493
37.5	7882	7535	7011	5483	3357	1059	629	532	484	441
40.0	8412	8045	7360	5561	2690	774	564	484	428	375
42.5	9065	8597	7810	5529	1868	657	507	433	356	293
45.0	9748	9176	8263	5346	1153	584	455	361	272	212
47.5	10559	9899	8709	4895	831	525	395	281	194	148
50.0	11593	10712	9264	4188	684	456	321	204	134	102
52.5	12788	11725	9833	3231	587	386	241	136	90	67
55.0	14216	12778	10326	2136	522	315	172	90	57	44
57.5	15768	13847	10668	1379	476	247	117	57	35	25
60.0	17195	14452	10681	1051	444	187	73	33	15	8
62.5	18159	14534	9966	841	409	139	42	13	7	5
65.0	17957	13667	8352	674	348	101	21	7	4	3
67.5	15356	10957	5904	513	245	63	8	4	3	2
70.0	10297	6851	3250	366	156	36	5	3	3	2
72.5	4760	3335	1515	264	89	14	3	3	2	1
75.0	1830	1465	717	166	48	8	3	2	1	0
77.5	944	843	404	96	22	5	2	1	1	0
80.0	603	525	253	41	8	2	0	1	1	0
82.5	397	281	143	15	5	1	1	1	2	1
85.0	224	141	58	4	1	1	1	2	2	1
87.5	77	37	3	0	0	0	1	2	2	1
90.0	0	0	0	0	0	0	0	0	0	0

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

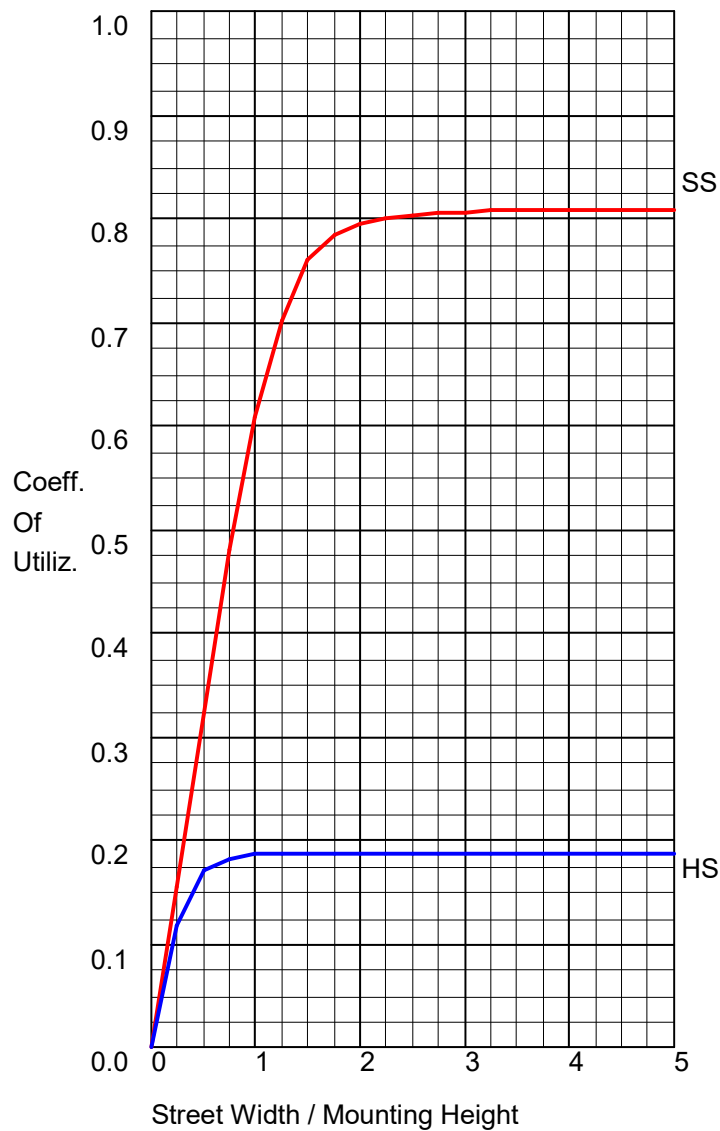
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	4186	4186
2.5	4117	4116
5.0	4037	4021
7.5	3933	3913
10.0	3829	3816
12.5	3752	3752
15.0	3673	3659
17.5	3387	3352
20.0	2546	2518
22.5	1579	1550
25.0	869	860
27.5	645	636
30.0	566	564
32.5	517	510
35.0	468	467
37.5	415	411
40.0	349	344
42.5	265	257
45.0	189	183
47.5	128	127
50.0	87	85
52.5	58	57
55.0	37	36
57.5	18	17
60.0	5	5
62.5	2	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

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

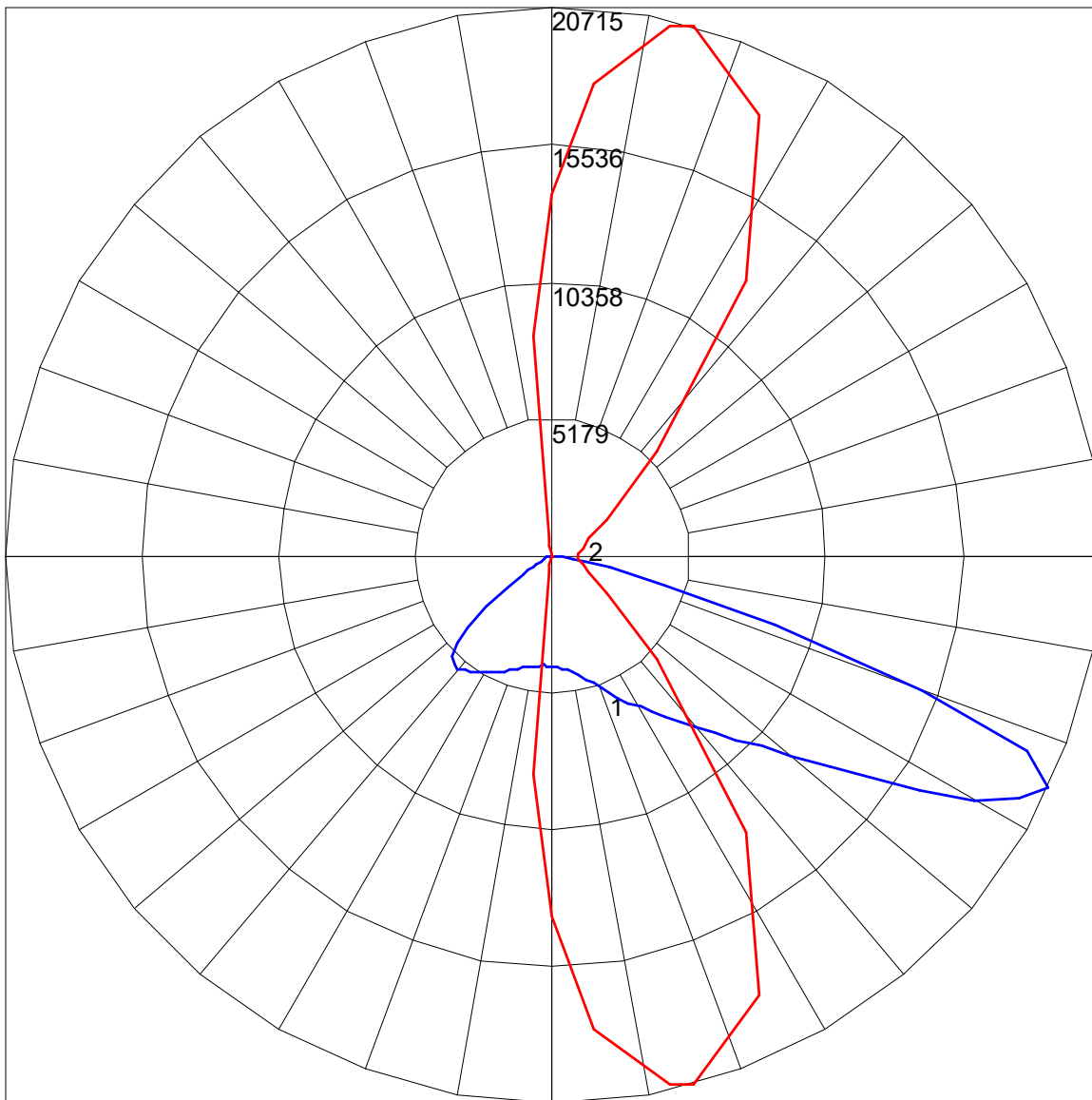
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

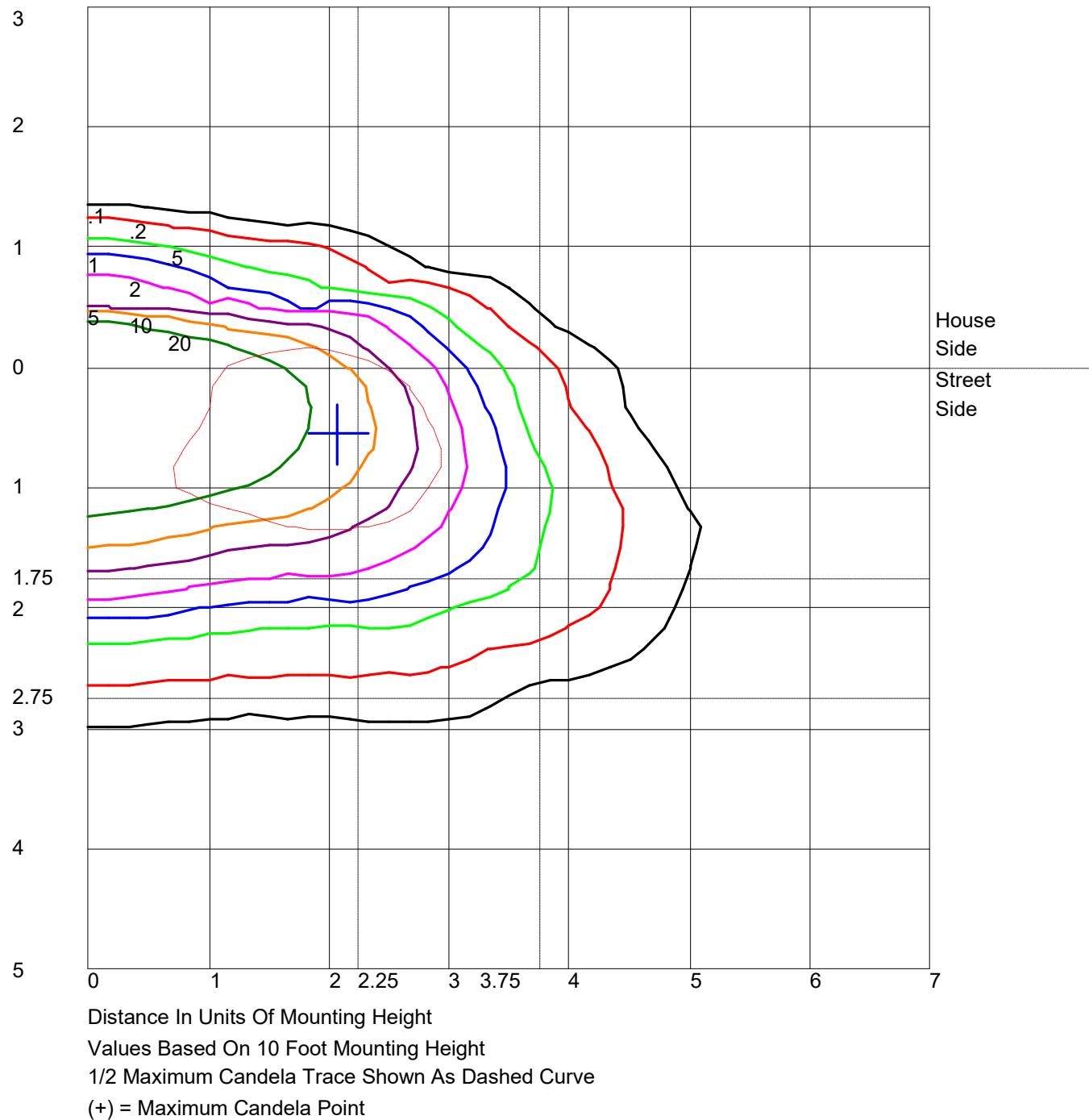
	Lumens	Percent Of Luminaire
Downward Street Side	18449.8	81.1
Downward House Side	4289.4	18.9
Downward Total	22739.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22739.2	100.0

POLAR GRAPH



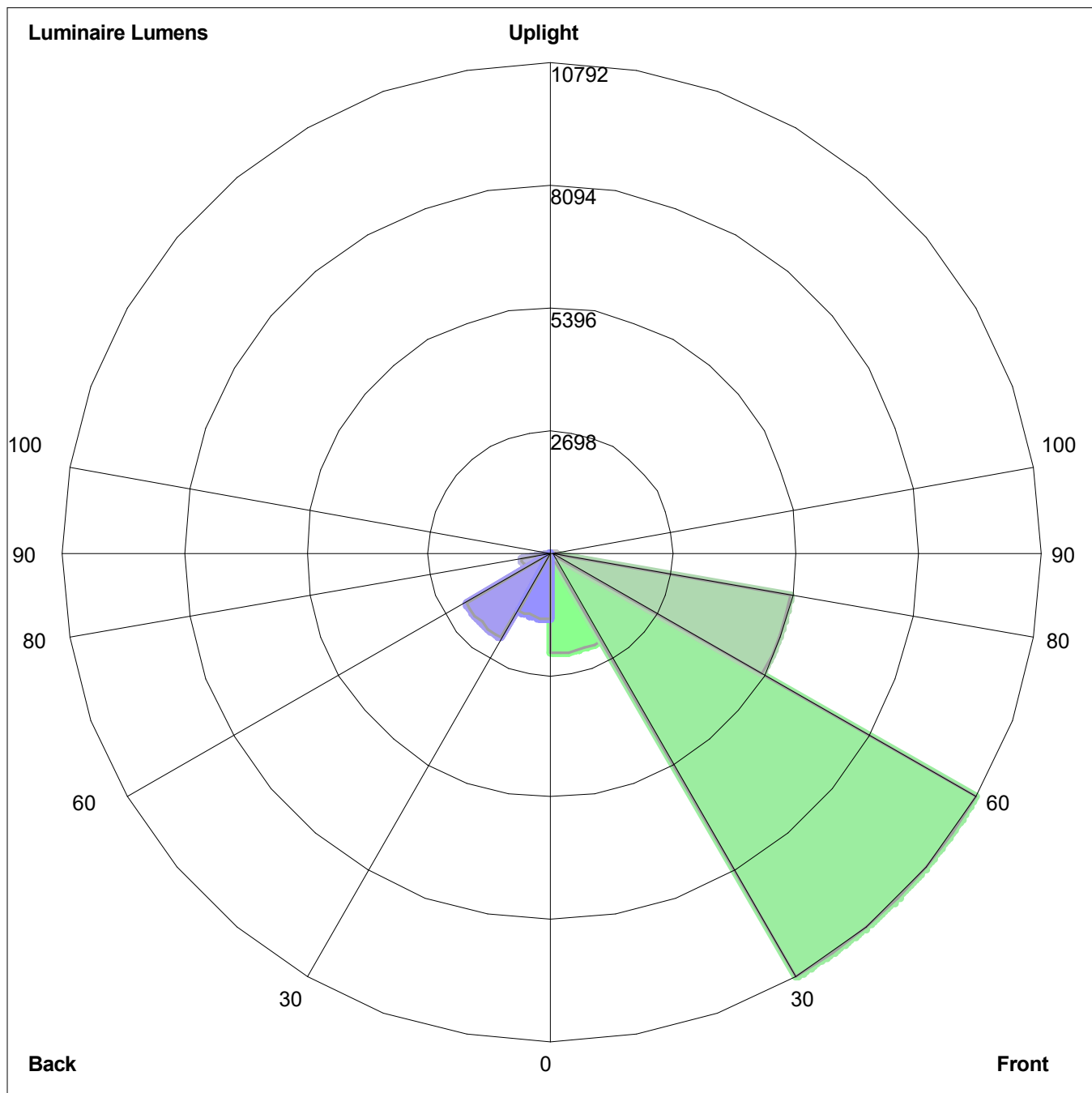
Maximum Candela = 20715 Located At Horizontal Angle = 75, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2214.5, Medium=10791.7, High=5351.2, Very High=92.5  
Back: Low=1457.5, Medium=2172.2, High=652.2, Very High=7.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3