



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-25L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11750  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/24/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-5W-LED-25L-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	23630
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	227.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11386
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	11386
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	22 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1037 (4.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	720.1	N.A.	3.0
FM - Front-Medium (30-60)	5629.1	N.A.	23.8
FH - Front-High (60-80)	5344.1	N.A.	22.6
FVH - Front-Very High (80-90)	97.8	N.A.	0.4
BL - Back-Low (0-30)	720.1	N.A.	3.0
BM - Back-Medium (30-60)	5629.1	N.A.	23.8
BH - Back-High (60-80)	5344.1	N.A.	22.6
BVH - Back-Very High (80-90)	97.8	N.A.	0.4
UL - Uplight-Low (90-100)	14.5	N.A.	0.1
UH - Uplight-High (100-180)	33.0	N.A.	0.1
Total	23629.7	N.A.	100.0
BUG Rating	B5-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>85</b>
<b>0.0</b>	1005	1005	1005	1005	1005	1005	1005	1005	1005	1005
<b>2.5</b>	991	994	1002	1013	1011	1007	1006	1000	1005	1005
<b>5.0</b>	944	956	974	978	996	964	976	966	960	956
<b>7.5</b>	935	952	976	930	952	934	957	997	1016	995
<b>10.0</b>	983	998	1006	948	979	995	1020	1015	1076	1037
<b>12.5</b>	1112	1148	1099	1078	1106	1088	1097	1106	1137	1141
<b>15.0</b>	1233	1279	1237	1266	1294	1253	1241	1217	1243	1238
<b>17.5</b>	1347	1392	1374	1397	1447	1477	1408	1378	1412	1395
<b>20.0</b>	1546	1580	1554	1593	1635	1661	1643	1571	1583	1574
<b>22.5</b>	1701	1706	1758	1807	1846	1873	1917	1815	1799	1826
<b>25.0</b>	1891	1865	1941	2054	2105	2145	2198	2126	2000	2046
<b>27.5</b>	2110	2182	2273	2299	2382	2451	2480	2438	2299	2297
<b>30.0</b>	2396	2360	2440	2609	2672	2848	2869	2795	2619	2598
<b>32.5</b>	2790	2832	2799	2853	3059	3200	3279	3187	2985	2820
<b>35.0</b>	3134	3112	3119	3269	3404	3659	3710	3570	3413	3147
<b>37.5</b>	3549	3554	3521	3581	3856	4044	4110	3984	3721	3471
<b>40.0</b>	3810	3856	3883	4027	4254	4452	4521	4411	4136	3698
<b>42.5</b>	4043	4103	4152	4317	4672	4787	4891	4713	4421	3932
<b>45.0</b>	4276	4345	4403	4638	4969	5172	5187	5000	4709	4200
<b>47.5</b>	4531	4599	4718	4897	5279	5455	5453	5283	4993	4471
<b>50.0</b>	4797	4871	5015	5164	5517	5730	5769	5618	5342	4791
<b>52.5</b>	5032	5127	5287	5463	5783	6027	6080	5953	5690	5119
<b>55.0</b>	5318	5435	5602	5802	6108	6393	6474	6371	6091	5573
<b>57.5</b>	5733	5815	5989	6240	6587	6949	7086	6928	6622	6031
<b>60.0</b>	6190	6242	6468	6735	7260	7768	7781	7426	6942	6283
<b>62.5</b>	6485	6584	6848	7242	7973	8639	8486	7725	7087	6353
<b>65.0</b>	6557	6674	7033	7636	8767	9661	8974	7877	7120	6307
<b>67.5</b>	5720	5880	6465	7514	9327	10788	9620	8117	7019	6030
<b>70.0</b>	4020	4159	4707	6133	8958	11386	9649	7386	5730	4567
<b>72.5</b>	2203	2307	2809	3839	6776	9691	7616	5099	3458	2592
<b>75.0</b>	877	914	1106	1774	3882	6230	4329	2549	1521	1144
<b>77.5</b>	403	420	493	735	1546	2695	1855	1126	670	529
<b>80.0</b>	210	216	243	348	655	1037	818	508	322	295
<b>82.5</b>	149	150	162	203	286	380	313	274	223	217
<b>85.0</b>	102	102	109	133	174	193	180	172	141	138
<b>87.5</b>	58	57	61	69	84	88	82	76	64	55
<b>90.0</b>	14	14	17	16	19	22	20	17	15	11
<b>92.5</b>	10	10	13	14	17	21	20	18	15	11
<b>95.0</b>	9	9	11	12	15	19	18	16	14	9
<b>97.5</b>	8	8	9	10	12	15	15	14	12	8
<b>100.0</b>	6	6	7	8	10	12	12	11	9	6
<b>102.5</b>	5	6	7	7	8	10	10	9	8	5
<b>105.0</b>	5	5	6	7	8	9	8	8	7	5
<b>107.5</b>	5	5	6	7	7	8	8	7	7	5
<b>110.0</b>	5	6	7	7	7	7	7	7	7	5
<b>112.5</b>	6	6	7	7	8	8	7	7	7	6
<b>115.0</b>	6	6	7	8	8	8	8	8	7	6
<b>117.5</b>	7	7	8	9	9	9	8	8	8	7
<b>120.0</b>	7	8	9	9	10	10	9	9	8	8
<b>122.5</b>	8	8	9	10	11	11	9	9	9	8
<b>125.0</b>	9	9	10	11	11	11	9	9	10	9
<b>127.5</b>	9	9	10	11	11	11	9	9	9	10
<b>130.0</b>	9	9	11	11	11	11	9	10	10	10

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**CANDELA TABULATION - (Cont.)**

132.5	9	9	10	10	10	10	9	9	10	9
135.0	8	8	9	9	9	8	7	8	8	8
137.5	5	5	5	5	5	5	5	5	5	5
140.0	3	3	3	3	3	2	2	3	3	3
142.5	3	3	3	3	3	2	2	2	3	3
145.0	3	3	3	3	2	2	2	2	2	3
147.5	3	3	3	3	2	2	2	2	3	3
150.0	3	3	3	3	2	2	2	2	2	3
152.5	3	3	3	3	2	2	2	2	3	3
155.0	3	3	3	2	2	2	2	2	2	2
157.5	2	2	2	2	2	2	2	2	2	2
160.0	2	2	2	2	2	2	2	2	2	2
162.5	2	2	2	2	2	1	2	2	2	2
165.0	2	2	2	2	1	1	2	2	2	2
167.5	2	2	2	2	1	1	2	2	2	2
170.0	2	2	2	2	1	1	2	2	2	2
172.5	1	1	2	1	1	1	1	1	2	2
175.0	1	1	2	1	1	1	1	1	2	2
177.5	1	1	1	1	1	1	1	1	1	2
180.0	1	1	1	1	1	1	1	1	1	1

**Vert. Horizontal Angles**

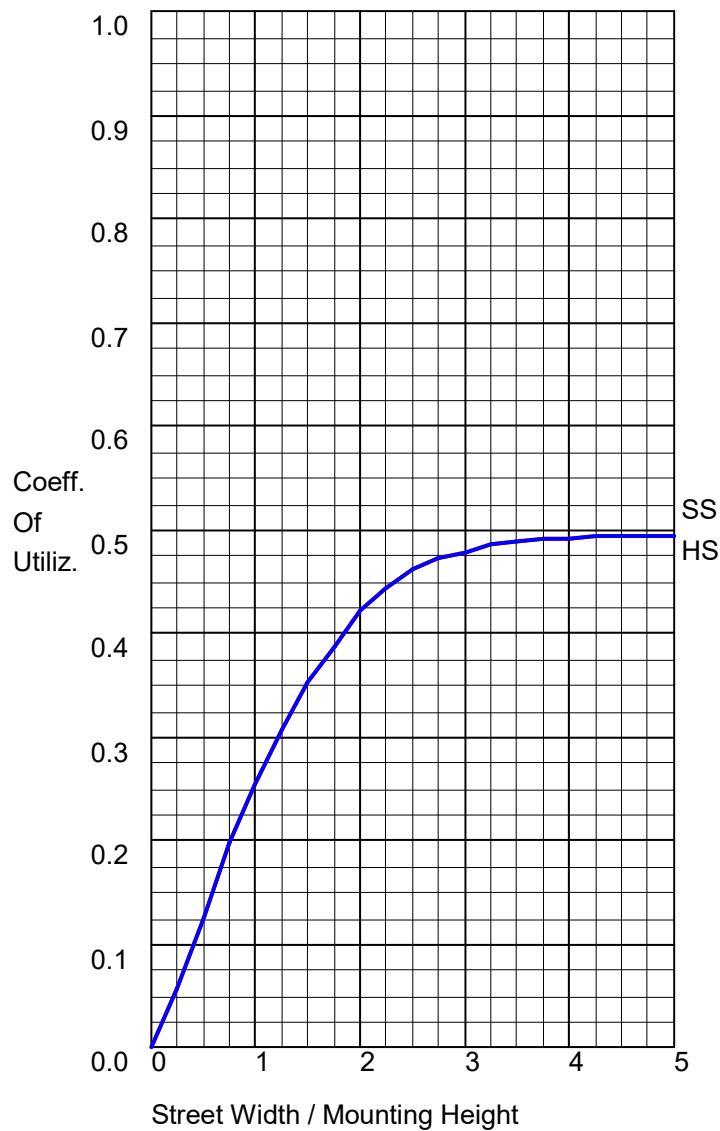
	<b>90</b>
0.0	1005
2.5	999
5.0	963
7.5	1008
10.0	1037
12.5	1143
15.0	1247
17.5	1383
20.0	1583
22.5	1798
25.0	2031
27.5	2283
30.0	2538
32.5	2820
35.0	3102
37.5	3440
40.0	3690
42.5	3923
45.0	4184
47.5	4441
50.0	4762
52.5	5095
55.0	5443
57.5	5844
60.0	5999
62.5	6062
65.0	5986
67.5	5702
70.0	4288
72.5	2442
75.0	1084
77.5	503

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CANDELA TABULATION - (Cont.)

80.0	286
82.5	209
85.0	131
87.5	46
90.0	8
92.5	8
95.0	7
97.5	6
100.0	5
102.5	5
105.0	5
107.5	5
110.0	6
112.5	6
115.0	7
117.5	7
120.0	8
122.5	8
125.0	9
127.5	10
130.0	9
132.5	9
135.0	8
137.5	5
140.0	3
142.5	3
145.0	3
147.5	3
150.0	3
152.5	3
155.0	3
157.5	2
160.0	2
162.5	2
165.0	2
167.5	2
170.0	2
172.5	2
175.0	2
177.5	2
180.0	1

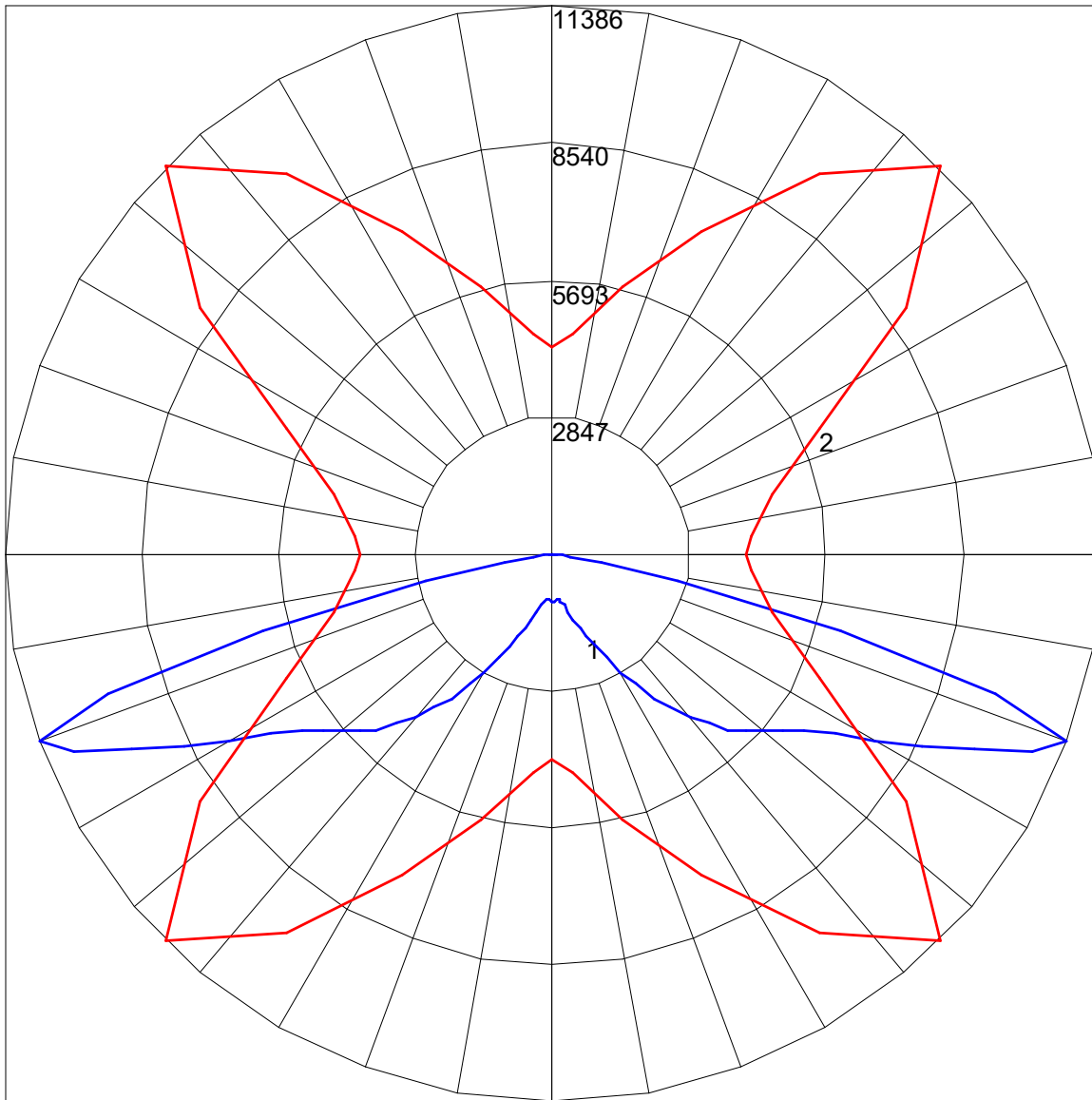
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

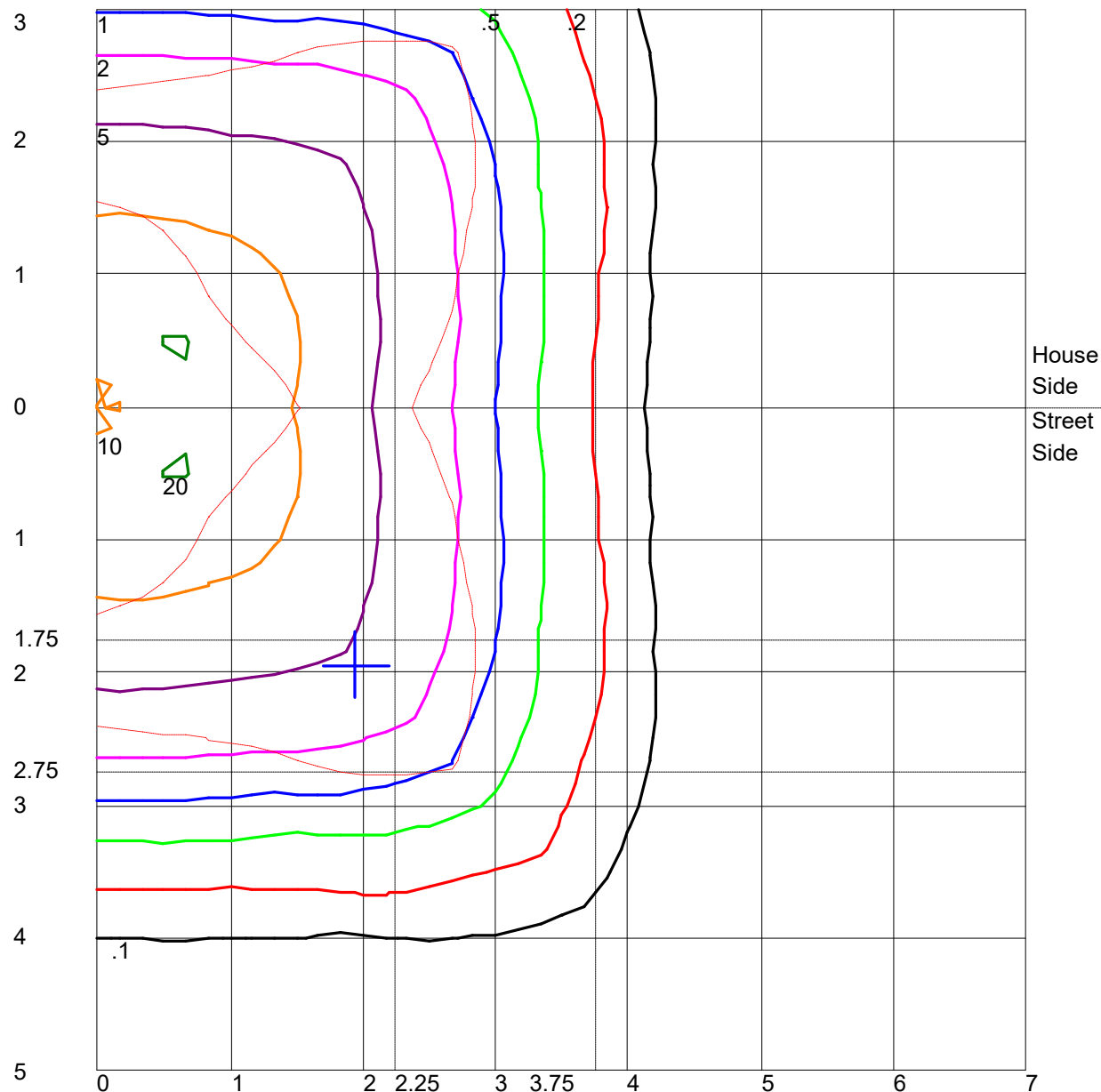
	Lumens	Percent Of Luminaire
Downward Street Side	11791.1	49.9
Downward House Side	11791.1	49.9
Downward Total	23582.2	99.8
Upward Street Side	23.7	0.1
Upward House Side	23.7	0.1
Upward Total	47.4	0.2
Total Flux	23629.6	100.0

POLAR GRAPH



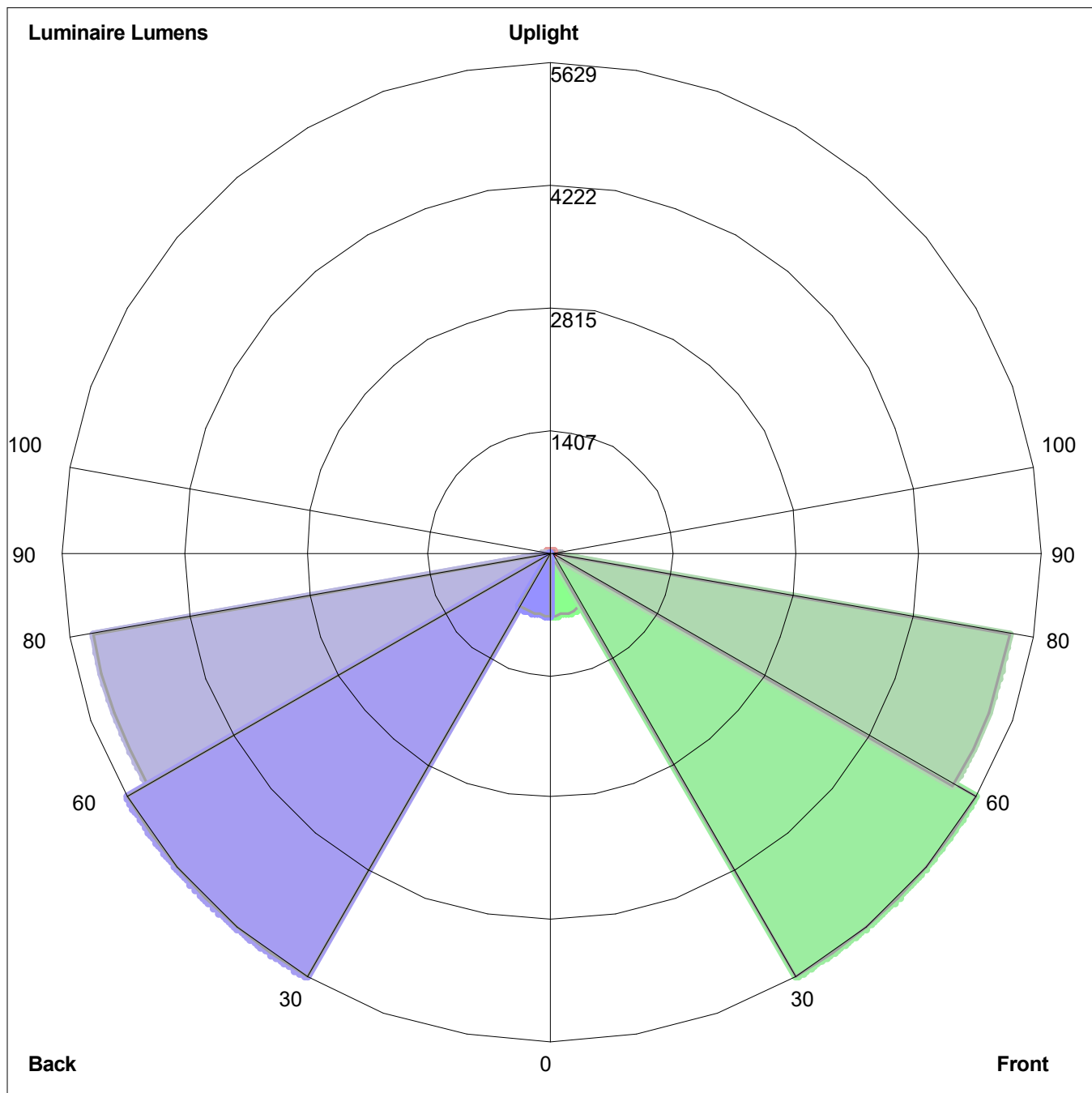
Maximum Candela = 11386 Located At Horizontal Angle = 45, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=720.1, Medium=5629.1, High=5344.1, Very High=97.8  
Back: Low=720.1, Medium=5629.1, High=5344.1, Very High=97.8  
Uplight: Low=14.5, High=33.0

BUG Rating : B5-U2-G3