



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13234  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/07/22  
[TEST DATE] 02/02/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] XCN4-PT-5W-LED-18L-40  
[OTHER] TEST PROCEDURE: IESNA LM-79-19  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 4000

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20118
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	148.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11899
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	11899
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	19 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1281 (6.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-40.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	647.7	N.A.	3.2
FM - Front-Medium (30-60)	4132.2	N.A.	20.5
FH - Front-High (60-80)	5182.3	N.A.	25.8
FVH - Front-Very High (80-90)	75.4	N.A.	0.4
BL - Back-Low (0-30)	647.7	N.A.	3.2
BM - Back-Medium (30-60)	4132.2	N.A.	20.5
BH - Back-High (60-80)	5182.3	N.A.	25.8
BVH - Back-Very High (80-90)	75.4	N.A.	0.4
UL - Uplight-Low (90-100)	14.7	N.A.	0.1
UH - Uplight-High (100-180)	28.5	N.A.	0.1
Total	20118.4	N.A.	100.0
BUG Rating	B5-U2-G3		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-40.IES**

**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097
<b>2.5</b>	1119	1118	1113	1105	1093	1080	1073	1072	1074	1075
<b>5.0</b>	1046	1049	1042	1046	1080	1115	1084	1090	1060	1038
<b>7.5</b>	1007	1002	1000	995	995	999	1040	1120	1076	1048
<b>10.0</b>	1034	1016	1034	1019	1023	1019	1031	1072	1155	1080
<b>12.5</b>	1071	1085	1072	1055	1061	1095	1072	1106	1200	1176
<b>15.0</b>	1158	1140	1150	1130	1120	1139	1185	1174	1276	1262
<b>17.5</b>	1301	1250	1274	1242	1252	1226	1269	1304	1361	1367
<b>20.0</b>	1487	1485	1406	1350	1370	1378	1374	1437	1483	1517
<b>22.5</b>	1683	1664	1635	1604	1505	1528	1516	1565	1604	1642
<b>25.0</b>	1952	1945	1852	1792	1782	1692	1704	1760	1781	1834
<b>27.5</b>	2171	2141	2137	2122	2008	1988	1921	1914	1988	2035
<b>30.0</b>	2439	2417	2370	2338	2365	2224	2133	2115	2143	2210
<b>32.5</b>	2556	2563	2637	2676	2622	2570	2358	2309	2323	2316
<b>35.0</b>	2672	2682	2778	2890	2913	2823	2641	2429	2422	2431
<b>37.5</b>	2802	2818	2922	3052	3128	3097	2836	2621	2568	2570
<b>40.0</b>	2951	2968	3085	3223	3345	3290	3036	2735	2718	2724
<b>42.5</b>	3125	3140	3267	3428	3564	3504	3261	2898	2865	2885
<b>45.0</b>	3311	3329	3463	3665	3780	3722	3468	3083	3044	3054
<b>47.5</b>	3513	3535	3679	3888	4023	3969	3679	3246	3226	3242
<b>50.0</b>	3735	3761	3905	4117	4268	4243	3926	3448	3410	3446
<b>52.5</b>	3989	4007	4150	4368	4548	4509	4187	3710	3630	3660
<b>55.0</b>	4267	4265	4414	4644	4842	4806	4478	3955	3866	3899
<b>57.5</b>	4609	4603	4739	4962	5190	5199	4800	4213	4143	4187
<b>60.0</b>	4952	4964	5109	5353	5622	5715	5213	4559	4477	4539
<b>62.5</b>	5316	5340	5523	5827	6233	6348	5783	5048	4938	4944
<b>65.0</b>	5857	5896	6111	6475	7048	7270	6580	5755	5558	5520
<b>67.5</b>	6516	6582	7040	7670	8418	8728	7797	6830	6430	6407
<b>70.0</b>	5607	5608	6443	8099	10480	11671	9719	7618	6216	5761
<b>72.5</b>	3072	3154	4081	5948	9115	11899	9006	5681	3964	3429
<b>75.0</b>	908	975	1307	2553	5767	8594	5593	2748	1572	1338
<b>77.5</b>	438	456	599	947	2010	3784	2203	1116	653	570
<b>80.0</b>	141	140	185	371	803	1281	922	436	246	221
<b>82.5</b>	78	75	80	123	238	417	254	158	123	136
<b>85.0</b>	48	47	46	62	99	141	109	85	72	82
<b>87.5</b>	23	22	22	26	37	45	43	39	34	32
<b>90.0</b>	4	4	6	8	12	15	18	19	19	16
<b>92.5</b>	4	4	6	9	13	18	20	21	20	17
<b>95.0</b>	4	4	6	9	14	19	21	22	21	18
<b>97.5</b>	4	4	5	8	13	17	19	20	19	18
<b>100.0</b>	4	4	5	7	10	13	15	17	17	16
<b>102.5</b>	4	4	5	6	8	10	12	14	14	13
<b>105.0</b>	4	4	5	6	7	8	9	11	11	10
<b>107.5</b>	4	4	5	5	6	6	7	8	8	7
<b>110.0</b>	4	4	5	5	5	5	6	6	6	6
<b>112.5</b>	4	4	4	5	5	5	5	6	6	5
<b>115.0</b>	4	4	5	5	5	5	6	6	5	5
<b>117.5</b>	4	4	5	5	6	6	6	6	5	5
<b>120.0</b>	5	5	5	6	6	6	7	6	6	5
<b>122.5</b>	5	5	6	6	7	7	7	7	6	5
<b>125.0</b>	5	5	6	6	6	7	7	7	6	5
<b>127.5</b>	6	6	6	6	6	6	7	7	6	5
<b>130.0</b>	6	6	6	6	6	6	7	7	6	5

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-40.IES**

**CANDELA TABULATION - (Cont.)**

132.5	6	6	7	7	6	7	7	7	6	5
135.0	7	7	7	7	6	6	7	7	6	5
137.5	7	7	7	7	7	7	7	7	7	6
140.0	7	7	8	7	7	7	7	7	7	6
142.5	7	7	7	6	6	6	7	7	7	5
145.0	4	4	4	4	3	4	4	5	5	4
147.5	2	2	2	2	2	2	2	2	3	3
150.0	2	2	2	2	2	1	2	2	3	3
152.5	2	2	2	2	2	1	2	2	3	3
155.0	2	2	2	2	2	1	2	2	3	3
157.5	2	2	2	2	2	1	2	2	3	3
160.0	2	2	2	2	2	1	2	2	3	3
162.5	2	2	2	2	1	1	1	2	2	3
165.0	2	2	2	2	1	1	1	2	2	2
167.5	2	2	2	2	1	1	1	2	3	2
170.0	2	2	2	2	1	1	1	2	2	2
172.5	1	1	2	1	1	1	1	2	2	2
175.0	1	1	1	1	1	1	1	2	2	2
177.5	1	1	1	1	1	1	1	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

**Vert. Horizontal Angles**

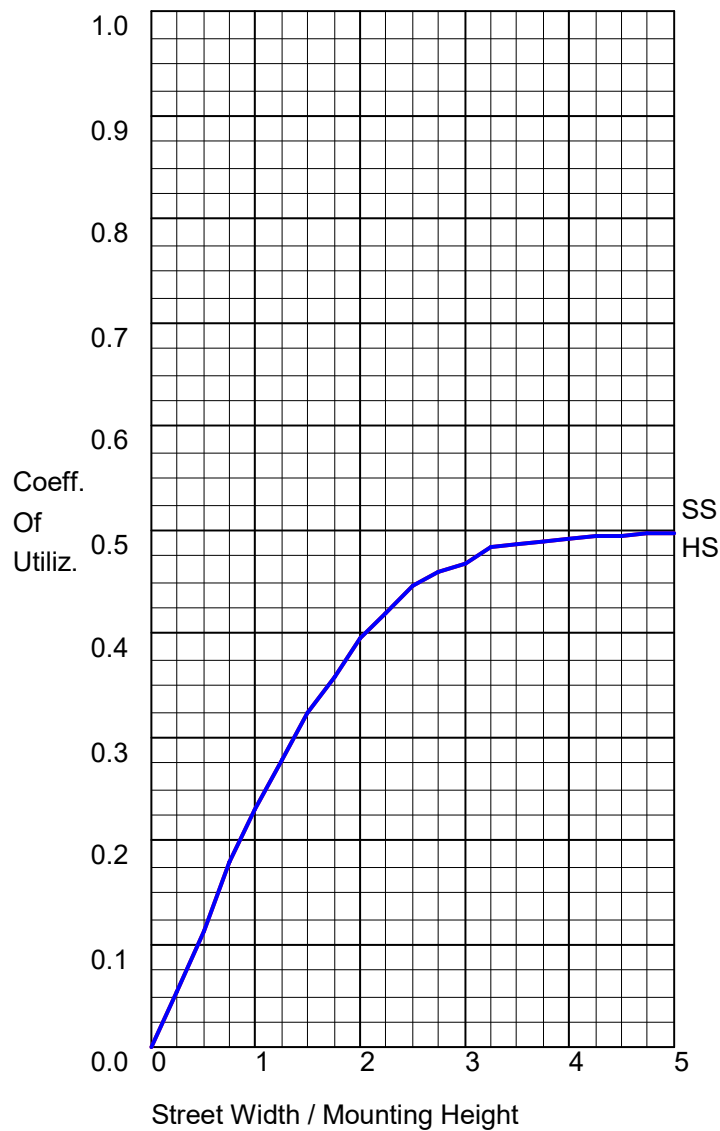
	<b>90</b>
0.0	1097
2.5	1075
5.0	1029
7.5	1045
10.0	1067
12.5	1145
15.0	1241
17.5	1348
20.0	1478
22.5	1637
25.0	1782
27.5	1948
30.0	2119
32.5	2217
35.0	2326
37.5	2446
40.0	2578
42.5	2736
45.0	2901
47.5	3065
50.0	3258
52.5	3458
55.0	3678
57.5	3941
60.0	4240
62.5	4601
65.0	5170
67.5	6081
70.0	5471
72.5	3242
75.0	1274
77.5	553

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	<b>213</b>
<b>82.5</b>	<b>121</b>
<b>85.0</b>	<b>65</b>
<b>87.5</b>	<b>20</b>
<b>90.0</b>	<b>5</b>
<b>92.5</b>	<b>6</b>
<b>95.0</b>	<b>6</b>
<b>97.5</b>	<b>6</b>
<b>100.0</b>	<b>6</b>
<b>102.5</b>	<b>5</b>
<b>105.0</b>	<b>5</b>
<b>107.5</b>	<b>5</b>
<b>110.0</b>	<b>4</b>
<b>112.5</b>	<b>4</b>
<b>115.0</b>	<b>4</b>
<b>117.5</b>	<b>4</b>
<b>120.0</b>	<b>4</b>
<b>122.5</b>	<b>4</b>
<b>125.0</b>	<b>5</b>
<b>127.5</b>	<b>5</b>
<b>130.0</b>	<b>5</b>
<b>132.5</b>	<b>5</b>
<b>135.0</b>	<b>5</b>
<b>137.5</b>	<b>6</b>
<b>140.0</b>	<b>6</b>
<b>142.5</b>	<b>6</b>
<b>145.0</b>	<b>4</b>
<b>147.5</b>	<b>3</b>
<b>150.0</b>	<b>3</b>
<b>152.5</b>	<b>3</b>
<b>155.0</b>	<b>3</b>
<b>157.5</b>	<b>3</b>
<b>160.0</b>	<b>3</b>
<b>162.5</b>	<b>3</b>
<b>165.0</b>	<b>2</b>
<b>167.5</b>	<b>2</b>
<b>170.0</b>	<b>2</b>
<b>172.5</b>	<b>2</b>
<b>175.0</b>	<b>2</b>
<b>177.5</b>	<b>2</b>
<b>180.0</b>	<b>1</b>

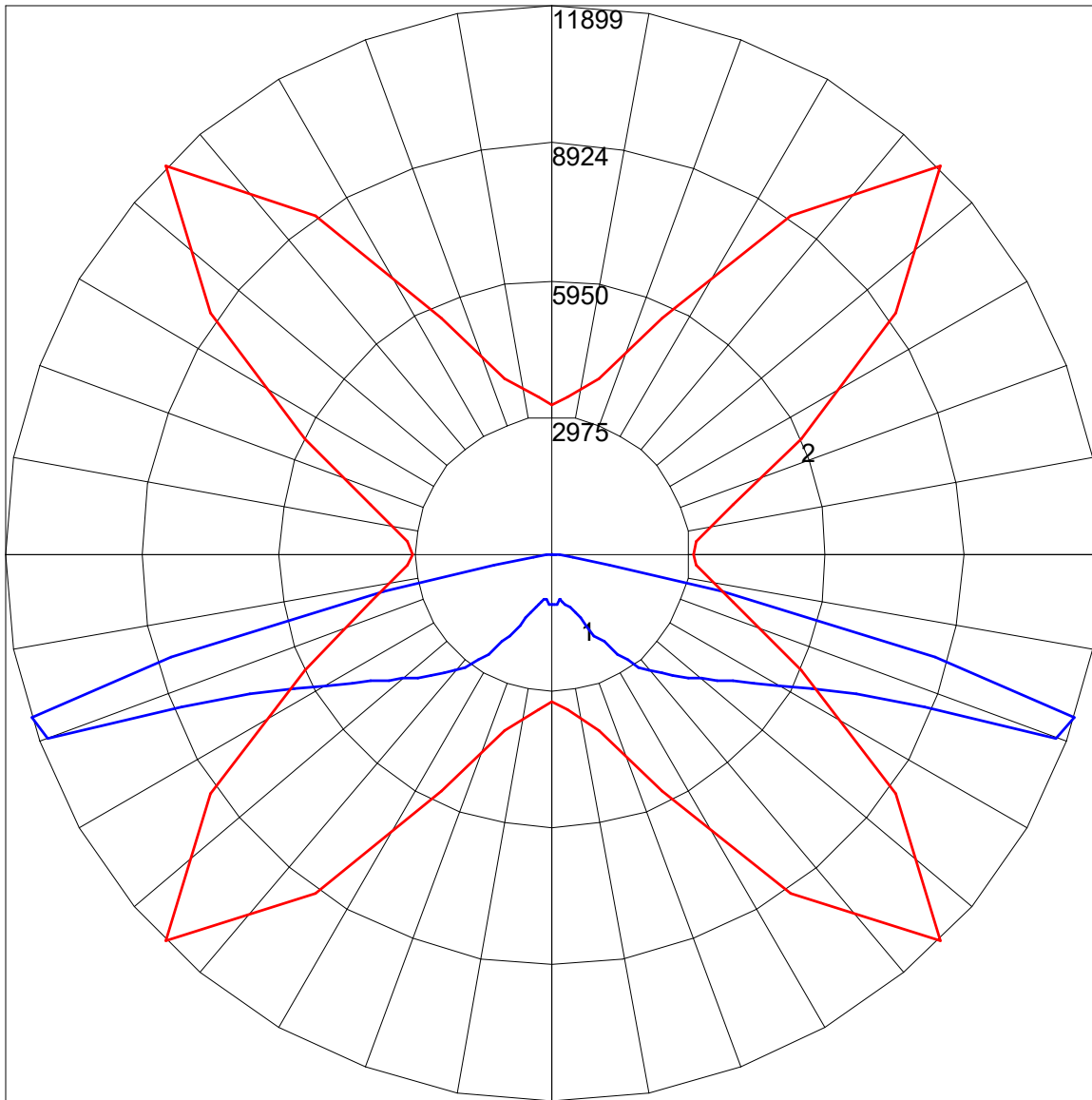
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

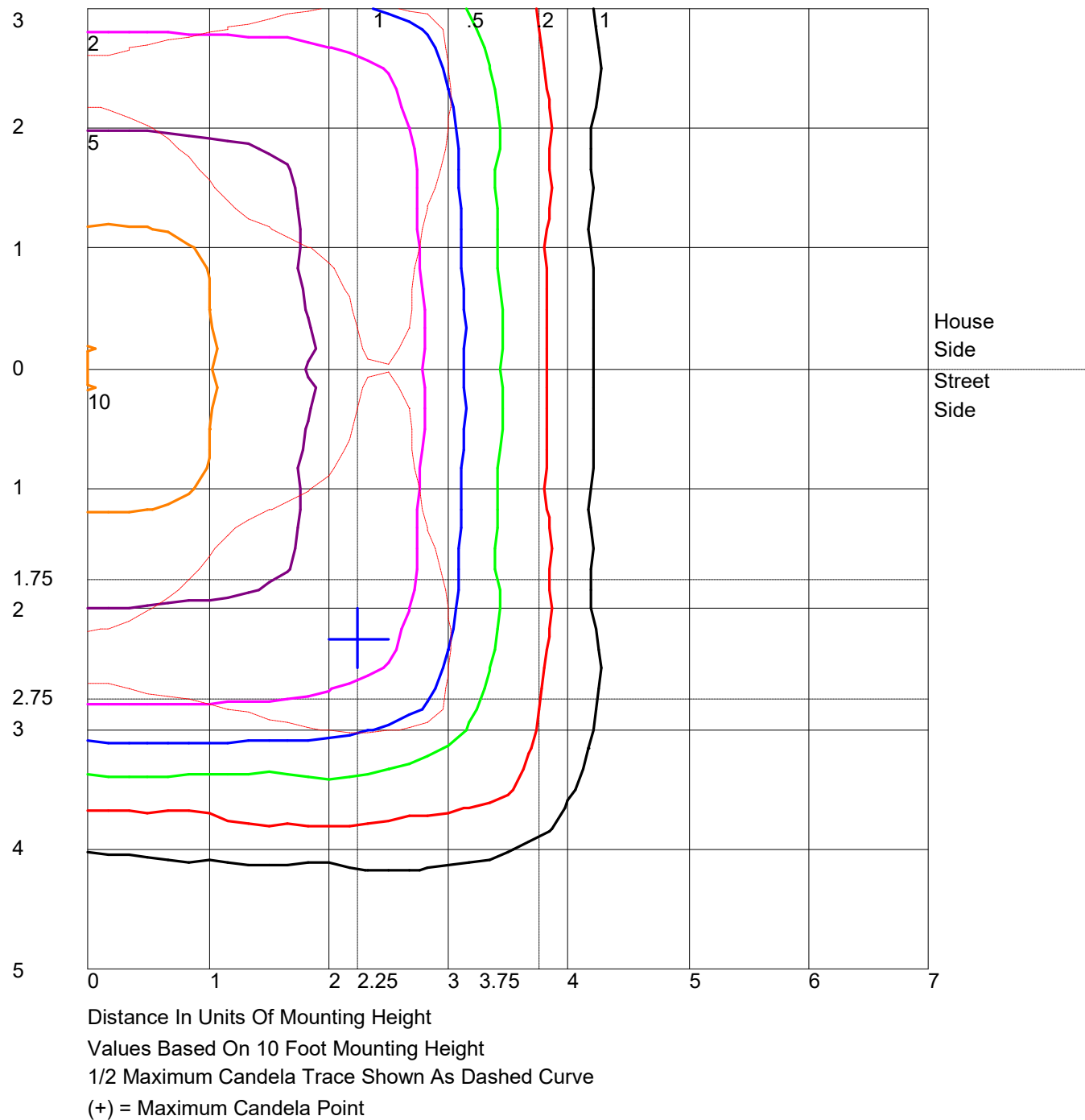
	Lumens	Percent Of Luminaire
Downward Street Side	10037.5	49.9
Downward House Side	10037.5	49.9
Downward Total	20075.0	99.8
Upward Street Side	21.6	0.1
Upward House Side	21.6	0.1
Upward Total	43.2	0.2
Total Flux	20118.2	100.0

POLAR GRAPH



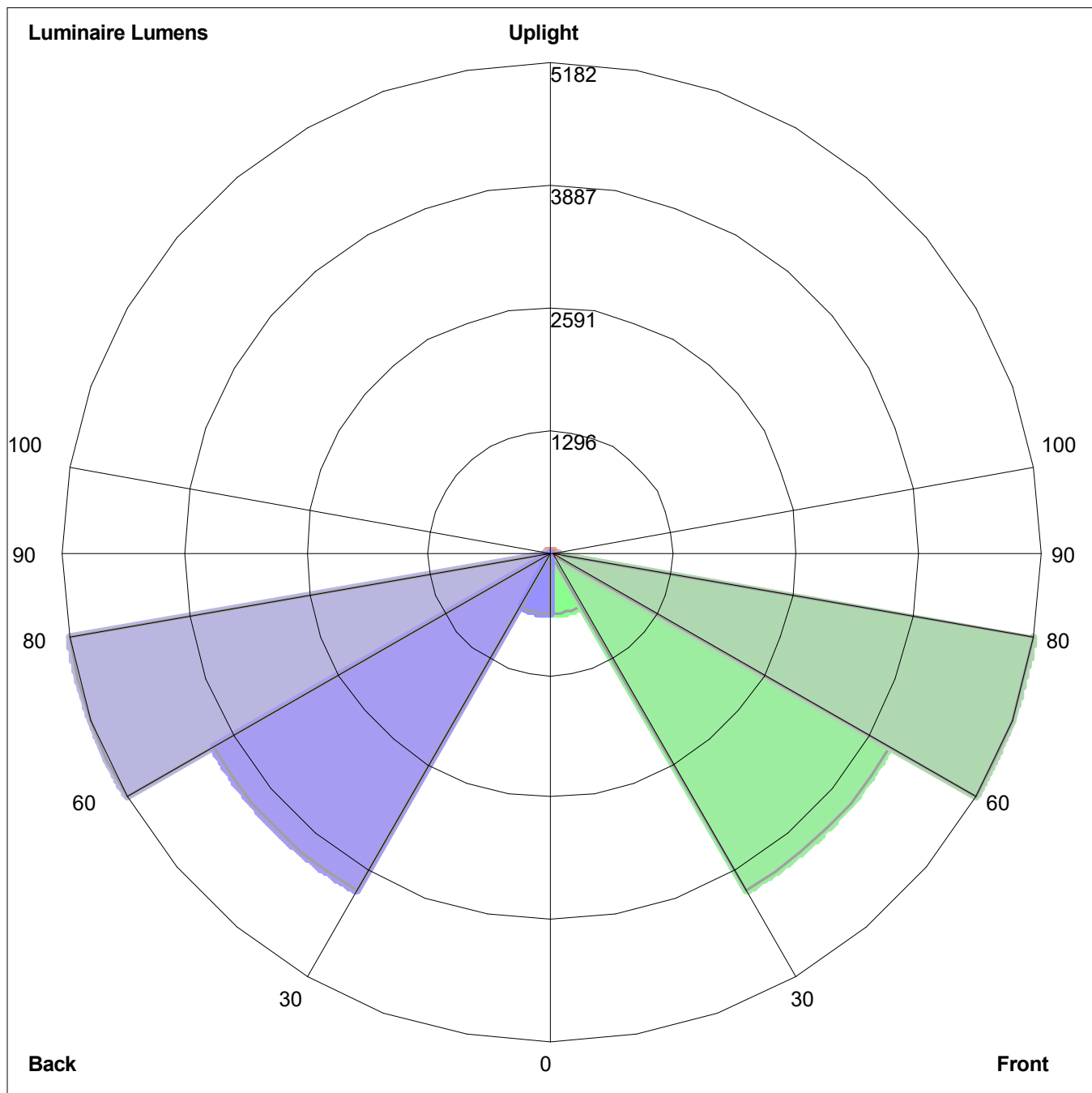
Maximum Candela = 11899 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=647.7, Medium=4132.2, High=5182.3, Very High=75.4  
Back: Low=647.7, Medium=4132.2, High=5182.3, Very High=75.4  
Uplight: Low=14.7, High=28.5

BUG Rating : B5-U2-G3