



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13226  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/07/22  
[TEST DATE] 01/24/22  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] XCN4-PT-5W-LED-25L-50  
[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] 5000

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28666
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16476
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	16476
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	29 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1548 (5.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-50.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	936.9	N.A.	3.3
FM - Front-Medium (30-60)	6133.1	N.A.	21.4
FH - Front-High (60-80)	7135.4	N.A.	24.9
FVH - Front-Very High (80-90)	96.2	N.A.	0.3
BL - Back-Low (0-30)	936.9	N.A.	3.3
BM - Back-Medium (30-60)	6133.1	N.A.	21.4
BH - Back-High (60-80)	7135.4	N.A.	24.9
BVH - Back-Very High (80-90)	96.2	N.A.	0.3
UL - Uplight-Low (90-100)	21.1	N.A.	0.1
UH - Uplight-High (100-180)	41.7	N.A.	0.1
Total	28666.0	N.A.	100.0
BUG Rating	B5-U2-G3		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-50.IES**

**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>	1576	1576	1576	1576	1576	1576	1576	1576	1576	1576
<b>2.5</b>	1599	1605	1610	1598	1591	1572	1565	1552	1542	1545
<b>5.0</b>	1517	1521	1515	1518	1549	1573	1601	1554	1536	1501
<b>7.5</b>	1437	1443	1436	1433	1432	1433	1478	1565	1544	1511
<b>10.0</b>	1516	1472	1495	1459	1468	1455	1469	1534	1664	1556
<b>12.5</b>	1540	1537	1535	1518	1518	1546	1555	1585	1708	1696
<b>15.0</b>	1631	1618	1645	1638	1587	1617	1692	1675	1853	1830
<b>17.5</b>	1834	1785	1804	1766	1767	1756	1817	1881	1965	1991
<b>20.0</b>	2114	2114	2021	1929	1950	1966	1978	2073	2147	2199
<b>22.5</b>	2409	2396	2328	2291	2164	2187	2196	2273	2339	2404
<b>25.0</b>	2807	2835	2697	2574	2576	2439	2486	2554	2616	2681
<b>27.5</b>	3132	3122	3118	3066	2919	2879	2772	2829	2930	2988
<b>30.0</b>	3505	3529	3453	3429	3450	3258	3108	3114	3186	3293
<b>32.5</b>	3741	3766	3879	3935	3842	3757	3457	3407	3455	3482
<b>35.0</b>	3926	3953	4099	4265	4291	4197	3875	3616	3621	3677
<b>37.5</b>	4134	4162	4326	4516	4628	4565	4175	3832	3829	3895
<b>40.0</b>	4369	4403	4572	4790	4976	4865	4483	4066	4058	4124
<b>42.5</b>	4644	4678	4843	5085	5284	5150	4793	4296	4276	4380
<b>45.0</b>	4919	4955	5152	5451	5598	5495	5143	4568	4550	4639
<b>47.5</b>	5223	5260	5464	5780	5943	5908	5485	4847	4803	4908
<b>50.0</b>	5546	5599	5803	6120	6353	6299	5824	5123	5084	5208
<b>52.5</b>	5901	5963	6167	6492	6760	6696	6201	5440	5406	5531
<b>55.0</b>	6269	6342	6552	6902	7209	7145	6629	5825	5757	5889
<b>57.5</b>	6681	6756	6989	7361	7724	7697	7123	6265	6183	6295
<b>60.0</b>	7113	7189	7485	7913	8375	8508	7748	6795	6676	6781
<b>62.5</b>	7606	7679	8032	8573	9238	9541	8601	7531	7289	7337
<b>65.0</b>	8405	8517	8868	9470	10417	10919	9789	8470	8069	8075
<b>67.5</b>	8757	8931	9760	10923	12310	12976	11647	9884	8984	8971
<b>70.0</b>	6969	7132	8209	10377	14149	16476	13646	10132	8173	7633
<b>72.5</b>	3872	3943	5095	7522	11654	15154	11275	7045	4986	4254
<b>75.0</b>	1374	1405	1824	3390	7119	10548	6803	3282	1896	1659
<b>77.5</b>	569	592	763	1239	2598	4522	2746	1391	821	676
<b>80.0</b>	191	193	243	446	1006	1548	1146	555	310	278
<b>82.5</b>	106	105	111	165	301	499	321	216	164	182
<b>85.0</b>	62	63	64	86	131	171	138	116	97	109
<b>87.5</b>	29	29	29	37	50	57	56	53	46	45
<b>90.0</b>	8	8	11	13	18	23	27	29	28	25
<b>92.5</b>	6	6	8	12	18	26	29	31	29	27
<b>95.0</b>	6	6	8	12	19	27	30	31	30	28
<b>97.5</b>	5	5	7	11	17	24	27	29	28	26
<b>100.0</b>	5	6	7	10	14	18	22	25	25	23
<b>102.5</b>	6	6	7	9	11	14	17	20	20	19
<b>105.0</b>	5	6	7	8	9	11	12	15	15	14
<b>107.5</b>	6	6	7	7	8	9	10	11	11	11
<b>110.0</b>	6	6	7	7	7	8	9	9	9	9
<b>112.5</b>	6	6	6	7	7	7	8	8	8	7
<b>115.0</b>	6	6	6	7	7	7	8	8	7	6
<b>117.5</b>	6	6	7	8	8	8	8	8	8	6
<b>120.0</b>	7	7	8	8	9	9	9	9	8	7
<b>122.5</b>	7	7	8	9	9	10	10	9	8	7
<b>125.0</b>	8	8	8	9	9	9	10	9	8	7
<b>127.5</b>	8	8	9	9	9	10	10	10	8	7
<b>130.0</b>	9	9	10	10	10	10	11	10	9	8

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-50.IES**

**CANDELA TABULATION - (Cont.)**

132.5	10	10	10	10	10	10	11	11	9	8
135.0	10	10	11	10	10	10	11	11	10	8
137.5	11	11	11	10	10	10	11	11	10	9
140.0	11	11	11	11	10	10	11	11	10	9
142.5	11	10	10	10	9	10	10	11	10	8
145.0	6	6	6	6	6	6	6	7	7	6
147.5	4	4	4	3	3	3	3	4	4	4
150.0	4	4	4	3	3	3	3	4	5	4
152.5	4	4	3	3	3	3	3	4	4	4
155.0	3	3	3	3	3	3	3	4	4	4
157.5	3	4	4	3	3	3	3	4	4	4
160.0	3	3	3	3	3	2	3	4	4	4
162.5	3	3	3	3	3	2	3	4	4	4
165.0	3	3	3	3	2	2	2	3	4	4
167.5	3	3	3	3	2	2	2	3	4	4
170.0	3	3	3	3	2	2	2	3	4	4
172.5	2	2	3	2	2	2	2	3	3	3
175.0	2	2	2	2	2	2	2	3	3	3
177.5	2	2	2	2	2	2	2	3	3	3
180.0	2	2	2	2	2	2	2	2	2	2

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

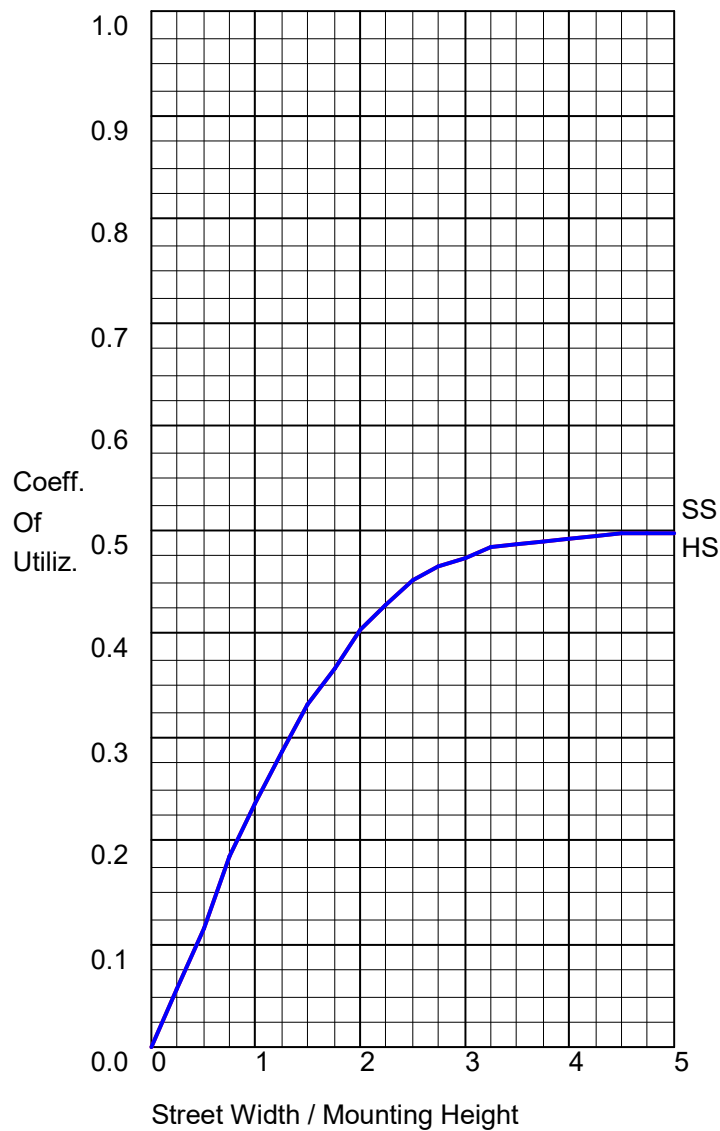
	<b>90</b>
0.0	1576
2.5	1541
5.0	1510
7.5	1509
10.0	1538
12.5	1660
15.0	1804
17.5	1949
20.0	2148
22.5	2377
25.0	2599
27.5	2861
30.0	3128
32.5	3283
35.0	3441
37.5	3634
40.0	3842
42.5	4071
45.0	4305
47.5	4550
50.0	4829
52.5	5137
55.0	5469
57.5	5853
60.0	6279
62.5	6743
65.0	7472
67.5	8562
70.0	7292
72.5	4178
75.0	1564
77.5	661

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-50.IES**

**CANDELA TABULATION - (Cont.)**

80.0	257
82.5	155
85.0	83
87.5	24
90.0	4
92.5	5
95.0	5
97.5	5
100.0	5
102.5	6
105.0	5
107.5	6
110.0	6
112.5	6
115.0	6
117.5	6
120.0	6
122.5	6
125.0	7
127.5	7
130.0	8
132.5	8
135.0	9
137.5	9
140.0	9
142.5	9
145.0	6
147.5	4
150.0	4
152.5	4
155.0	5
157.5	4
160.0	4
162.5	4
165.0	4
167.5	4
170.0	4
172.5	3
175.0	3
177.5	3
180.0	2

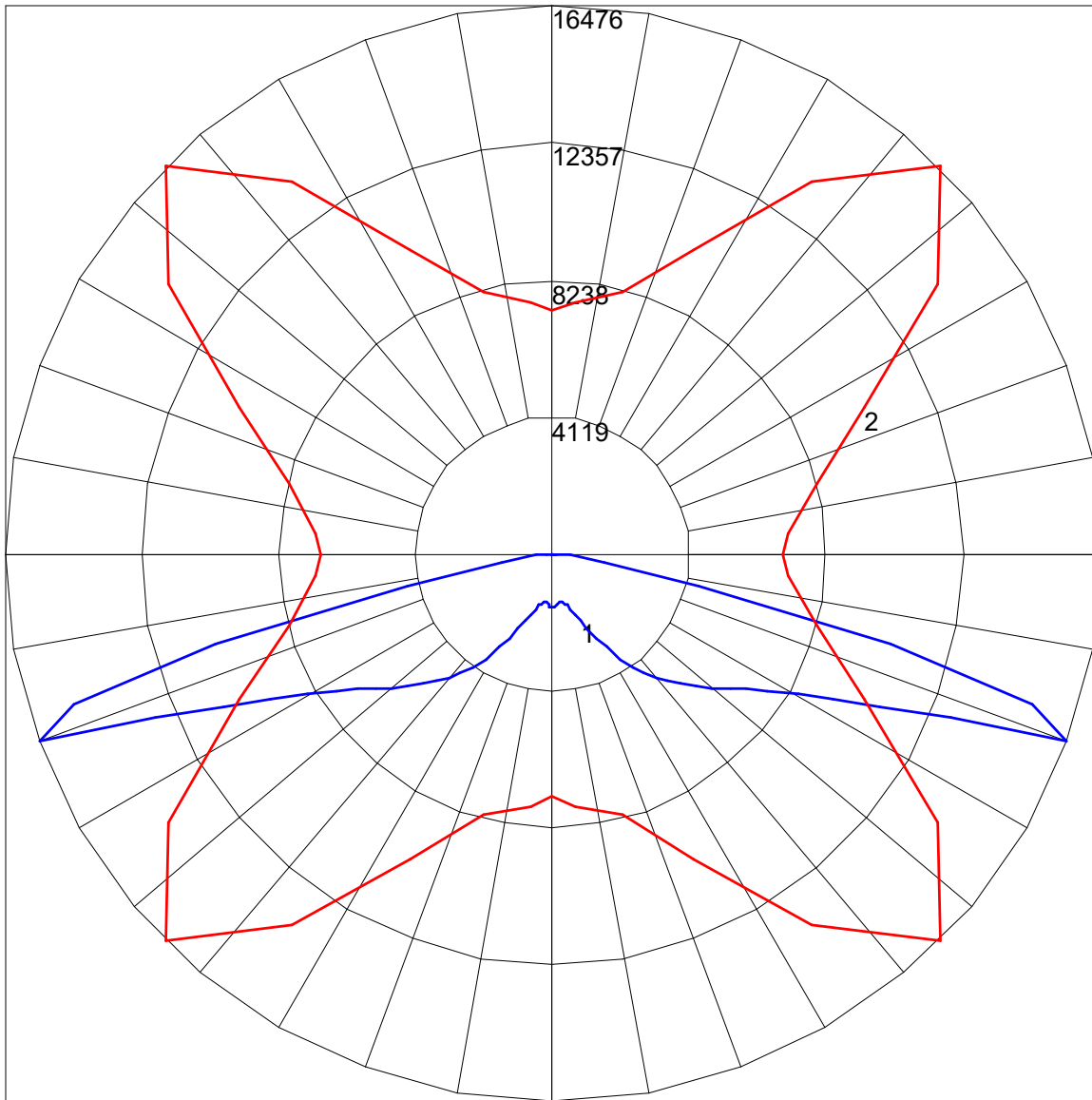
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

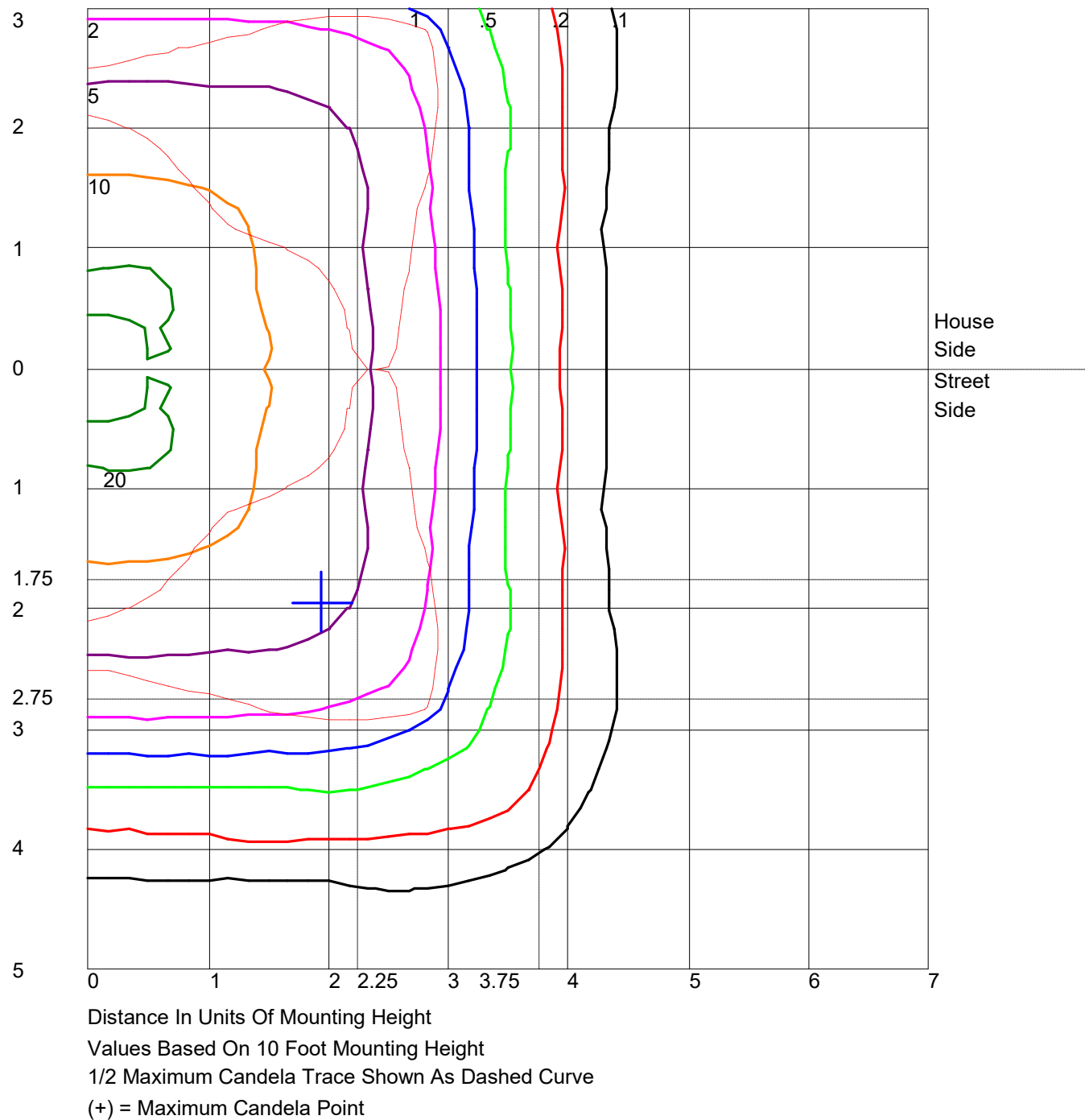
	Lumens	Percent Of Luminaire
Downward Street Side	14301.6	49.9
Downward House Side	14301.6	49.9
Downward Total	28603.2	99.8
Upward Street Side	31.4	0.1
Upward House Side	31.4	0.1
Upward Total	62.8	0.2
Total Flux	28666.0	100.0

POLAR GRAPH



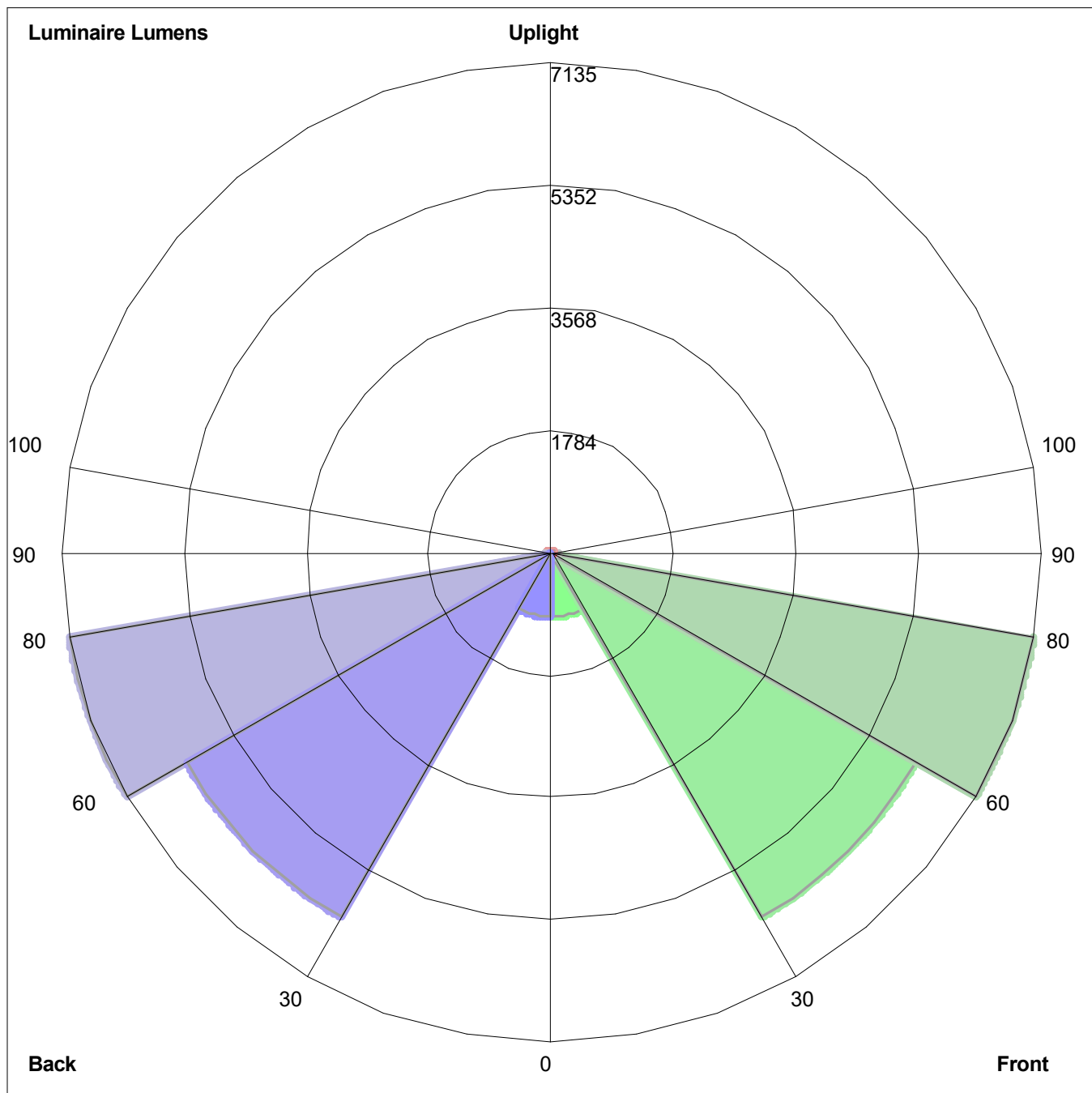
Maximum Candela = 16476 Located At Horizontal Angle = 45, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=936.9, Medium=6133.1, High=7135.4, Very High=96.2  
Back: Low=936.9, Medium=6133.1, High=7135.4, Very High=96.2  
Uplight: Low=21.1, High=41.7

BUG Rating : B5-U2-G3