



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13232
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 01/31/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-5W-LED-10L-30
[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] 3000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9801
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	74.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6094
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	6094
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	9 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	733 (7.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	314.7	N.A.	3.2
FM - Front-Medium (30-60)	1955.5	N.A.	20.0
FH - Front-High (60-80)	2578.1	N.A.	26.3
FVH - Front-Very High (80-90)	42.2	N.A.	0.4
BL - Back-Low (0-30)	314.7	N.A.	3.2
BM - Back-Medium (30-60)	1955.5	N.A.	20.0
BH - Back-High (60-80)	2578.1	N.A.	26.3
BVH - Back-Very High (80-90)	42.2	N.A.	0.4
UL - Uplight-Low (90-100)	6.8	N.A.	0.1
UH - Uplight-High (100-180)	13.1	N.A.	0.1
Total	9800.9	N.A.	100.0
BUG Rating	B4-U2-G2		

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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>
0.0	530	530	530	530	530	530	530	530	530	530
2.5	544	543	541	540	536	533	534	533	523	520
5.0	516	514	509	517	526	529	537	529	521	511
7.5	488	490	488	483	487	487	507	530	521	516
10.0	512	503	503	497	501	506	509	527	559	531
12.5	538	534	521	517	527	535	537	546	590	573
15.0	563	564	563	553	556	560	584	581	626	615
17.5	639	625	621	613	605	605	622	635	666	668
20.0	723	723	696	675	669	668	672	695	723	733
22.5	836	823	799	780	745	745	745	766	779	793
25.0	948	934	908	871	868	827	820	841	861	873
27.5	1052	1045	1031	1016	981	959	917	925	950	970
30.0	1154	1155	1139	1130	1128	1081	1008	1005	1030	1056
32.5	1228	1229	1258	1270	1255	1227	1129	1105	1094	1104
35.0	1281	1280	1324	1372	1389	1356	1253	1164	1152	1157
37.5	1337	1339	1389	1451	1487	1474	1351	1231	1213	1216
40.0	1403	1408	1459	1529	1588	1570	1454	1313	1285	1280
42.5	1480	1483	1539	1617	1691	1675	1549	1384	1353	1355
45.0	1570	1572	1629	1723	1790	1773	1652	1460	1438	1431
47.5	1666	1666	1730	1829	1900	1880	1756	1549	1519	1509
50.0	1765	1766	1835	1943	2015	2005	1860	1648	1605	1606
52.5	1881	1887	1953	2058	2145	2137	1980	1752	1709	1711
55.0	2013	2009	2082	2187	2282	2280	2107	1868	1823	1827
57.5	2186	2171	2234	2341	2445	2461	2262	1999	1965	1968
60.0	2373	2365	2427	2534	2650	2697	2470	2173	2126	2124
62.5	2579	2578	2640	2773	2935	3002	2741	2407	2345	2320
65.0	2851	2850	2929	3070	3312	3420	3097	2738	2653	2623
67.5	3199	3212	3397	3611	3944	4125	3706	3280	3126	3099
70.0	2977	3006	3403	4036	5061	5532	4697	3788	3162	2906
72.5	1679	1710	2209	3171	4759	6094	4655	3051	2160	1850
75.0	505	499	697	1360	3014	4584	3160	1638	919	725
77.5	234	244	311	481	1063	2141	1301	640	363	311
80.0	78	80	105	199	433	733	506	254	145	128
82.5	40	38	42	67	141	262	155	85	65	71
85.0	25	23	23	34	56	80	59	43	37	43
87.5	11	11	11	14	19	26	22	19	17	17
90.0	2	2	3	4	5	7	8	9	9	7
92.5	2	2	3	4	6	8	9	10	9	8
95.0	2	2	3	5	6	9	10	10	9	8
97.5	2	2	3	4	5	8	9	9	9	8
100.0	2	2	3	4	5	6	7	8	8	7
102.5	2	2	3	3	4	5	5	6	6	6
105.0	2	2	2	3	3	4	4	5	5	5
107.5	2	2	2	3	3	3	3	4	4	4
110.0	2	2	2	2	2	2	3	3	3	3
112.5	2	2	2	2	2	2	3	3	3	2
115.0	2	2	2	3	3	3	3	3	3	2
117.5	2	2	2	3	3	3	3	3	3	2
120.0	2	2	3	3	3	3	3	3	3	2
122.5	2	2	3	3	3	3	3	3	3	2
125.0	3	3	3	3	3	3	3	3	3	2
127.5	3	3	3	3	3	3	3	3	3	2
130.0	3	3	3	3	3	3	3	3	3	2

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CANDELA TABULATION - (Cont.)

132.5	3	3	3	3	3	3	3	3	3	2
135.0	3	3	3	3	3	3	3	3	3	2
137.5	3	3	3	3	3	3	3	3	3	3
140.0	3	3	3	3	3	3	3	3	3	3
142.5	3	3	3	3	3	3	3	3	3	2
145.0	2	2	2	2	1	1	2	2	2	2
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	0	0	0	1	1	1
152.5	1	1	1	1	0	0	0	1	1	1
155.0	1	1	1	1	1	0	1	1	1	1
157.5	1	1	1	1	0	0	0	1	1	1
160.0	1	1	1	1	1	0	1	1	1	1
162.5	1	1	1	1	0	0	0	1	1	1
165.0	1	1	1	1	0	0	0	1	1	1
167.5	1	1	1	1	0	0	0	1	1	1
170.0	1	1	1	1	0	0	0	1	1	1
172.5	0	0	1	0	0	0	0	1	1	1
175.0	0	0	1	0	0	0	0	1	1	1
177.5	0	0	1	0	0	0	0	0	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

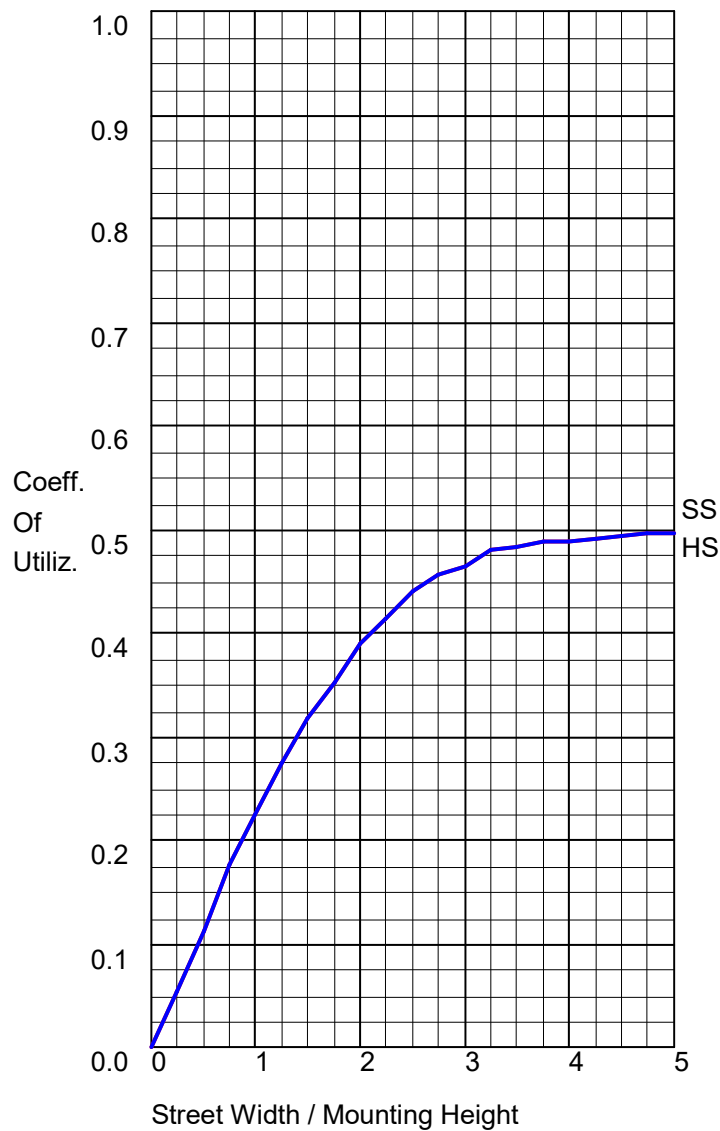
	90
0.0	530
2.5	520
5.0	514
7.5	513
10.0	524
12.5	560
15.0	606
17.5	657
20.0	718
22.5	791
25.0	858
27.5	937
30.0	1013
32.5	1058
35.0	1109
37.5	1164
40.0	1225
42.5	1296
45.0	1366
47.5	1449
50.0	1540
52.5	1634
55.0	1740
57.5	1870
60.0	2015
62.5	2190
65.0	2456
67.5	2957
70.0	2743
72.5	1724
75.0	689
77.5	298

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CANDELA TABULATION - (Cont.)

80.0	123
82.5	67
85.0	37
87.5	12
90.0	3
92.5	3
95.0	4
97.5	4
100.0	4
102.5	3
105.0	3
107.5	3
110.0	2
112.5	2
115.0	2
117.5	2
120.0	2
122.5	2
125.0	2
127.5	2
130.0	2
132.5	2
135.0	2
137.5	3
140.0	3
142.5	3
145.0	2
147.5	1
150.0	1
152.5	1
155.0	1
157.5	1
160.0	1
162.5	1
165.0	1
167.5	1
170.0	1
172.5	1
175.0	1
177.5	1
180.0	0

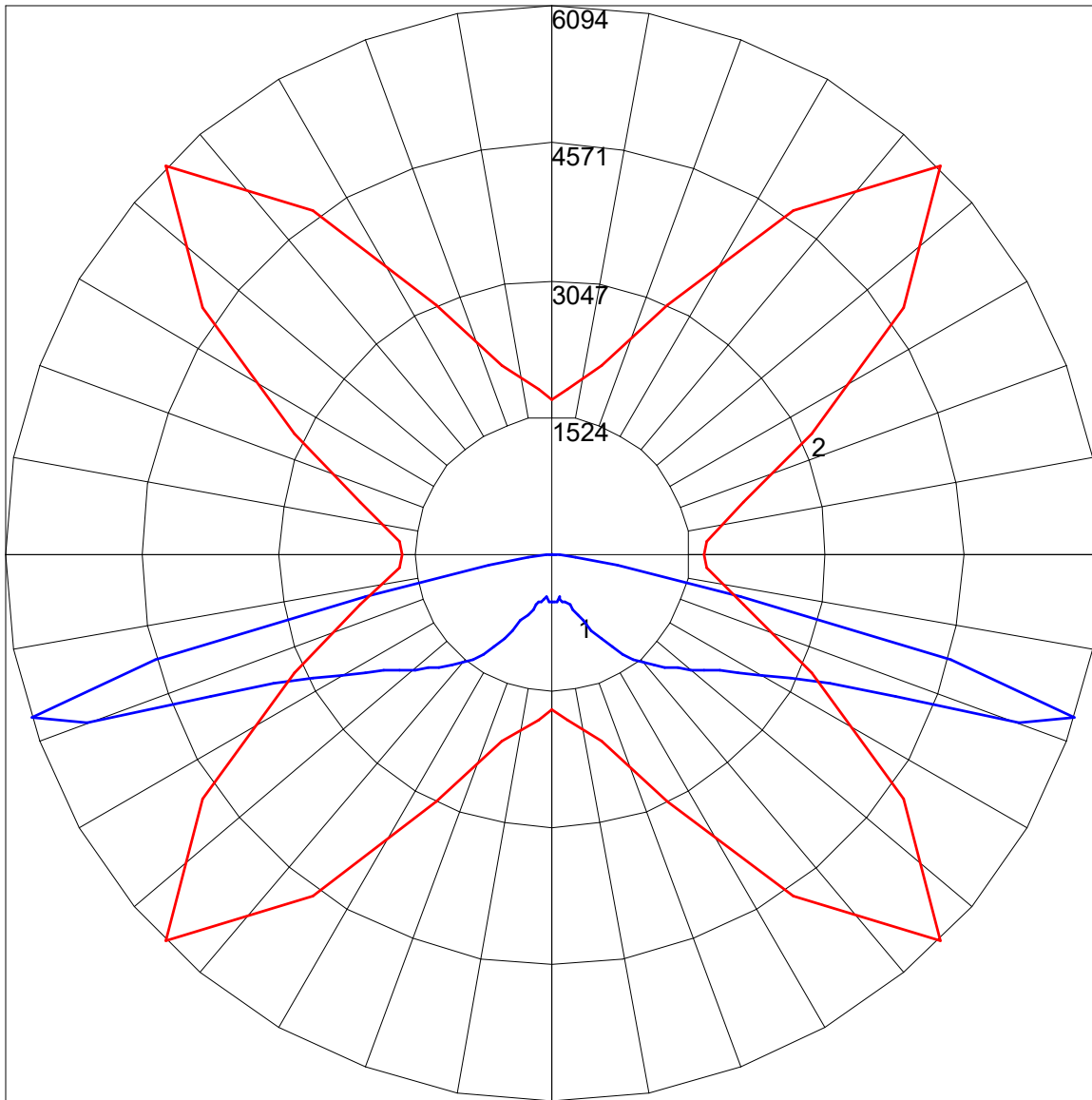
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

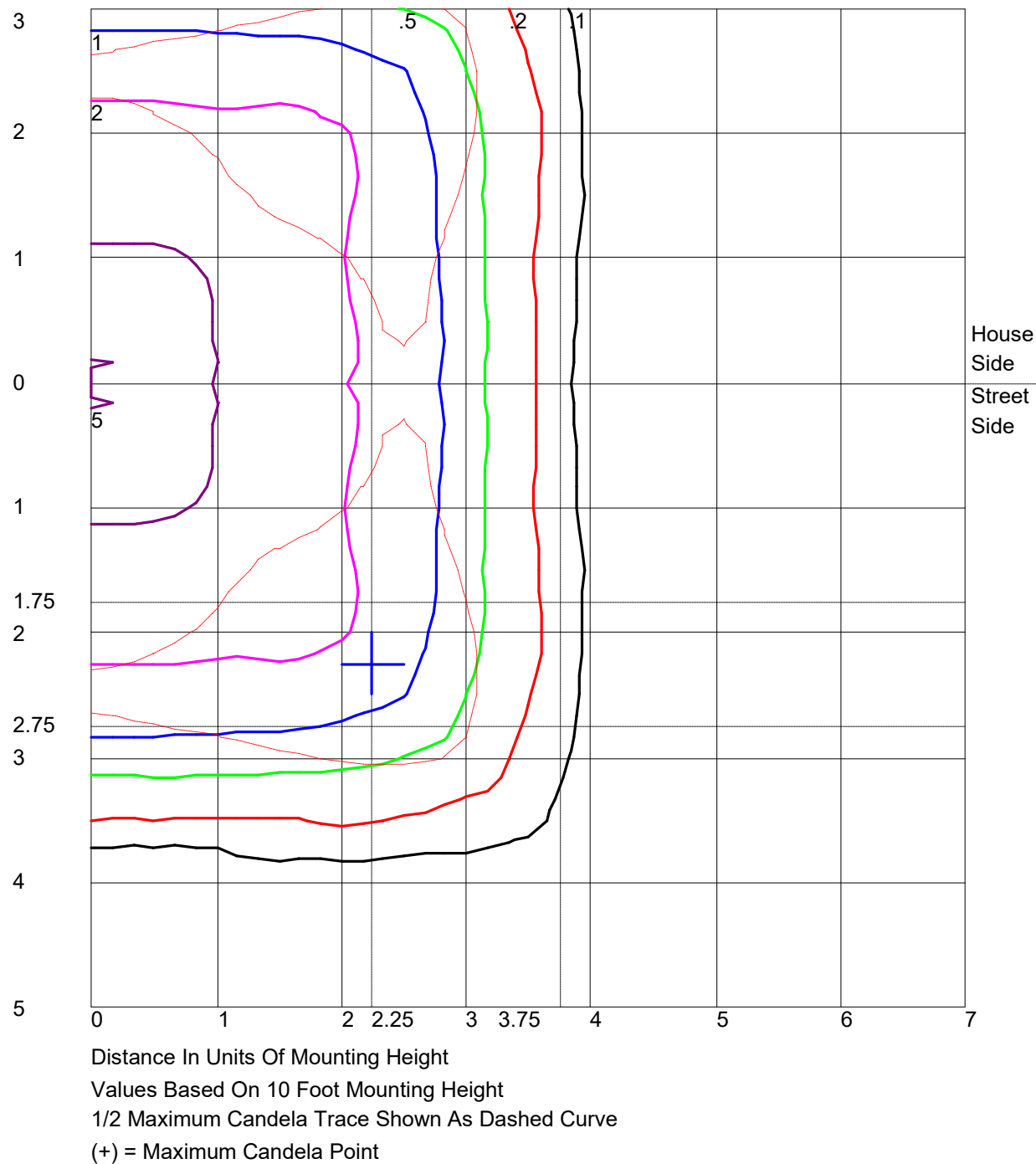
	Lumens	Percent Of Luminaire
Downward Street Side	4890.4	49.9
Downward House Side	4890.4	49.9
Downward Total	9780.8	99.8
Upward Street Side	10.0	0.1
Upward House Side	10.0	0.1
Upward Total	20.0	0.2
Total Flux	9800.8	100.0

POLAR GRAPH

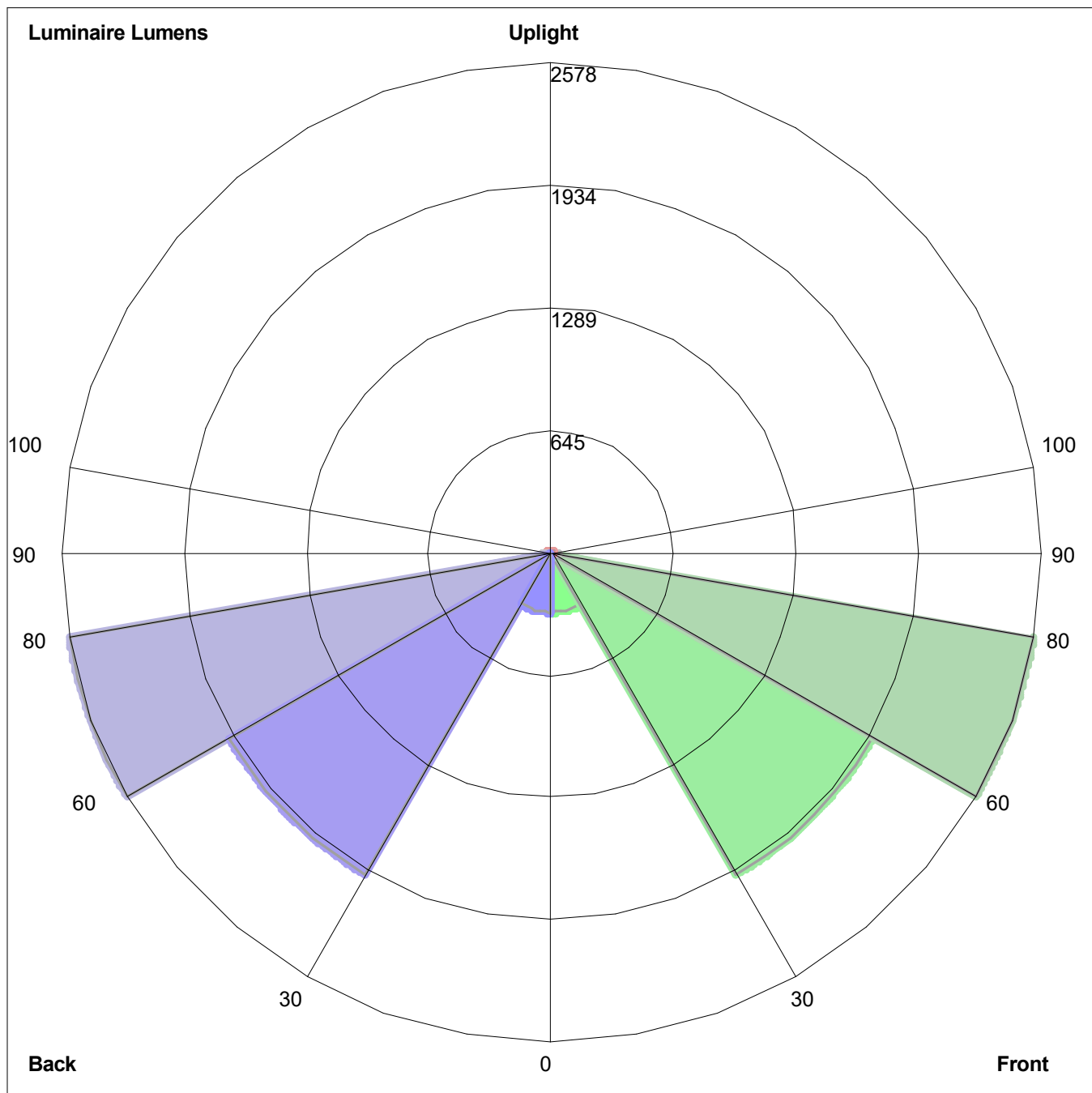


Maximum Candela = 6094 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=314.7, Medium=1955.5, High=2578.1, Very High=42.2
Back: Low=314.7, Medium=1955.5, High=2578.1, Very High=42.2
Uplight: Low=6.8, High=13.1

BUG Rating : B4-U2-G2