



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11770
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/27/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-05L-50
[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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5296
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4205
Maximum Candela Angle	77.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	4205
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 67.5V
Maximum Candela At 90 Degrees Vertical	6 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	371 (7.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	278.7	N.A.	5.3
FM - Front-Medium (30-60)	1961.0	N.A.	37.0
FH - Front-High (60-80)	1188.7	N.A.	22.4
FVH - Front-Very High (80-90)	26.2	N.A.	0.5
BL - Back-Low (0-30)	232.8	N.A.	4.4
BM - Back-Medium (30-60)	1156.7	N.A.	21.8
BH - Back-High (60-80)	416.8	N.A.	7.9
BVH - Back-Very High (80-90)	31.6	N.A.	0.6
UL - Uplight-Low (90-100)	1.5	N.A.	0.0
UH - Uplight-High (100-180)	2.5	N.A.	0.0
Total	5296.5	N.A.	100.0
BUG Rating	B2-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	442	442	442	442	442	442	442	442	442	442
2.5	443	445	445	447	448	446	446	444	439	436
5.0	444	437	452	457	449	439	433	420	415	414
7.5	442	448	457	446	444	438	447	447	443	441
10.0	454	463	477	449	464	470	475	474	462	457
12.5	509	521	510	485	502	496	509	500	499	496
15.0	520	542	538	547	567	538	548	545	557	546
17.5	539	559	548	570	592	609	592	602	608	606
20.0	606	617	610	608	629	646	671	664	668	674
22.5	633	632	643	669	683	699	746	733	745	747
25.0	676	657	676	706	734	758	813	837	817	822
27.5	717	748	757	748	773	834	875	927	927	936
30.0	791	784	779	811	835	905	955	1023	1056	1034
32.5	910	933	870	859	920	958	1046	1142	1175	1170
35.0	1039	1024	1015	986	988	1068	1141	1234	1303	1320
37.5	1243	1240	1172	1122	1138	1169	1240	1341	1423	1434
40.0	1391	1402	1360	1347	1268	1308	1351	1437	1553	1568
42.5	1556	1568	1541	1533	1494	1446	1480	1533	1650	1667
45.0	1700	1719	1700	1667	1662	1633	1626	1633	1777	1784
47.5	1791	1801	1802	1787	1821	1849	1821	1764	1906	1926
50.0	1798	1815	1841	1853	1944	2072	2086	1947	2052	2089
52.5	1719	1737	1793	1828	1988	2268	2379	2188	2242	2303
55.0	1526	1547	1622	1692	1926	2345	2695	2517	2464	2548
57.5	1241	1245	1318	1411	1713	2269	2982	2897	2746	2854
60.0	925	924	983	1063	1341	2001	3166	3299	3105	3239
62.5	650	646	661	713	922	1533	3154	3623	3516	3681
65.0	456	453	454	470	577	1002	2795	3723	3895	4092
67.5	310	317	323	331	390	583	2092	3480	4059	4205
70.0	216	225	232	242	287	381	1258	2862	3674	3731
72.5	122	130	142	170	211	267	714	1934	2630	2479
75.0	68	73	73	94	137	199	397	1142	1281	1096
77.5	51	58	51	59	77	127	234	665	577	470
80.0	47	54	43	42	52	85	121	371	299	236
82.5	47	48	36	29	34	60	64	186	154	130
85.0	39	38	26	20	20	36	39	47	67	59
87.5	20	20	16	10	9	15	14	14	15	15
90.0	5	5	5	3	1	1	1	1	1	1
92.5	2	2	2	1	0	0	0	0	1	1
95.0	2	2	1	1	0	0	0	0	1	1
97.5	1	1	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	1	1	1	1	0	0	0	0	0	0
115.0	2	2	1	1	0	0	0	0	0	0
117.5	2	2	1	1	0	0	0	0	0	0
120.0	2	2	2	1	1	0	0	0	0	0
122.5	2	2	2	1	1	0	0	0	0	0
125.0	2	2	2	2	1	1	0	0	0	0
127.5	2	2	2	2	1	1	0	0	0	0
130.0	2	2	2	2	1	1	0	0	1	1

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CANDELA TABULATION - (Cont.)

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

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	442	442	442	442	442	442	442	442	442	442
2.5	437	438	439	440	444	439	435	433	430	438
5.0	427	417	410	401	410	419	411	404	404	399
7.5	423	421	423	428	418	401	378	367	377	372
10.0	442	442	431	439	400	395	377	361	346	352
12.5	477	472	466	452	420	392	366	374	379	385
15.0	515	522	499	465	420	394	405	406	408	409
17.5	579	553	539	496	429	422	445	444	442	451
20.0	641	633	601	537	450	472	469	484	496	519
22.5	740	695	672	593	525	520	516	535	555	581
25.0	814	792	768	647	599	573	573	597	632	655
27.5	932	869	855	704	676	627	643	672	732	763
30.0	1023	981	947	771	741	712	725	764	809	854
32.5	1141	1101	1036	872	807	798	823	852	916	983
35.0	1275	1215	1157	961	882	883	925	934	998	1049
37.5	1416	1371	1268	1066	959	962	1002	1036	1053	1130
40.0	1549	1488	1362	1139	1027	1031	1061	1077	1084	1130
42.5	1654	1608	1444	1177	1076	1070	1081	1087	1052	1066
45.0	1779	1737	1537	1212	1102	1078	1066	1040	964	971
47.5	1939	1882	1628	1249	1114	1056	1015	962	866	847
50.0	2120	2028	1722	1273	1105	1006	943	869	766	736
52.5	2342	2193	1814	1289	1085	951	862	779	679	647
55.0	2602	2388	1903	1294	1055	887	783	703	608	573
57.5	2924	2589	1970	1286	1015	817	708	643	529	508
60.0	3257	2787	2006	1247	953	738	642	572	459	436
62.5	3533	2869	1932	1154	863	650	567	490	375	352
65.0	3661	2725	1709	988	735	546	472	396	293	259
67.5	3394	2300	1293	757	570	423	363	303	218	198
70.0	2640	1592	844	534	419	316	278	226	175	158
72.5	1397	782	499	354	308	236	212	181	135	112
75.0	531	353	308	244	226	189	169	131	88	76
77.5	225	188	198	182	173	153	120	90	70	66

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CANDELA TABULATION - (Cont.)

80.0	131	108	122	141	140	112	82	73	78	87
82.5	77	59	63	111	105	70	65	77	119	115
85.0	38	28	35	72	45	48	55	75	103	81
87.5	12	8	12	15	16	20	18	20	29	15
90.0	1	1	1	3	5	6	5	3	1	1
92.5	0	1	1	3	4	6	5	3	0	0
95.0	0	1	1	2	4	5	4	2	0	0
97.5	0	0	1	2	3	3	3	1	0	0
100.0	0	1	1	1	2	2	2	1	0	0
102.5	0	1	1	1	2	2	1	1	0	0
105.0	0	0	1	1	1	1	1	1	0	0
107.5	0	0	1	1	1	1	1	1	0	0
110.0	0	0	1	1	1	1	1	1	0	0
112.5	0	0	1	1	1	1	1	1	0	0
115.0	0	1	1	1	1	1	1	1	0	0
117.5	0	1	1	1	1	1	1	1	1	0
120.0	0	1	1	1	1	1	1	1	1	1
122.5	0	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	442	442
2.5	436	431
5.0	402	398
7.5	380	367
10.0	353	359
12.5	379	385
15.0	419	430
17.5	461	479
20.0	533	539
22.5	590	614
25.0	690	715

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CANDELA TABULATION - (Cont.)

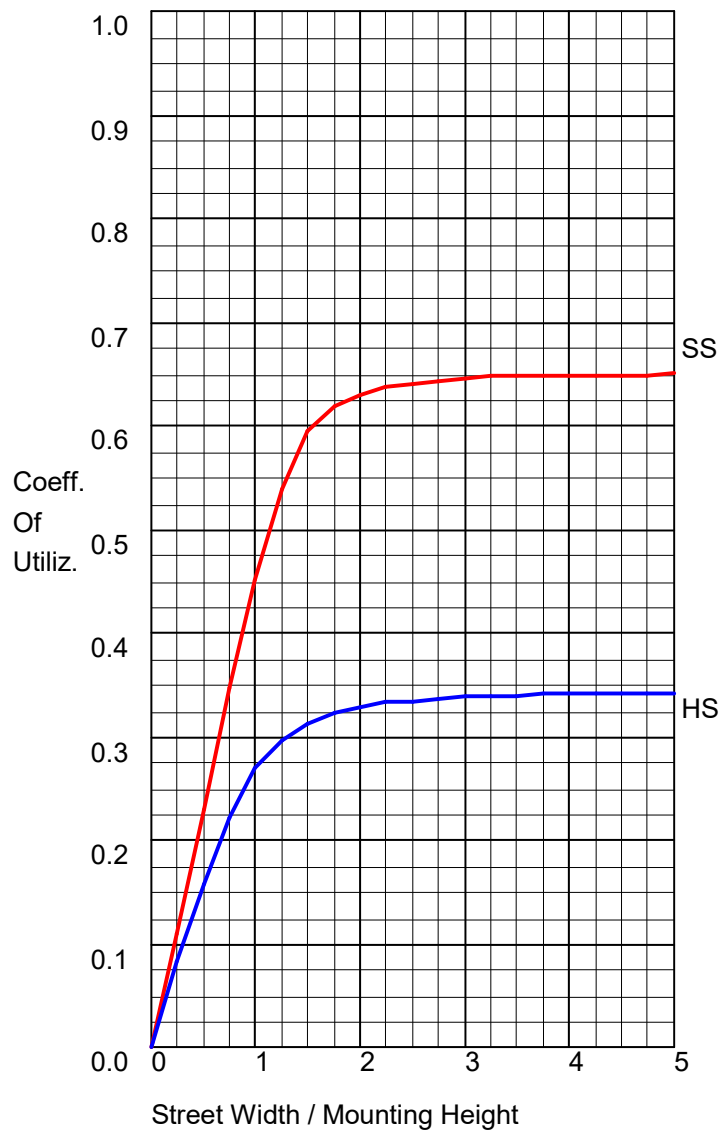
27.5	790	817
30.0	895	935
32.5	1014	1053
35.0	1089	1130
37.5	1166	1207
40.0	1146	1185
42.5	1070	1107
45.0	961	997
47.5	837	875
50.0	726	748
52.5	638	662
55.0	564	585
57.5	499	515
60.0	419	432
62.5	332	341
65.0	247	252
67.5	195	202
70.0	162	165
72.5	118	121
75.0	89	100
77.5	82	93
80.0	107	120
82.5	128	136
85.0	86	89
87.5	7	13
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

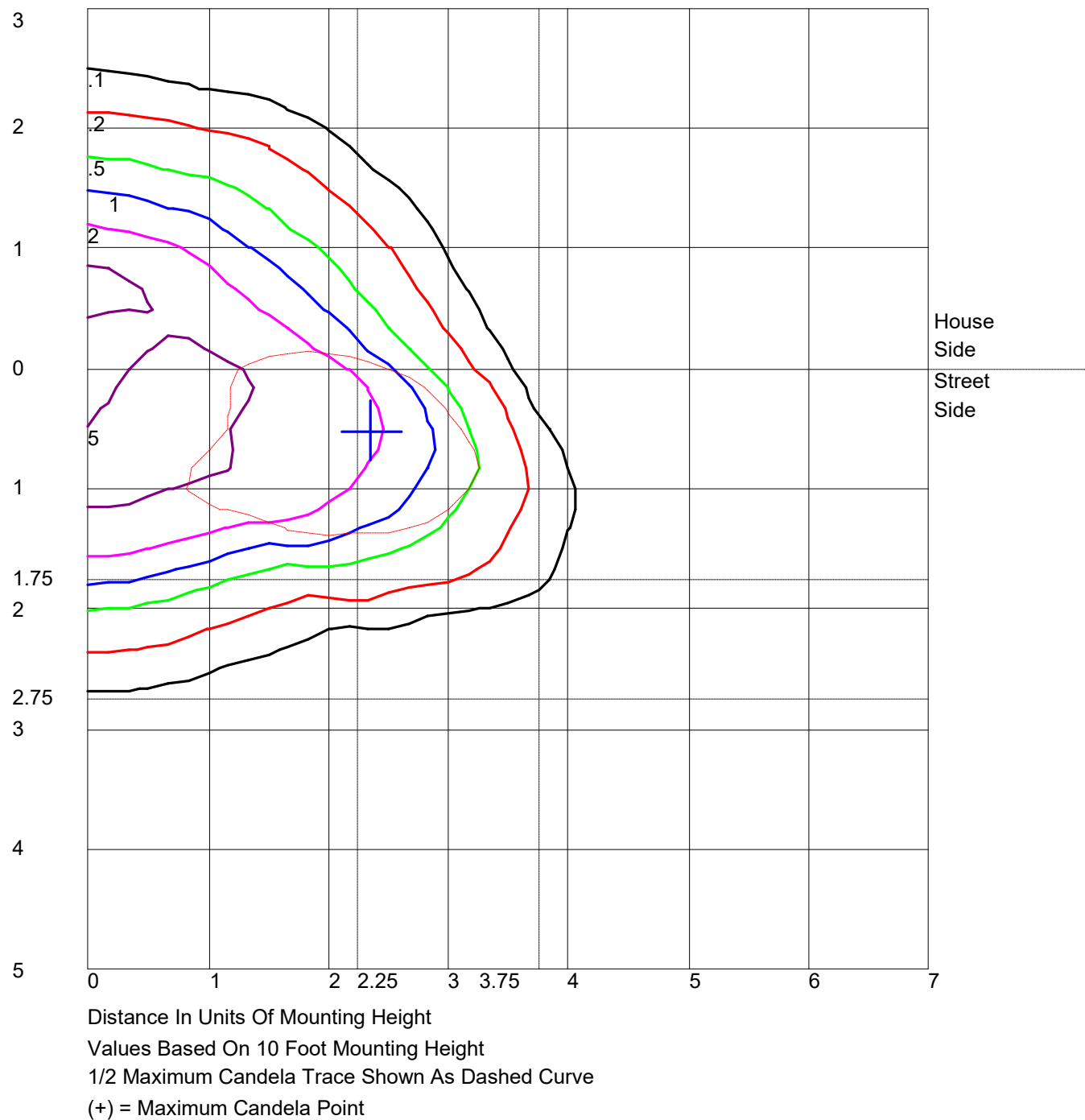
	Lumens	Percent Of Luminaire
Downward Street Side	3454.5	65.2
Downward House Side	1837.9	34.7
Downward Total	5292.4	99.9
Upward Street Side	1.5	0.0
Upward House Side	2.5	0.0
Upward Total	4.0	0.1
Total Flux	5296.4	100.0

POLAR GRAPH

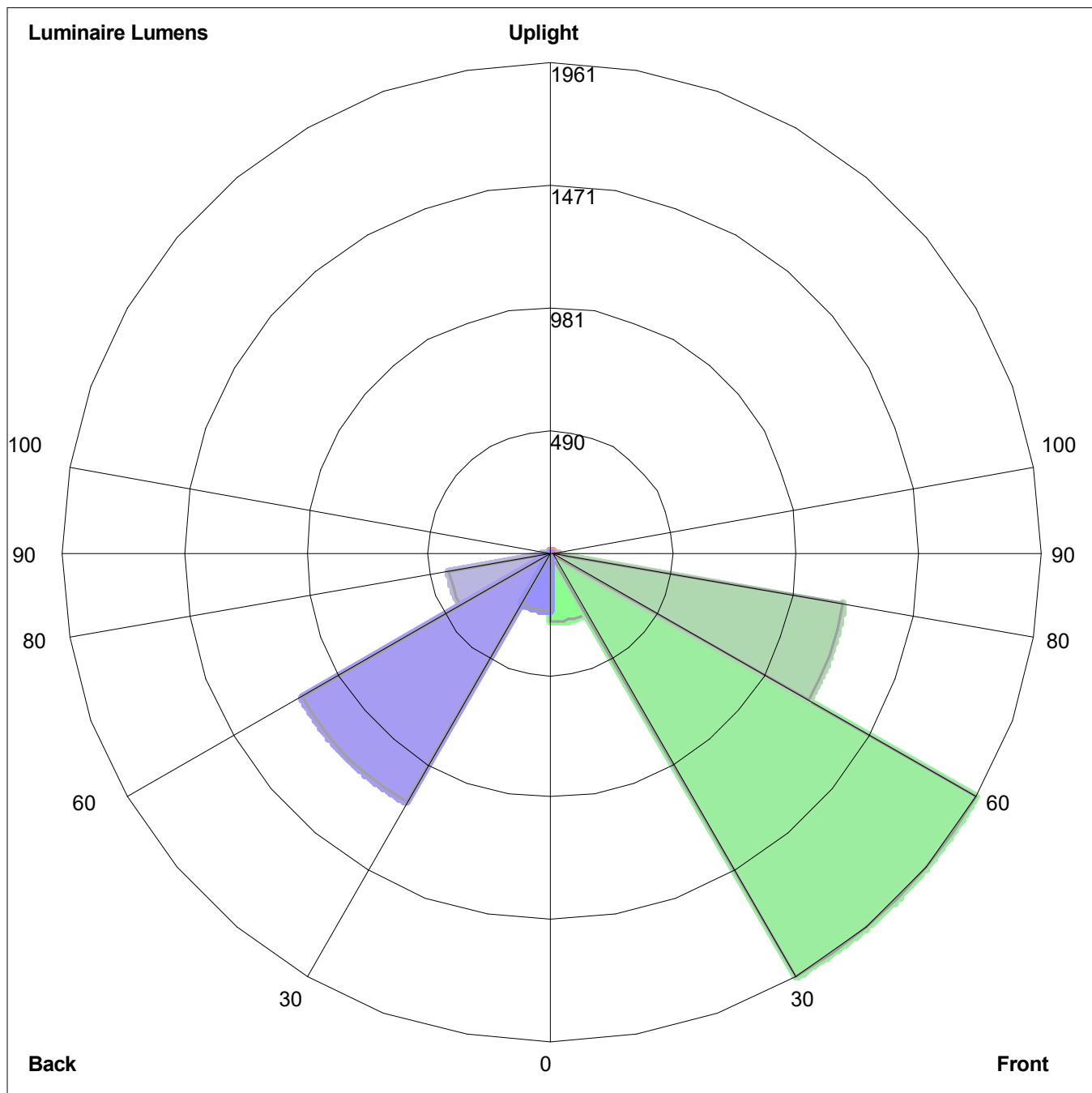


Maximum Candela = 4205 Located At Horizontal Angle = 77.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=278.7, Medium= 1961.0, High=1188.7, Very High=26.2
Back: Low=232.8, Medium=1156.7, High=416.8, Very High=31.6
Uplight: Low=1.5, High=2.5

BUG Rating : B2-U1-G1