



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11760
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/26/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-3-LED-25L-40-IL
[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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21365
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	227.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23409
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	23409
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	49 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1008 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	793.2	N.A.	3.7
FM - Front-Medium (30-60)	12666.8	N.A.	59.3
FH - Front-High (60-80)	5556.2	N.A.	26.0
FVH - Front-Very High (80-90)	132.6	N.A.	0.6
BL - Back-Low (0-30)	384.8	N.A.	1.8
BM - Back-Medium (30-60)	1453.5	N.A.	6.8
BH - Back-High (60-80)	285.9	N.A.	1.3
BVH - Back-Very High (80-90)	31.5	N.A.	0.1
UL - Uplight-Low (90-100)	14.7	N.A.	0.1
UH - Uplight-High (100-180)	45.2	N.A.	0.2
Total	21364.4	N.A.	100.0
BUG Rating	B2-U2-G3		

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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>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1034	1034	1034	1034	1034	1034	1034	1034	1034	1034
2.5	1017	1012	1020	1014	1017	1019	1025	1019	1021	1018
5.0	1027	1020	1017	1018	1009	997	984	982	972	969
7.5	992	991	1007	1003	981	975	989	986	994	993
10.0	989	990	1017	968	1010	1010	1056	1050	1050	1042
12.5	1074	1087	1062	1051	1075	1070	1104	1106	1118	1098
15.0	1143	1142	1148	1164	1210	1195	1204	1191	1199	1217
17.5	1218	1246	1231	1278	1333	1378	1328	1308	1312	1327
20.0	1423	1462	1450	1445	1488	1546	1576	1556	1506	1488
22.5	1648	1637	1694	1733	1799	1840	1939	1925	1883	1769
25.0	2076	2019	2073	2178	2285	2317	2465	2459	2471	2223
27.5	2859	2861	2894	2880	2984	3092	3259	3268	3310	2940
30.0	3763	3759	3678	3833	3907	4109	4270	4334	4288	3829
32.5	4899	4913	4706	4645	4917	5121	5440	5450	5453	4709
35.0	5901	5900	5805	5868	5875	6466	6625	6711	6462	5608
37.5	7473	7432	7145	6928	7073	7425	7687	7695	7397	6189
40.0	8753	8887	8682	8246	8239	8547	8655	8643	8111	6816
42.5	10444	10475	10198	9700	9489	9540	9416	9411	8698	7404
45.0	12190	12238	11948	11344	10924	10744	10292	10141	9339	8082
47.5	13873	13841	13735	13263	12853	12191	11386	11214	10322	9137
50.0	14989	15021	15314	15419	14638	13845	12901	12667	11805	10547
52.5	14973	15269	16170	17087	17114	15998	15384	15062	13911	12207
55.0	13957	14176	15345	17152	18422	18610	19010	18971	16851	13405
57.5	11283	11471	13363	15948	18554	20367	22239	22335	19054	13783
60.0	7297	7499	9470	13043	17311	20574	23313	23409	19495	13250
62.5	3902	3921	5460	9091	14290	19030	22419	22599	18690	11857
65.0	1996	2111	2783	5243	9982	15682	20020	20413	16366	9310
67.5	1166	1232	1586	2718	6070	10631	15677	16199	12328	5964
70.0	800	842	1065	1762	3292	6014	10304	10990	7874	3466
72.5	590	623	771	1334	2185	3017	5657	6227	4203	1497
75.0	403	428	558	1041	1665	1728	2458	2689	1887	728
77.5	287	297	409	866	1316	1141	1102	1193	987	462
80.0	222	228	318	682	1008	718	595	604	604	343
82.5	173	178	253	543	670	437	354	362	399	267
85.0	121	130	192	386	397	225	217	222	230	182
87.5	75	82	136	218	147	85	80	82	77	86
90.0	18	20	32	49	28	19	16	16	13	13
92.5	6	7	9	12	10	11	11	12	10	9
95.0	3	3	6	8	9	10	10	10	9	8
97.5	3	3	5	8	9	9	9	9	8	7
100.0	3	3	6	8	9	9	8	8	7	7
102.5	3	3	6	8	9	9	8	8	7	7
105.0	4	4	6	8	9	9	8	8	7	7
107.5	4	4	6	8	9	9	8	8	7	7
110.0	5	5	6	9	9	10	8	8	7	7
112.5	6	5	7	9	10	10	8	8	8	8
115.0	6	6	7	9	10	10	9	8	8	8
117.5	7	7	8	9	11	11	9	9	8	9
120.0	8	8	8	10	11	11	10	9	9	9
122.5	8	8	9	10	11	11	10	9	9	10
125.0	9	9	9	11	12	11	10	10	9	10
127.5	9	9	10	11	12	12	10	10	10	11
130.0	10	10	10	11	12	12	11	10	10	11

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CANDELA TABULATION - (Cont.)

132.5	10	10	10	11	11	12	11	10	10	11
135.0	8	8	8	10	10	10	9	9	9	10
137.5	3	3	5	7	8	8	7	7	7	8
140.0	1	1	4	6	7	7	6	6	6	7
142.5	1	1	4	5	6	6	6	6	6	6
145.0	1	1	4	5	6	6	6	6	6	6
147.5	0	1	3	5	6	6	5	5	6	6
150.0	0	1	3	5	6	6	5	5	5	6
152.5	0	1	3	5	5	5	5	5	5	6
155.0	1	1	3	5	5	5	5	5	5	6
157.5	0	1	3	5	5	5	5	5	5	5
160.0	0	1	3	4	5	5	4	4	5	5
162.5	0	1	3	4	5	4	4	4	4	4
165.0	0	1	3	5	5	5	4	4	4	4
167.5	0	1	3	5	5	5	4	4	4	4
170.0	1	1	3	5	5	5	5	4	4	4
172.5	0	1	3	5	5	5	4	4	4	4
175.0	0	1	3	5	5	5	4	4	4	4
177.5	1	1	3	5	5	5	5	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	1034	1034	1034	1034	1034	1034	1034	1034	1034	1034
2.5	1021	1028	1029	1028	1036	1051	1040	1041	1033	1039
5.0	981	988	991	966	1002	1021	1018	1001	1004	1001
7.5	975	985	986	1002	996	981	956	931	913	930
10.0	1020	1009	1001	1061	1005	974	896	866	796	787
12.5	1075	1063	1061	1060	1003	945	838	734	691	663
15.0	1128	1100	1101	1102	1017	885	751	683	631	601
17.5	1220	1178	1204	1118	988	794	715	663	625	592
20.0	1338	1283	1250	1158	922	759	689	664	637	591
22.5	1603	1502	1443	1237	909	759	696	676	658	608
25.0	1956	1802	1677	1317	944	812	697	686	727	709
27.5	2507	2209	2039	1396	1036	881	709	718	869	912
30.0	3134	2739	2378	1459	1090	919	749	779	1077	1144
32.5	3689	3191	2652	1508	1104	944	774	860	1264	1454
35.0	4250	3539	2887	1529	1079	947	800	878	1506	1808
37.5	4716	3902	3058	1551	1033	932	794	889	1811	2255
40.0	5194	4224	3274	1573	990	892	780	861	2107	2249
42.5	5734	4597	3480	1595	941	844	736	805	2265	1780
45.0	6488	5164	3798	1652	891	783	673	740	1837	1345
47.5	7578	5892	4164	1709	828	693	595	668	1210	1007
50.0	8693	6709	4580	1730	747	556	479	575	685	767
52.5	9687	7312	4889	1695	622	411	350	435	448	607
55.0	10154	7476	4797	1552	487	308	260	293	310	491
57.5	10005	7050	4235	1325	397	259	214	208	212	395
60.0	9187	6133	3330	1025	337	230	182	158	158	322
62.5	7662	4791	2276	743	289	201	152	122	120	263
65.0	5178	3214	1397	504	241	167	123	96	90	218
67.5	2968	1876	845	345	193	132	93	76	67	176
70.0	1353	957	481	247	155	105	70	58	49	135
72.5	578	492	334	204	125	85	58	48	33	101
75.0	361	336	278	184	104	73	51	34	22	74
77.5	270	262	233	170	91	66	45	29	14	55

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CANDELA TABULATION - (Cont.)

80.0	242	220	193	150	82	60	41	24	12	44
82.5	179	163	157	125	73	56	40	23	11	37
85.0	111	106	115	89	62	52	38	22	11	32
87.5	55	50	62	58	51	46	34	20	9	26
90.0	12	11	20	34	41	39	30	18	7	15
92.5	9	7	15	28	35	34	25	16	5	5
95.0	9	6	14	25	32	30	23	15	6	5
97.5	8	7	11	20	26	25	19	14	7	5
100.0	8	7	11	16	21	20	16	13	7	5
102.5	8	8	10	13	17	17	15	12	7	5
105.0	8	8	10	13	15	16	14	12	8	5
107.5	8	8	10	13	14	15	14	12	9	6
110.0	8	9	11	13	14	14	14	12	9	6
112.5	8	9	11	13	14	14	14	12	10	7
115.0	9	10	11	13	14	14	14	13	10	7
117.5	9	10	12	13	14	14	14	13	10	7
120.0	10	11	12	13	14	14	14	13	11	8
122.5	10	12	12	13	14	15	14	13	11	8
125.0	11	12	13	14	14	15	15	14	11	9
127.5	11	12	13	14	14	15	15	14	12	10
130.0	12	12	13	14	14	15	15	14	12	10
132.5	11	12	13	14	14	15	15	14	12	10
135.0	11	11	12	13	14	14	14	13	11	9
137.5	9	10	10	11	12	13	13	11	9	7
140.0	8	8	9	10	11	11	11	10	8	5
142.5	7	8	8	9	10	11	10	9	7	5
145.0	7	8	8	9	10	10	10	9	7	4
147.5	7	8	8	9	9	10	9	8	6	4
150.0	7	8	8	8	9	9	9	8	6	3
152.5	7	7	8	8	9	9	9	8	5	3
155.0	7	7	8	8	9	9	8	7	5	3
157.5	6	7	7	8	8	8	8	6	4	2
160.0	6	6	7	7	8	7	7	5	3	1
162.5	5	6	6	7	7	7	6	5	3	1
165.0	5	5	6	6	7	6	6	4	2	0
167.5	5	5	6	6	6	6	5	4	2	0
170.0	4	5	5	6	6	6	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	5	5	5	5	5	5	4	2	0
177.5	4	4	5	5	5	4	4	4	2	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1034	1034
2.5	1042	1044
5.0	990	993
7.5	910	904
10.0	758	764
12.5	659	657
15.0	607	595
17.5	580	577
20.0	575	566
22.5	565	552
25.0	614	590

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CANDELA TABULATION - (Cont.)

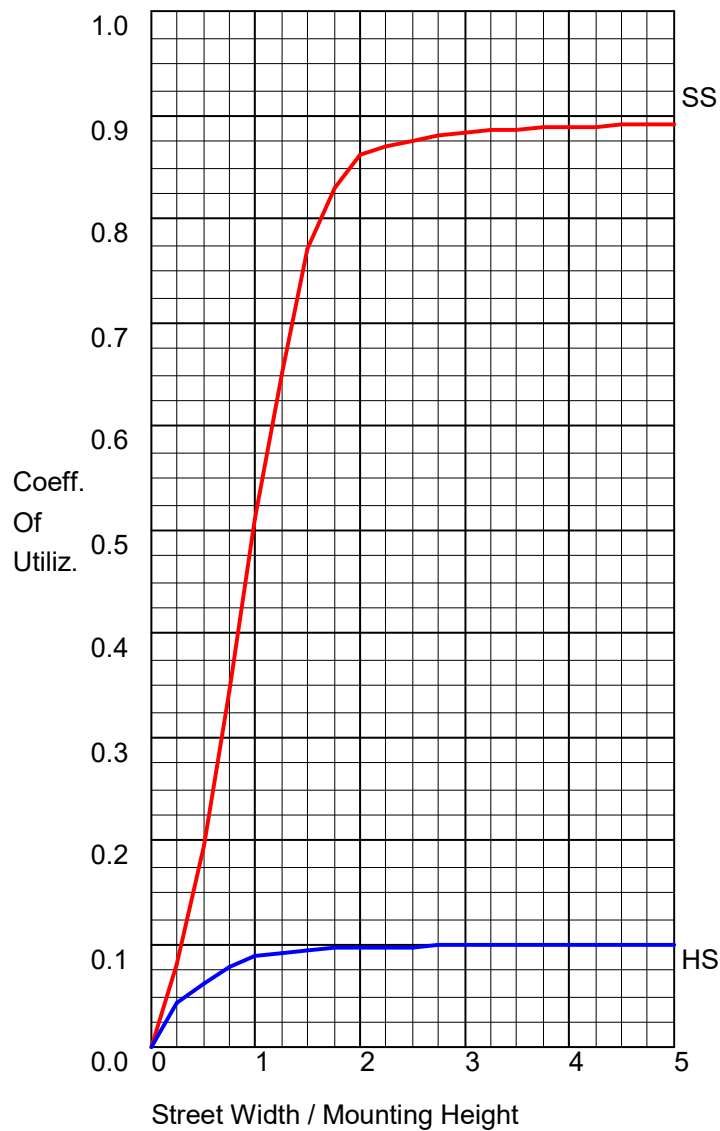
27.5	729	694
30.0	898	866
32.5	1137	1086
35.0	1409	1348
37.5	1436	1336
40.0	1154	1031
42.5	861	740
45.0	636	571
47.5	518	455
50.0	444	361
52.5	409	313
55.0	400	294
57.5	412	302
60.0	431	334
62.5	447	378
65.0	455	411
67.5	432	410
70.0	383	392
72.5	336	343
75.0	261	276
77.5	206	225
80.0	166	187
82.5	135	150
85.0	104	117
87.5	78	86
90.0	36	39
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	1	0
107.5	2	0
110.0	2	1
112.5	3	2
115.0	4	3
117.5	4	4
120.0	6	5
122.5	6	6
125.0	7	7
127.5	8	8
130.0	8	8
132.5	8	8
135.0	7	6
137.5	4	4
140.0	2	2
142.5	2	1
145.0	1	0
147.5	1	0
150.0	1	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	3	3

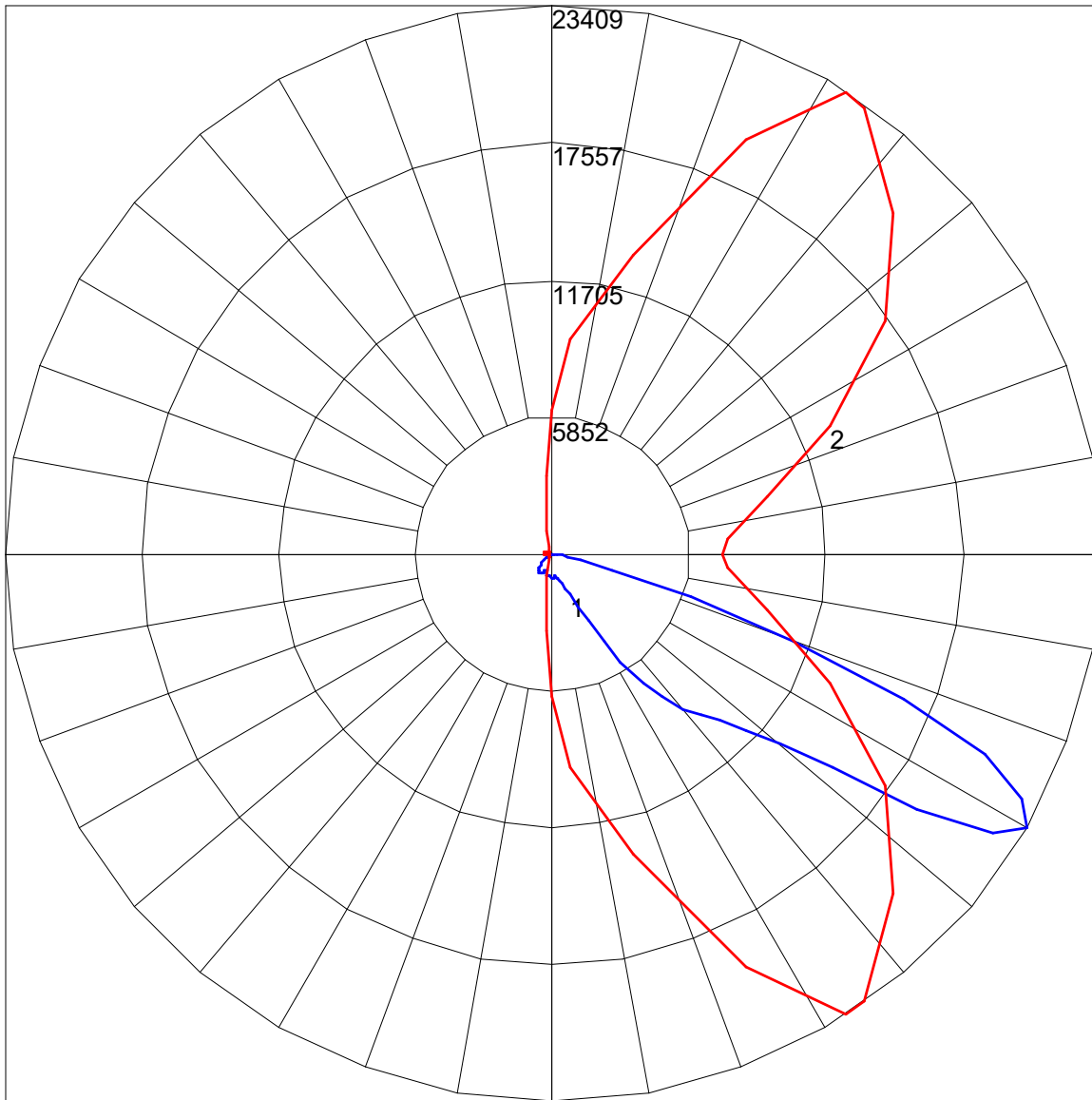
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

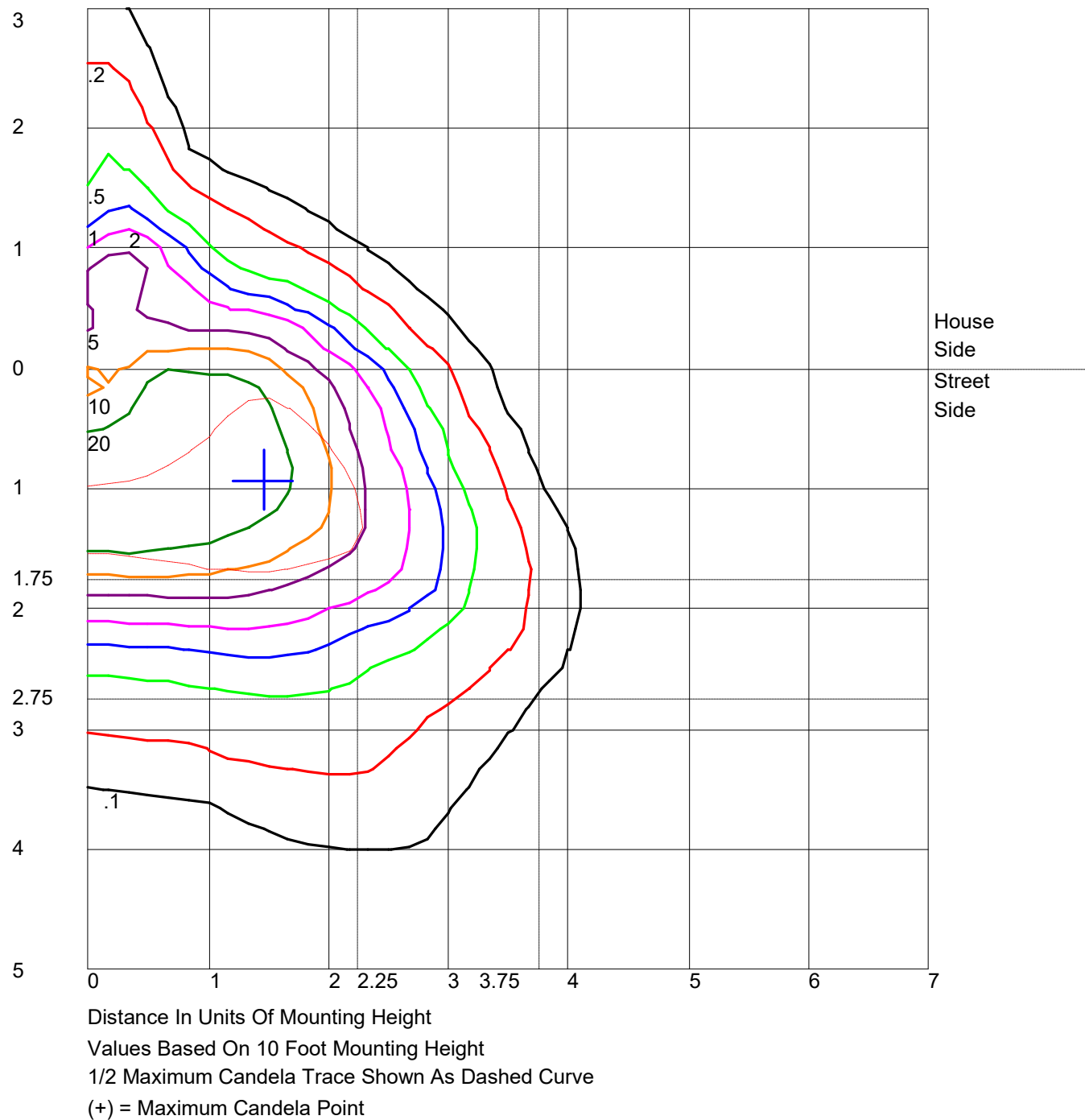
	Lumens	Percent Of Luminaire
Downward Street Side	19148.8	89.6
Downward House Side	2155.8	10.1
Downward Total	21304.6	99.7
Upward Street Side	25.1	0.1
Upward House Side	34.8	0.2
Upward Total	59.9	0.3
Total Flux	21364.5	100.0

POLAR GRAPH

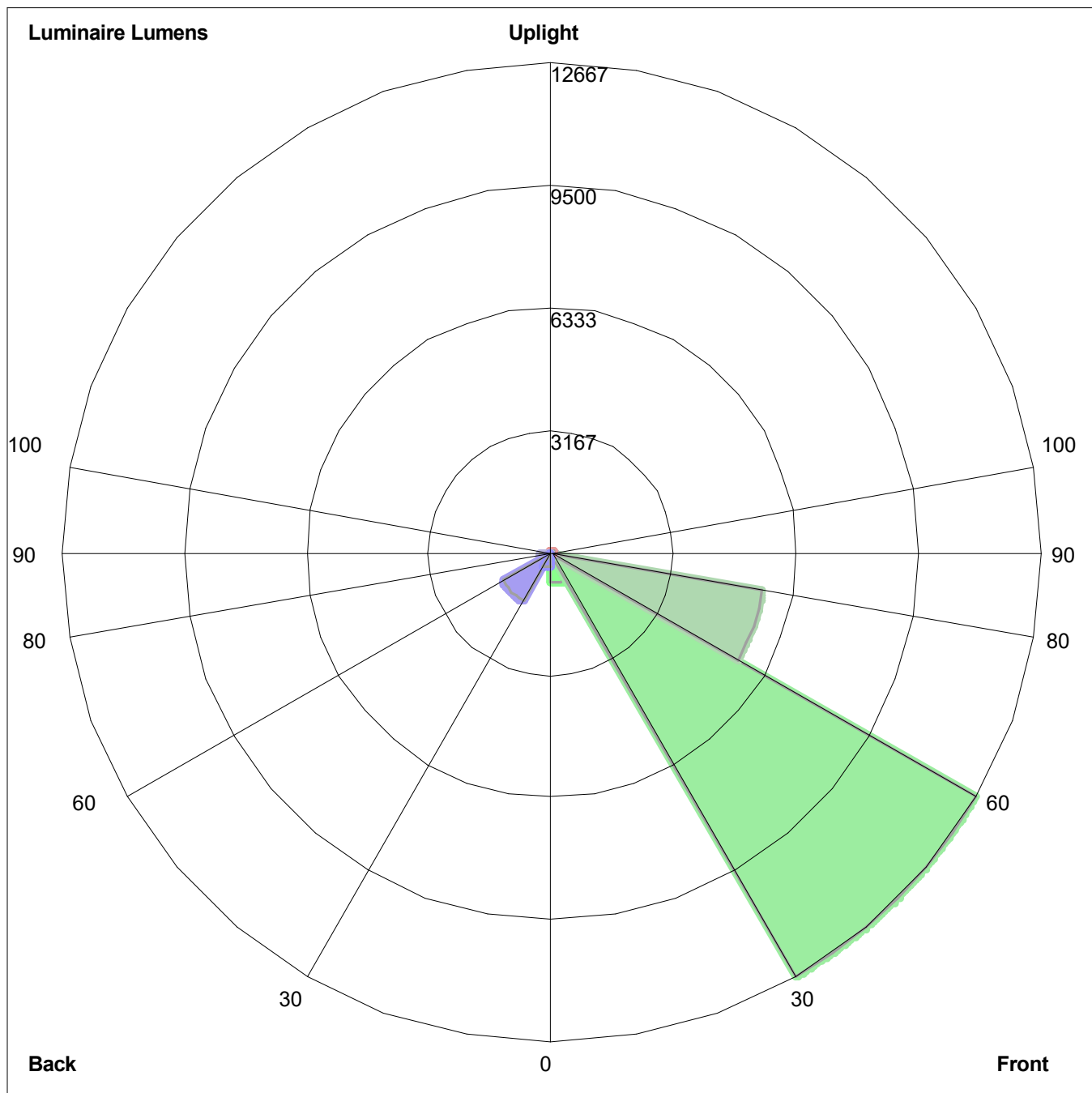


Maximum Candela = 23409 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=793.2, Medium=12666.8, High=5556.2, Very High=132.6
Back: Low=384.8, Medium=1453.5, High=285.9, Very High=31.5
Uplight: Low=14.7, High=45.2

BUG Rating : B2-U2-G3