



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11745

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-2-LED-25L-40

[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	24993
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	228.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20034
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	20034
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	74 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1144 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-40.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1455.7	N.A.	5.8
FM - Front-Medium (30-60)	10604.1	N.A.	42.4
FH - Front-High (60-80)	4139.8	N.A.	16.6
FVH - Front-Very High (80-90)	129.0	N.A.	0.5
BL - Back-Low (0-30)	1226.1	N.A.	4.9
BM - Back-Medium (30-60)	5490.6	N.A.	22.0
BH - Back-High (60-80)	1759.0	N.A.	7.0
BVH - Back-Very High (80-90)	158.5	N.A.	0.6
UL - Uplight-Low (90-100)	8.1	N.A.	0.0
UH - Uplight-High (100-180)	22.1	N.A.	0.1
Total	24993.0	N.A.	100.0
BUG Rating	B4-U2-G3		

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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>80</u>
0.0	2062	2062	2062	2062	2062	2062	2062	2062	2062	2062
2.5	2060	2053	2096	2109	2130	2111	2117	2095	2063	2038
5.0	2055	2094	2162	2159	2203	2053	2040	2001	1975	1969
7.5	2088	2146	2205	2091	2115	2071	2078	2162	2123	2056
10.0	2173	2205	2310	2101	2213	2238	2263	2256	2223	2146
12.5	2392	2503	2380	2340	2414	2360	2425	2402	2406	2416
15.0	2560	2662	2610	2663	2756	2618	2684	2644	2675	2552
17.5	2713	2780	2743	2816	2917	3001	2925	2964	3043	2908
20.0	3035	3104	3056	3064	3178	3246	3352	3304	3373	3319
22.5	3295	3246	3363	3433	3466	3540	3796	3739	3893	3954
25.0	3679	3569	3716	3782	3879	3895	4246	4406	4446	4479
27.5	4206	4291	4353	4219	4306	4388	4731	5235	5405	5334
30.0	4885	4790	4656	4767	4797	5014	5363	6120	6353	6292
32.5	5731	5874	5464	5258	5482	5591	6213	7301	7630	7488
35.0	6750	6622	6348	6201	6065	6437	7074	8431	9066	8893
37.5	7729	7745	7312	6994	6954	7185	7948	9321	9907	9974
40.0	8209	8285	8128	8009	7895	8021	8690	9745	10539	10595
42.5	8487	8487	8384	8480	8737	8868	9588	10131	10822	10952
45.0	8413	8407	8357	8615	9153	9620	10658	10823	11430	11730
47.5	7851	7897	7992	8366	9169	10114	11665	11950	12289	12777
50.0	6989	7052	7184	7656	8733	10201	12730	13330	13326	13984
52.5	5941	6018	6138	6677	7704	9705	13456	14992	14518	15608
55.0	4776	4827	4981	5474	6525	8633	13726	16410	16300	17593
57.5	3604	3584	3746	4249	5211	7212	13236	17097	18029	19242
60.0	2680	2660	2735	3131	3845	5564	11841	16970	18877	20034
62.5	2035	2029	2069	2280	2719	3921	9738	15520	18603	19344
65.0	1634	1622	1661	1792	1994	2579	7508	13405	17096	17407
67.5	1297	1335	1360	1459	1621	1790	5239	10421	14051	14047
70.0	1022	1066	1083	1175	1346	1403	3201	7326	10428	9620
72.5	752	792	800	903	1079	1124	1932	4526	6321	5082
75.0	497	534	515	598	780	909	1242	2788	3050	2037
77.5	368	401	334	364	481	668	851	1762	1499	1012
80.0	369	406	293	245	290	433	555	1144	874	642
82.5	414	414	266	184	192	286	312	676	554	448
85.0	392	404	220	132	128	180	178	260	285	246
87.5	270	260	142	75	64	80	67	72	75	78
90.0	74	72	37	16	7	6	1	1	3	4
92.5	10	10	8	6	2	1	0	0	2	2
95.0	9	9	7	5	2	0	0	0	0	1
97.5	8	7	6	5	2	0	0	0	0	0
100.0	7	6	5	4	1	0	0	0	0	0
102.5	7	6	5	4	1	0	0	0	0	0
105.0	6	6	5	4	2	0	0	0	0	0
107.5	7	6	5	4	2	0	0	0	0	0
110.0	7	7	6	5	2	1	0	0	0	0
112.5	8	8	7	5	3	1	0	0	0	0
115.0	9	9	8	7	3	2	0	0	0	1
117.5	10	10	9	7	4	2	0	0	1	1
120.0	11	11	10	9	5	2	0	0	2	2
122.5	12	12	11	9	6	3	0	1	2	2
125.0	13	13	12	11	7	4	1	1	3	3
127.5	13	13	12	11	8	5	1	2	4	5
130.0	14	14	13	11	9	6	2	2	4	5

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CANDELA TABULATION - (Cont.)

132.5	15	15	13	12	9	6	2	2	5	6
135.0	14	13	12	10	8	5	1	1	3	4
137.5	7	7	6	4	3	1	0	0	0	1
140.0	3	2	2	2	0	0	0	0	0	0
142.5	2	2	2	1	0	0	0	0	0	0
145.0	2	2	2	1	0	0	0	0	0	0
147.5	2	1	1	0	0	0	0	0	0	0
150.0	2	1	1	0	0	0	0	0	0	0
152.5	2	1	1	0	0	0	0	0	0	0
155.0	2	1	1	0	0	0	0	0	0	0
157.5	2	1	1	0	0	0	0	0	0	0
160.0	2	1	0	0	0	0	0	0	0	0
162.5	2	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	0	0	0	0	0	0	0	0
170.0	1	1	1	0	0	0	0	0	0	0
172.5	1	1	1	0	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	2062	2062	2062	2062	2062	2062	2062	2062	2062	2062
2.5	2048	2043	2058	2064	2076	2063	2066	2059	2051	2024
5.0	1995	1983	1938	1933	1966	1927	1919	1938	1911	1887
7.5	2021	2044	2012	2023	1955	1830	1723	1784	1738	1795
10.0	2104	2067	2010	2091	1872	1843	1777	1719	1701	1769
12.5	2258	2249	2235	2136	1959	1854	1830	1904	1914	2048
15.0	2455	2426	2354	2217	1995	2001	2057	2159	2235	2264
17.5	2767	2668	2591	2342	2127	2169	2351	2424	2497	2589
20.0	3127	3079	2875	2496	2288	2429	2543	2724	2855	2940
22.5	3710	3488	3293	2815	2561	2677	2847	3085	3197	3402
25.0	4296	4138	3825	3104	2976	3014	3235	3359	3641	3847
27.5	5153	4773	4464	3539	3355	3345	3512	3762	4135	4328
30.0	6185	5607	5160	4016	3778	3827	3963	4231	4369	4561
32.5	7121	6552	5835	4481	4205	4228	4325	4393	4643	4898
35.0	8525	7686	6730	5014	4596	4545	4664	4615	4759	4979
37.5	9636	8813	7493	5479	4971	4796	4772	4792	4723	4993
40.0	10128	9459	7943	5941	5287	4974	4858	4756	4636	4715
42.5	10664	10003	8297	6172	5399	5005	4740	4652	4379	4316
45.0	11431	10633	8716	6417	5467	4897	4556	4343	4006	3894
47.5	12537	11464	9158	6648	5468	4697	4280	4016	3608	3469
50.0	13749	12337	9556	6761	5362	4438	3982	3665	3205	3099
52.5	15288	13097	9829	6679	5151	4126	3665	3355	2880	2734
55.0	16929	13553	9932	6428	4821	3727	3320	3055	2581	2413
57.5	17914	13490	9539	5935	4377	3318	2981	2777	2267	2086
60.0	17853	12617	8443	5183	3796	2901	2660	2476	1994	1846
62.5	16482	11092	6993	4294	3228	2485	2349	2185	1763	1620
65.0	13723	8937	5462	3330	2652	2101	2007	1895	1529	1383
67.5	10342	6249	3738	2457	2118	1738	1718	1604	1291	1184
70.0	6548	3965	2436	1770	1696	1450	1486	1332	1109	1033
72.5	3221	2131	1589	1351	1398	1226	1252	1117	928	854
75.0	1299	1117	1100	1072	1156	1035	1041	905	733	648
77.5	743	715	767	859	946	847	818	667	545	439

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CANDELA TABULATION - (Cont.)

80.0	548	491	506	691	745	651	554	435	470	371
82.5	378	294	297	529	528	400	327	323	494	421
85.0	196	141	158	330	277	228	230	270	467	403
87.5	63	37	55	95	96	102	114	138	279	285
90.0	3	1	4	11	20	27	27	20	6	10
92.5	2	0	4	10	19	25	24	17	5	8
95.0	0	0	3	8	16	20	18	13	4	7
97.5	0	0	3	7	12	15	13	9	4	6
100.0	0	0	3	6	10	11	9	7	4	6
102.5	0	1	2	4	7	8	6	6	4	6
105.0	0	1	3	4	7	6	5	6	5	6
107.5	0	1	3	4	6	5	5	5	5	6
110.0	0	2	3	4	6	5	5	6	5	6
112.5	1	2	3	4	6	6	5	6	6	6
115.0	1	3	3	5	7	7	6	6	6	7
117.5	2	3	4	5	7	7	7	7	7	8
120.0	2	4	5	6	8	8	8	8	8	9
122.5	3	5	6	7	8	9	9	9	9	10
125.0	5	6	7	8	9	9	10	10	10	12
127.5	6	7	7	8	9	9	9	10	12	13
130.0	6	7	7	9	9	9	10	10	12	13
132.5	7	7	8	9	10	10	10	11	12	14
135.0	5	5	6	7	8	8	9	10	11	13
137.5	1	2	2	3	4	4	5	6	7	7
140.0	0	0	0	1	1	2	3	4	5	5
142.5	0	0	0	0	1	2	3	4	4	4
145.0	0	0	0	0	1	2	3	4	4	4
147.5	0	0	0	0	1	2	3	4	4	4
150.0	0	0	0	0	1	2	3	4	4	4
152.5	0	0	0	0	1	2	3	4	4	4
155.0	0	0	0	0	0	1	3	4	4	3
157.5	0	0	0	0	0	1	3	4	4	3
160.0	0	0	0	0	0	1	2	3	3	3
162.5	0	0	0	0	0	1	2	3	3	2
165.0	0	0	0	0	0	1	2	3	3	2
167.5	0	0	0	0	0	0	2	2	3	2
170.0	0	0	0	0	0	0	1	2	3	2
172.5	0	0	0	0	0	0	1	2	2	2
175.0	0	0	0	0	0	0	1	2	2	3
177.5	0	0	0	0	0	0	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	175	180
0.0	2062	2062
2.5	1995	1974
5.0	1831	1822
7.5	1754	1722
10.0	1820	1735
12.5	2125	1990
15.0	2430	2345
17.5	2767	2631
20.0	3184	3011
22.5	3506	3481
25.0	4025	3933

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CANDELA TABULATION - (Cont.)

27.5	4428	4391
30.0	4734	4716
32.5	5074	4938
35.0	5117	4987
37.5	5125	5002
40.0	4739	4641
42.5	4319	4228
45.0	3861	3781
47.5	3411	3349
50.0	3028	2954
52.5	2681	2598
55.0	2315	2266
57.5	2042	1980
60.0	1815	1761
62.5	1597	1569
65.0	1404	1394
67.5	1275	1277
70.0	1143	1173
72.5	975	1022
75.0	717	785
77.5	493	549
80.0	431	488
82.5	480	507
85.0	428	441
87.5	211	288
90.0	7	7
92.5	6	6
95.0	5	6
97.5	5	5
100.0	5	5
102.5	5	5
105.0	5	5
107.5	5	6
110.0	5	6
112.5	6	6
115.0	7	7
117.5	8	8
120.0	9	9
122.5	9	10
125.0	11	11
127.5	12	12
130.0	12	13
132.5	13	13
135.0	11	11
137.5	6	7
140.0	4	4
142.5	3	3
145.0	2	3
147.5	2	2
150.0	2	2
152.5	2	2
155.0	1	1
157.5	1	1
160.0	1	0
162.5	1	0
165.0	1	0

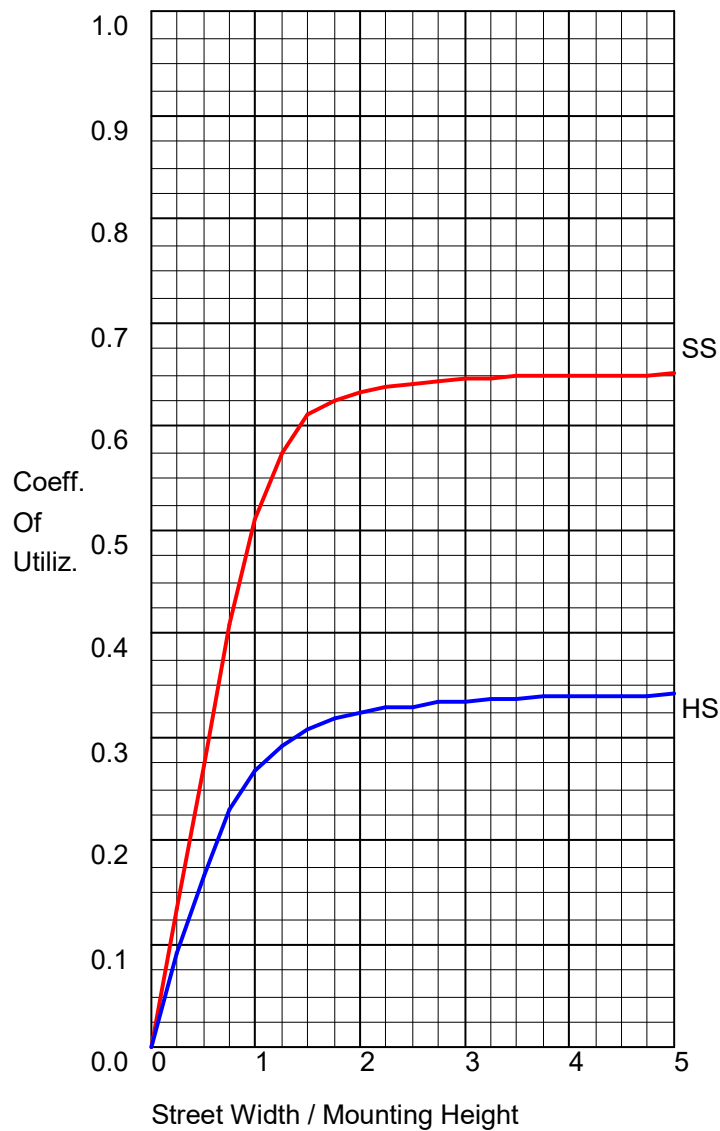
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CANDELA TABULATION - (Cont.)

167.5	1	0
170.0	1	0
172.5	1	0
175.0	1	0
177.5	1	0
180.0	1	1

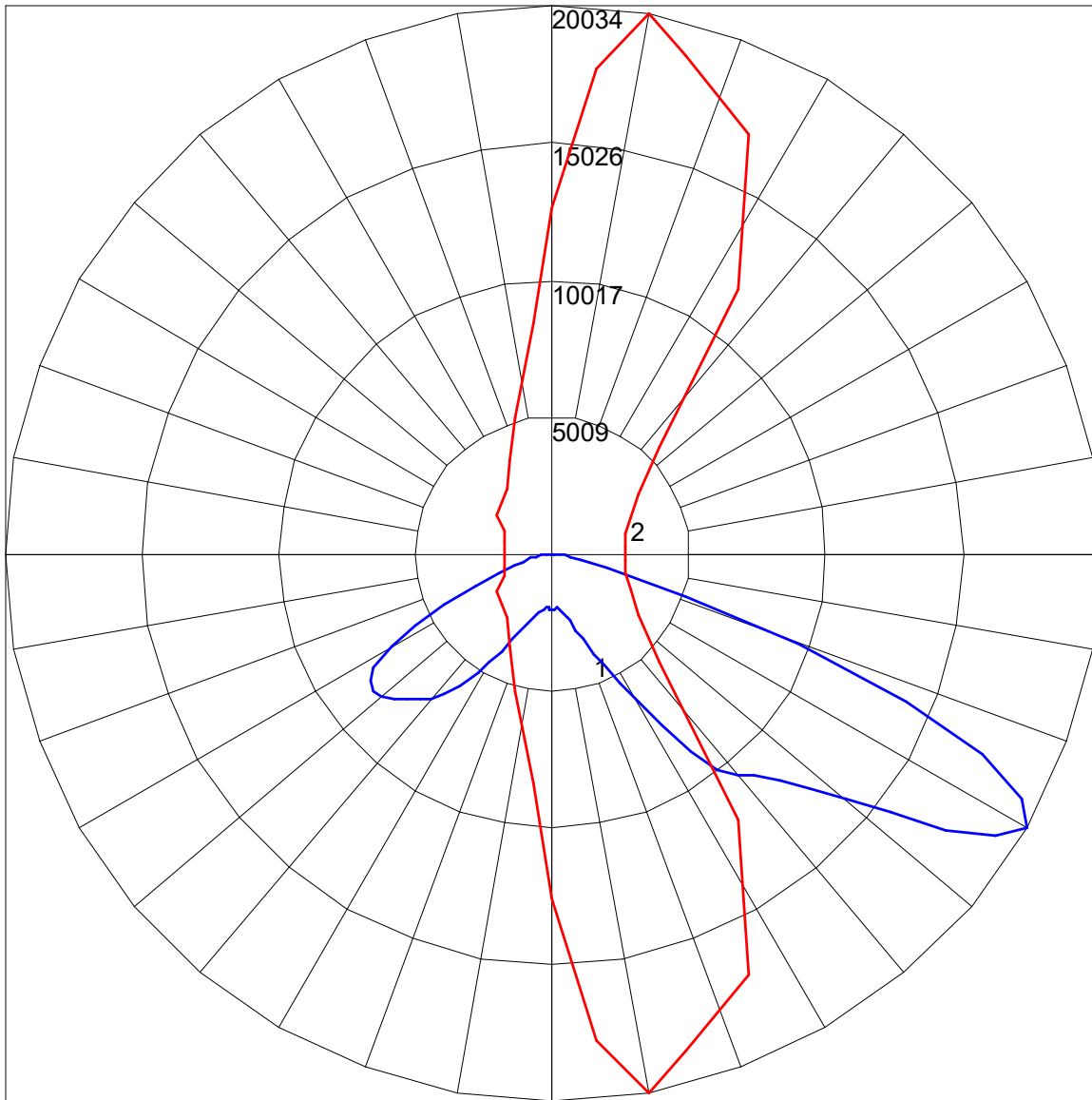
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

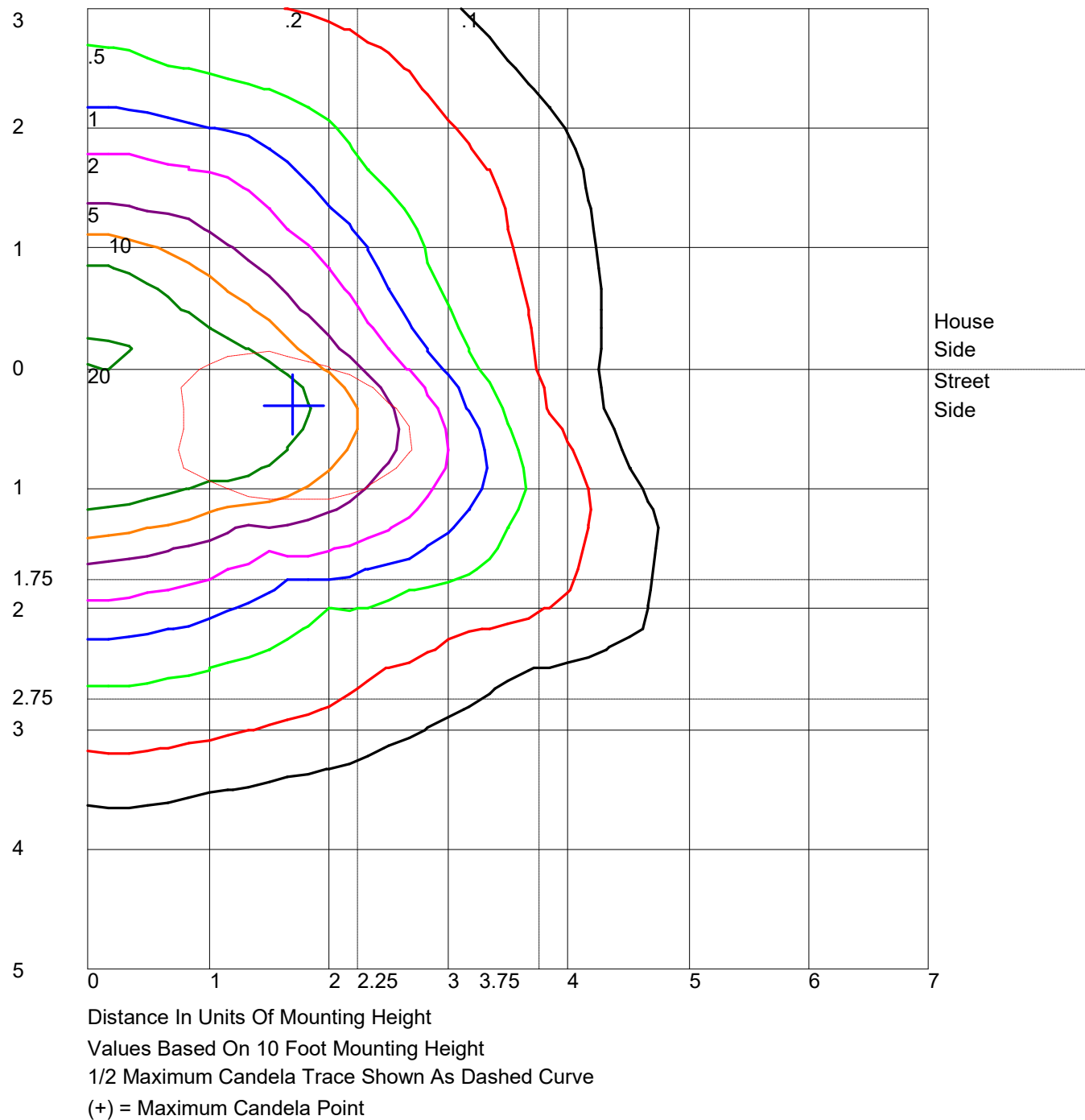
	Lumens	Percent Of Luminaire
Downward Street Side	16328.6	65.3
Downward House Side	8634.2	34.5
Downward Total	24962.8	99.9
Upward Street Side	10.1	0.0
Upward House Side	20.2	0.1
Upward Total	30.3	0.1
Total Flux	24993.1	100.0

POLAR GRAPH

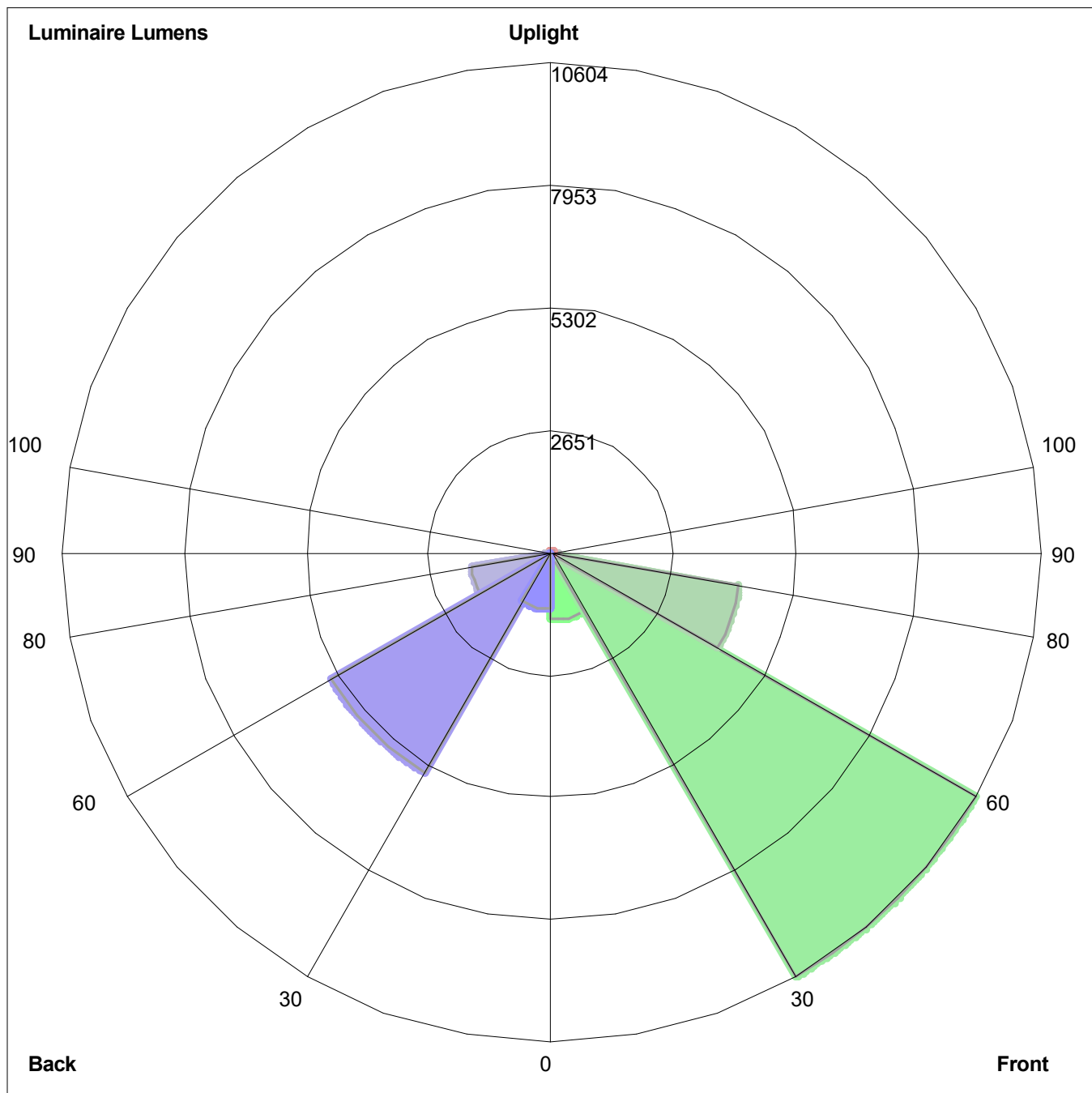


Maximum Candela = 20034 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1455.7, Medium=10604.1, High=4139.8, Very High=129.0
Back: Low=1226.1, Medium=5490.6, High= 1759.0, Very High=158.5
Uplight: Low=8.1, High=22.1

BUG Rating : B4-U2-G3