



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-50.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-2-LED-25L-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26165
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	228.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20974
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	20974
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	77 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1198 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1524.0	N.A.	5.8
FM - Front-Medium (30-60)	11101.4	N.A.	42.4
FH - Front-High (60-80)	4334.0	N.A.	16.6
FVH - Front-Very High (80-90)	135.1	N.A.	0.5
BL - Back-Low (0-30)	1283.7	N.A.	4.9
BM - Back-Medium (30-60)	5748.1	N.A.	22.0
BH - Back-High (60-80)	1841.5	N.A.	7.0
BVH - Back-Very High (80-90)	165.9	N.A.	0.6
UL - Uplight-Low (90-100)	8.4	N.A.	0.0
UH - Uplight-High (100-180)	22.5	N.A.	0.1
Total	26164.6	N.A.	100.0
BUG Rating	B4-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	2159	2159	2159	2159	2159	2159	2159	2159	2159	2159
2.5	2157	2149	2194	2208	2230	2210	2216	2193	2160	2134
5.0	2151	2192	2263	2260	2306	2149	2136	2095	2068	2061
7.5	2186	2247	2308	2189	2214	2168	2175	2263	2223	2152
10.0	2275	2308	2418	2200	2317	2343	2369	2362	2327	2247
12.5	2504	2620	2492	2450	2527	2471	2539	2515	2519	2529
15.0	2680	2787	2732	2788	2885	2741	2810	2768	2800	2672
17.5	2840	2910	2872	2948	3054	3142	3062	3103	3186	3044
20.0	3177	3250	3199	3208	3327	3398	3509	3459	3531	3475
22.5	3450	3398	3521	3594	3629	3706	3974	3914	4076	4139
25.0	3852	3736	3890	3959	4061	4078	4445	4613	4655	4689
27.5	4403	4492	4557	4417	4508	4594	4953	5481	5658	5584
30.0	5114	5015	4874	4991	5022	5249	5615	6407	6651	6587
32.5	6000	6149	5720	5505	5739	5853	6504	7643	7988	7839
35.0	7067	6933	6646	6492	6349	6739	7406	8826	9491	9310
37.5	8091	8108	7655	7322	7280	7522	8321	9758	10372	10442
40.0	8594	8674	8509	8385	8265	8397	9098	10202	11033	11092
42.5	8885	8885	8777	8878	9147	9284	10038	10606	11330	11466
45.0	8808	8801	8749	9019	9582	10071	11158	11331	11966	12280
47.5	8219	8267	8367	8758	9599	10588	12212	12510	12865	13376
50.0	7317	7383	7521	8015	9143	10679	13327	13955	13951	14640
52.5	6220	6300	6426	6990	8065	10160	14087	15695	15199	16340
55.0	5000	5053	5215	5731	6831	9038	14370	17180	17064	18418
57.5	3773	3752	3922	4448	5455	7550	13857	17899	18875	20144
60.0	2806	2785	2863	3278	4025	5825	12396	17766	19762	20974
62.5	2130	2124	2166	2387	2847	4105	10195	16248	19475	20251
65.0	1711	1698	1739	1876	2088	2700	7860	14034	17898	18223
67.5	1358	1398	1424	1527	1697	1874	5485	10910	14710	14706
70.0	1070	1116	1134	1230	1409	1469	3351	7670	10917	10071
72.5	787	829	838	945	1130	1177	2023	4738	6617	5320
75.0	520	559	539	626	817	952	1300	2919	3193	2133
77.5	385	420	350	381	504	699	891	1845	1569	1059
80.0	386	425	307	256	304	453	581	1198	915	672
82.5	433	433	278	193	201	299	327	708	580	469
85.0	410	423	230	138	134	188	186	272	298	258
87.5	283	272	149	79	67	84	70	75	79	82
90.0	77	75	39	17	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	12	12	10	9	5	2	0	0	2	2
122.5	13	13	12	9	6	3	0	1	2	2
125.0	14	14	13	12	7	4	1	1	3	3
127.5	14	14	13	12	8	5	1	2	4	5
130.0	15	15	14	12	9	6	2	2	4	5

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CANDELA TABULATION - (Cont.)

132.5	16	16	14	13	9	6	2	2	5	6
135.0	15	14	13	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	2159	2159	2159	2159	2159	2159	2159	2159	2159	2159
2.5	2144	2139	2155	2161	2173	2160	2163	2156	2147	2119
5.0	2089	2076	2029	2024	2058	2017	2009	2029	2001	1976
7.5	2116	2140	2106	2118	2047	1916	1804	1868	1820	1879
10.0	2203	2164	2104	2189	1960	1929	1860	1800	1781	1852
12.5	2364	2354	2340	2236	2051	1941	1916	1993	2004	2144
15.0	2570	2540	2464	2321	2089	2095	2153	2260	2340	2370
17.5	2897	2793	2713	2452	2227	2271	2461	2538	2614	2710
20.0	3274	3223	3010	2613	2395	2543	2662	2852	2989	3078
22.5	3884	3652	3447	2947	2681	2803	2981	3230	3347	3562
25.0	4497	4332	4004	3250	3116	3155	3387	3517	3812	4027
27.5	5395	4997	4673	3705	3512	3502	3677	3938	4329	4531
30.0	6475	5870	5402	4204	3955	4006	4149	4429	4574	4775
32.5	7455	6859	6109	4691	4402	4426	4528	4599	4861	5128
35.0	8925	8046	7046	5249	4812	4758	4883	4831	4982	5213
37.5	10088	9226	7844	5736	5204	5021	4996	5017	4945	5227
40.0	10603	9903	8316	6220	5535	5207	5086	4979	4853	4936
42.5	11164	10472	8686	6461	5652	5240	4962	4870	4584	4518
45.0	11967	11132	9125	6718	5723	5127	4770	4547	4194	4077
47.5	13125	12002	9588	6960	5724	4917	4481	4204	3777	3632
50.0	14394	12916	10004	7078	5613	4646	4169	3837	3355	3244
52.5	16005	13711	10290	6992	5393	4320	3837	3512	3015	2862
55.0	17723	14189	10398	6729	5047	3902	3476	3198	2702	2526
57.5	18754	14123	9986	6213	4582	3474	3121	2907	2373	2184
60.0	18690	13209	8839	5426	3974	3037	2785	2592	2088	1933
62.5	17255	11612	7321	4495	3379	2602	2459	2287	1846	1696
65.0	14367	9356	5718	3486	2776	2200	2101	1984	1601	1448
67.5	10827	6542	3913	2572	2217	1820	1799	1679	1352	1240
70.0	6855	4151	2550	1853	1776	1518	1556	1394	1161	1081
72.5	3372	2231	1664	1414	1464	1283	1311	1169	972	894
75.0	1360	1169	1152	1122	1210	1084	1090	947	767	678
77.5	778	749	803	899	990	887	856	698	571	460

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CANDELA TABULATION - (Cont.)

80.0	574	514	530	723	780	682	580	455	492	388
82.5	396	308	311	554	553	419	342	338	517	441
85.0	205	148	165	345	290	239	241	283	489	422
87.5	66	39	58	99	101	107	119	144	292	298
90.0	3	1	4	12	21	28	28	21	6	10
92.5	2	0	4	10	20	26	25	18	5	8
95.0	0	0	3	8	17	21	19	14	4	7
97.5	0	0	3	7	13	16	14	9	4	6
100.0	0	0	3	6	10	12	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	13
127.5	6	7	7	8	9	9	9	10	13	14
130.0	6	7	7	9	9	9	10	10	13	14
132.5	7	7	8	9	10	10	10	12	13	15
135.0	5	5	6	7	8	8	9	10	12	14
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	2159	2159
2.5	2089	2067
5.0	1917	1907
7.5	1836	1803
10.0	1905	1816
12.5	2225	2083
15.0	2544	2455
17.5	2897	2754
20.0	3333	3152
22.5	3670	3644
25.0	4214	4117

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CANDELA TABULATION - (Cont.)

27.5	4636	4597
30.0	4956	4937
32.5	5312	5170
35.0	5357	5221
37.5	5365	5237
40.0	4961	4859
42.5	4522	4426
45.0	4042	3958
47.5	3571	3506
50.0	3170	3093
52.5	2807	2720
55.0	2424	2372
57.5	2138	2073
60.0	1900	1844
62.5	1672	1643
65.0	1470	1459
67.5	1335	1337
70.0	1197	1228
72.5	1021	1070
75.0	751	822
77.5	516	575
80.0	451	511
82.5	503	531
85.0	448	462
87.5	221	302
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	12	12
127.5	13	13
130.0	13	14
132.5	14	14
135.0	12	12
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

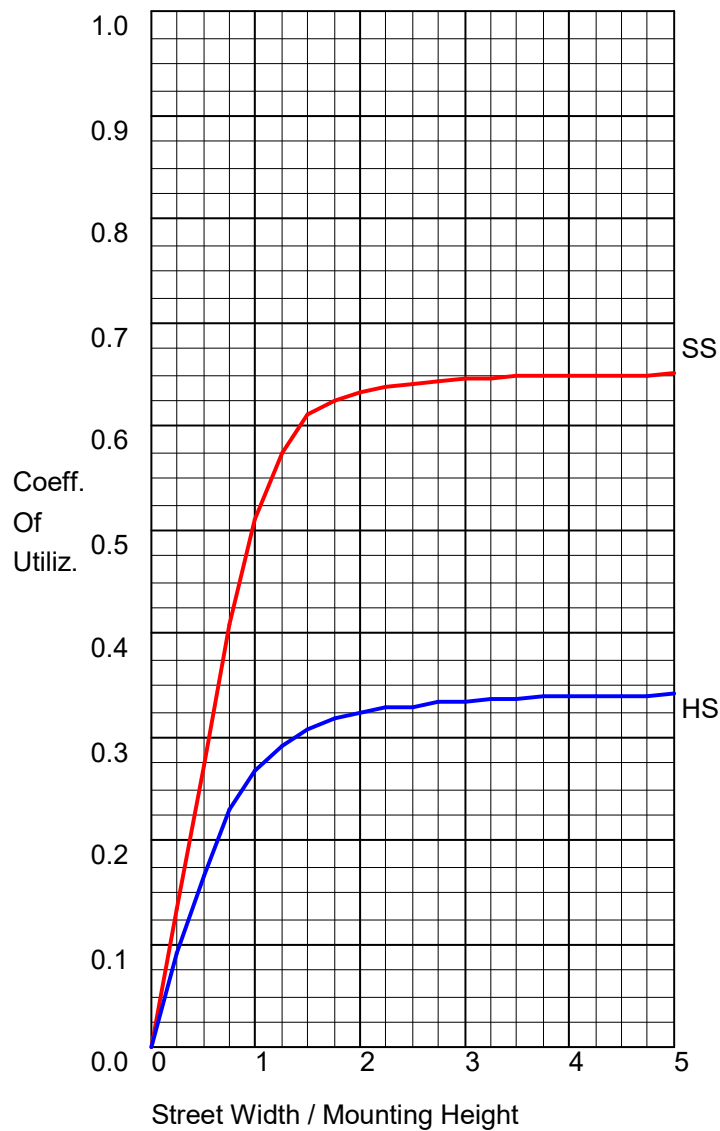
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CANDELA TABULATION - (Cont.)

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

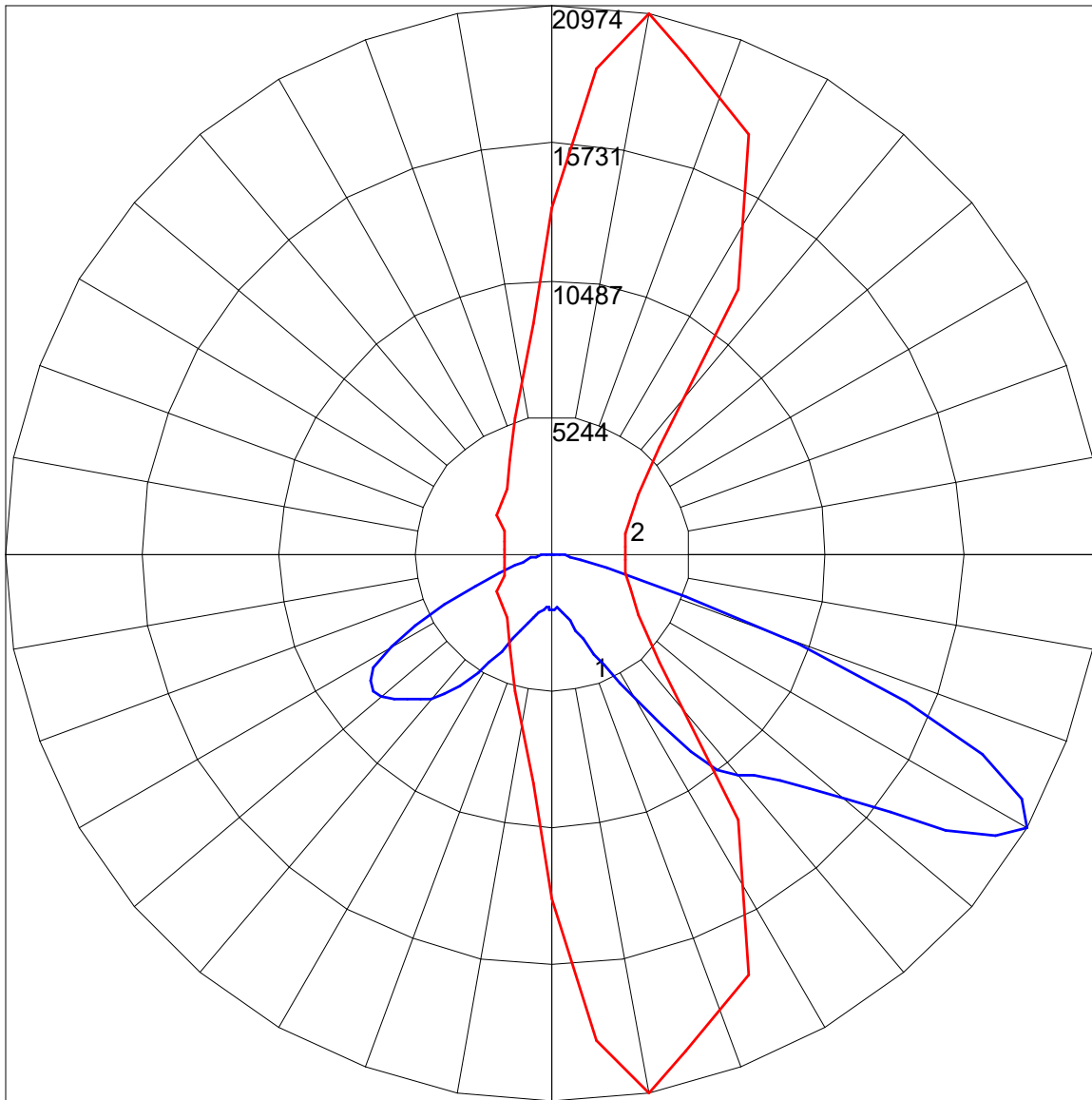
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

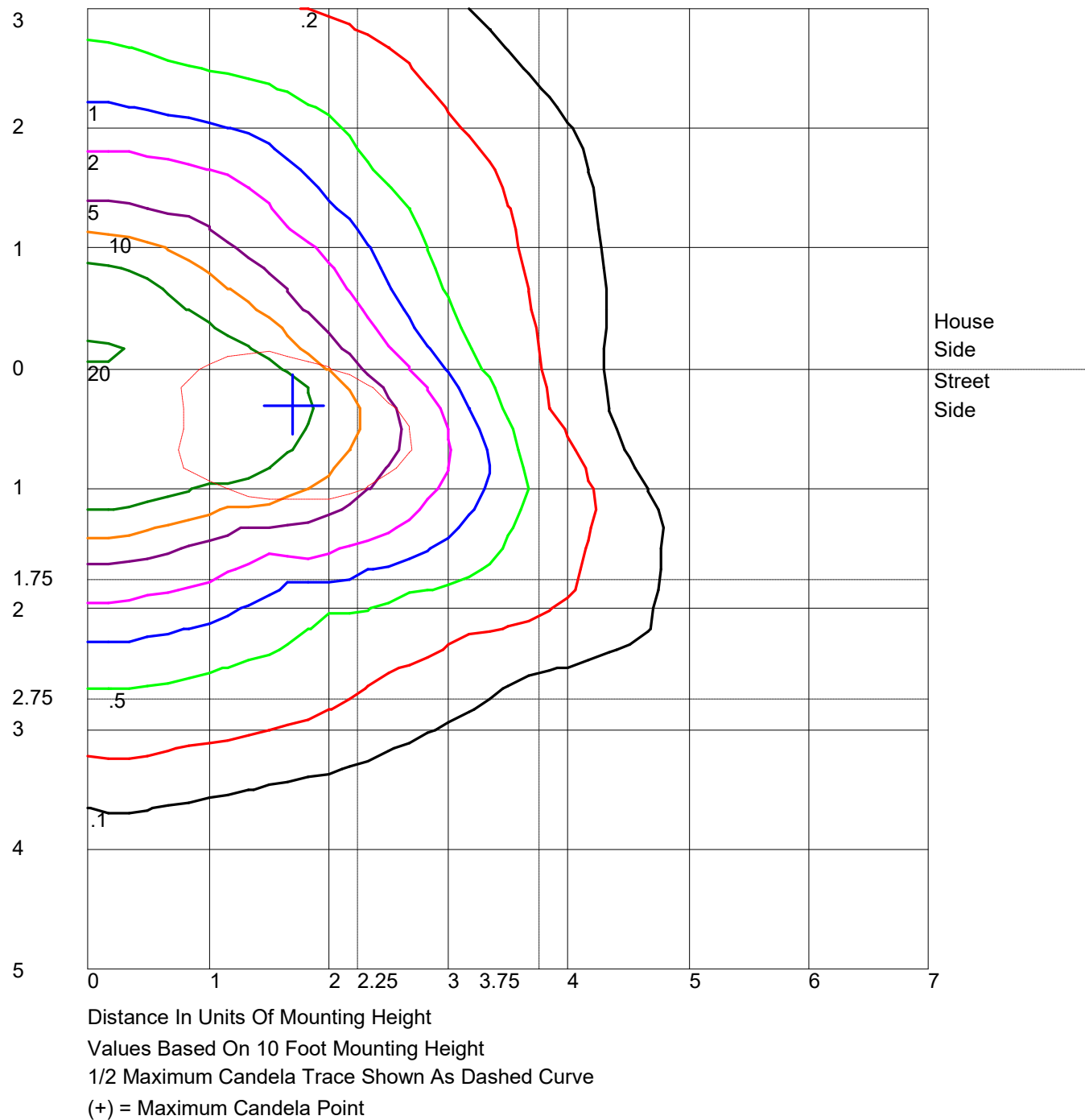
	Lumens	Percent Of Luminaire
Downward Street Side	17094.4	65.3
Downward House Side	9039.2	34.5
Downward Total	26133.6	99.9
Upward Street Side	10.4	0.0
Upward House Side	20.5	0.1
Upward Total	30.9	0.1
Total Flux	26164.5	100.0

POLAR GRAPH

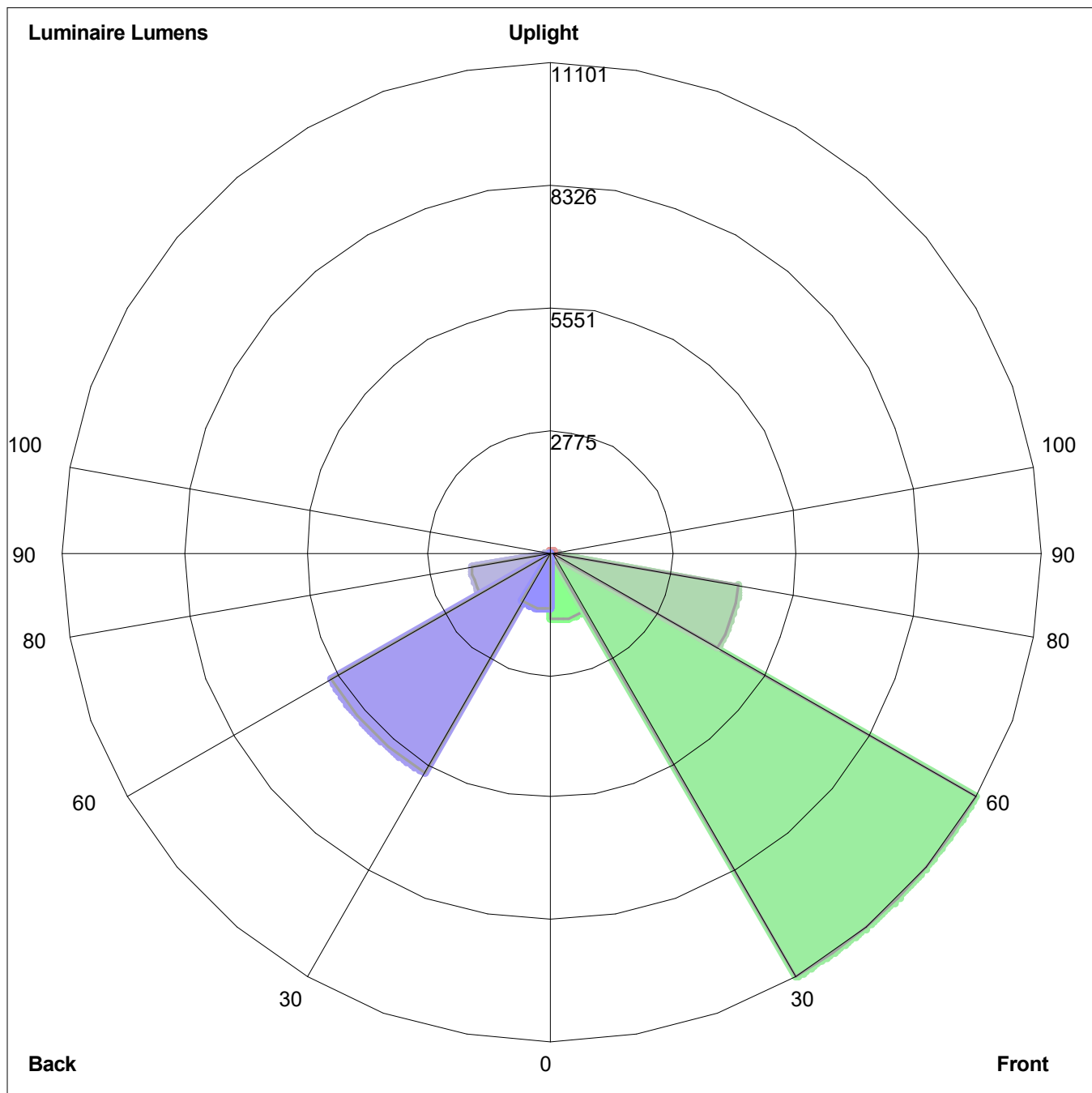


Maximum Candela = 20974 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1524.0, Medium=11101.4, High= 4334.0, Very High=135.1
Back: Low=1283.7, Medium=5748.1, High=1841.5, Very High=165.9
Uplight: Low=8.4, High=22.5

BUG Rating : B4-U2-G3