



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11670  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/01/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-2-LED-10L-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	10515
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	77.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8486
Maximum Candela Angle	82.5H 65V
Maximum Candela (<90 Degrees Vertical)	8486
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 65V
Maximum Candela At 90 Degrees Vertical	14 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	554 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	570.7	N.A.	5.4
FM - Front-Medium (30-60)	3954.7	N.A.	37.6
FH - Front-High (60-80)	2062.1	N.A.	19.6
FVH - Front-Very High (80-90)	46.4	N.A.	0.4
BL - Back-Low (0-30)	449.9	N.A.	4.3
BM - Back-Medium (30-60)	2384.0	N.A.	22.7
BH - Back-High (60-80)	971.4	N.A.	9.2
BVH - Back-Very High (80-90)	59.6	N.A.	0.6
UL - Uplight-Low (90-100)	4.4	N.A.	0.0
UH - Uplight-High (100-180)	11.5	N.A.	0.1
Total	10514.7	N.A.	100.0
BUG Rating	B2-U2-G2		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>5.0</b>	<b>15.0</b>	<b>25.0</b>	<b>35.0</b>	<b>45.0</b>	<b>55.0</b>	<b>65.0</b>	<b>75.0</b>	<b>82.5</b>
<b>0.0</b>	911	911	911	911	911	911	911	911	911	911
<b>2.5</b>	930	931	915	913	917	920	917	907	886	888
<b>5.0</b>	892	906	899	906	898	891	886	863	867	860
<b>7.5</b>	906	917	899	916	872	907	891	887	910	880
<b>10.0</b>	935	928	920	916	921	942	958	936	937	931
<b>12.5</b>	1031	1008	998	986	978	1006	1031	1041	1005	1015
<b>15.0</b>	1073	1042	1068	1085	1086	1104	1113	1140	1131	1069
<b>17.5</b>	1115	1090	1124	1120	1186	1214	1218	1247	1252	1205
<b>20.0</b>	1233	1207	1238	1219	1218	1301	1344	1354	1398	1387
<b>22.5</b>	1252	1287	1314	1349	1356	1392	1492	1500	1567	1572
<b>25.0</b>	1370	1383	1397	1427	1504	1511	1617	1666	1698	1755
<b>27.5</b>	1610	1576	1592	1593	1621	1690	1773	1853	1898	1955
<b>30.0</b>	1796	1828	1815	1801	1810	1852	1954	2025	2157	2169
<b>32.5</b>	2309	2224	2136	2032	2063	2076	2141	2205	2378	2370
<b>35.0</b>	2634	2647	2490	2434	2324	2323	2367	2453	2545	2669
<b>37.5</b>	3220	3202	2963	2791	2682	2665	2641	2622	2791	2890
<b>40.0</b>	3477	3469	3393	3222	3064	3080	2917	2911	2971	3109
<b>42.5</b>	3670	3661	3591	3504	3499	3398	3285	3186	3104	3265
<b>45.0</b>	3755	3770	3703	3667	3713	3727	3623	3473	3265	3473
<b>47.5</b>	3680	3698	3677	3715	3825	3985	4035	3860	3485	3745
<b>50.0</b>	3463	3463	3517	3577	3809	4200	4489	4411	3801	4081
<b>52.5</b>	3014	3061	3132	3269	3647	4243	4985	5004	4221	4540
<b>55.0</b>	2423	2433	2562	2774	3243	4079	5321	5711	4765	5115
<b>57.5</b>	1811	1816	1911	2138	2581	3575	5479	6420	5425	5819
<b>60.0</b>	1276	1283	1342	1475	1849	2833	5322	7008	6225	6773
<b>62.5</b>	895	899	903	968	1231	1948	4680	7313	7014	7733
<b>65.0</b>	649	652	652	685	823	1223	3673	7089	7635	8486
<b>67.5</b>	483	481	487	514	595	793	2590	6130	7549	8187
<b>70.0</b>	361	361	366	396	460	566	1573	4368	6292	6110
<b>72.5</b>	221	238	243	291	357	438	894	2589	4053	3122
<b>75.0</b>	130	142	134	173	242	334	537	1552	1919	1119
<b>77.5</b>	110	124	103	113	134	208	353	939	980	516
<b>80.0</b>	108	115	92	85	93	134	199	554	522	286
<b>82.5</b>	102	103	73	60	63	93	109	285	292	174
<b>85.0</b>	81	76	52	40	40	58	66	84	132	91
<b>87.5</b>	29	29	25	19	16	20	21	22	26	30
<b>90.0</b>	6	6	6	4	2	1	1	2	4	4
<b>92.5</b>	4	4	4	3	1	1	0	1	3	3
<b>95.0</b>	4	4	3	2	1	1	0	0	1	1
<b>97.5</b>	3	3	3	2	1	1	0	0	1	1
<b>100.0</b>	3	3	3	2	1	1	0	0	0	1
<b>102.5</b>	3	3	2	2	1	1	0	0	0	1
<b>105.0</b>	3	3	2	2	1	1	0	0	0	1
<b>107.5</b>	3	3	3	2	1	1	0	0	0	1
<b>110.0</b>	3	3	3	2	1	1	0	0	1	1
<b>112.5</b>	3	3	3	3	2	1	0	0	1	1
<b>115.0</b>	4	4	3	3	2	1	0	0	1	1
<b>117.5</b>	4	4	4	3	2	1	1	1	1	1
<b>120.0</b>	5	5	4	4	3	2	1	1	1	2
<b>122.5</b>	5	5	5	4	3	2	1	1	2	2
<b>125.0</b>	5	5	5	5	4	3	1	1	2	3
<b>127.5</b>	6	5	5	5	4	3	1	1	2	3
<b>130.0</b>	6	6	5	5	4	3	1	1	2	3

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES**

**CANDELA TABULATION - (Cont.)**

132.5	6	6	6	5	4	3	2	1	2	3
135.0	5	5	4	4	3	2	1	1	2	2
137.5	2	2	2	2	1	1	0	0	1	1
140.0	1	1	1	0	0	0	0	0	0	0
142.5	1	1	0	0	0	0	0	0	0	0
145.0	1	1	0	0	0	0	0	0	0	0
147.5	1	1	0	0	0	0	0	0	0	0
150.0	1	0	0	0	0	0	0	0	0	0
152.5	1	0	0	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	1	1	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	1	1	0	0	0	0	0	0	0	0
177.5	1	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	911	911	911	911	911	911	911	911	911	911
2.5	892	899	897	896	900	892	892	893	901	903
5.0	861	865	857	814	849	845	852	842	848	829
7.5	871	879	881	871	858	829	776	780	791	800
10.0	936	911	880	891	844	823	783	776	738	760
12.5	980	990	963	946	885	821	786	803	778	797
15.0	1093	1080	1050	988	898	867	835	832	813	788
17.5	1190	1173	1136	1054	939	906	891	856	836	819
20.0	1357	1313	1268	1131	1007	957	896	892	891	887
22.5	1532	1478	1437	1247	1110	1024	951	932	955	1002
25.0	1720	1671	1607	1405	1265	1080	989	1005	1052	1123
27.5	1947	1899	1820	1615	1409	1132	1067	1118	1220	1296
30.0	2142	2104	2007	1766	1532	1236	1205	1260	1357	1451
32.5	2405	2353	2234	1960	1645	1392	1384	1414	1550	1712
35.0	2650	2633	2502	2166	1732	1541	1573	1617	1755	1908
37.5	2896	2883	2759	2384	1898	1713	1736	1831	1912	2105
40.0	3129	3103	2965	2609	2030	1891	1915	1986	2053	2197
42.5	3321	3309	3160	2736	2134	2033	2039	2091	2075	2151
45.0	3548	3552	3375	2839	2210	2098	2070	2068	1999	2019
47.5	3829	3838	3642	2911	2259	2105	2011	1949	1850	1805
50.0	4195	4188	3932	2971	2293	2061	1897	1765	1625	1562
52.5	4630	4605	4227	3017	2280	1968	1745	1564	1398	1330
55.0	5185	5122	4563	3034	2253	1843	1576	1383	1214	1139
57.5	5866	5731	4894	3031	2203	1723	1421	1247	1077	1024
60.0	6713	6383	5183	2976	2127	1600	1309	1133	963	912
62.5	7674	6935	5217	2805	1991	1464	1191	1034	828	775
65.0	8195	6850	4822	2427	1742	1275	1036	888	671	608
67.5	7535	5729	3712	1792	1369	1011	814	704	506	445
70.0	5452	3796	2376	1167	933	717	610	519	372	331
72.5	2656	1804	1241	752	653	521	457	383	273	233
75.0	929	718	635	513	459	388	347	268	181	158
77.5	431	359	367	367	343	303	244	185	139	128

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES**

**CANDELA TABULATION - (Cont.)**

80.0	258	224	224	268	271	220	168	144	126	132
82.5	146	129	129	207	200	140	126	136	172	177
85.0	75	68	70	125	96	94	103	138	182	156
87.5	26	24	25	35	39	43	44	62	75	58
90.0	4	4	5	7	12	14	14	10	4	5
92.5	3	3	5	7	10	13	13	9	4	5
95.0	2	2	4	6	9	10	10	7	3	4
97.5	1	1	3	5	7	8	7	6	2	4
100.0	1	1	3	4	6	6	5	4	2	3
102.5	1	1	2	4	4	5	4	3	2	3
105.0	1	1	2	3	4	4	3	3	2	3
107.5	1	1	2	3	3	3	3	2	2	3
110.0	1	1	2	3	3	3	3	3	2	3
112.5	1	2	2	3	3	3	3	3	3	3
115.0	1	2	2	3	3	4	3	3	3	4
117.5	1	2	2	3	4	4	4	3	3	4
120.0	2	2	3	4	4	4	4	4	4	4
122.5	2	3	3	4	4	4	4	4	4	5
125.0	3	4	4	4	4	4	4	5	5	5
127.5	3	4	4	4	4	4	4	5	5	6
130.0	3	4	4	4	4	4	4	5	6	6
132.5	3	4	4	4	4	4	4	5	6	6
135.0	2	3	3	4	4	4	4	4	5	6
137.5	1	1	1	2	2	3	3	3	4	4
140.0	0	0	0	1	1	1	2	2	2	3
142.5	0	0	0	0	1	1	2	2	2	2
145.0	0	0	0	0	1	1	2	2	2	2
147.5	0	0	0	0	1	1	2	2	2	2
150.0	0	0	0	0	1	1	2	2	2	2
152.5	0	0	0	0	1	1	2	2	2	2
155.0	0	0	0	0	1	1	2	2	2	2
157.5	0	0	0	0	1	1	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	1
162.5	0	0	0	0	1	1	2	2	2	1
165.0	0	0	0	0	1	1	1	2	2	1
167.5	0	0	0	0	0	1	1	1	1	1
170.0	0	0	0	0	0	1	1	1	1	1
172.5	0	0	0	0	0	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	1
177.5	0	0	0	0	0	1	1	1	1	1
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	911	911
2.5	907	902
5.0	841	839
7.5	801	822
10.0	763	775
12.5	796	822
15.0	817	841
17.5	860	856
20.0	945	922
22.5	1015	1036
25.0	1151	1167

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>27.5</b>	1320	1348
<b>30.0</b>	1511	1545
<b>32.5</b>	1783	1789
<b>35.0</b>	1992	1987
<b>37.5</b>	2210	2202
<b>40.0</b>	2255	2251
<b>42.5</b>	2200	2188
<b>45.0</b>	2040	2021
<b>47.5</b>	1813	1798
<b>50.0</b>	1542	1540
<b>52.5</b>	1297	1291
<b>55.0</b>	1125	1114
<b>57.5</b>	1015	1004
<b>60.0</b>	893	879
<b>62.5</b>	743	728
<b>65.0</b>	573	558
<b>67.5</b>	426	414
<b>70.0</b>	322	319
<b>72.5</b>	232	227
<b>75.0</b>	181	180
<b>77.5</b>	155	155
<b>80.0</b>	161	165
<b>82.5</b>	203	206
<b>85.0</b>	164	169
<b>87.5</b>	49	50
<b>90.0</b>	4	4
<b>92.5</b>	4	4
<b>95.0</b>	4	3
<b>97.5</b>	3	3
<b>100.0</b>	3	3
<b>102.5</b>	3	3
<b>105.0</b>	3	3
<b>107.5</b>	3	3
<b>110.0</b>	3	3
<b>112.5</b>	3	3
<b>115.0</b>	4	4
<b>117.5</b>	4	4
<b>120.0</b>	4	4
<b>122.5</b>	5	5
<b>125.0</b>	5	5
<b>127.5</b>	6	6
<b>130.0</b>	6	6
<b>132.5</b>	6	6
<b>135.0</b>	5	6
<b>137.5</b>	4	4
<b>140.0</b>	3	3
<b>142.5</b>	2	3
<b>145.0</b>	2	2
<b>147.5</b>	2	2
<b>150.0</b>	2	2
<b>152.5</b>	2	2
<b>155.0</b>	2	2
<b>157.5</b>	2	2
<b>160.0</b>	1	1
<b>162.5</b>	1	1
<b>165.0</b>	1	1

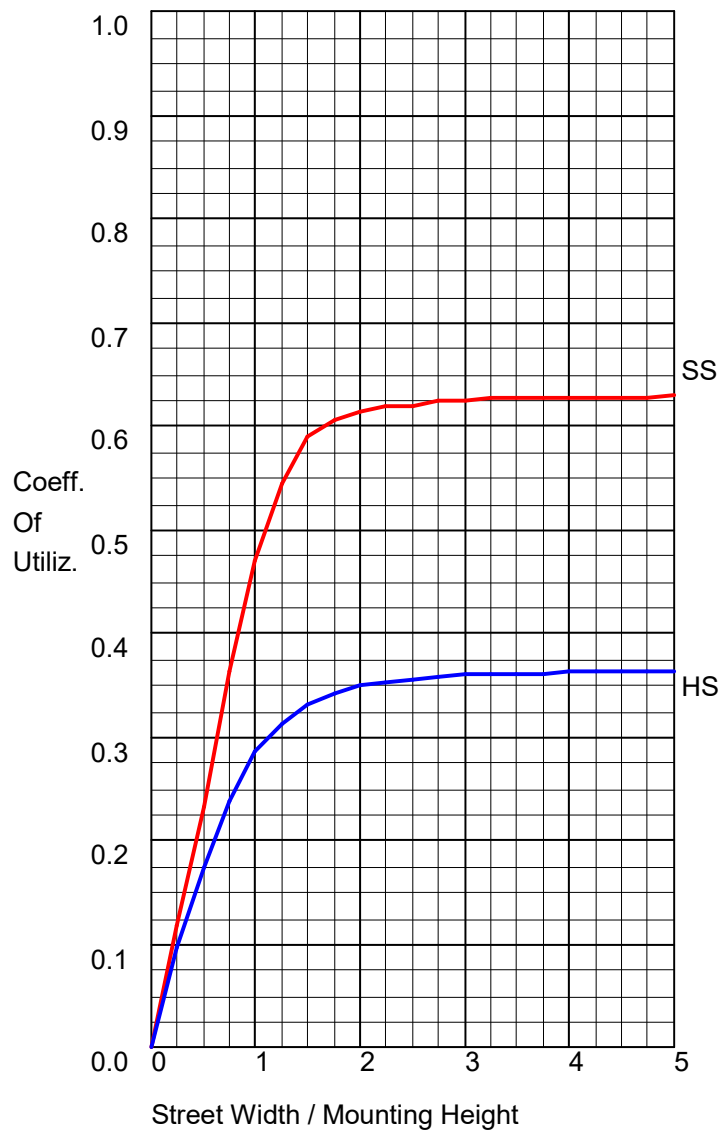
**IES ROAD REPORT**

**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	<b>1</b>	<b>1</b>
<b>170.0</b>	<b>1</b>	<b>1</b>
<b>172.5</b>	<b>1</b>	<b>1</b>
<b>175.0</b>	<b>1</b>	<b>1</b>
<b>177.5</b>	<b>1</b>	<b>1</b>
<b>180.0</b>	<b>0</b>	<b>0</b>

COEFFICIENTS OF UTILIZATION

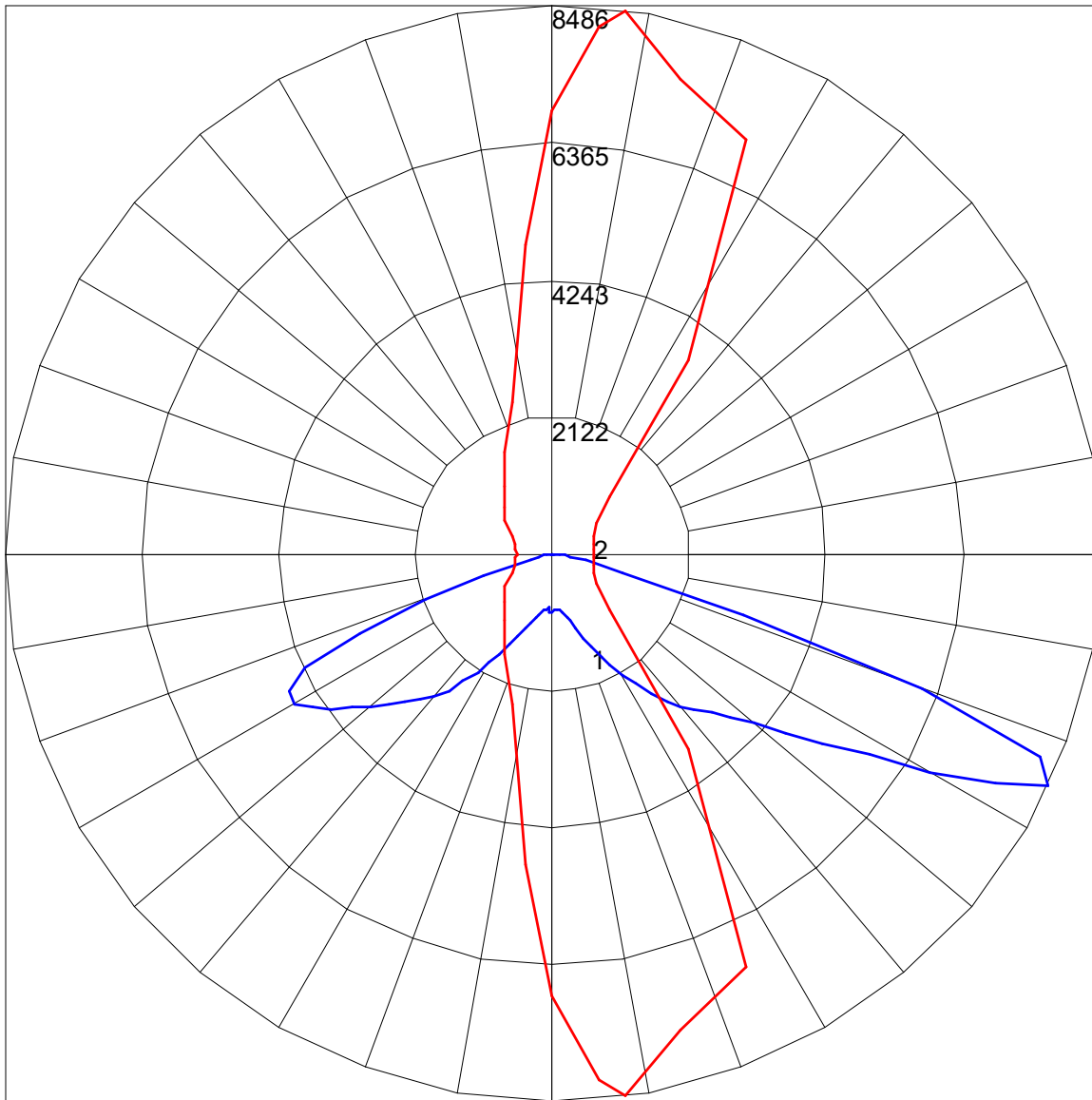


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6633.9	63.1
Downward House Side	3864.8	36.8
Downward Total	10498.7	99.8
Upward Street Side	4.9	0.0
Upward House Side	11.0	0.1
Upward Total	15.9	0.2
Total Flux	10514.6	100.0



POLAR GRAPH

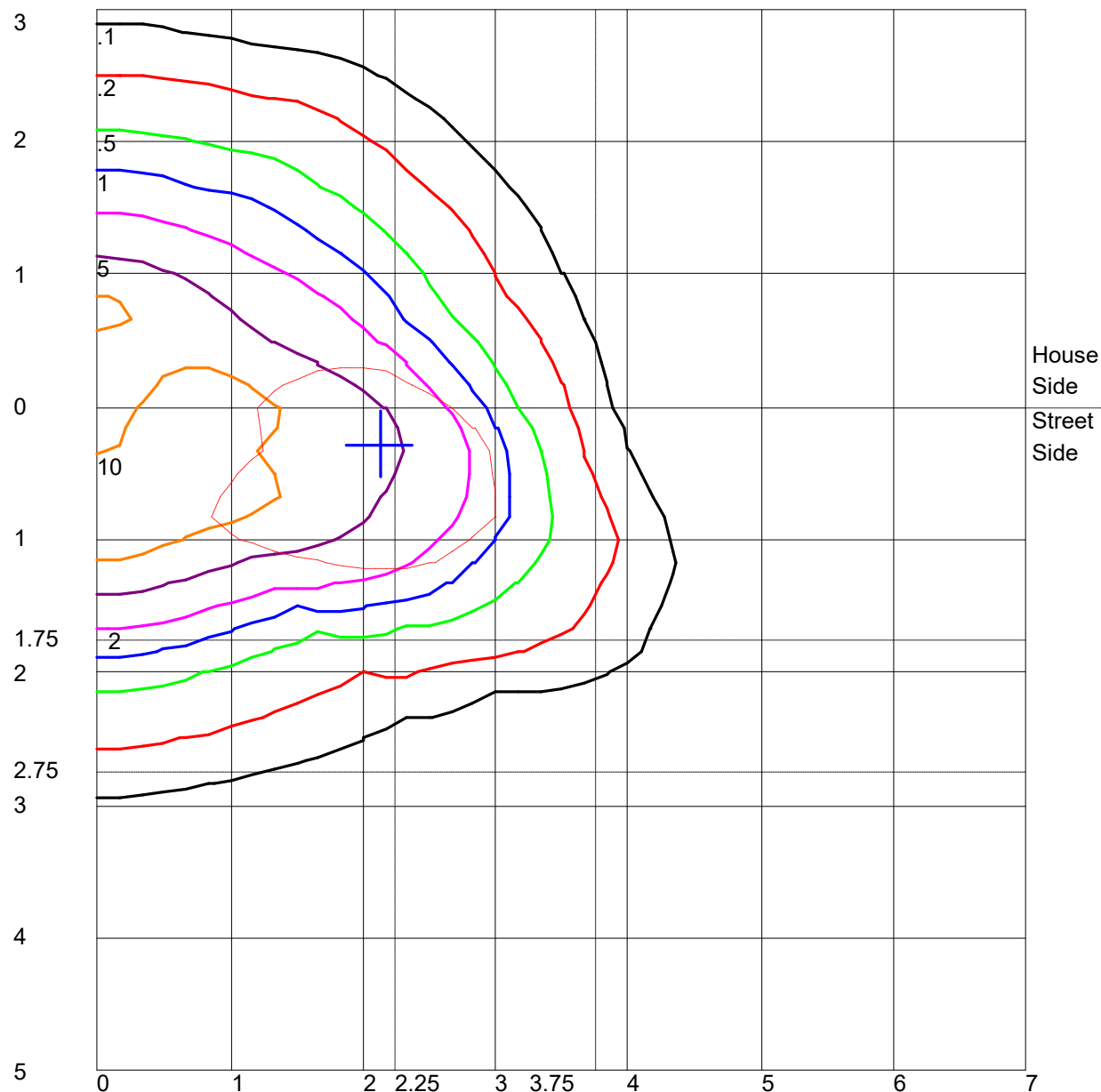


Maximum Candela = 8486 Located At Horizontal Angle = 82.5, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

# IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-50.IES

## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



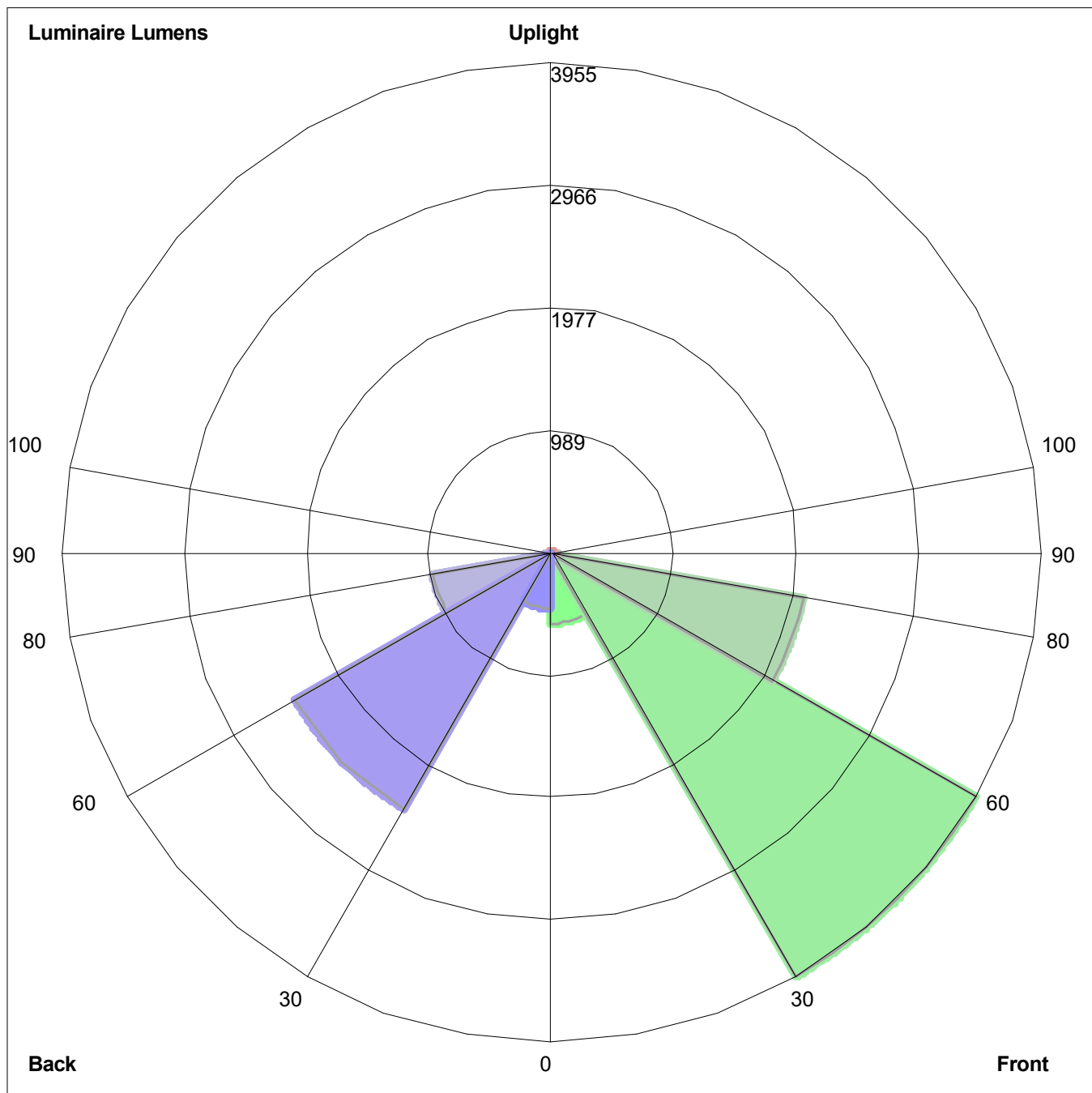
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=570.7, Medium=3954.7, High=2062.1, Very High=46.4  
Back: Low=449.9, Medium= 2384.0, High=971.4, Very High=59.6  
Uplight: Low=4.4, High=11.5

BUG Rating : B2-U2-G2