



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-FT-LED-32L-50-IL.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7771\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]04/03/2017  
[TEST DATE]05/02/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT] HLN-FT-LED-32L-50-IL  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26046
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	315
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24866.121
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	24866.121
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3021.137 (11.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-FT-LED-32L-50-IL.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2268.8	N.A.	8.7
FM - Front-Medium (30-60)	9453.1	N.A.	36.3
FH - Front-High (60-80)	11237.9	N.A.	43.1
FVH - Front-Very High (80-90)	263.0	N.A.	1.0
BL - Back-Low (0-30)	892.0	N.A.	3.4
BM - Back-Medium (30-60)	1501.1	N.A.	5.8
BH - Back-High (60-80)	425.1	N.A.	1.6
BVH - Back-Very High (80-90)	5.0	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	26046.0	N.A.	100.0
BUG Rating	B2-U0-G4		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-FT-LED-32L-50-IL.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>42.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950
<b>2.5</b>	4429.881	4444.578	4446.677	4444.578	4429.881	4419.384	4396.290	4371.096	4320.709	4289.217
<b>5.0</b>	4499.164	4513.860	4515.960	4534.855	4547.452	4572.645	4568.447	4570.546	4520.159	4461.374
<b>7.5</b>	4467.672	4490.766	4501.263	4534.855	4574.745	4623.033	4631.431	4688.116	4688.116	4667.122
<b>10.0</b>	4532.756	4557.949	4564.248	4599.939	4652.425	4711.210	4725.907	4809.886	4856.074	4879.168
<b>12.5</b>	4686.017	4713.310	4717.509	4744.802	4790.990	4851.875	4866.571	4961.047	5051.325	5095.413
<b>15.0</b>	4879.168	4919.058	4919.058	4944.252	4982.042	5045.026	5042.927	5137.403	5238.177	5315.858
<b>17.5</b>	5084.916	5122.707	5114.309	5145.801	5177.293	5240.277	5231.879	5317.957	5416.632	5532.103
<b>20.0</b>	5290.664	5326.355	5324.256	5328.455	5357.847	5408.234	5410.334	5485.915	5576.192	5695.862
<b>22.5</b>	5479.616	5511.108	5509.009	5506.910	5519.506	5546.799	5548.899	5624.480	5708.459	5828.128
<b>25.0</b>	5651.773	5681.166	5668.569	5668.569	5658.071	5666.469	5662.270	5723.155	5815.532	5935.201
<b>27.5</b>	5813.432	5840.725	5817.631	5796.636	5769.343	5760.945	5756.746	5800.835	5895.311	6021.280
<b>30.0</b>	5960.395	5981.390	5947.798	5905.809	5855.422	5838.626	5834.427	5855.422	5951.997	6082.164
<b>32.5</b>	6073.766	6090.562	6044.374	5987.688	5926.804	5897.411	5899.510	5903.709	5993.987	6122.054
<b>35.0</b>	6168.243	6176.640	6122.054	6044.374	5985.589	5960.395	5962.495	5954.097	6023.379	6155.646
<b>37.5</b>	6260.619	6273.216	6195.536	6105.258	6046.473	6033.876	6048.573	6027.578	6061.170	6182.939
<b>40.0</b>	6388.687	6397.085	6311.007	6208.132	6147.248	6138.850	6170.342	6159.845	6126.253	6224.928
<b>42.5</b>	6617.529	6602.833	6510.456	6397.085	6336.200	6352.996	6369.792	6378.190	6266.918	6300.509
<b>45.0</b>	6978.638	6972.340	6863.167	6741.398	6678.414	6705.707	6730.900	6745.597	6499.959	6443.273
<b>47.5</b>	7589.584	7583.285	7472.013	7337.647	7291.459	7280.962	7314.553	7335.548	6911.455	6781.288
<b>50.0</b>	8553.240	8551.141	8519.649	8305.503	8227.823	8175.336	8221.524	8250.917	7595.882	7238.972
<b>52.5</b>	9934.692	9955.686	9995.576	9833.917	9605.075	9464.410	9525.295	9571.483	8549.041	7898.206
<b>55.0</b>	11641.561	11700.346	11906.094	11975.376	11488.299	11219.567	11314.043	11299.347	9867.509	8866.061
<b>57.5</b>	13130.085	13214.064	13762.025	14261.699	14043.354	13503.790	13594.068	13461.801	11534.488	9913.697
<b>60.0</b>	14322.584	14438.055	15265.246	16373.766	16774.765	16352.771	16625.702	16126.028	13358.927	11106.196
<b>62.5</b>	15042.702	15248.450	16478.739	18385.058	19665.735	19703.525	19871.483	18825.947	15082.592	11790.623
<b>65.0</b>	14089.542	14480.044	16331.776	19722.420	22395.045	22915.714	22850.630	20990.500	16235.201	11813.717
<b>67.5</b>	10957.133	11309.844	14238.605	19258.437	23564.450	24819.933	24866.121	22115.816	15806.909	10320.994
<b>70.0</b>	7003.832	7346.045	9741.540	16117.630	21828.189	24404.238	24672.970	20847.736	12892.845	7335.548
<b>72.5</b>	2489.971	2687.321	4211.537	9099.103	17536.872	220751.160	20986.301	16338.075	8887.056	4096.066
<b>75.0</b>	1091.724	1184.101	1866.429	3390.644	9176.783	14438.055	14656.399	11068.405	4583.143	1591.398
<b>77.5</b>	797.799	877.578	1379.352	2170.852	3352.853	6863.167	7159.192	5819.731	1933.612	892.275
<b>80.0</b>	594.150	682.328	1154.708	1780.350	2208.642	2922.462	3021.137	2408.092	967.856	581.553
<b>82.5</b>	436.690	520.669	959.458	1425.540	1324.766	1188.300	1077.028	545.862	487.077	365.308
<b>85.0</b>	306.523	354.810	558.459	619.344	466.082	398.899	327.517	172.157	203.649	214.146
<b>87.5</b>	77.680	81.879	128.068	209.947	102.874	77.680	79.780	81.879	88.178	98.675
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950	4156.950
<b>2.5</b>	4249.327	4243.029	4186.343	4100.265	4056.176	3967.998	3917.611	3867.224	3816.836	3783.245
<b>5.0</b>	4360.599	4312.311	4194.741	3970.098	3787.444	3562.800	3384.345	3212.189	3054.729	2945.556
<b>7.5</b>	4536.954	4440.379	4253.526	3865.124	3495.617	3086.221	2704.117	2389.197	2168.752	2038.585
<b>10.0</b>	4744.802	4599.939	4331.206	3758.051	3155.503	2555.055	2097.370	1843.335	1711.068	1635.487
<b>12.5</b>	4975.744	4780.493	4417.285	3636.282	2804.892	2133.061	1782.450	1616.592	1499.022	1404.545
<b>15.0</b>	5219.282	4979.943	4509.661	3508.214	2492.071	1891.622	1633.388	1442.336	1331.064	1274.378
<b>17.5</b>	5441.826	5154.199	4578.944	3354.953	2259.030	1759.356	1503.220	1345.760	1263.881	1209.295
<b>20.0</b>	5630.778	5299.062	4616.734	3218.487	2103.669	1690.073	1417.142	1301.671	1213.494	1154.708
<b>22.5</b>	5794.537	5412.433	4629.331	3115.613	2000.795	1610.293	1381.451	1253.384	1161.007	1100.122
<b>25.0</b>	5916.306	5509.009	4631.431	3046.331	1960.905	1555.707	1345.760	1200.897	1110.620	1053.934
<b>27.5</b>	6014.981	5571.993	4620.933	3004.341	1954.606	1530.514	1299.572	1152.609	1007.746	873.379

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-FT-LED-32L-50-IL-IES**

**CANDELA TABULATION - (Cont.)**

30.0	6088.463	5605.585	4606.237	2985.446	1956.706	1507.419	1257.582	1043.437	774.704	613.045
32.5	6130.452	5603.485	4595.740	2981.247	1939.910	1482.226	1190.399	810.395	556.360	491.276
35.0	6151.447	5588.789	4599.939	2977.048	1908.418	1450.734	1014.044	613.045	491.276	436.690
37.5	6166.143	5571.993	4623.033	2966.551	1851.732	1370.954	793.600	552.161	442.988	375.805
40.0	6185.038	5567.794	4667.122	2949.755	1769.853	1182.002	686.527	497.574	380.004	329.617
42.5	6233.326	5597.187	4732.205	2914.064	1616.592	900.673	594.150	426.192	333.816	359.009
45.0	6336.200	5700.061	4847.676	2863.677	1358.357	682.328	476.580	352.711	300.224	384.203
47.5	6581.838	5928.903	5045.026	2788.096	1001.447	516.470	367.407	287.627	361.109	233.041
50.0	6924.052	6245.923	5317.957	2636.934	659.234	405.198	300.224	241.439	291.826	186.853
52.5	7495.108	6789.686	5693.762	2384.998	478.679	338.015	249.837	212.046	214.146	165.858
55.0	8221.524	7409.029	6126.253	2059.580	411.496	302.324	214.146	182.654	172.157	191.052
57.5	8937.443	8007.378	6504.158	1742.560	375.805	266.633	180.554	155.361	182.654	178.455
60.0	9518.997	8412.576	6502.058	1446.535	340.114	214.146	155.361	159.560	136.466	102.874
62.5	9607.174	8345.393	5857.521	1150.510	289.727	170.057	149.062	113.371	83.979	73.481
65.0	9013.024	7545.495	4518.059	961.557	233.041	149.062	123.869	73.481	60.885	75.581
67.5	7238.972	5794.537	2819.588	682.328	161.659	144.863	86.078	60.885	88.178	77.680
70.0	4616.734	3665.674	1358.357	390.501	113.371	102.874	65.084	79.780	62.984	52.487
72.5	1851.732	1349.959	585.752	195.251	86.078	60.885	65.084	58.785	48.288	35.691
75.0	839.788	644.537	268.732	117.570	60.885	41.989	39.890	41.989	16.796	6.298
77.5	539.564	407.297	174.256	73.481	33.592	27.293	23.094	10.497	4.199	4.199
80.0	317.020	243.539	119.670	39.890	18.895	18.895	8.398	4.199	2.099	2.099
82.5	212.046	157.460	71.382	18.895	12.597	8.398	6.298	2.099	0.000	0.000
85.0	125.968	77.680	25.194	6.298	4.199	2.099	2.099	0.000	0.000	0.000
87.5	52.487	20.995	6.298	2.099	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

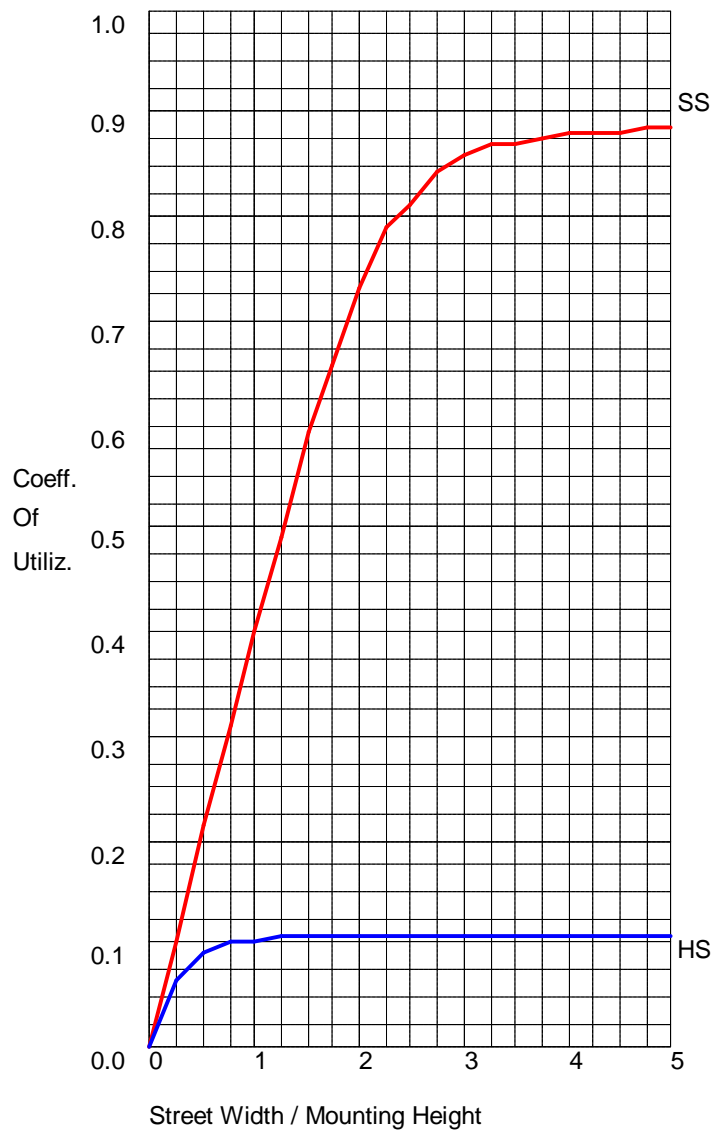
	<b>175.0</b>	<b>180.0</b>
0.0	4156.950	4156.950
2.5	3797.941	3774.847
5.0	2890.970	2916.164
7.5	1983.999	1996.596
10.0	1606.094	1606.094
12.5	1358.357	1347.860
15.0	1247.085	1238.687
17.5	1188.300	1179.902
20.0	1131.614	1123.216
22.5	1081.227	1072.829
25.0	1020.342	1009.845
27.5	795.699	783.102
30.0	539.564	529.066
32.5	466.082	461.883
35.0	417.795	413.596
37.5	348.512	344.313
40.0	312.821	312.821
42.5	356.910	327.517
45.0	235.141	226.743
47.5	197.350	195.251
50.0	176.355	174.256
52.5	170.057	167.958
55.0	207.848	207.848
57.5	167.958	155.361
60.0	92.377	83.979
62.5	60.885	56.686
65.0	92.377	92.377

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-FT-LED-32L-50-IL.IES**

**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	69.283	67.183
<b>70.0</b>	46.188	46.188
<b>72.5</b>	29.393	27.293
<b>75.0</b>	2.099	0.000
<b>77.5</b>	0.000	0.000
<b>80.0</b>	0.000	0.000
<b>82.5</b>	0.000	0.000
<b>85.0</b>	0.000	0.000
<b>87.5</b>	0.000	0.000
<b>90.0</b>	0.000	0.000

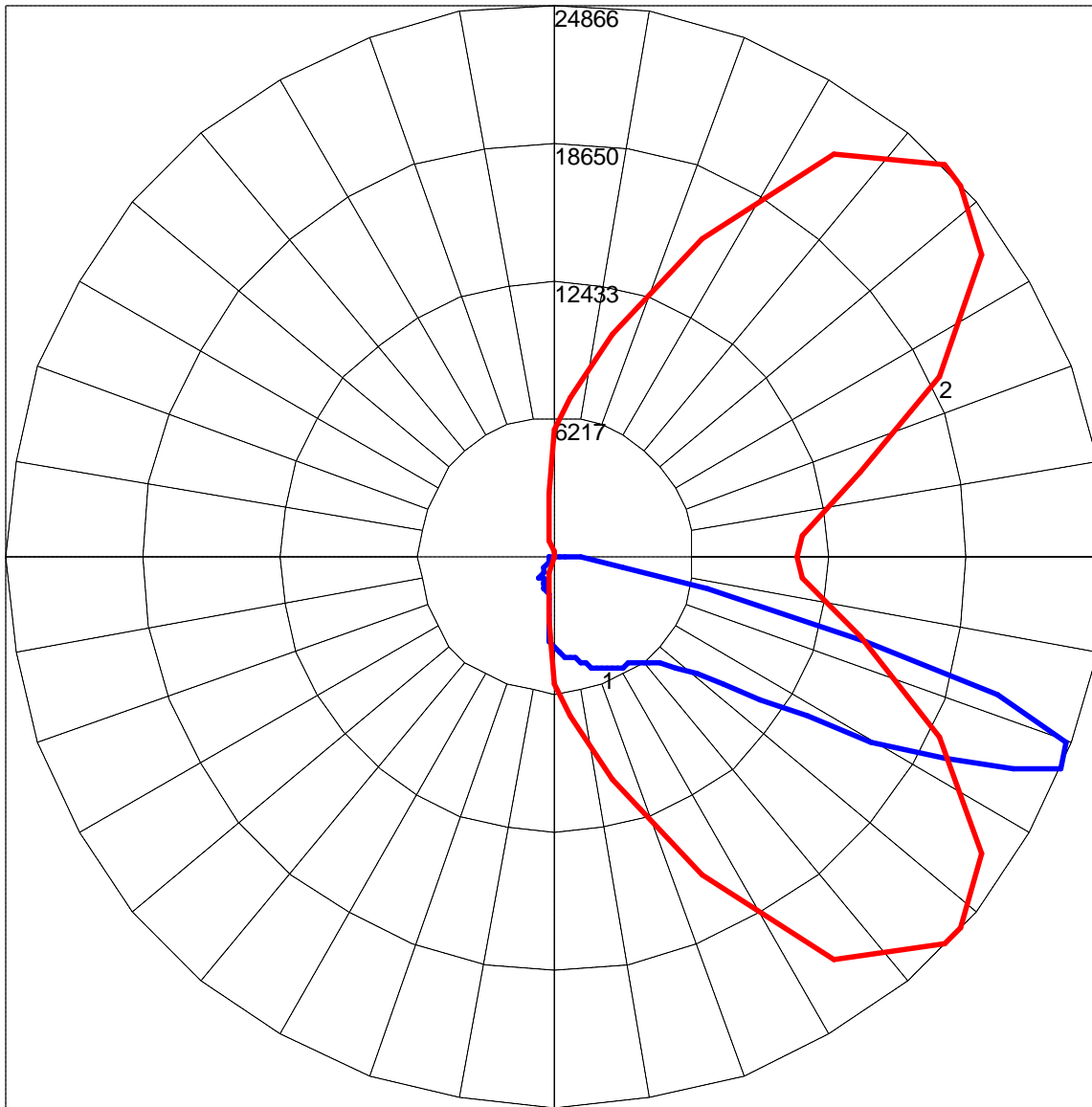
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

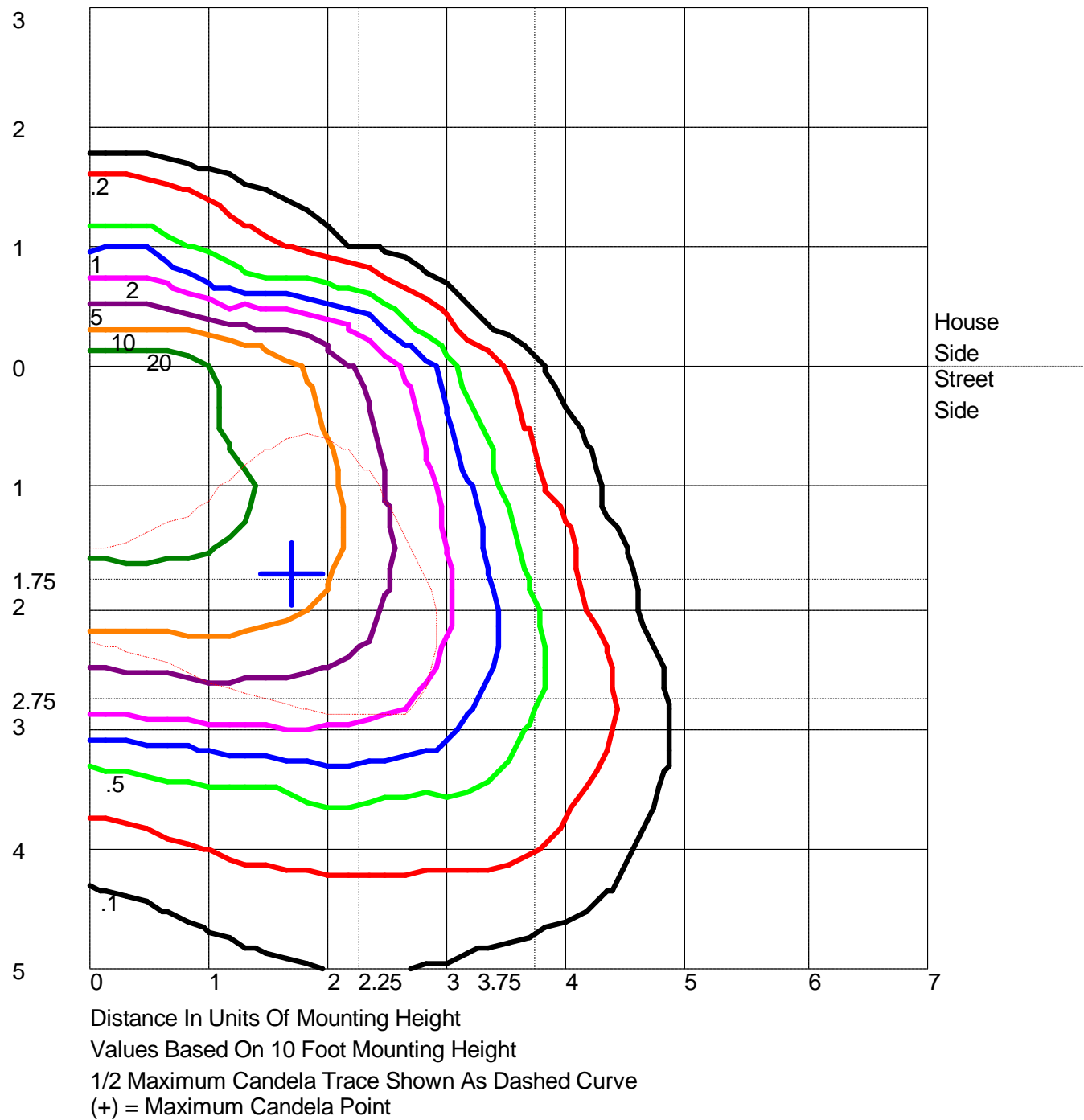
	Lumens	Percent Of Luminaire
Downward Street Side	23222.8	89.2
Downward House Side	2823.2	10.8
Downward Total	26046.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26046.0	100.0

POLAR GRAPH



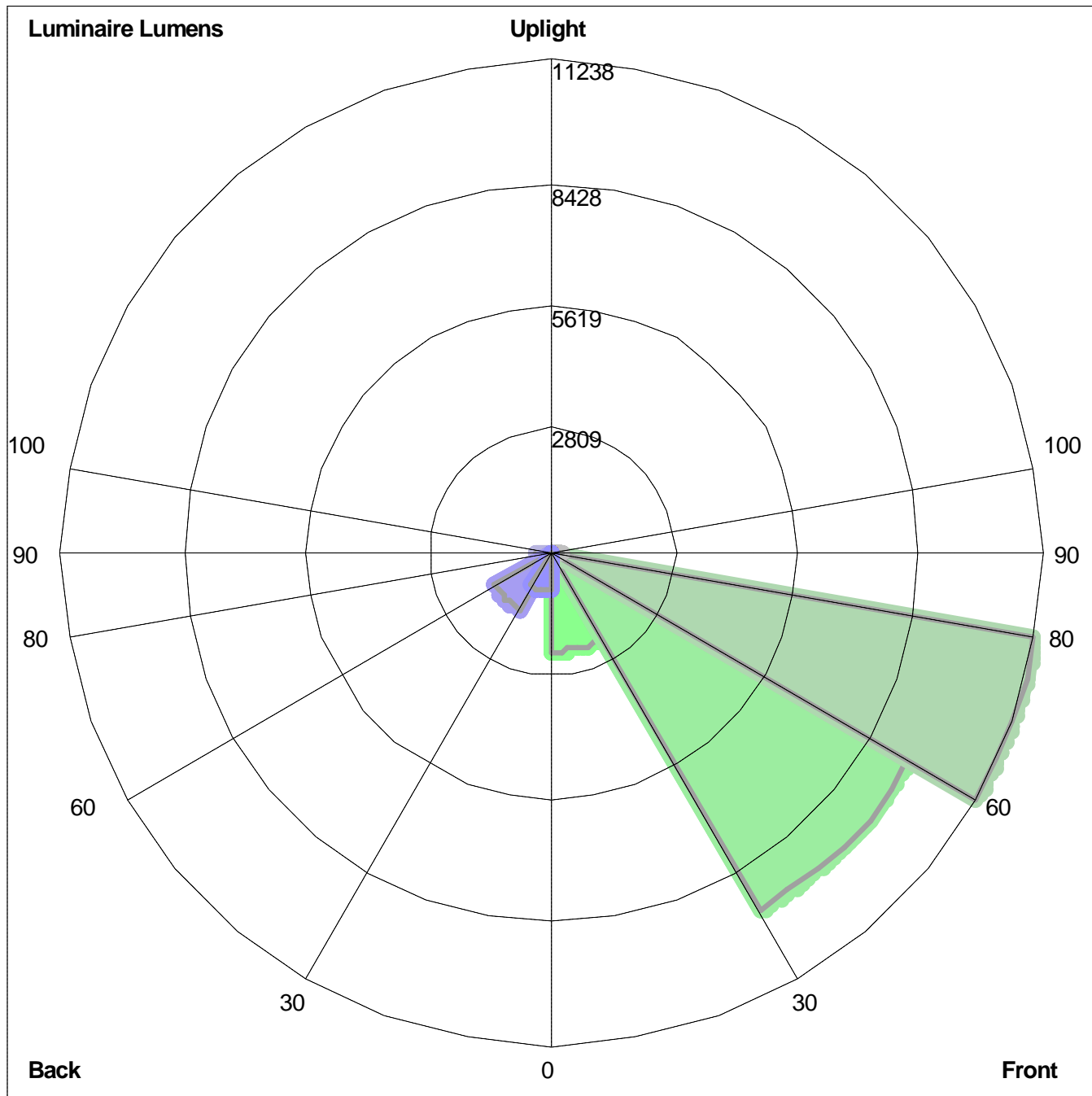
Maximum Candela = 24866.121 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2268.8, Medium=9453.1, High=11237.9, Very High=263.0  
Back: Low=892.0, Medium=1501.1, High=425.1, Very High=5.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4