

PHILIPS

LUMEC

IES ROAD REPORT

PHOTOMETRIC FILENAME : DOS-24W16LED4K-T-LE2F-HS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LRPS1343H

[TESTLAB] PHILIPS Lighting - San Marcos

[ISSUE DATE]10/19/2015

[MANUFAC]PHILIPS LUMEC

[LUMCAT]DOS-24W16LED4K-T-LE2F-HS

[LUMINAIRE]DOMUS, TYPE LE2F OPTIC, FLAT GLASS, INTERNAL SHIELDS

[LAMP](1) LEDGINE IP20, NW

[ABSOLUTE LUMENS] 2127 ABSOLUTE LUMENS DELIVERED

[OTHER] DATA SHOWN IS ABSOLUTE PHOTOMETRY AT RATED INPUT

[OTHER] BUG RATING B0-U0-G0

[OTHER]INPUT: 120.11V 0.45A 53.41W OUTPUT: 89.22V 0.5313A

[SEARCH_CRI] 70

[SEARCH_COLORTEMP] 4000

[SEARCH_APPLICATION] Outdoor, Architectural, Area, Commercial, Landscape, Office, Parking, Parks, Pathway, Pedestrian, P

[SEARCH_MOUNTING] Arm, Pendant, Pole, Post Top

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2127
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	28.66
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1737.616
Maximum Candela Angle	70H 65V
Maximum Candela (<90 Degrees Vertical)	1737.616
Maximum Candela Angle (<90 Degrees Vertical)	70H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	50.228 (2.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



IES ROAD REPORT**PHOTOMETRIC FILENAME : DOS-24W16LED4K-T-LE2F-HS.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	334.6	N.A.	15.7
FM - Front-Medium (30-60)	1035.4	N.A.	48.7
FH - Front-High (60-80)	459.4	N.A.	21.6
FVH - Front-Very High (80-90)	3.0	N.A.	0.1
BL - Back-Low (0-30)	95.7	N.A.	4.5
BM - Back-Medium (30-60)	148.8	N.A.	7.0
BH - Back-High (60-80)	49.2	N.A.	2.3
BVH - Back-Very High (80-90)	1.3	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	2127.4	N.A.	100.0
BUG Rating	B0-U0-G0		

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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>60.0</u>	<u>62.5</u>	<u>65.0</u>
0.0	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102
2.5	697.346	699.363	696.035	691.446	685.394	675.308	664.819	656.548	654.632	650.547
5.0	734.009	733.303	729.873	726.041	720.493	710.962	701.885	693.513	690.336	684.688
7.5	762.855	761.241	756.500	751.256	743.288	731.033	721.956	715.047	711.971	707.583
10.0	791.650	788.876	783.682	777.580	767.948	752.214	740.010	732.143	728.159	723.519
12.5	813.285	809.048	805.165	800.778	792.961	775.966	760.384	749.844	744.952	738.900
15.0	824.480	819.185	817.672	816.462	813.839	800.728	783.228	770.671	764.267	756.349
17.5	828.666	822.866	823.219	825.085	828.363	823.068	806.224	792.255	784.388	775.160
20.0	834.062	827.455	827.405	829.473	835.726	838.247	826.447	813.738	804.913	795.079
22.5	838.348	831.490	832.549	834.163	839.407	845.812	842.887	834.314	826.195	815.857
25.0	840.466	834.163	835.222	838.853	844.097	850.048	856.201	853.477	846.921	836.987
27.5	843.643	838.046	840.214	845.056	849.645	856.755	867.194	871.077	867.598	860.134
30.0	841.072	836.230	841.475	851.359	858.924	867.850	878.238	887.669	888.375	884.542
32.5	832.599	828.767	836.583	854.486	868.455	882.021	896.343	906.429	910.917	911.018
35.0	825.842	822.059	830.683	852.065	874.305	895.687	921.457	935.527	941.125	944.503
37.5	814.495	810.914	829.220	856.150	878.591	913.338	948.840	969.164	979.149	986.007
40.0	784.590	780.354	810.612	864.471	889.888	935.527	980.763	1004.616	1016.467	1024.435
42.5	747.473	744.599	778.236	850.805	912.884	964.776	1019.241	1046.069	1058.324	1066.191
45.0	697.497	696.388	739.405	826.094	925.340	1003.456	1070.175	1099.374	1112.738	1121.311
47.5	630.879	629.467	682.772	787.817	922.516	1041.884	1123.681	1157.621	1170.884	1179.154
50.0	540.257	541.971	600.016	725.083	893.418	1067.250	1193.325	1230.290	1244.007	1252.933
52.5	463.502	463.048	516.151	622.256	838.046	1089.691	1278.653	1317.131	1333.773	1343.506
55.0	392.648	391.337	442.775	532.692	748.583	1083.287	1345.422	1409.972	1425.202	1430.901
57.5	231.675	230.969	336.721	452.962	641.066	1026.856	1376.638	1468.723	1500.948	1518.296
60.0	99.095	96.725	143.423	346.051	543.635	903.000	1370.637	1504.629	1555.513	1597.169
62.5	78.066	77.612	82.453	147.861	415.442	752.970	1312.642	1512.850	1585.570	1648.607
65.0	71.863	70.400	69.543	76.200	186.641	552.461	1145.316	1436.297	1550.168	1645.329
67.5	76.956	75.948	69.543	62.836	77.107	285.030	870.724	1255.959	1421.924	1562.372
70.0	57.944	56.431	66.013	63.844	59.306	91.732	462.594	884.492	1110.368	1290.907
72.5	42.916	41.201	45.034	64.500	47.858	54.162	127.084	373.485	586.047	793.819
75.0	29.955	28.594	30.460	38.529	56.683	37.268	50.884	90.522	179.833	306.110
77.5	17.449	16.591	18.609	22.240	35.251	25.114	32.326	38.882	52.498	83.764
80.0	9.582	8.977	10.187	12.204	17.751	15.028	18.558	21.382	26.980	37.469
82.5	4.236	3.833	4.488	5.497	7.262	7.262	8.674	10.792	12.507	14.070
85.0	0.908	0.706	1.009	1.462	2.118	2.673	3.681	4.337	4.740	5.043
87.5	0.000	0.000	0.000	0.101	0.202	0.454	0.756	1.109	1.462	1.513
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>
0.0	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102
2.5	647.067	642.629	638.999	634.964	630.829	625.382	619.633	614.691	609.648	605.009
5.0	680.049	673.291	667.290	659.675	652.110	643.033	632.947	623.769	614.338	605.311
7.5	703.196	696.842	690.740	681.410	672.030	660.129	646.714	633.350	619.583	606.068
10.0	719.939	714.240	708.945	699.918	689.782	676.619	660.230	643.436	625.130	607.177
12.5	733.958	728.108	722.763	714.896	704.911	691.194	673.140	653.573	630.627	607.984
15.0	749.541	742.128	735.572	727.907	718.073	704.406	685.898	663.961	636.931	609.749
17.5	766.385	757.257	748.432	739.859	730.025	716.963	698.506	674.350	643.689	611.766
20.0	785.246	774.706	764.670	754.130	743.943	730.882	712.324	686.554	652.110	615.347
22.5	805.367	794.121	782.573	770.772	759.325	746.465	727.654	699.918	661.742	619.180
25.0	825.640	814.394	801.534	788.423	776.168	762.552	743.389	714.139	672.282	623.970
27.5	848.888	836.936	823.118	808.948	796.138	780.959	761.594	731.033	685.041	630.678

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

30.0	874.456	862.353	847.829	832.902	818.075	801.585	781.564	749.440	698.909	638.141
32.5	904.159	892.208	876.927	860.538	844.652	826.195	804.560	770.318	715.551	647.925
35.0	940.873	930.736	913.388	894.326	877.280	856.554	832.297	794.928	734.916	659.877
37.5	985.503	977.636	959.027	935.426	913.993	890.543	860.235	819.387	753.979	670.921
40.0	1026.402	1020.249	1002.448	976.325	950.656	921.407	887.467	842.030	769.612	679.141
42.5	1066.393	1059.686	1040.875	1011.525	981.973	950.656	914.094	865.278	787.414	688.975
45.0	1119.798	1111.477	1093.625	1062.258	1026.957	990.344	949.395	895.032	808.847	701.935
47.5	1178.045	1166.496	1147.232	1114.100	1072.898	1029.932	979.855	916.011	820.547	705.163
50.0	1250.462	1237.451	1212.438	1174.515	1122.723	1068.511	1011.878	941.226	834.869	709.853
52.5	1336.899	1316.778	1283.443	1242.595	1189.089	1128.976	1064.376	984.545	864.673	724.730
55.0	1420.815	1400.239	1363.930	1317.232	1255.606	1182.432	1102.803	1008.499	877.885	724.477
57.5	1509.723	1486.475	1443.811	1393.280	1328.578	1247.336	1153.637	1045.212	901.335	731.588
60.0	1608.112	1594.899	1553.849	1496.157	1422.529	1328.225	1216.170	1088.481	927.660	738.598
62.5	1690.363	1699.894	1661.618	1593.134	1506.294	1398.474	1271.845	1128.825	952.421	742.582
65.0	1715.175	1737.616	1710.182	1648.103	1558.892	1444.214	1311.331	1151.519	959.128	726.595
67.5	1671.502	1715.427	1699.037	1638.269	1547.747	1427.623	1287.680	1125.043	919.440	658.263
70.0	1449.156	1518.498	1538.317	1490.660	1395.953	1275.879	1152.174	1004.666	770.470	460.577
72.5	997.152	1108.603	1168.665	1168.867	1116.823	1029.075	926.197	800.929	573.339	271.061
75.0	454.778	554.881	603.597	598.604	554.730	492.096	428.504	368.290	272.574	126.932
77.5	131.622	169.798	172.824	151.643	127.487	109.484	95.464	82.302	65.256	36.562
80.0	50.228	48.463	40.193	35.200	32.326	28.997	26.072	23.299	20.777	15.532
82.5	14.524	14.423	14.877	14.625	14.373	13.011	12.355	10.994	10.086	8.371
85.0	5.497	5.598	6.001	5.850	5.951	5.396	5.295	4.942	4.690	4.236
87.5	1.715	1.614	1.967	2.118	2.118	2.017	2.168	1.765	1.967	1.916
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

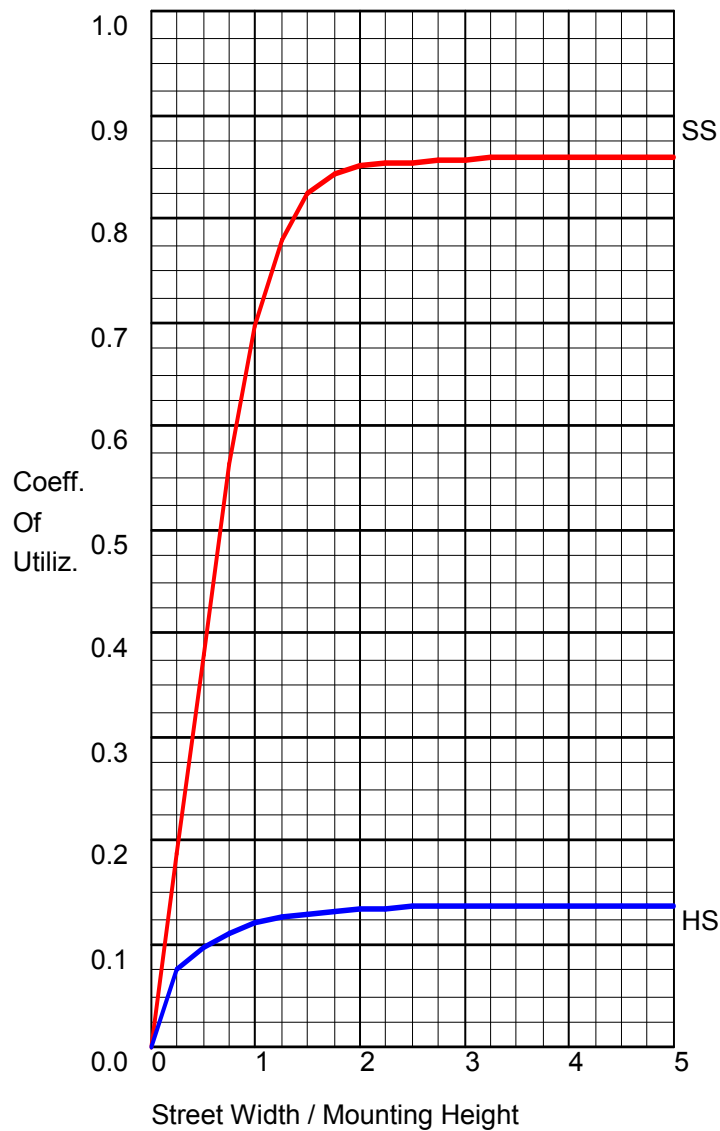
	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102	610.102
2.5	596.284	578.735	560.378	544.089	529.818	517.109	508.234	504.401	502.384	493.306
5.0	586.501	548.981	511.360	476.311	445.599	418.418	398.094	388.361	381.200	371.720
7.5	577.020	519.631	461.687	407.222	359.566	317.255	285.030	268.893	257.899	248.267
10.0	568.548	490.079	411.004	336.419	271.313	217.908	182.456	165.511	157.089	151.996
12.5	559.672	459.518	358.557	264.455	189.718	146.499	131.370	126.630	125.520	125.117
15.0	550.948	428.302	304.648	196.929	138.582	125.520	122.293	120.629	120.225	120.376
17.5	542.476	397.439	250.788	147.054	123.856	120.931	118.611	117.351	117.098	117.351
20.0	534.155	364.962	199.299	125.268	119.116	117.502	116.090	114.880	114.476	114.829
22.5	525.884	330.670	156.787	118.309	115.535	114.426	113.266	112.358	111.904	112.509
25.0	517.967	295.419	129.857	114.678	112.106	111.198	110.038	109.736	109.584	110.139
27.5	510.957	259.462	117.098	110.442	108.677	107.870	106.861	107.063	107.164	107.214
30.0	504.199	224.262	111.198	106.206	104.743	103.281	103.331	103.533	104.037	103.886
32.5	498.954	190.525	107.315	102.877	100.910	98.692	98.843	99.599	100.255	99.851
35.0	493.558	161.578	104.088	99.398	96.775	94.355	94.002	95.111	95.918	95.615
37.5	488.314	139.691	100.608	96.271	93.043	90.421	89.866	90.270	91.077	90.371
40.0	479.337	124.360	97.431	93.548	89.513	86.941	86.487	86.185	86.437	85.933
42.5	470.764	112.761	93.901	90.219	86.588	84.067	83.815	82.957	83.209	82.907
45.0	459.922	104.340	89.564	86.437	82.705	81.646	81.898	79.780	80.184	79.831
47.5	443.431	97.431	85.025	81.243	78.368	77.965	78.973	76.452	76.855	76.351
50.0	423.209	91.379	80.184	75.998	73.174	73.123	74.233	72.064	72.871	72.619
52.5	404.045	85.580	74.435	70.501	67.374	67.828	68.383	67.374	68.484	68.282
55.0	376.611	79.377	68.383	64.803	61.726	62.231	62.634	62.331	63.340	62.785
57.5	353.464	72.770	62.432	59.205	56.078	56.078	56.734	56.935	57.944	57.440
60.0	329.863	65.357	55.624	53.910	50.884	49.472	50.783	51.489	52.397	51.691
62.5	304.496	57.944	48.715	48.816	45.841	43.168	44.076	45.488	46.396	45.286
65.0	270.658	50.279	41.958	43.269	41.000	37.923	37.923	38.982	40.647	39.890

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CANDELA TABULATION - (Cont.)

67.5	210.192	41.201	35.150	36.864	35.805	32.679	32.376	32.477	34.091	33.839
70.0	81.898	33.133	28.443	29.855	28.896	27.131	26.677	26.425	28.140	27.736
72.5	35.150	26.324	22.542	23.097	22.441	21.281	20.475	20.323	20.979	20.273
75.0	24.862	19.063	16.743	17.045	16.138	15.885	14.826	13.717	13.061	11.851
77.5	17.146	13.263	11.801	12.002	11.246	9.683	8.977	8.170	7.161	6.758
80.0	11.095	8.573	7.262	7.010	5.951	5.598	5.497	4.640	4.337	3.732
82.5	6.556	4.942	4.085	3.631	3.480	3.076	2.673	2.118	1.916	1.563
85.0	3.631	2.925	2.622	2.118	1.815	1.160	0.756	0.555	0.403	0.403
87.5	1.765	1.614	1.059	0.706	0.252	0.050	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

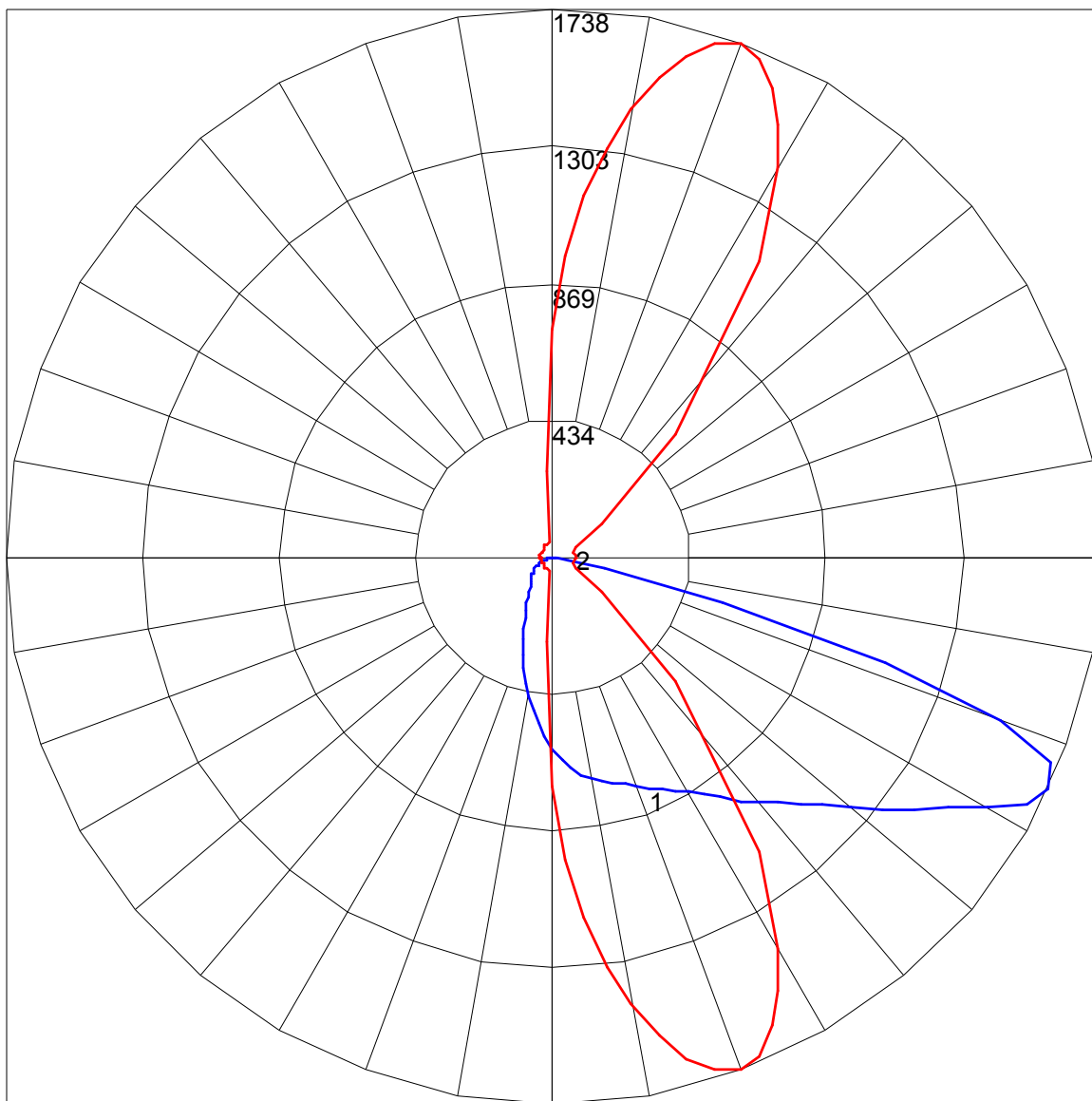
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

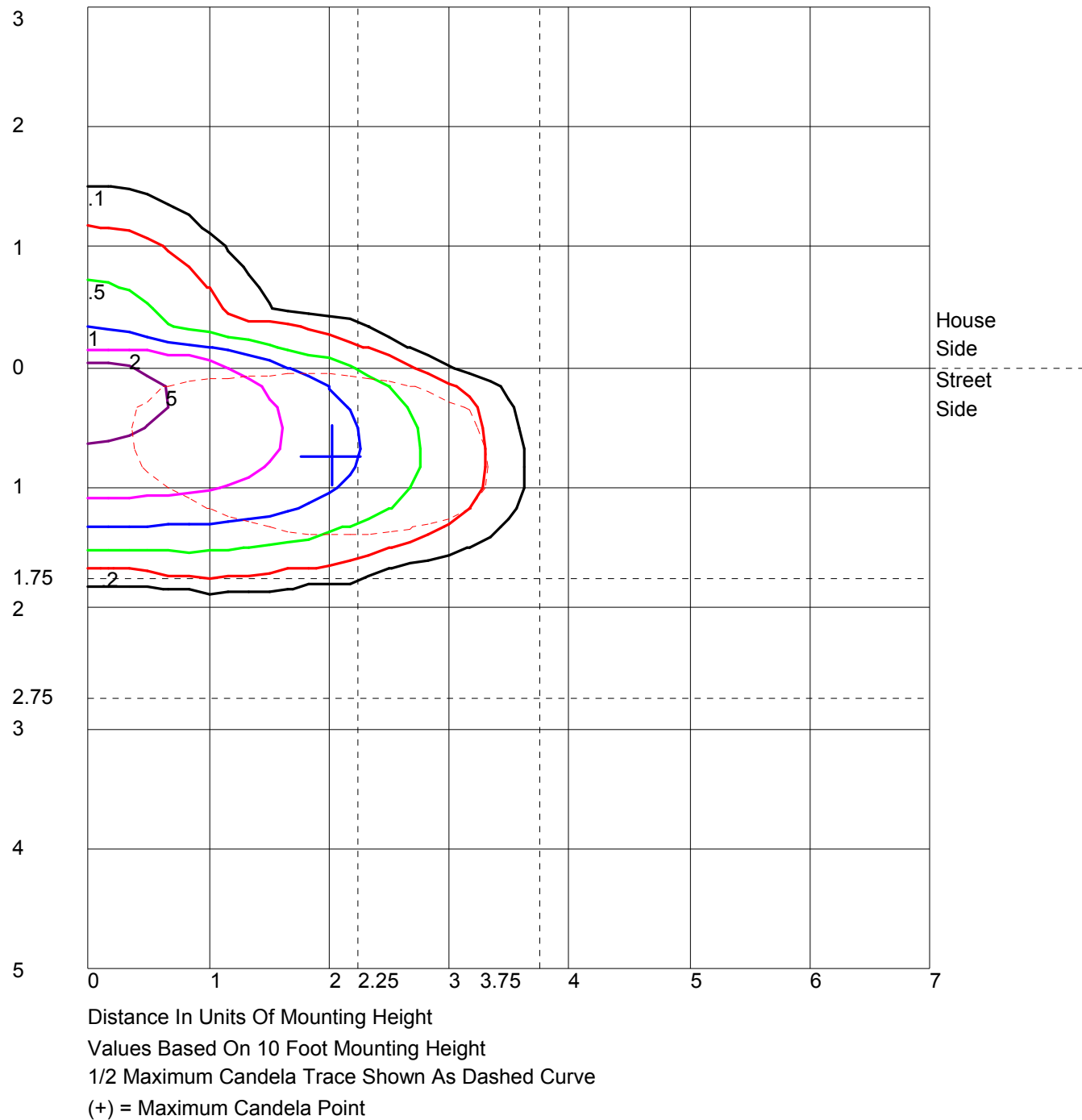
	Lumens	Percent Of Luminaire
Downward Street Side	1832.4	86.1
Downward House Side	294.9	13.9
Downward Total	2127.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2127.3	100.0

POLAR GRAPH

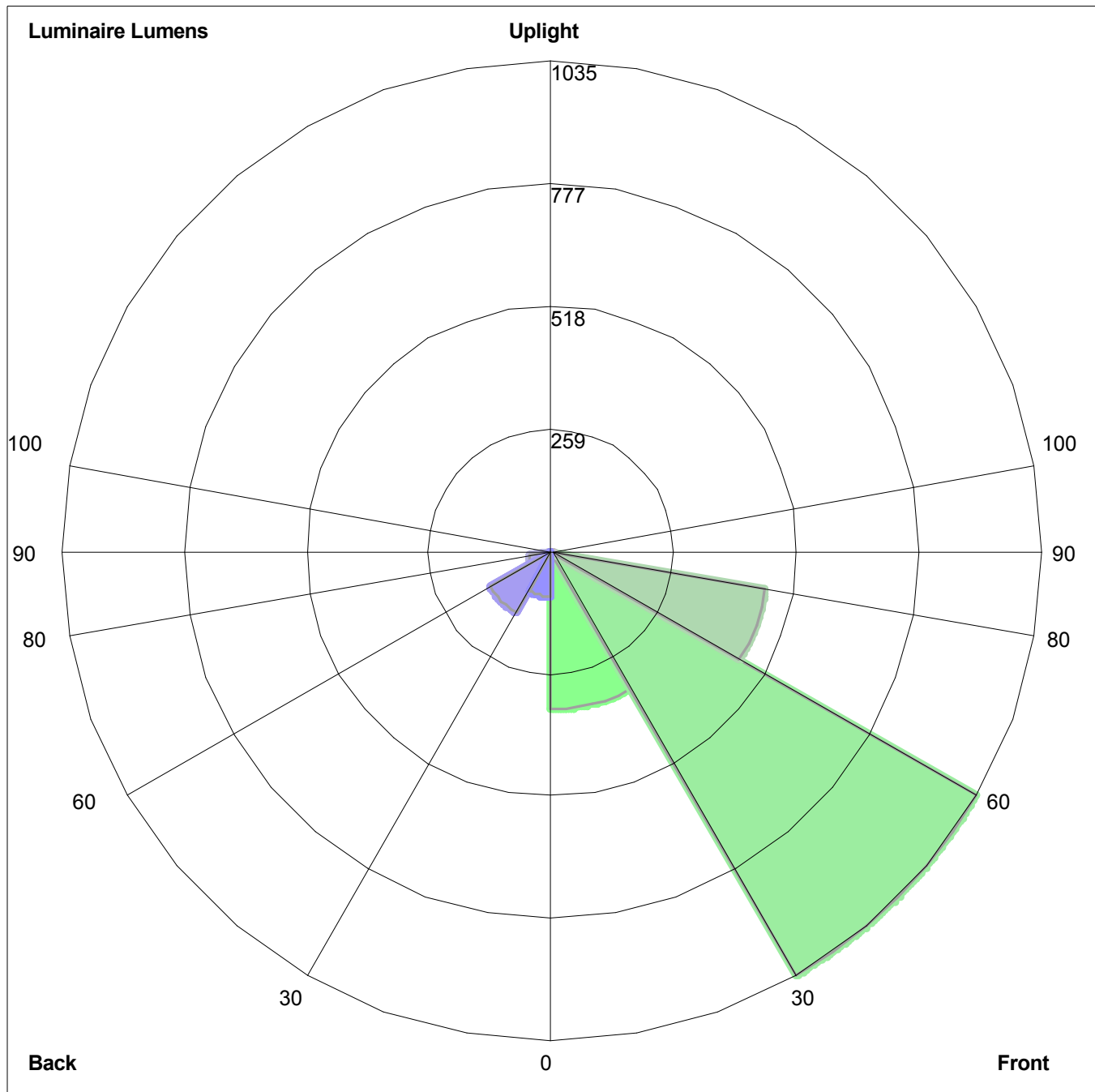


Maximum Candela = 1737.616 Located At Horizontal Angle = 70, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=334.6, Medium=1035.4, High=459.4, Very High=3.0
Back: Low=95.7, Medium=148.8, High=49.2, Very High=1.3
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G0