



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-3-LED-35-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7770
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/02/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-35-40-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27910
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29259.839
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	29259.839
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2929.92 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1406.9	N.A.	5.0
FM - Front-Medium (30-60)	12079.8	N.A.	43.3
FH - Front-High (60-80)	11419.7	N.A.	40.9
FVH - Front-Very High (80-90)	314.7	N.A.	1.1
BL - Back-Low (0-30)	770.6	N.A.	2.8
BM - Back-Medium (30-60)	1510.0	N.A.	5.4
BH - Back-High (60-80)	398.1	N.A.	1.4
BVH - Back-Very High (80-90)	9.9	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	27909.7	N.A.	100.0
BUG Rating	B2-U0-G4		

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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>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960
2.5	2931.840	2911.680	2911.680	2907.840	2892.480	2896.320	2886.720	2873.280	2868.480	2839.680
5.0	2841.600	2824.320	2831.040	2846.400	2867.520	2903.040	2929.920	2929.920	2937.600	2920.320
7.5	2692.800	2678.400	2692.800	2721.600	2759.040	2825.280	2887.680	2900.160	2939.520	2960.640
10.0	2557.440	2546.880	2567.040	2610.240	2664.000	2741.760	2819.520	2836.800	2896.320	2961.600
12.5	2464.320	2453.760	2480.640	2530.560	2591.040	2666.880	2769.600	2790.720	2863.680	2960.640
15.0	2431.680	2425.920	2456.640	2510.400	2575.680	2652.480	2763.840	2791.680	2873.280	2991.360
17.5	2460.480	2458.560	2496.960	2564.160	2650.560	2737.920	2853.120	2894.400	2999.040	3110.400
20.0	2588.160	2578.560	2634.240	2710.080	2830.080	2960.640	3096.960	3154.560	3263.040	3338.880
22.5	2846.400	2834.880	2893.440	3012.480	3148.800	3326.400	3520.320	3545.280	3614.400	3605.760
25.0	3266.880	3250.560	3317.760	3456.000	3610.560	3826.560	4011.840	4023.360	4022.400	3911.040
27.5	3845.760	3827.520	3910.080	4057.920	4224.000	4455.360	4605.120	4578.240	4494.720	4248.000
30.0	4507.200	4495.680	4608.000	4808.640	4979.520	5188.800	5274.240	5216.640	5019.840	4629.120
32.5	5245.440	5220.480	5399.040	5590.080	5829.120	6021.120	6023.040	5931.840	5607.360	5058.240
35.0	5993.280	5979.840	6181.440	6423.360	6735.360	6977.280	6856.320	6732.480	6296.640	5517.120
37.5	6711.360	6700.800	6974.400	7303.680	7691.520	7955.520	7771.200	7608.000	7013.760	5988.480
40.0	7416.960	7455.360	7781.760	8231.040	8697.600	9015.360	8759.040	8544.960	7760.640	6481.920
42.5	8211.840	8310.720	8680.320	9263.040	9918.720	10154.880	9780.480	9511.680	8499.840	6953.280
45.0	9255.360	9399.360	9841.920	10529.280	11239.680	11422.080	10816.320	10584.000	9240.000	7382.400
47.5	10688.640	10729.920	11273.280	12053.760	12740.160	12677.760	11830.080	11515.200	9933.120	7843.200
50.0	12010.560	12060.480	12715.200	13825.920	14568.960	14221.440	12777.600	12387.840	10637.760	8382.720
52.5	13299.840	13343.040	13913.280	15202.560	16216.320	15520.320	14022.720	13199.040	11380.800	9059.520
55.0	15371.520	15393.600	16063.680	17015.040	17857.920	16992.000	14928.960	14262.720	12165.120	9916.800
57.5	17619.840	17714.880	18316.800	19272.000	19610.880	18264.960	15782.400	15117.120	13347.840	11013.120
60.0	19144.320	19283.520	19998.720	21140.160	22047.360	19751.040	16768.320	16112.640	14457.600	12798.720
62.5	17904.960	17728.320	19304.640	21671.040	23787.839	22376.639	18574.080	17742.720	16132.800	14998.080
65.0	9968.640	9412.800	12971.520	18128.640	23796.479	24841.919	1921721.920	20941.440	18445.440	16687.680
67.5	3087.360	3171.840	4635.840	9904.320	18921.600	25994.879	26160.959	25636.799	21273.600	17131.200
70.0	2016.960	2057.280	2481.600	3955.200	9747.840	22521.599	29259.839	28787.519	22901.759	15232.320
72.5	1330.560	1376.640	1712.640	2725.440	4537.920	13571.520	26961.599	27587.519	20623.680	8893.440
75.0	901.440	938.880	1193.280	2004.480	3218.880	6236.160	17844.480	18755.520	12031.680	3404.160
77.5	638.400	672.000	863.040	1619.520	2515.200	3686.400	7917.120	8353.920	3875.520	1471.680
80.0	387.840	408.960	581.760	1265.280	1992.960	2411.520	2929.920	2885.760	1950.720	862.080
82.5	251.520	260.160	403.200	982.080	1337.280	1535.040	1389.120	1279.680	1053.120	494.400
85.0	168.960	177.600	297.600	795.840	1020.480	725.760	549.120	548.160	492.480	290.880
87.5	104.640	116.160	216.960	607.680	472.320	218.880	174.720	166.080	177.600	155.520
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>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	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960	2784.960
2.5	2819.520	2822.400	2806.080	2774.400	2736.960	2708.160	2676.480	2649.600	2621.760	2599.680
5.0	2871.360	2856.000	2814.720	2712.960	2594.880	2490.240	2382.720	2292.480	2222.400	2172.480
7.5	2913.600	2876.160	2805.120	2609.280	2400.960	2210.880	2080.320	1984.320	1920.960	1880.640
10.0	2944.320	2885.760	2778.240	2482.560	2191.680	2001.600	1897.920	1832.640	1773.120	1723.200
12.5	2978.880	2906.880	2760.000	2356.800	2048.640	1910.400	1801.920	1690.560	1604.160	1533.120
15.0	3032.640	2946.240	2749.440	2245.440	1979.520	1853.760	1689.600	1557.120	1479.360	1423.680
17.5	3152.640	3038.400	2790.720	2186.880	1967.040	1791.360	1605.120	1488.000	1402.560	1359.360
20.0	3330.240	3172.800	2845.440	2174.400	1968.960	1757.760	1578.240	1460.160	1369.920	1323.840
22.5	3517.440	3327.360	2907.840	2184.960	1960.320	1744.320	1597.440	1453.440	1346.880	1277.760
25.0	3696.960	3437.760	2943.360	2196.480	1954.560	1757.760	1623.360	1453.440	1323.840	1222.080
27.5	3891.840	3531.840	2973.120	2192.640	1942.080	1784.640	1635.840	1448.640	1231.680	1046.400

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CANDELA TABULATION - (Cont.)

30.0	4084.800	3627.840	3008.640	2175.360	1938.240	1802.880	1632.000	1354.560	1055.040	888.960
32.5	4301.760	3739.200	3057.600	2149.440	1927.680	1793.280	1579.200	1186.560	960.960	922.560
35.0	4536.000	3859.200	3101.760	2112.960	1899.840	1756.800	1423.680	1090.560	1035.840	1151.040
37.5	4772.160	3988.800	3144.960	2064.000	1848.000	1667.520	1268.160	1081.920	1241.280	1483.200
40.0	5017.920	4123.200	3194.880	2007.360	1780.800	1477.440	1194.240	1080.960	1427.520	1365.120
42.5	5266.560	4257.600	3251.520	1943.040	1684.800	1302.720	1098.240	1087.680	1296.000	934.080
45.0	5531.520	4408.320	3336.000	1887.360	1539.840	1157.760	973.440	943.680	1125.120	659.520
47.5	5853.120	4632.000	3454.080	1832.640	1277.760	943.680	805.440	774.720	971.520	560.640
50.0	6243.840	4926.720	3623.040	1759.680	991.680	697.920	610.560	633.600	842.880	514.560
52.5	6740.160	5298.240	3874.560	1639.680	705.600	512.640	452.160	504.000	727.680	487.680
55.0	7206.720	5637.120	4136.640	1491.840	526.080	417.600	360.960	407.040	533.760	491.520
57.5	7587.840	6036.480	4378.560	1401.600	473.280	369.600	308.160	326.400	394.560	451.200
60.0	8506.560	6719.040	4316.160	1251.840	449.280	333.120	250.560	278.400	245.760	343.680
62.5	10427.520	7500.480	3863.040	981.120	413.760	281.280	232.320	180.480	157.440	292.800
65.0	12319.680	7544.640	2920.320	715.200	329.280	232.320	200.640	123.840	118.080	254.400
67.5	11989.440	5942.400	1794.240	471.360	238.080	194.880	131.520	89.280	115.200	217.920
70.0	8334.720	3113.280	955.200	298.560	168.000	119.040	75.840	79.680	77.760	168.960
72.5	3707.520	1379.520	472.320	215.040	130.560	75.840	61.440	57.600	54.720	123.840
75.0	1305.600	615.360	299.520	159.360	88.320	56.640	43.200	46.080	37.440	93.120
77.5	732.480	354.240	221.760	115.200	51.840	40.320	28.800	34.560	13.440	49.920
80.0	432.000	237.120	160.320	79.680	37.440	24.960	14.400	11.520	7.680	22.080
82.5	276.480	158.400	110.400	48.960	21.120	14.400	11.520	5.760	1.920	0.000
85.0	162.240	90.240	69.120	26.880	12.480	10.560	7.680	3.840	0.960	0.000
87.5	81.600	39.360	34.560	12.480	11.520	12.480	9.600	4.800	0.960	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

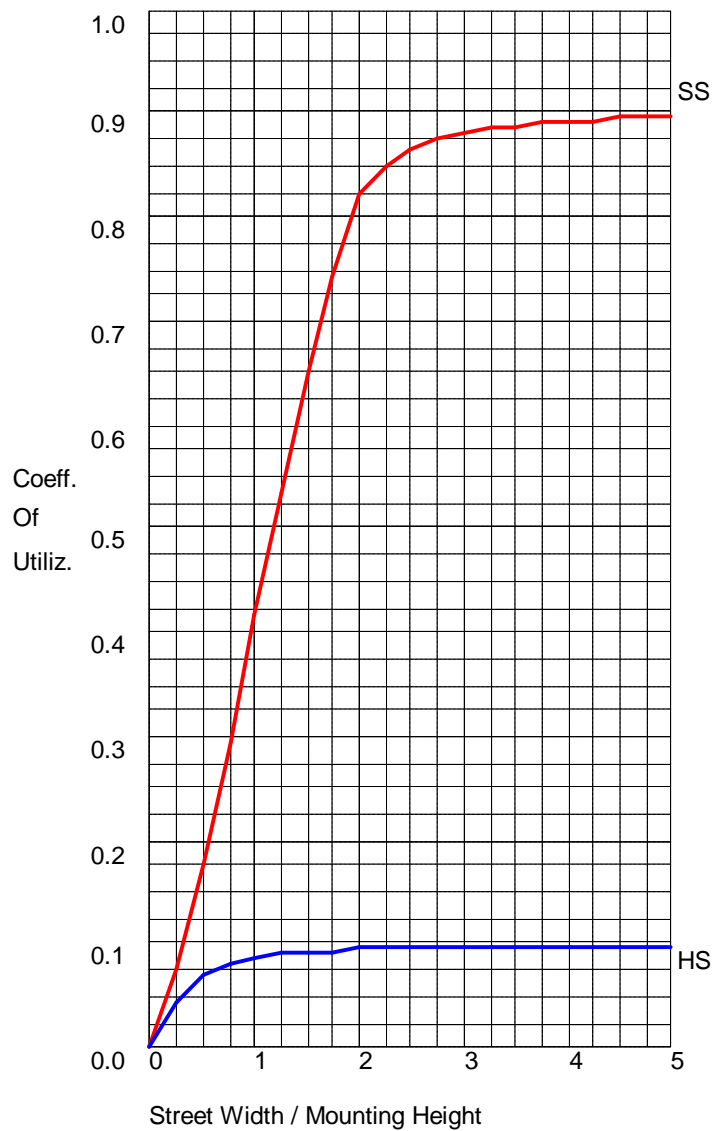
	175.0	180.0
0.0	2784.960	2784.960
2.5	2581.440	2561.280
5.0	2141.760	2118.720
7.5	1851.840	1847.040
10.0	1688.640	1681.920
12.5	1507.200	1499.520
15.0	1403.520	1395.840
17.5	1344.000	1336.320
20.0	1303.680	1295.040
22.5	1252.800	1245.120
25.0	1170.240	1157.760
27.5	977.280	964.800
30.0	834.240	825.600
32.5	911.040	895.680
35.0	1158.720	1119.360
37.5	1304.640	1210.560
40.0	863.040	780.480
42.5	564.480	528.960
45.0	463.680	438.720
47.5	413.760	390.720
50.0	379.200	355.200
52.5	350.400	325.440
55.0	388.800	361.920
57.5	333.120	301.440
60.0	275.520	238.080
62.5	265.920	230.400
65.0	282.240	248.640

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CANDELA TABULATION - (Cont.)

67.5	256.320	223.680
70.0	213.120	190.080
72.5	167.040	152.640
75.0	123.840	112.320
77.5	60.480	58.560
80.0	24.960	24.000
82.5	2.880	3.840
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

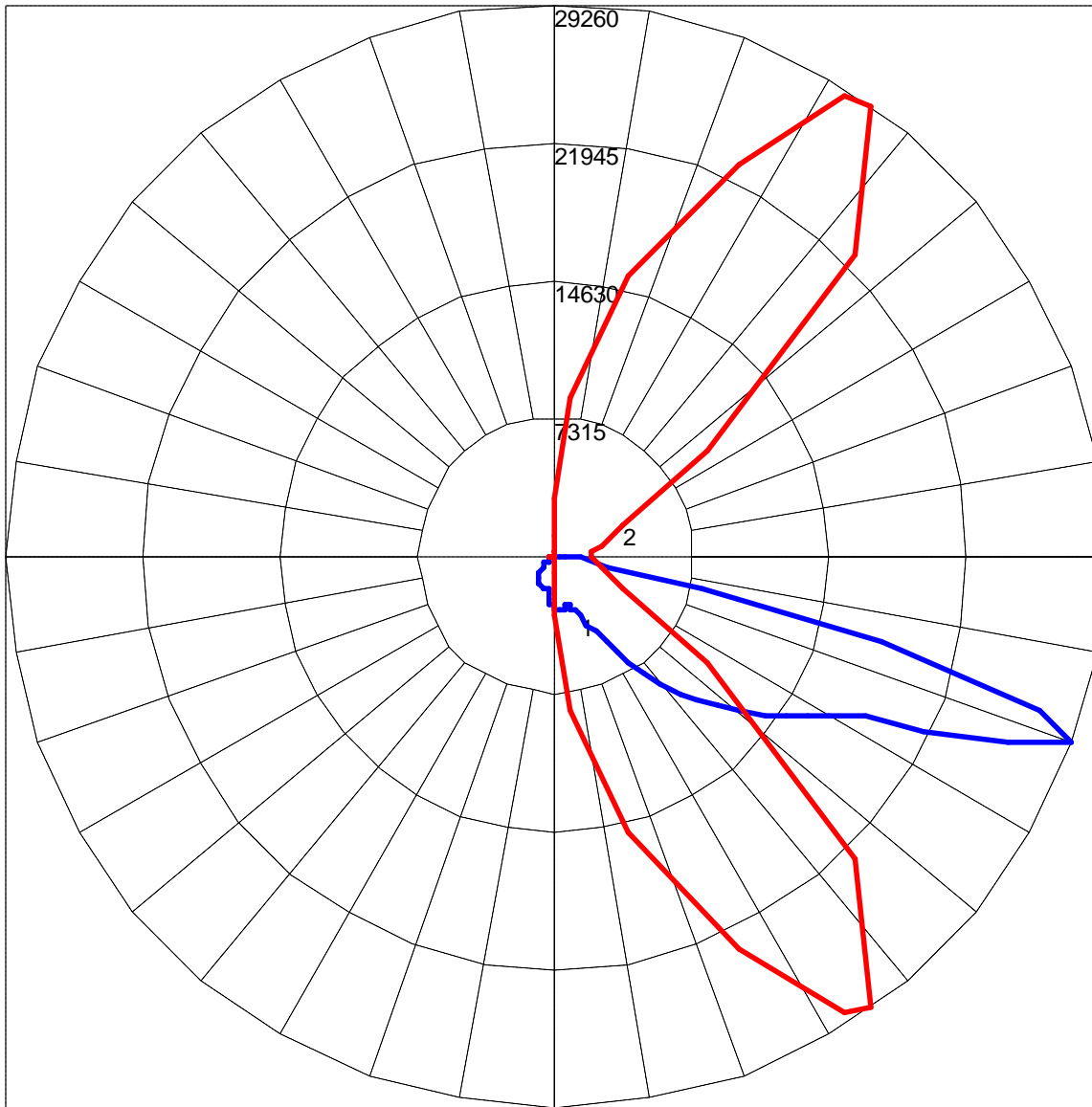
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

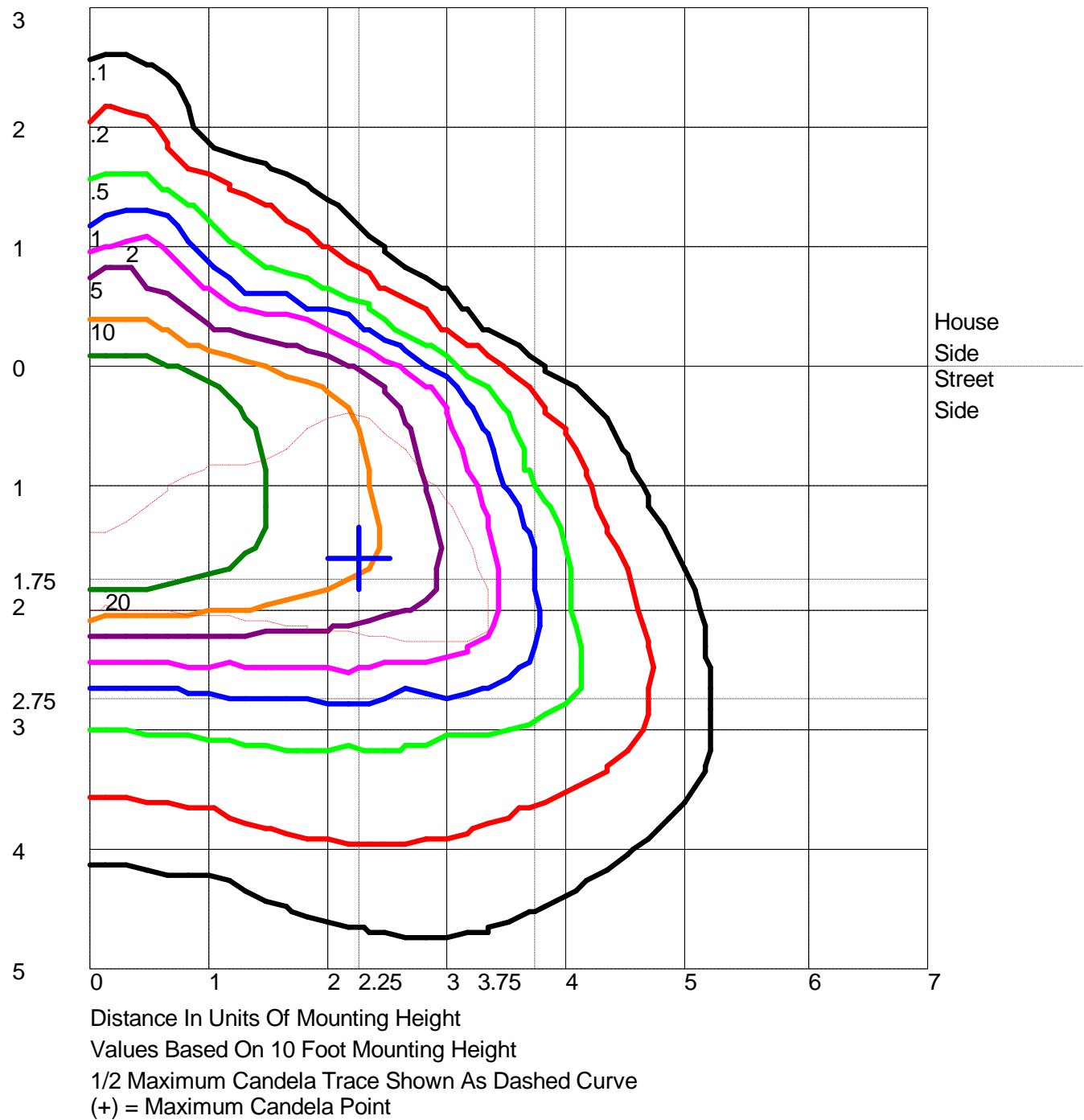
	Lumens	Percent Of Luminaire
Downward Street Side	25221.2	90.4
Downward House Side	2688.6	9.6
Downward Total	27909.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27909.8	100.0

POLAR GRAPH

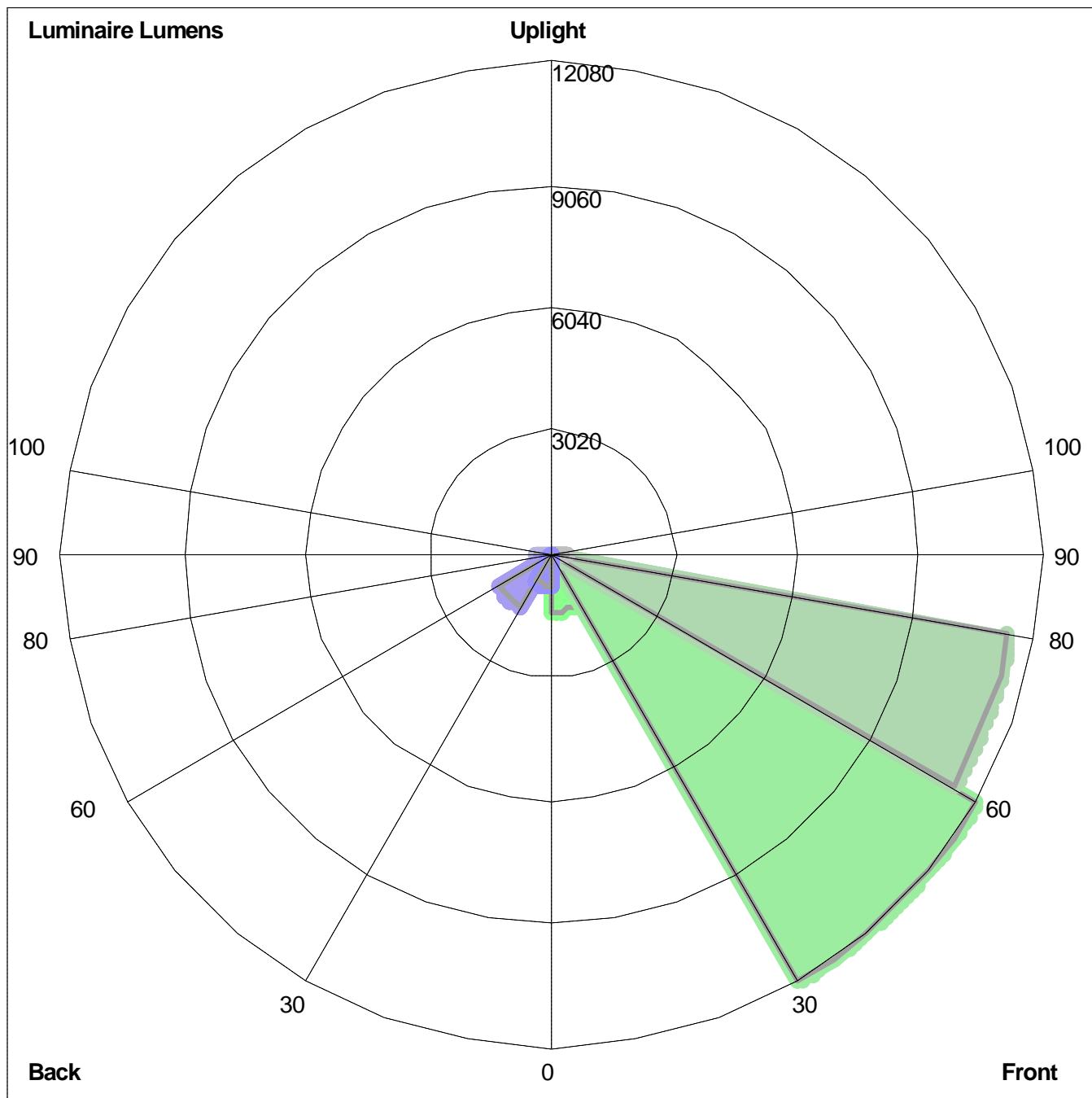


Maximum Candela = 29259.839 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1406.9, Medium=12079.8, High=11419.7, Very High=314.7
Back: Low=770.6, Medium= 1510.0, High=398.1, Very High=9.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4