PHOTOMETRY LABORATORY- TEST REPORT
Electrical And Photometric
Measurements of Solid State Lighting (LED) Products

Test Report N°……

Date of issue……..

Sample date in……..

Date of performance……..

Applicant……

Customer ……..

Sample description……

Sample Condition……..

Customer reference……..

Trade mark / Manufacturer……..

Model / Type / Reference……..

Ratings……..

Test method(s)…… IES LM 79-08

Possible test case verdicts:

- Test case does not apply to the test object..... N/A
- Test object meets the requirement ..... P (Pass)
- Test object does not meet the requirement..... F (Fail)

General remarks:

- " See enclosure ## " refers to additional information related to this report in the annexes section
- " See table ## " refers to a table appended to this report in the annexes section
- " See figure ## " refers to an image, picture or drawing appended to this report in the annexes section
- Throughout this report, a comma is used as decimal separator

General product information:

Model No.-

Pictures of Specimen received:

Testing Engineer .....

Asst. General Manager (Technical) .....

Photometric Results using Integrating Sphere + Gonio Photometer

CIE Colorimetric Parameters	
Chromaticity coordinates (x)	0.3240
Chromaticity coordinates (y)	0.3372
Chromaticity coordinates (u')	0.2026
Chromaticity coordinates (v)	0.3162
Chromaticity coordinates (v')	0.4743
Correlated color temperature (T_c)	5890K
D_{uv} Value	0.00189
Color Rendering Index (R_a)	76.1
Photometric Parameters	
Luminous Flux (Lumen)	19625.90 lm
Luminous Efficacy(lm/W)	137.91 lm/W
Electric Parameters	
Input Voltage (V)	240.00V
Current (I)	0.6040A
Power (W)	142.30W
Power Factor	0.9820
Frequency	50.00Hz
Test Information	
Ambient Temperature	25°C±1
Stabilization Time	60 minutes
Total Operating Time	90 minutes
Sphere Diameter (m)	2m
Photometric method or instrument used	Sphere-Spectroradiometer (Lisun group)' Goniophotometer Type C (Lisun group)
Wavelength range in (nm) of spectroradiometer	380nm to 800nm

Spectrum Test Report

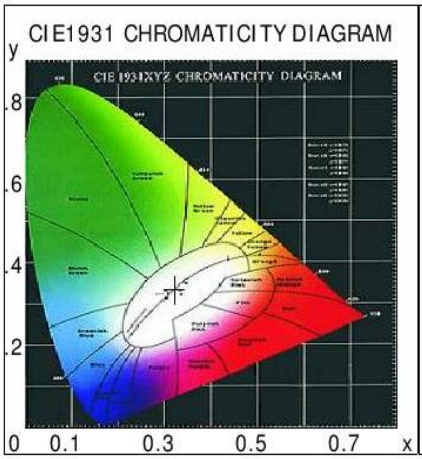
Product Infomation

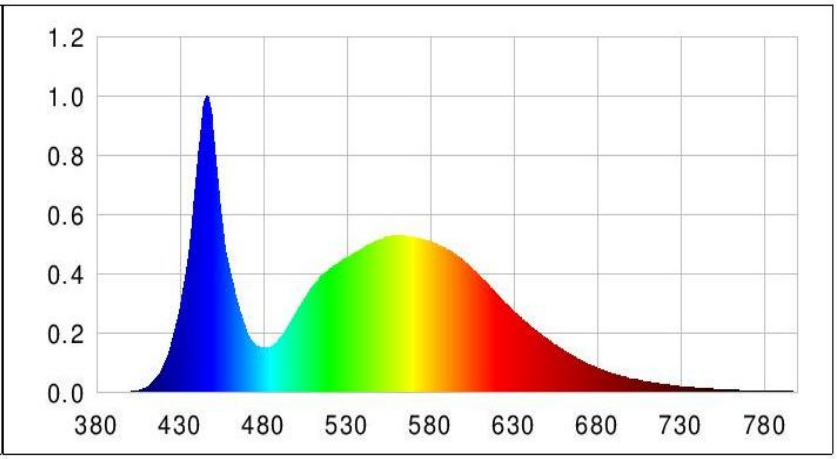
Product Category: LED Street Light

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3240 y=0.3372 u(u')=0.2026 v=0.3162 v'=0.4743
CCT: Tc=5890K (duv=0.00189) Color Ratio: R=0.132 G=0.828 B=0.041
Peak Wavelength: 446nm Half Bandwidth: 21.3nm
Dominant Wavelength: 498.2nm Color Purity: 0.029
CRI: Ri: Ra= 76.1

R1 =76	R2 =76	R3 =74	R4 =83	R5 =78	R6 =68	R7 =83	R8 =71
R9 =-4	R10=41	R11=83	R12=45	R13=74	R14=85	R15=73	





Photometric Parameters

Luminous Flux: 19625.90 lm Efficiency: 137.91 lm/W

Electric Parameters

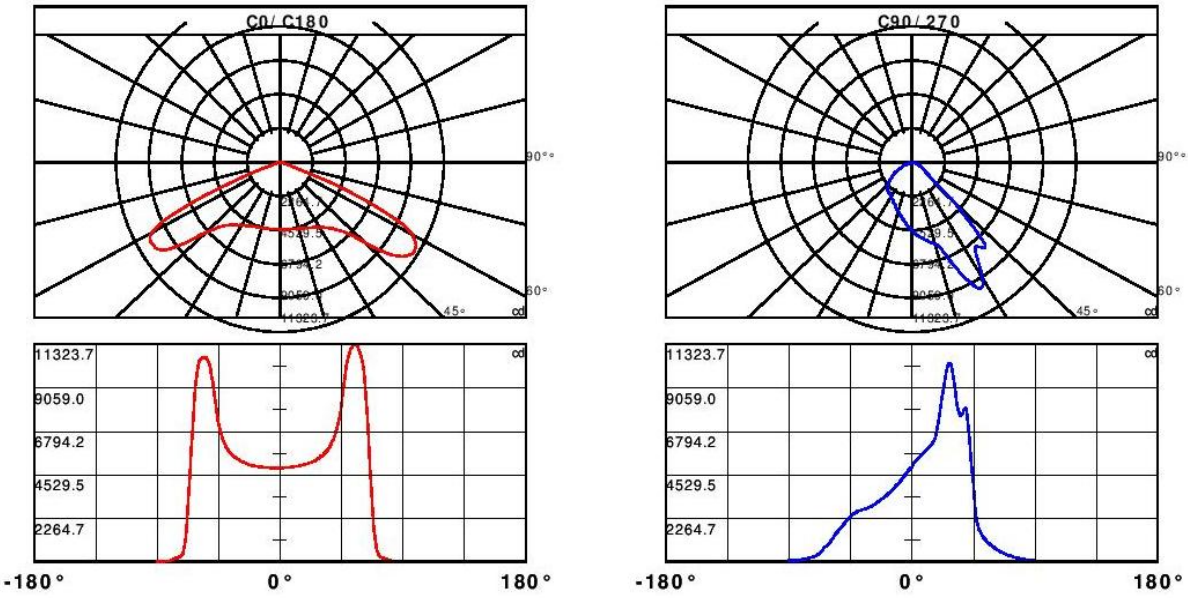
Voltage: 240.00V Current: 0.6040A Power: 142.30W
Power Factor: 0.9820 Frequency: 50.00Hz

Test Infomation
Scan Range: 380nm~800nm:1nm Photometric Method:
Stabilization Time: 60 Min Photometric Condition: Sphere diameter: 2.00m, 4ă
Max of Signal: 45855 (2773) CCD Integration Time: 48.37 ms

Photometric Results

CIE Class: Direct
Measurement Flux: 19625.90 lm
Efficiency: 137.9192 lm/W
Central Intensity: 4922.672cd
Max. Intensity: 11323.71cd
Field Angle(10%Imax): Left: -124.3 Right:14.8

Max.Intensity Angle: C:0.0 G:55.0
Beam Angle(50%Imax): L: -120.1 R:10.5
Luminaire Efficacy Rating(LER) : 100.00%
Upward Ratio: 0.0%
Downward Ratio: 100.0%



Light intensity data Unit[cd]

C\ G	G0.0	G1.0	G2.0	G3.0	G4.0	G5.0	G6.0	G7.0	G8.0	G9.0
C0.0	4922.7	4900.8	4889.3	4900.8	4896.5	4912.1	4924.2	4904.9	4941.1	4942.1
C22.5	4922.7	4966.2	5017.0	5082.3	5159.0	5193.3	5268.7	5323.5	5348.6	5423.0
C45.0	4922.7	4966.2	5017.0	5082.3	5159.0	5193.3	5268.7	5323.5	5348.6	5423.0
C67.5	4922.7	5091.8	5176.9	5242.8	5358.9	5419.4	5491.1	5573.7	5636.2	5717.0
C90.0	4922.7	5091.8	5176.9	5242.8	5358.9	5419.4	5491.1	5573.7	5636.2	5717.0
C112.5	4922.7	4988.5	5070.8	5116.4	5178.2	5246.6	5290.4	5355.8	5400.9	5439.6
C135.0	4922.7	4988.5	5070.8	5116.4	5178.2	5246.6	5290.4	5355.8	5400.9	5439.6
C157.5	4922.7	4874.7	4884.2	4881.6	4879.8	4889.3	4874.7	4884.2	4907.2	4902.9
C180.0	4922.7	4874.7	4884.2	4881.6	4879.8	4889.3	4874.7	4884.2	4907.2	4902.9
C202.5	4922.7	4830.1	4762.9	4679.6	4628.6	4563.0	4490.2	4441.8	4374.6	4306.9
C225.0	4922.7	4830.1	4762.9	4679.6	4628.6	4563.0	4490.2	4441.8	4374.6	4306.9
C247.5	4922.7	4908.0	4799.6	4717.8	4626.8	4517.1	4429.0	4345.7	4247.7	4164.2
C270.0	4922.7	4908.0	4799.6	4717.8	4626.8	4517.1	4429.0	4345.7	4247.7	4164.2
C292.5	4922.7	4879.1	4821.6	4749.9	4686.3	4610.2	4569.9	4502.3	4441.0	4403.6
C315.0	4922.7	4879.1	4821.6	4749.9	4686.3	4610.2	4569.9	4502.3	4441.0	4403.6
C337.5	4922.7	4900.8	4889.3	4900.8	4896.5	4912.1	4924.2	4904.9	4941.1	4942.1
C360.0	4922.7	4900.8	4889.3	4900.8	4896.5	4912.1	4924.2	4904.9	4941.1	4942.1
C\ G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	4938.5	4963.6	4975.2	4982.1	5003.4	4998.5	5027.2	5048.0	5053.4	5084.1
C22.5	5444.0	5498.3	5550.4	5569.3	5619.6	5663.9	5689.0	5733.9	5750.3	5791.3
C45.0	5444.0	5498.3	5550.4	5569.3	5619.6	5663.9	5689.0	5733.9	5750.3	5791.3
C67.5	5802.6	5847.2	5937.4	6013.8	6082.7	6185.8	6292.1	6465.2	6772.7	7128.8
C90.0	5802.6	5847.2	5937.4	6013.8	6082.7	6185.8	6292.1	6465.2	6772.7	7128.8
C112.5	5504.0	5534.5	5581.4	5631.6	5650.3	5702.6	5741.3	5752.6	5804.6	5830.0
C135.0	5504.0	5534.5	5581.4	5631.6	5650.3	5702.6	5741.3	5752.6	5804.6	5830.0
C157.5	4911.9	4923.4	4914.4	4931.1	4940.3	4935.7	4964.9	4960.3	4978.2	4999.8
C180.0	4911.9	4923.4	4914.4	4931.1	4940.3	4935.7	4964.9	4960.3	4978.2	4999.8
C202.5	4268.8	4200.6	4157.8	4096.8	4050.9	4012.2	3967.1	3936.6	3901.2	3846.3
C225.0	4268.8	4200.6	4157.8	4096.8	4050.9	4012.2	3967.1	3936.6	3901.2	3846.3
C247.5	4075.2	3990.6	3932.2	3840.7	3767.6	3704.6	3621.3	3567.0	3507.0	3439.8
C270.0	4075.2	3990.6	3932.2	3840.7	3767.6	3704.6	3621.3	3567.0	3507.0	3439.8
C292.5	4343.1	4290.8	4249.5	4187.0	4156.0	4101.6	4076.8	4062.4	4018.6	3995.5
C315.0	4343.1	4290.8	4249.5	4187.0	4156.0	4101.6	4076.8	4062.4	4018.6	3995.5
C337.5	4938.5	4963.6	4975.2	4982.1	5003.4	4998.5	5027.2	5048.0	5053.4	5084.1
C360.0	4938.5	4963.6	4975.2	4982.1	5003.4	4998.5	5027.2	5048.0	5053.4	5084.1
C\ G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	5097.7	5122.0	5160.2	5163.3	5207.4	5255.8	5260.7	5317.1	5363.0	5408.1
C22.5	5858.2	5903.3	6009.9	6178.1	6447.0	6795.3	7214.6	7684.2	8213.3	8653.9
C45.0	5858.2	5903.3	6009.9	6178.1	6447.0	6795.3	7214.6	7684.2	8213.3	8653.9
C67.5	7644.2	8079.7	8564.7	8989.1	9395.4	9786.6	10185.6	10308.2	10318.7	10142.6
C90.0	7644.2	8079.7	8564.7	8989.1	9395.4	9786.6	10185.6	10308.2	10318.7	10142.6

Light intensity data Unit[cd]

C112.5	5869.2	5945.1	6004.6	6141.4	6360.8	6643.3	7013.9	7448.7	7904.1	8358.9
C135.0	5869.2	5945.1	6004.6	6141.4	6360.8	6643.3	7013.9	7448.7	7904.1	8358.9
C157.5	5001.1	5019.5	5049.5	5065.4	5099.0	5121.0	5142.3	5193.3	5210.5	5251.2
C180.0	5001.1	5019.5	5049.5	5065.4	5099.0	5121.0	5142.3	5193.3	5210.5	5251.2
C202.5	3821.7	3788.2	3744.3	3732.8	3696.1	3673.6	3669.5	3624.4	3612.1	3600.5
C225.0	3821.7	3788.2	3744.3	3732.8	3696.1	3673.6	3669.5	3624.4	3612.1	3600.5
C247.5	3388.3	3319.3	3274.2	3224.5	3162.5	3118.9	3067.6	3014.1	2982.0	2915.4
C270.0	3388.3	3319.3	3274.2	3224.5	3162.5	3118.9	3067.6	3014.1	2982.0	2915.4
C292.5	3969.6	3925.8	3929.4	3889.4	3868.4	3856.1	3832.8	3799.2	3799.9	3774.8
C315.0	3969.6	3925.8	3929.4	3889.4	3868.4	3856.1	3832.8	3799.2	3799.9	3774.8
C337.5	5097.7	5122.0	5160.2	5163.3	5207.4	5255.8	5260.7	5317.1	5363.0	5408.1
C360.0	5097.7	5122.0	5160.2	5163.3	5207.4	5255.8	5260.7	5317.1	5363.0	5408.1
C\ G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	5489.1	5515.0	5597.0	5673.1	5746.4	5826.4	5953.0	6058.1	6204.5	6352.1
C22.5	9129.9	9613.5	10048.5	10526.8	10866.7	11094.0	11243.0	11148.1	10887.5	10482.0
C45.0	9129.9	9613.5	10048.5	10526.8	10866.7	11094.0	11243.0	11148.1	10887.5	10482.0
C67.5	9743.8	9251.9	8704.1	8164.8	7826.2	7619.9	7603.5	7719.6	7908.2	8024.4
C90.0	9743.8	9251.9	8704.1	8164.8	7826.2	7619.9	7603.5	7719.6	7908.2	8024.4
C112.5	8802.3	9288.0	9745.3	10090.3	10494.5	10790.3	10929.0	10966.4	10751.6	10364.3
C135.0	8802.3	9288.0	9745.3	10090.3	10494.5	10790.3	10929.0	10966.4	10751.6	10364.3
C157.5	5303.0	5335.0	5407.3	5451.7	5495.8	5598.3	5628.5	5730.5	5822.8	5938.2
C180.0	5303.0	5335.0	5407.3	5451.7	5495.8	5598.3	5628.5	5730.5	5822.8	5938.2
C202.5	3569.5	3567.7	3540.5	3516.2	3507.7	3481.9	3464.4	3476.0	3439.3	3429.6
C225.0	3569.5	3567.7	3540.5	3516.2	3507.7	3481.9	3464.4	3476.0	3439.3	3429.6
C247.5	2880.8	2851.8	2813.6	2777.0	2766.5	2729.3	2723.1	2695.5	2669.3	2656.2
C270.0	2880.8	2851.8	2813.6	2777.0	2766.5	2729.3	2723.1	2695.5	2669.3	2656.2
C292.5	3763.0	3750.7	3726.9	3737.4	3697.2	3666.4	3700.5	3676.1	3664.6	3679.2
C315.0	3763.0	3750.7	3726.9	3737.4	3697.2	3666.4	3700.5	3676.1	3664.6	3679.2
C337.5	5489.1	5515.0	5597.0	5673.1	5746.4	5826.4	5953.0	6058.1	6204.5	6352.1
C360.0	5489.1	5515.0	5597.0	5673.1	5746.4	5826.4	5953.0	6058.1	6204.5	6352.1
C\ G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	6528.5	6763.0	7016.5	7320.5	7719.8	8187.9	8804.9	9362.1	9867.8	10345.1
C22.5	9906.5	9297.5	8779.5	8316.3	8058.4	8029.5	8173.0	8518.3	8844.1	9089.6
C45.0	9906.5	9297.5	8779.5	8316.3	8058.4	8029.5	8173.0	8518.3	8844.1	9089.6
C67.5	7836.0	7235.4	6378.8	5427.3	4766.8	3989.6	2958.7	2166.7	1902.2	1695.0
C90.0	7836.0	7235.4	6378.8	5427.3	4766.8	3989.6	2958.7	2166.7	1902.2	1695.0
C112.5	9897.5	9310.3	8753.8	8275.3	7896.5	7778.5	7791.9	7967.5	8236.6	8396.3
C135.0	9897.5	9310.3	8753.8	8275.3	7896.5	7778.5	7791.9	7967.5	8236.6	8396.3
C157.5	6083.2	6230.4	6423.1	6654.8	6916.0	7223.9	7644.2	8128.7	8739.0	9286.0
C180.0	6083.2	6230.4	6423.1	6654.8	6916.0	7223.9	7644.2	8128.7	8739.0	9286.0
C202.5	3407.0	3395.5	3387.5	3361.4	3341.1	3301.9	3240.7	3199.4	3138.1	3057.4
C225.0	3407.0	3395.5	3387.5	3361.4	3341.1	3301.9	3240.7	3199.4	3138.1	3057.4

Light intensity data Unit[cd]

C247.5	2620.1	2578.3	2546.5	2484.8	2438.1	2362.2	2293.8	2203.6	2122.3	2027.5
C270.0	2620.1	2578.3	2546.5	2484.8	2438.1	2362.2	2293.8	2203.6	2122.3	2027.5
C292.5	3665.6	3663.1	3649.5	3594.6	3599.8	3572.1	3512.9	3461.3	3376.0	3295.0
C315.0	3665.6	3663.1	3649.5	3594.6	3599.8	3572.1	3512.9	3461.3	3376.0	3295.0
C337.5	6528.5	6763.0	7016.5	7320.5	7719.8	8187.9	8804.9	9362.1	9867.8	10345.1
C360.0	6528.5	6763.0	7016.5	7320.5	7719.8	8187.9	8804.9	9362.1	9867.8	10345.1
C\ G	**G50.0**	**G51.0**	**G52.0**	**G53.0**	**G54.0**	**G55.0**	**G56.0**	**G57.0**	**G58.0**	**G59.0**
C0.0	10659.1	10912.1	11092.0	11204.8	11312.4	11323.7	11266.8	11195.0	11021.8	10805.7
C22.5	9122.7	8816.4	8278.4	7423.5	6413.6	5494.5	4531.2	3623.1	2682.1	1791.4
C45.0	9122.7	8816.4	8278.4	7423.5	6413.6	5494.5	4531.2	3623.1	2682.1	1791.4
C67.5	1537.7	1401.8	1288.8	1199.6	1120.4	1039.6	979.9	910.2	859.2	791.0
C90.0	1537.7	1401.8	1288.8	1199.6	1120.4	1039.6	979.9	910.2	859.2	791.0
C112.5	8483.4	8352.4	7897.7	7263.1	6449.5	5456.8	4517.9	3618.0	2818.2	1984.2
C135.0	8483.4	8352.4	7897.7	7263.1	6449.5	5456.8	4517.9	3618.0	2818.2	1984.2
C157.5	9722.5	10134.6	10371.5	10509.6	10637.8	10627.0	10634.7	10632.7	10565.8	10474.5
C180.0	9722.5	10134.6	10371.5	10509.6	10637.8	10627.0	10634.7	10632.7	10565.8	10474.5
C202.5	2979.5	2869.2	2740.1	2600.1	2442.0	2290.5	2133.6	1980.8	1865.5	1759.1
C225.0	2979.5	2869.2	2740.1	2600.1	2442.0	2290.5	2133.6	1980.8	1865.5	1759.1
C247.5	1942.9	1844.2	1755.8	1684.8	1593.8	1524.3	1446.2	1347.5	1230.1	1121.1
C270.0	1942.9	1844.2	1755.8	1684.8	1593.8	1524.3	1446.2	1347.5	1230.1	1121.1
C292.5	3201.2	3091.7	2978.7	2824.1	2666.5	2494.3	2318.9	2175.6	2031.1	1891.4
C315.0	3201.2	3091.7	2978.7	2824.1	2666.5	2494.3	2318.9	2175.6	2031.1	1891.4
C337.5	10659.1	10912.1	11092.0	11204.8	11312.4	11323.7	11266.8	11195.0	11021.8	10805.7
C360.0	10659.1	10912.1	11092.0	11204.8	11312.4	11323.7	11266.8	11195.0	11021.8	10805.7
C\ G	**G60.0**	**G61.0**	**G62.0**	**G63.0**	**G64.0**	**G65.0**	**G66.0**	**G67.0**	**G68.0**	**G69.0**
C0.0	10592.7	10110.8	9516.1	8646.2	7506.1	6340.6	5008.5	3669.0	2563.5	1684.8
C22.5	1218.5	985.0	872.3	801.0	722.3	651.3	595.2	539.8	486.2	445.7
C45.0	1218.5	985.0	872.3	801.0	722.3	651.3	595.2	539.8	486.2	445.7
C67.5	743.6	694.1	638.0	587.0	556.7	508.8	490.9	443.9	411.7	399.3
C90.0	743.6	694.1	638.0	587.0	556.7	508.8	490.9	443.9	411.7	399.3
C112.5	1250.1	988.1	889.7	809.5	744.9	679.2	618.8	559.8	503.2	459.8
C135.0	1250.1	988.1	889.7	809.5	744.9	679.2	618.8	559.8	503.2	459.8
C157.5	10197.4	9755.5	9072.5	8109.2	6980.6	5809.2	4501.7	3251.7	2132.3	1277.0
C180.0	10197.4	9755.5	9072.5	8109.2	6980.6	5809.2	4501.7	3251.7	2132.3	1277.0
C202.5	1651.5	1509.2	1340.6	1149.3	957.9	787.7	643.9	577.5	518.0	468.3
C225.0	1651.5	1509.2	1340.6	1149.3	957.9	787.7	643.9	577.5	518.0	468.3
C247.5	1023.7	939.7	856.6	803.6	752.3	674.1	531.4	469.1	417.8	374.0
C270.0	1023.7	939.7	856.6	803.6	752.3	674.1	531.4	469.1	417.8	374.0
C292.5	1788.9	1647.4	1477.7	1270.8	1091.4	914.0	762.3	666.4	600.6	543.7
C315.0	1788.9	1647.4	1477.7	1270.8	1091.4	914.0	762.3	666.4	600.6	543.7
C337.5	10592.7	10110.8	9516.1	8646.2	7506.1	6340.6	5008.5	3669.0	2563.5	1684.8
C360.0	10592.7	10110.8	9516.1	8646.2	7506.1	6340.6	5008.5	3669.0	2563.5	1684.8

Light intensity data Unit[cd]

C\ G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	1030.7	599.3	378.1	294.0	245.8	208.9	190.4	160.5	127.9	106.9
C22.5	403.2	380.4	348.3	319.4	294.0	265.0	219.2	178.7	146.6	117.9
C45.0	403.2	380.4	348.3	319.4	294.0	265.0	219.2	178.7	146.6	117.9
C67.5	365.8	329.6	313.5	288.9	270.4	244.0	238.1	207.9	194.8	172.8
C90.0	365.8	329.6	313.5	288.9	270.4	244.0	238.1	207.9	194.8	172.8
C112.5	428.8	391.7	361.9	332.7	305.8	275.3	240.4	213.0	169.2	137.4
C135.0	428.8	391.7	361.9	332.7	305.8	275.3	240.4	213.0	169.2	137.4
C157.5	765.1	456.5	324.5	274.3	234.3	212.7	183.3	154.0	127.9	100.5
C180.0	765.1	456.5	324.5	274.3	234.3	212.7	183.3	154.0	127.9	100.5
C202.5	428.3	378.6	356.0	296.0	267.1	226.6	191.5	151.5	126.4	114.3
C225.0	428.3	378.6	356.0	296.0	267.1	226.6	191.5	151.5	126.4	114.3
C247.5	330.9	294.3	271.4	245.8	225.8	205.8	185.6	161.7	158.7	137.4
C270.0	330.9	294.3	271.4	245.8	225.8	205.8	185.6	161.7	158.7	137.4
C292.5	495.2	445.0	405.0	344.0	317.8	285.3	241.7	198.1	173.0	148.4
C315.0	495.2	445.0	405.0	344.0	317.8	285.3	241.7	198.1	173.0	148.4
C337.5	1030.7	599.3	378.1	294.0	245.8	208.9	190.4	160.5	127.9	106.9
C360.0	1030.7	599.3	378.1	294.0	245.8	208.9	190.4	160.5	127.9	106.9
C\ G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	91.8	70.5	53.1	35.6	30.2	21.3	14.9	11.0	7.2	8.8
C22.5	92.3	74.8	65.1	43.8	32.3	25.1	17.4	15.5	13.6	12.6
C45.0	92.3	74.8	65.1	43.8	32.3	25.1	17.4	15.5	13.6	12.6
C67.5	154.0	131.7	120.7	104.6	94.3	81.8	78.2	71.0	63.1	60.5
C90.0	154.0	131.7	120.7	104.6	94.3	81.8	78.2	71.0	63.1	60.5
C112.5	116.9	88.4	80.5	68.4	55.6	49.2	40.8	39.5	35.4	36.9
C135.0	116.9	88.4	80.5	68.4	55.6	49.2	40.8	39.5	35.4	36.9
C157.5	83.0	57.9	45.9	33.6	26.9	12.3	12.3	7.7	5.1	2.1
C180.0	83.0	57.9	45.9	33.6	26.9	12.3	12.3	7.7	5.1	2.1
C202.5	87.1	65.9	51.8	42.0	25.6	16.7	15.4	13.6	7.2	7.8
C225.0	87.1	65.9	51.8	42.0	25.6	16.7	15.4	13.6	7.2	7.8
C247.5	120.7	110.2	99.2	88.4	85.6	69.0	62.0	63.1	60.0	63.3
C270.0	120.7	110.2	99.2	88.4	85.6	69.0	62.0	63.1	60.0	63.3
C292.5	125.1	93.6	90.2	74.1	53.6	47.2	45.6	33.6	32.9	32.3
C315.0	125.1	93.6	90.2	74.1	53.6	47.2	45.6	33.6	32.9	32.3
C337.5	91.8	70.5	53.1	35.6	30.2	21.3	14.9	11.0	7.2	8.8
C360.0	91.8	70.5	53.1	35.6	30.2	21.3	14.9	11.0	7.2	8.8
C\ G	G90.0									
C0.0	10.5									
C22.5	11.5									
C45.0	11.5									
C67.5	56.6									
C90.0	56.6									

Light intensity data Unit[cd]

C112.5	34.1									
C135.0	34.1									
C157.5	0.0									
C180.0	0.0									
C202.5	8.5									
C225.0	8.5									
C247.5	62.5									
C270.0	62.5									
C292.5	30.2									
C315.0	30.2									
C337.5	10.5									
C360.0	10.5									

Zonal Luminous Flux Data

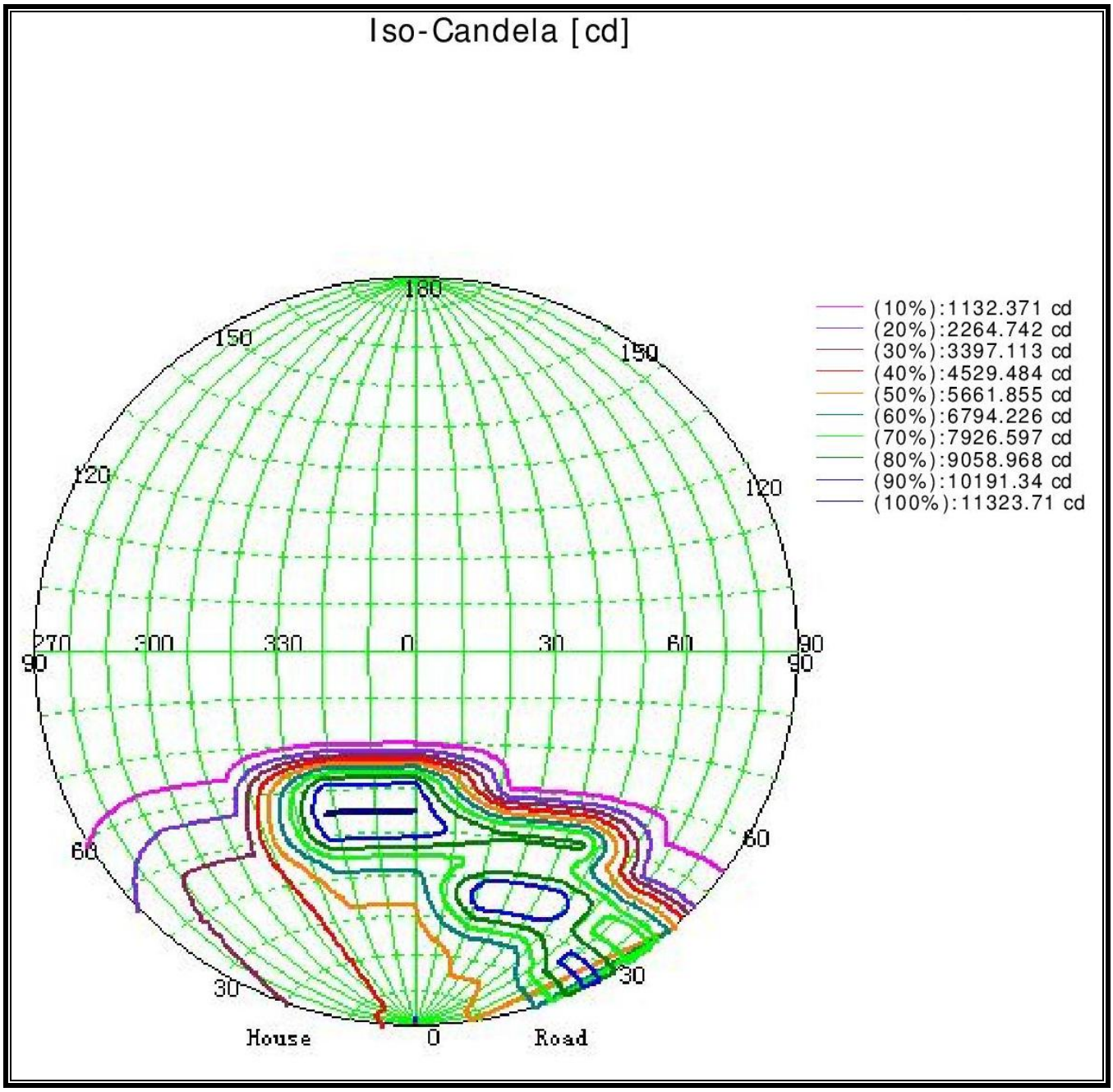
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	4922.67	0.00	0.00	0.00	0.00
0.0-1.0	4929.90	4.71	4.71	0.02	0.02
1.0-2.0	4927.79	14.15	18.86	0.07	0.10
2.0-3.0	4921.41	23.56	42.42	0.12	0.22
3.0-4.0	4926.76	32.96	75.38	0.17	0.38
4.0-5.0	4918.88	42.36	117.74	0.22	0.60
5.0-6.0	4917.28	51.69	169.43	0.26	0.86
6.0-7.0	4916.48	61.04	230.47	0.31	1.17
7.0-8.0	4912.18	70.34	300.81	0.36	1.53
8.0-9.0	4912.41	79.62	380.43	0.41	1.94
9.0-10.0	4911.00	88.90	469.33	0.45	2.39
10.0-11.0	4906.13	98.09	567.43	0.50	2.89
11.0-12.0	4912.28	107.33	674.75	0.55	3.44
12.0-13.0	4906.54	116.52	791.28	0.59	4.03
13.0-14.0	4908.85	125.64	916.92	0.64	4.67
14.0-15.0	4913.11	134.84	1051.76	0.69	5.36
15.0-16.0	4922.47	144.12	1195.87	0.73	6.09
16.0-17.0	4940.73	153.60	1349.47	0.78	6.88
17.0-18.0	4973.25	163.46	1512.93	0.83	7.71
18.0-19.0	5014.45	173.77	1686.70	0.89	8.59
19.0-20.0	5081.26	184.78	1871.48	0.94	9.54
20.0-21.0	5137.87	196.23	2067.70	1.00	10.54
21.0-22.0	5217.11	208.09	2275.79	1.06	11.60
22.0-23.0	5298.01	220.64	2496.43	1.12	12.72
23.0-24.0	5404.57	234.00	2730.42	1.19	13.91
24.0-25.0	5531.32	248.66	2979.08	1.27	15.18
25.0-26.0	5673.39	264.49	3243.57	1.35	16.53
26.0-27.0	5798.64	280.67	3524.24	1.43	17.96
27.0-28.0	5925.45	296.83	3821.07	1.51	19.47
28.0-29.0	6013.17	312.35	4133.41	1.59	21.06
29.0-30.0	6085.17	326.65	4460.07	1.66	22.73
30.0-31.0	6146.72	340.40	4800.46	1.73	24.46
31.0-32.0	6197.92	353.66	5154.12	1.80	26.26
32.0-33.0	6242.16	366.49	5520.61	1.87	28.13
33.0-34.0	6300.12	379.57	5900.18	1.93	30.06
34.0-35.0	6350.81	392.89	6293.07	2.00	32.07
35.0-36.0	6405.63	406.17	6699.24	2.07	34.13
36.0-37.0	6433.79	418.75	7117.99	2.13	36.27
37.0-38.0	6418.48	428.99	7546.98	2.19	38.45
38.0-39.0	6365.74	436.36	7983.34	2.22	40.68
39.0-40.0	6243.06	439.75	8423.09	2.24	42.92

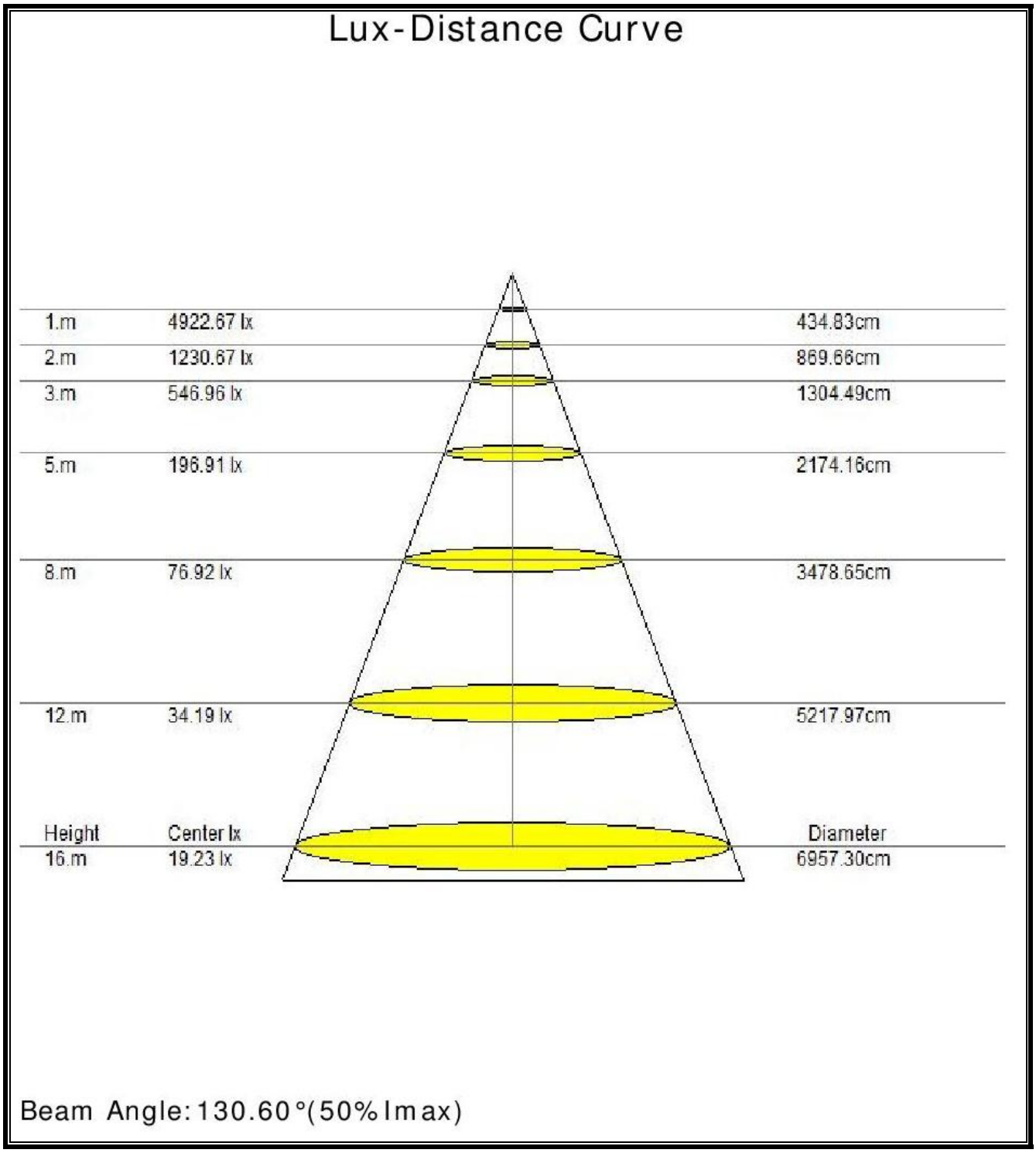
Zonal Luminous Flux Data

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	6059.18	438.08	8861.17	2.23	45.15
41.0-42.0	5866.91	433.30	9294.46	2.21	47.36
42.0-43.0	5679.38	427.71	9722.17	2.18	49.54
43.0-44.0	5592.07	425.42	10147.58	2.17	51.71
44.0-45.0	5555.71	428.42	10576.01	2.18	53.89
45.0-46.0	5552.50	434.42	11010.42	2.21	56.10
46.0-47.0	5625.94	444.60	11455.02	2.27	58.37
47.0-48.0	5778.26	461.02	11916.04	2.35	60.72
48.0-49.0	5898.98	479.53	12395.57	2.44	63.16
49.0-50.0	5956.11	494.28	12889.85	2.52	65.68
50.0-51.0	5927.82	502.79	13392.64	2.56	68.24
51.0-52.0	5800.36	503.27	13895.90	2.56	70.80
52.0-53.0	5588.71	495.42	14391.33	2.52	73.33
53.0-54.0	5329.50	481.23	14872.56	2.45	75.78
54.0-55.0	5031.34	462.49	15335.05	2.36	78.14
55.0-56.0	4728.66	441.03	15776.08	2.25	80.38
56.0-57.0	4435.36	419.00	16195.07	2.13	82.52
57.0-58.0	4134.22	396.29	16591.37	2.02	84.54
58.0-59.0	3827.31	372.21	16963.58	1.90	86.43
59.0-60.0	3558.30	348.92	17312.50	1.78	88.21
60.0-61.0	3328.73	328.66	17641.16	1.67	89.89
61.0-62.0	3082.92	308.95	17950.12	1.57	91.46
62.0-63.0	2772.07	284.76	18234.87	1.45	92.91
63.0-64.0	2414.02	254.48	18489.35	1.30	94.21
64.0-65.0	2045.63	220.70	18710.05	1.12	95.33
65.0-66.0	1644.07	184.09	18894.14	0.94	96.27
66.0-67.0	1272.15	146.64	19040.77	0.75	97.02
67.0-68.0	954.15	112.78	19153.55	0.57	97.59
68.0-69.0	706.58	84.72	19238.28	0.43	98.02
69.0-70.0	531.00	63.56	19301.83	0.32	98.35
70.0-71.0	409.41	48.61	19350.44	0.25	98.60
71.0-72.0	344.85	39.22	19389.66	0.20	98.80
72.0-73.0	299.38	33.69	19423.34	0.17	98.97
73.0-74.0	270.13	29.94	19453.28	0.15	99.12
74.0-75.0	240.46	26.98	19480.26	0.14	99.26
75.0-76.0	211.27	23.98	19504.24	0.12	99.38
76.0-77.0	178.17	20.76	19525.00	0.11	99.49
77.0-78.0	153.06	17.73	19542.73	0.09	99.58
78.0-79.0	129.44	15.18	19557.91	0.08	99.65
79.0-80.0	108.87	12.85	19570.76	0.07	99.72
80.0-81.0	86.64	10.57	19581.34	0.05	99.77

Zonal Luminous Flux Data

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
81.0-82.0	75.81	8.81	19590.15	0.04	99.82
82.0-83.0	61.32	7.45	19597.60	0.04	99.86
83.0-84.0	50.53	6.09	19603.70	0.03	99.89
84.0-85.0	40.31	4.96	19608.66	0.03	99.91
85.0-86.0	35.82	4.16	19612.82	0.02	99.93
86.0-87.0	31.86	3.70	19616.53	0.02	99.95
87.0-88.0	28.05	3.28	19619.80	0.02	99.97
88.0-89.0	28.04	3.07	19622.88	0.02	99.98
89.0-90.0	26.75	3.00	19625.88	0.02	100.00


Iso-Candela [cd]
180
150
150
120
120
90
90
270
300
330
0
30
60
90
60
60
30
30
House
0
Road
(10%):1132.371 cd
(20%):2264.742 cd
(30%):3397.113 cd
(40%):4529.484 cd
(50%):5661.855 cd
(60%):6794.226 cd
(70%):7926.597 cd
(80%):9058.968 cd
(90%):10191.34 cd
(100%):11323.71 cd


Lux-Distance Curve
1.m 4922.67 lx 434.83cm
2.m 1230.67 lx 869.66cm
3.m 546.96 lx 1304.49cm
5.m 196.91 lx 2174.16cm
8.m 76.92 lx 3478.65cm
12.m 34.19 lx 5217.97cm
Height Center lx Diameter
16.m 19.23 lx 6957.30cm
Beam Angle: 130.60°(50% Imax)