

## Luminaire Property

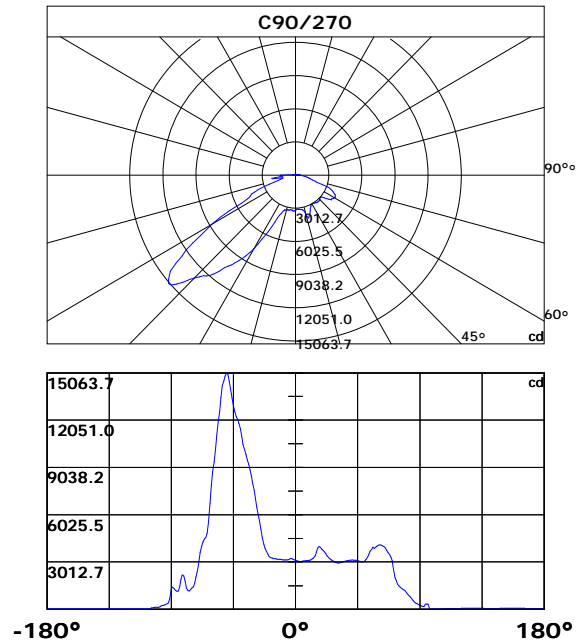
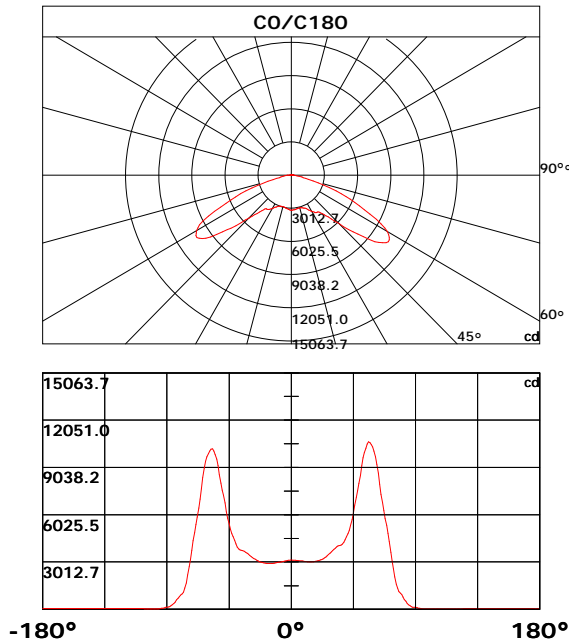
Luminaire Description: LED GEVEL schijnwerper 200W  
 Luminaire Categorie: LED WALL LIGHT  
 Lamp Categorie:  
 Lamp Description: LED GEVEL schijnwerper 200W  
 Number of Lamp: 1  
 Lamp Lumens(lm): 28628.2  
 Luminous Length(m): 0.345  
 Luminous Width(m): 0.163  
 Luminous Height(m): 0.172

Voltage: 220.2 V  
 Current: 0.864 A  
 Power: 190.2 W  
 Power Factor: 0.977  
 Test Lab: HuiPu-lab  
 Photometric Type: Type C  
 Manufactory:

## Photometric Results

CIE Class: Direct  
 Luminaire Lumens: 28628.20 lm  
 Efficiency: 150.5163 lm/W  
 Central Intensity: 3148.338cd  
 Max. Intensity: 15063.68cd  
 Field Angle(10%Imax): NA

Max.Intensity Angle: C:270.0 G:50.0  
 Beam Angle(50%Imax): L: -11.3 R:61.3  
 Luminaire Efficacy Rating(LER) : 100.00%  
 Upward Ratio: NA  
 Downward Ratio: NA  
 Beamwidth(50%Imax): C0/180=142.67 C90/270=107.87



### 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	3148.3	3137.4	3137.8	3121.6	3111.8	3104.2	3095.7	3079.4	3084.1	3061.6
C30.0	3148.3	3145.1	3143.8	3117.8	3067.5	3041.6	3011.2	3000.2	2975.9	2962.3
C60.0	3148.3	3167.2	3092.2	3069.6	3054.3	3033.0	3050.0	3031.8	3053.9	3060.4
C90.0	3148.3	3090.0	3056.4	3040.5	3043.4	3058.7	3072.6	3087.8	3100.5	3107.6
C120.0	3148.3	3119.6	3075.3	3057.3	3047.1	3071.4	3062.0	3073.9	3082.4	3086.7
C150.0	3148.3	3098.6	3091.8	3047.1	3026.3	3011.2	2998.6	3000.6	2984.1	2979.8
C180.0	3148.3	3128.0	3118.2	3104.2	3080.4	3066.3	3044.9	3023.7	3008.8	2998.6
C210.0	3148.3	3162.6	3188.6	3217.9	3199.6	3194.9	3184.7	3144.7	3103.3	3073.5
C240.0	3148.3	3168.5	3239.2	3242.2	3222.2	3161.6	3146.3	3126.3	3119.6	3111.0
C270.0	3148.3	3149.5	3198.8	3220.6	3225.8	3171.6	3153.0	3143.0	3142.1	3150.1
C300.0	3148.3	3160.8	3171.9	3227.7	3235.3	3212.0	3158.8	3136.5	3125.9	3110.6
C330.0	3148.3	3156.1	3170.6	3147.6	3154.5	3174.1	3190.2	3197.5	3199.6	3146.3
C360.0	3148.3	3137.4	3137.8	3121.6	3111.8	3104.2	3095.7	3079.4	3084.1	3061.6
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	3052.6	3042.4	3033.0	3032.2	3033.0	3027.5	3033.5	3042.8	3068.8	3091.4
C30.0	2951.6	2957.2	2950.0	2947.8	2948.7	2949.2	2950.8	2959.4	2973.4	2993.9
C60.0	3059.0	3045.3	3058.6	3076.1	3100.8	3134.9	3231.2	3331.2	3518.8	3708.8
C90.0	3123.2	3155.4	3205.4	3268.0	3388.4	3612.6	3889.7	4009.6	3938.5	3833.8
C120.0	3073.5	3089.8	3116.5	3143.4	3184.3	3260.6	3420.2	3669.6	3845.9	3861.2
C150.0	2978.1	2978.1	2961.0	2963.6	2947.8	2949.6	2944.9	2961.8	2987.0	3014.3
C180.0	2973.9	2959.8	2944.5	2931.6	2924.9	2916.7	2920.6	2924.9	2932.0	2947.8
C210.0	3047.1	3025.3	3002.8	2982.8	2970.4	2962.3	2957.6	2951.6	2959.0	2964.5
C240.0	3105.1	3107.6	3122.5	3120.0	3117.8	3116.5	3111.8	3112.7	3127.2	3116.9
C270.0	3165.2	3174.9	3187.7	3196.8	3208.6	3221.5	3240.3	3264.9	3296.5	3358.1
C300.0	3117.8	3114.9	3136.1	3133.6	3124.3	3121.2	3125.1	3125.9	3140.4	3149.0
C330.0	3100.0	3084.1	3047.9	3051.0	3015.5	3004.1	3014.3	3002.8	3011.2	3038.2
C360.0	3052.6	3042.4	3033.0	3032.2	3033.0	3027.5	3033.5	3042.8	3068.8	3091.4
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	3113.5	3146.3	3172.8	3209.0	3263.9	3333.4	3410.0	3497.4	3579.2	3661.0
C30.0	3029.2	3050.0	3092.7	3149.4	3243.9	3370.0	3526.8	3681.4	3833.1	3887.2
C60.0	3840.8	3794.7	3692.5	3587.7	3530.6	3483.3	3384.1	3242.2	3149.8	3093.9
C90.0	3760.5	3663.9	3529.8	3390.6	3283.6	3204.8	3139.6	3074.9	3013.0	2983.0
C120.0	3762.0	3669.6	3609.4	3529.8	3411.8	3285.7	3175.7	3093.5	3015.9	2953.8
C150.0	3053.1	3137.0	3253.7	3407.1	3538.3	3623.5	3605.1	3547.7	3533.7	3563.9
C180.0	2961.0	2979.0	3001.0	3032.6	3082.4	3130.2	3187.7	3233.7	3289.0	3360.2
C210.0	2976.8	2987.5	3001.0	3027.9	3055.1	3080.8	3098.6	3129.4	3152.3	3165.5
C240.0	3125.5	3151.0	3168.1	3272.9	3384.5	3512.7	3648.2	3835.3	4191.8	4558.2
C270.0	3513.0	3694.5	3880.1	4146.9	4586.8	5086.5	5563.7	5979.4	6495.0	7036.4
C300.0	3150.6	3169.0	3210.6	3309.6	3431.0	3557.1	3715.5	3968.6	4324.7	4705.1
C330.0	3062.9	3073.9	3109.8	3154.5	3171.0	3181.2	3205.9	3244.7	3278.8	3298.9
C360.0	3113.5	3146.3	3172.8	3209.0	3263.9	3333.4	3410.0	3497.4	3579.2	3661.0

### Light intensity data Unit[cd]

C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	3739.8	3821.6	3898.8	3981.8	4042.3	4072.1	4089.6	4145.8	4263.0	4436.8
C30.0	3897.4	3899.6	3917.5	3964.3	4035.5	4099.8	4112.2	4070.4	3995.9	3885.1
C60.0	3022.0	2974.7	2951.2	2929.6	2890.8	2869.0	2877.1	2899.2	2901.0	2948.7
C90.0	2957.3	2950.7	2963.9	2980.9	3004.8	3044.6	3064.2	3080.8	3101.8	3124.3
C120.0	2899.2	2855.9	2828.1	2791.0	2778.7	2767.1	2769.8	2776.5	2797.0	2814.1
C150.0	3586.5	3584.3	3566.4	3574.1	3603.5	3635.9	3631.2	3629.4	3537.9	3434.7
C180.0	3440.8	3511.9	3580.0	3644.3	3707.4	3749.2	3764.9	3774.3	3833.9	3960.9
C210.0	3190.2	3211.6	3232.0	3269.0	3277.1	3297.2	3302.3	3301.0	3294.7	3301.4
C240.0	4868.4	5171.3	5525.3	5887.4	6299.0	6760.7	7247.2	7662.3	8074.2	8536.9
C270.0	7579.7	8038.5	8510.5	8866.6	9218.5	9547.0	9877.2	10159.7	10493.6	11021.5
C300.0	5038.4	5423.5	5794.5	6202.7	6690.9	7203.8	7623.9	8063.2	8477.7	8946.7
C330.0	3352.6	3375.1	3384.9	3404.1	3414.7	3450.6	3507.6	3525.5	3532.3	3548.6
C360.0	3739.8	3821.6	3898.8	3981.8	4042.3	4072.1	4089.6	4145.8	4263.0	4436.8
C\G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	4617.4	4813.5	5013.3	5354.5	5721.7	6131.5	6623.1	7132.7	7552.3	8015.0
C30.0	3803.3	3744.1	3709.2	3707.4	3768.0	3883.4	3994.5	4112.2	4200.0	4301.7
C60.0	2984.9	3014.7	3073.5	3096.5	3131.0	3130.2	3142.9	3127.2	3119.6	3062.4
C90.0	3134.9	3140.8	3136.8	3136.0	3121.9	3099.1	3067.7	3033.3	3023.5	3024.6
C120.0	2833.7	2868.2	2882.6	2917.6	2967.0	3000.2	3024.1	3018.1	2997.7	2944.9
C150.0	3318.0	3200.8	3140.0	3069.6	3050.4	3039.4	3020.6	3056.1	3071.0	3112.7
C180.0	4159.4	4384.3	4628.0	4826.6	5077.2	5437.2	5798.0	6203.9	6776.2	7253.7
C210.0	3340.2	3408.8	3498.2	3636.3	3781.6	3920.0	4065.3	4280.8	4560.4	4945.9
C240.0	8917.3	9257.7	9557.3	9915.9	10180.9	10548.9	10905.2	11389.1	11748.3	12085.3
C270.0	11487.1	11847.5	12117.7	12265.5	12621.6	12986.3	13419.6	14030.0	14527.7	14945.6
C300.0	9339.5	9699.9	10071.8	10349.1	10735.6	11158.7	11686.5	12084.4	12422.2	12796.3
C330.0	3575.7	3621.8	3735.5	3880.0	4022.3	4202.9	4389.0	4601.2	4876.9	5219.4
C360.0	4617.4	4813.5	5013.3	5354.5	5721.7	6131.5	6623.1	7132.7	7552.3	8015.0
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	8537.7	9147.0	9656.0	9975.2	10263.2	10535.8	10662.4	10610.8	10495.8	10336.9
C30.0	4508.4	4797.6	5215.6	5703.7	6130.3	6559.3	7131.9	7902.9	8755.0	9415.0
C60.0	3014.3	2978.1	2955.9	2924.0	2909.6	2910.8	2870.8	2845.9	2798.7	2725.9
C90.0	3060.8	3165.7	3312.7	3485.2	3685.0	3826.6	3961.1	3883.2	3963.8	4028.5
C120.0	2877.5	2811.0	2749.3	2711.4	2692.2	2673.0	2648.8	2596.7	2535.1	2431.0
C150.0	3226.1	3379.0	3577.1	3718.6	3843.3	3958.0	4211.0	4639.6	5233.5	5742.1
C180.0	7583.9	8044.4	8577.4	9166.6	9570.9	9854.6	10087.3	10215.9	10200.1	10075.2
C210.0	5357.4	5732.3	6034.8	6373.9	6773.5	7341.9	7906.0	8190.5	8355.8	8729.5
C240.0	12399.2	12368.6	12416.7	12590.2	12636.1	12784.4	12850.4	12584.6	12077.5	11365.3
C270.0	15063.7	14855.3	14541.8	14233.3	13488.6	12583.3	12027.3	11103.6	10182.6	9429.5
C300.0	12870.0	12856.7	13047.3	13135.9	13327.1	13397.0	12992.2	12514.3	11903.4	11014.6
C330.0	5647.2	6069.3	6425.1	6802.1	7134.8	7537.0	7986.4	8158.6	8339.3	8671.5
C360.0	8537.7	9147.0	9656.0	9975.2	10263.2	10535.8	10662.4	10610.8	10495.8	10336.9

### Light intensity data Unit[cd]

C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	10088.5	9715.7	9242.0	8673.2	7951.1	7334.6	6785.5	6278.5	5786.8	5344.3
C30.0	9951.3	10361.2	10681.6	10766.3	10656.9	10428.1	10029.7	9519.3	8925.4	8246.8
C60.0	2643.2	2483.9	2359.0	2292.2	2215.9	2127.7	2011.8	1967.5	1958.1	2006.7
C90.0	4086.7	4104.2	4084.2	4053.2	3992.5	3897.7	3757.3	3620.2	3480.1	3322.0
C120.0	2272.2	2261.0	2288.3	2343.7	2386.3	2408.9	2439.2	2487.3	2515.5	2538.0
C150.0	6139.2	6685.8	7470.1	8188.0	8545.4	8738.5	8871.7	8956.5	8940.3	8849.1
C180.0	9921.9	9718.7	9429.9	8990.1	8374.6	7685.2	7029.6	6441.7	5881.9	5410.7
C210.0	9176.8	9461.4	9521.0	9523.6	9498.5	9368.1	9209.5	9098.5	8965.8	8741.8
C240.0	10206.5	9129.9	8214.0	7183.4	6463.4	5720.9	4570.2	3718.6	3331.0	3174.9
C270.0	8755.0	7892.3	6757.4	5536.8	4867.6	4596.6	4473.1	4289.0	4031.6	3616.3
C300.0	10078.7	9189.1	8008.6	7264.8	6627.4	5640.3	4684.3	4007.8	3714.4	3558.4
C330.0	9141.0	9430.7	9587.1	9764.6	9918.1	9893.4	9853.0	9839.3	9733.2	9561.5
C360.0	10088.5	9715.7	9242.0	8673.2	7951.1	7334.6	6785.5	6278.5	5786.8	5344.3
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	4842.3	4307.6	3640.5	3069.3	2565.1	2062.6	1605.0	1340.2	1118.6	1017.4
C30.0	7474.4	6805.6	6217.6	5711.5	5181.9	4627.6	4074.4	3571.9	2974.5	2638.4
C60.0	2092.0	2225.3	2349.7	2376.5	2141.0	1914.7	1758.3	1683.4	1634.0	1566.3
C90.0	3103.3	2554.0	2029.3	1814.4	1607.1	1479.9	1404.8	1318.2	1257.0	1207.4
C120.0	2557.6	2620.6	2632.6	2411.4	2121.0	1894.3	1804.4	1746.5	1688.1	1568.8
C150.0	8726.0	8682.6	8615.6	8428.7	8012.5	7315.0	6643.6	5968.4	5141.9	4124.4
C180.0	4897.8	4369.0	3756.9	3194.1	2728.0	2189.1	1682.0	1350.2	1099.3	992.7
C210.0	8292.3	7662.7	6927.0	6148.6	5413.3	4977.4	4624.3	4297.5	3586.9	3285.3
C240.0	3123.3	2985.3	2646.8	2140.1	1669.1	1261.9	1059.6	1015.6	988.2	933.3
C270.0	3015.1	2489.4	2066.3	1667.1	1439.7	1352.0	1260.4	1165.1	1196.5	1374.3
C300.0	3446.9	3255.1	2798.2	2220.3	1733.1	1356.1	1200.1	1171.1	1119.9	1041.5
C330.0	9351.9	9086.0	8717.1	8550.1	8718.4	8407.4	7516.2	6638.0	5616.4	4583.3
C360.0	4842.3	4307.6	3640.5	3069.3	2565.1	2062.6	1605.0	1340.2	1118.6	1017.4
C\G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	931.8	784.4	620.8	510.5	382.6	298.0	234.4	174.6	133.2	125.7
C30.0	2450.9	2335.0	2190.6	1998.6	1809.3	1614.1	1182.9	834.9	628.9	476.6
C60.0	1480.2	1370.2	1257.3	1117.3	1050.1	1093.7	1144.0	1157.4	1142.5	1131.6
C90.0	1074.6	965.5	877.7	775.5	673.2	570.2	474.5	403.2	348.1	302.9
C120.0	1448.7	1323.0	1174.4	1088.1	947.3	832.2	735.7	646.3	566.4	471.8
C150.0	3445.8	2862.9	2257.2	1718.5	1380.3	1060.0	749.0	515.5	369.8	318.5
C180.0	913.0	802.8	701.7	594.2	455.3	366.6	298.2	217.3	162.0	146.7
C210.0	2968.7	2418.7	1687.3	1104.0	780.0	607.7	463.6	390.1	359.6	326.9
C240.0	875.1	826.9	765.3	711.0	698.3	767.3	808.2	1080.0	1161.9	1243.7
C270.0	1801.5	2135.0	2194.4	1893.0	1437.3	1173.1	1134.6	1216.8	1313.1	1409.4
C300.0	956.1	868.2	815.6	843.9	1075.7	1205.3	1372.4	1501.7	1434.1	1181.2
C330.0	3480.8	2531.2	1801.0	1304.6	1066.9	897.3	760.7	591.7	477.0	430.9
C360.0	931.8	784.4	620.8	510.5	382.6	298.0	234.4	174.6	133.2	125.7

### Light intensity data Unit[cd]

C\G	G90.0	G91.0	G92.0	G93.0	G94.0	G95.0	G96.0	G97.0	G98.0	G99.0
C0.0	116.3	99.3	80.3	62.2	44.4	26.1	22.8	19.5	21.3	22.2
C30.0	358.3	261.9	134.3	78.5	44.2	29.3	25.3	24.0	25.0	25.8
C60.0	947.4	660.5	438.5	237.3	118.0	71.8	31.3	26.1	27.0	28.0
C90.0	251.4	214.6	191.9	181.2	335.4	337.3	339.2	32.0	26.8	21.7
C120.0	314.3	240.6	185.2	133.2	95.9	68.9	36.2	31.7	27.2	28.4
C150.0	277.8	221.3	132.1	53.3	34.6	26.6	23.5	24.4	24.8	25.5
C180.0	138.3	118.0	96.7	79.2	59.5	40.6	33.9	27.3	28.0	29.3
C210.0	324.0	266.7	192.4	151.2	94.0	66.6	46.9	23.2	23.0	23.2
C240.0	1114.2	940.6	953.3	1121.5	985.3	849.0	364.7	233.7	208.2	168.3
C270.0	1336.5	678.3	416.4	356.6	313.8	279.4	258.6	220.2	174.4	136.1
C300.0	1027.0	1019.6	1096.1	1172.6	1110.5	505.3	285.9	238.9	226.0	193.2
C330.0	350.5	291.1	245.8	182.3	135.8	104.7	86.8	65.3	23.3	22.6
C360.0	116.3	99.3	80.3	62.2	44.4	26.1	22.8	19.5	21.3	22.2
C\G	G100.0	G101.0	G102.0	G103.0	G104.0	G105.0	G106.0	G107.0	G108.0	G109.0
C0.0	24.3	25.4	26.1	27.5	28.6	29.5	30.2	31.2	31.9	32.2
C30.0	26.5	27.5	28.1	28.7	29.4	30.1	31.2	31.7	32.2	32.8
C60.0	29.1	30.1	31.6	32.7	34.2	35.2	36.6	37.5	39.5	40.4
C90.0	23.5	24.4	26.1	28.0	29.5	31.6	33.5	35.2	36.8	39.2
C120.0	30.1	31.0	32.8	34.4	35.7	36.8	38.9	40.3	41.1	42.6
C150.0	26.9	27.0	28.1	29.5	29.5	30.4	31.6	32.3	33.1	34.4
C180.0	30.6	32.3	33.3	34.2	35.2	36.3	37.0	38.1	38.9	40.0
C210.0	23.5	23.9	24.6	24.4	24.6	25.0	25.1	25.7	25.7	26.1
C240.0	147.0	108.9	60.2	37.7	26.7	21.4	19.0	16.6	17.1	17.5
C270.0	121.0	120.7	115.9	107.9	81.8	55.6	14.4	14.2	13.9	14.1
C300.0	167.1	122.0	98.7	54.8	15.6	15.6	16.3	16.7	17.5	17.5
C330.0	22.8	22.9	22.8	23.0	23.5	23.7	24.3	23.6	24.3	24.3
C360.0	24.3	25.4	26.1	27.5	28.6	29.5	30.2	31.2	31.9	32.2
C\G	G110.0	G111.0	G112.0	G113.0	G114.0	G115.0	G116.0	G117.0	G118.0	G119.0
C0.0	33.1	33.8	34.1	34.8	34.8	35.6	35.9	35.9	36.3	37.4
C30.0	33.9	34.5	35.0	36.0	36.6	38.4	38.4	39.2	40.0	40.8
C60.0	41.8	43.1	44.0	45.8	45.9	46.8	47.7	48.6	49.1	49.8
C90.0	40.8	43.5	44.6	46.9	48.2	50.0	51.3	52.8	53.7	54.8
C120.0	44.2	45.7	47.5	48.2	50.0	50.4	51.3	51.9	53.3	54.0
C150.0	34.8	36.0	37.0	37.5	38.5	39.7	40.8	41.4	42.2	43.9
C180.0	40.3	40.6	41.1	41.9	42.2	42.5	42.8	43.1	43.5	43.6
C210.0	26.1	26.4	26.8	27.0	27.7	27.9	28.1	29.0	29.0	29.4
C240.0	18.1	18.8	19.3	19.7	20.1	20.8	21.3	21.9	22.5	23.0
C270.0	14.4	15.2	14.8	15.2	15.0	15.7	15.6	15.7	16.0	16.0
C300.0	18.1	18.2	18.8	19.3	19.9	20.0	20.8	21.0	21.5	21.9
C330.0	24.6	24.8	25.4	25.7	26.1	26.9	27.2	27.7	27.9	28.4
C360.0	33.1	33.8	34.1	34.8	34.8	35.6	35.9	35.9	36.3	37.4

## Light intensity data Unit[cd]

C\G	G120.0	G121.0	G122.0	G123.0	G124.0	G125.0	G126.0	G127.0	G128.0	G129.0
C0.0	37.0	37.0	37.5	37.5	37.8	38.4	38.2	38.1	39.1	38.5
C30.0	41.5	42.9	43.5	44.4	44.7	45.8	46.9	46.8	47.2	48.2
C60.0	50.4	50.8	51.3	51.5	51.6	51.7	52.0	52.0	52.2	52.2
C90.0	56.2	56.7	56.9	57.5	58.1	58.2	58.0	58.1	58.1	57.7
C120.0	54.2	54.8	55.6	55.9	56.4	56.7	56.7	57.1	56.9	56.6
C150.0	43.7	44.7	45.3	45.9	46.4	47.5	47.5	48.2	49.0	49.7
C180.0	43.7	43.9	44.7	44.2	44.3	45.1	44.6	44.8	44.3	45.5
C210.0	29.9	30.2	30.6	31.5	31.7	32.7	32.7	33.1	33.9	34.5
C240.0	23.9	24.6	25.3	25.8	26.5	27.0	28.1	28.3	28.8	29.5
C270.0	16.6	17.1	17.0	16.8	17.9	17.7	18.4	18.2	18.8	19.3
C300.0	22.2	22.8	23.7	23.3	24.0	24.6	25.0	25.5	26.1	26.5
C330.0	28.6	29.3	29.4	29.9	30.2	30.6	30.9	31.3	32.0	32.2
C360.0	37.0	37.0	37.5	37.5	37.8	38.4	38.2	38.1	39.1	38.5
C\G	G130.0	G131.0	G132.0	G133.0	G134.0	G135.0	G136.0	G137.0	G138.0	G139.0
C0.0	39.6	38.9	39.2	39.5	40.0	40.8	40.6	41.0	41.5	42.2
C30.0	49.0	49.8	49.7	50.5	51.5	52.0	52.7	53.5	54.4	55.1
C60.0	53.0	52.8	53.3	53.5	54.0	54.5	54.6	54.8	55.2	55.5
C90.0	57.5	57.8	56.4	56.3	56.3	55.3	55.1	54.6	54.0	53.8
C120.0	57.3	57.0	57.1	56.4	56.6	56.6	56.4	56.0	55.7	55.5
C150.0	50.2	51.1	52.4	52.6	53.3	54.8	55.3	56.0	56.4	57.4
C180.0	44.8	44.8	45.4	45.8	45.4	45.8	45.8	46.9	46.6	46.9
C210.0	34.9	35.7	36.3	37.0	37.7	38.2	38.9	39.5	40.2	40.7
C240.0	29.9	30.4	31.0	31.3	31.9	33.3	32.7	33.7	33.4	33.5
C270.0	19.5	19.7	20.0	20.7	21.4	21.8	22.6	22.6	23.2	24.0
C300.0	26.9	28.1	27.9	28.6	28.8	29.5	29.1	29.7	29.8	29.9
C330.0	33.1	32.7	33.3	33.8	34.2	34.5	34.9	35.2	35.6	36.4
C360.0	39.6	38.9	39.2	39.5	40.0	40.8	40.6	41.0	41.5	42.2
C\G	G140.0	G141.0	G142.0	G143.0	G144.0	G145.0	G146.0	G147.0	G148.0	G149.0
C0.0	42.8	43.9	44.0	45.0	45.0	45.4	45.9	46.5	46.5	46.8
C30.0	56.0	56.6	57.4	58.1	58.6	59.3	59.9	60.3	60.7	60.6
C60.0	56.4	56.4	56.9	57.7	58.2	59.5	59.5	60.0	60.6	61.1
C90.0	53.3	53.3	53.0	53.4	53.4	53.4	54.0	54.4	54.9	55.6
C120.0	55.5	55.7	55.2	55.2	55.1	55.2	55.9	55.9	56.3	56.7
C150.0	57.7	58.1	58.6	59.1	59.7	59.6	60.7	60.0	60.6	60.0
C180.0	47.7	48.0	48.2	49.0	49.3	49.5	50.1	50.1	50.5	50.6
C210.0	41.1	41.5	42.5	42.4	42.8	43.5	43.3	43.1	43.7	43.1
C240.0	34.5	34.5	34.1	34.6	34.2	34.8	34.1	33.8	33.9	33.9
C270.0	24.7	24.8	25.1	25.8	25.8	26.5	27.0	27.2	27.5	27.9
C300.0	30.8	30.4	30.8	30.5	30.6	30.9	31.3	30.9	30.9	30.8
C330.0	37.3	37.0	37.4	37.8	38.6	38.2	38.5	38.5	39.1	38.4
C360.0	42.8	43.9	44.0	45.0	45.0	45.4	45.9	46.5	46.5	46.8



## Light intensity data Unit[cd]

C\G	G150.0	G151.0	G152.0	G153.0	G154.0	G155.0	G156.0	G157.0	G158.0	G159.0
C0.0	46.9	47.1	47.3	47.1	46.9	46.5	46.1	45.9	45.3	44.7
C30.0	61.4	61.0	60.4	60.2	59.7	58.9	58.5	58.0	56.7	56.0
C60.0	62.0	61.7	62.1	62.1	62.4	62.2	62.5	62.4	61.7	61.3
C90.0	56.6	57.1	58.4	59.2	59.2	59.5	59.5	59.7	60.2	60.2
C120.0	57.4	57.7	58.0	58.1	58.4	58.4	59.5	58.9	58.9	58.9
C150.0	59.9	59.9	59.5	59.9	59.3	58.4	57.7	57.0	56.3	55.6
C180.0	51.2	50.5	50.9	50.6	50.5	49.7	49.5	49.3	48.4	47.5
C210.0	42.8	43.1	42.5	42.1	42.4	41.5	41.7	40.6	40.4	40.3
C240.0	33.5	33.4	33.0	32.8	32.6	32.3	32.3	32.8	32.0	31.7
C270.0	28.4	28.4	28.7	28.7	29.0	29.8	29.4	29.4	30.1	29.4
C300.0	31.3	31.0	30.6	30.6	31.2	30.5	30.6	30.5	30.2	30.5
C330.0	38.5	38.5	38.8	38.4	37.8	37.8	37.5	37.1	37.1	37.0
C360.0	46.9	47.1	47.3	47.1	46.9	46.5	46.1	45.9	45.3	44.7
C\G	G160.0	G161.0	G162.0	G163.0	G164.0	G165.0	G166.0	G167.0	G168.0	G169.0
C0.0	44.3	44.0	42.8	42.2	41.5	41.5	41.1	39.9	40.2	39.1
C30.0	54.8	53.8	52.8	51.7	50.6	49.7	48.8	48.3	46.9	46.2
C60.0	60.7	61.0	59.7	58.4	57.4	56.4	56.0	54.0	53.0	51.5
C90.0	59.9	60.3	59.5	58.6	58.0	57.0	55.9	54.6	53.8	52.4
C120.0	58.4	58.2	57.7	57.4	56.3	55.7	54.9	54.0	53.1	51.7
C150.0	55.2	53.3	52.4	51.3	50.2	49.4	48.3	47.2	46.5	45.3
C180.0	47.1	46.5	45.5	44.8	44.2	43.6	43.2	42.2	41.7	41.0
C210.0	39.3	38.5	38.5	37.9	37.5	37.5	37.1	37.0	37.0	37.4
C240.0	31.7	31.9	31.2	30.9	31.6	31.2	31.2	31.7	32.2	32.2
C270.0	29.8	29.7	29.7	29.8	30.2	30.1	30.4	30.8	31.0	31.3
C300.0	29.9	29.8	29.9	29.8	30.2	30.2	30.6	30.6	31.0	31.9
C330.0	36.2	35.7	35.5	35.0	35.2	34.9	34.8	35.3	34.9	34.9
C360.0	44.3	44.0	42.8	42.2	41.5	41.5	41.1	39.9	40.2	39.1
C\G	G170.0	G171.0	G172.0	G173.0	G174.0	G175.0	G176.0	G177.0	G178.0	G179.0
C0.0	38.8	38.4	38.1	38.5	38.2	38.1	37.9	37.8	37.9	38.4
C30.0	44.8	44.2	43.7	42.9	42.1	41.5	40.8	40.3	40.0	39.3
C60.0	50.9	49.0	47.7	46.8	45.5	44.3	43.3	42.4	41.9	40.4
C90.0	50.8	49.3	48.0	46.5	45.1	43.9	42.8	41.4	40.3	39.7
C120.0	50.5	49.4	48.4	47.3	45.7	44.3	43.3	43.1	41.7	40.4
C150.0	44.3	44.3	43.1	42.2	41.4	40.8	40.0	39.6	39.2	38.4
C180.0	40.8	40.3	39.6	39.5	39.9	39.3	38.9	38.8	38.4	38.2
C210.0	36.8	36.8	37.1	37.0	37.3	37.7	37.8	38.2	38.5	38.9
C240.0	32.4	32.8	33.7	33.9	34.5	35.0	35.9	36.6	37.3	38.5
C270.0	31.9	32.2	32.6	33.5	34.1	34.6	35.7	36.2	37.0	37.8
C300.0	32.2	33.0	33.1	33.7	34.2	35.3	36.0	36.6	37.5	38.5
C330.0	34.8	35.3	35.6	35.7	36.0	36.4	37.0	37.1	37.5	37.9
C360.0	38.8	38.4	38.1	38.5	38.2	38.1	37.9	37.8	37.9	38.4

## Light intensity data Unit[cd]

C\G	G180.0									
C0.0	38.6									
C30.0	39.5									
C60.0	39.6									
C90.0	39.3									
C120.0	39.6									
C150.0	38.6									
C180.0	38.1									
C210.0	39.2									
C240.0	38.8									
C270.0	38.8									
C300.0	39.1									
C330.0	38.5									
C360.0	38.6									



## Zonal Luminous Flux Data

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	3148.34	0.00	0.00	0.00	0.00
0.0-1.0	3140.28	3.01	3.01	0.01	0.01
1.0-2.0	3140.38	9.01	12.02	0.03	0.04
2.0-3.0	3134.52	15.01	27.03	0.05	0.09
3.0-4.0	3122.36	20.94	47.97	0.07	0.17
4.0-5.0	3108.40	26.80	74.78	0.09	0.26
5.0-6.0	3097.34	32.61	107.39	0.11	0.38
6.0-7.0	3087.13	38.39	145.78	0.13	0.51
7.0-8.0	3081.68	44.15	189.93	0.15	0.66
8.0-9.0	3070.69	49.86	239.79	0.17	0.84
9.0-10.0	3062.25	55.50	295.29	0.19	1.03
10.0-11.0	3061.23	61.19	356.48	0.21	1.25
11.0-12.0	3063.84	66.96	423.43	0.23	1.48
12.0-13.0	3070.59	72.80	496.23	0.25	1.73
13.0-14.0	3080.37	78.73	574.96	0.28	2.01
14.0-15.0	3106.39	84.93	659.90	0.30	2.31
15.0-16.0	3153.32	91.72	751.62	0.32	2.63
16.0-17.0	3196.43	98.88	850.50	0.35	2.97
17.0-18.0	3233.22	106.01	956.51	0.37	3.34
18.0-19.0	3256.48	112.91	1069.42	0.39	3.74
19.0-20.0	3279.06	119.62	1189.04	0.42	4.15
20.0-21.0	3293.03	126.20	1315.24	0.44	4.59
21.0-22.0	3310.13	132.69	1447.93	0.46	5.06
22.0-23.0	3351.49	139.78	1587.71	0.49	5.55
23.0-24.0	3415.25	147.95	1735.66	0.52	6.06
24.0-25.0	3487.44	156.95	1892.61	0.55	6.61
25.0-26.0	3555.08	166.24	2058.85	0.58	7.19
26.0-27.0	3627.35	175.72	2234.57	0.61	7.81
27.0-28.0	3738.02	186.48	2421.04	0.65	8.46
28.0-29.0	3855.60	198.67	2619.71	0.69	9.15
29.0-30.0	3964.35	211.14	2830.85	0.74	9.89
30.0-31.0	4068.21	223.53	3054.39	0.78	10.67
31.0-32.0	4179.44	236.29	3290.67	0.83	11.49
32.0-33.0	4291.32	249.55	3540.22	0.87	12.37
33.0-34.0	4413.60	263.44	3803.66	0.92	13.29
34.0-35.0	4541.42	278.11	4081.77	0.97	14.26
35.0-36.0	4655.61	292.84	4374.60	1.02	15.28
36.0-37.0	4757.34	307.00	4681.60	1.07	16.35
37.0-38.0	4858.58	320.97	5002.57	1.12	17.47
38.0-39.0	4996.63	336.39	5338.95	1.18	18.65
39.0-40.0	5125.95	353.04	5691.99	1.23	19.88

## Zonal Luminous Flux Data

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	5250.18	369.49	6061.48	1.29	21.17
41.0-42.0	5380.32	386.22	6447.71	1.35	22.52
42.0-43.0	5512.91	403.52	6851.23	1.41	23.93
43.0-44.0	5681.60	422.51	7273.74	1.48	25.41
44.0-45.0	5878.16	444.25	7717.99	1.55	26.96
45.0-46.0	6094.72	468.23	8186.22	1.64	28.59
46.0-47.0	6339.11	494.53	8680.75	1.73	30.32
47.0-48.0	6572.99	521.97	9202.72	1.82	32.15
48.0-49.0	6808.96	549.54	9752.26	1.92	34.07
49.0-50.0	7012.18	576.25	10328.51	2.01	36.08
50.0-51.0	7183.75	600.61	10929.12	2.10	38.18
51.0-52.0	7375.83	624.76	11553.88	2.18	40.36
52.0-53.0	7568.35	650.07	12203.95	2.27	42.63
53.0-54.0	7704.55	673.17	12877.12	2.35	44.98
54.0-55.0	7830.14	693.44	13570.56	2.42	47.40
55.0-56.0	7944.63	712.82	14283.38	2.49	49.89
56.0-57.0	7937.23	726.16	15009.53	2.54	52.43
57.0-58.0	7903.39	732.53	15742.06	2.56	54.99
58.0-59.0	7830.42	735.57	16477.63	2.57	57.56
59.0-60.0	7705.09	733.95	17211.58	2.56	60.12
60.0-61.0	7536.15	727.34	17938.92	2.54	62.66
61.0-62.0	7303.59	715.07	18653.98	2.50	65.16
62.0-63.0	7048.32	698.01	19351.99	2.44	67.60
63.0-64.0	6791.46	679.11	20031.10	2.37	69.97
64.0-65.0	6486.65	657.12	20688.22	2.30	72.27
65.0-66.0	6142.92	630.13	21318.35	2.20	74.47
66.0-67.0	5852.00	603.14	21921.49	2.11	76.57
67.0-68.0	5605.35	580.39	22501.88	2.03	78.60
68.0-69.0	5364.20	559.61	23061.49	1.95	80.56
69.0-70.0	5076.90	536.24	23597.73	1.87	82.43
70.0-71.0	4753.59	508.09	24105.82	1.77	84.20
71.0-72.0	4366.48	474.22	24580.04	1.66	85.86
72.0-73.0	3977.68	436.34	25016.38	1.52	87.38
73.0-74.0	3610.85	398.95	25415.32	1.39	88.78
74.0-75.0	3236.50	361.79	25777.11	1.26	90.04
75.0-76.0	2886.09	325.01	26102.12	1.14	91.18
76.0-77.0	2605.51	292.79	26394.91	1.02	92.20
77.0-78.0	2285.12	261.80	26656.70	0.91	93.11
78.0-79.0	2027.75	231.73	26888.43	0.81	93.92
79.0-80.0	1818.94	207.38	27095.81	0.72	94.65
80.0-81.0	1601.99	185.00	27280.81	0.65	95.29

## Zonal Luminous Flux Data

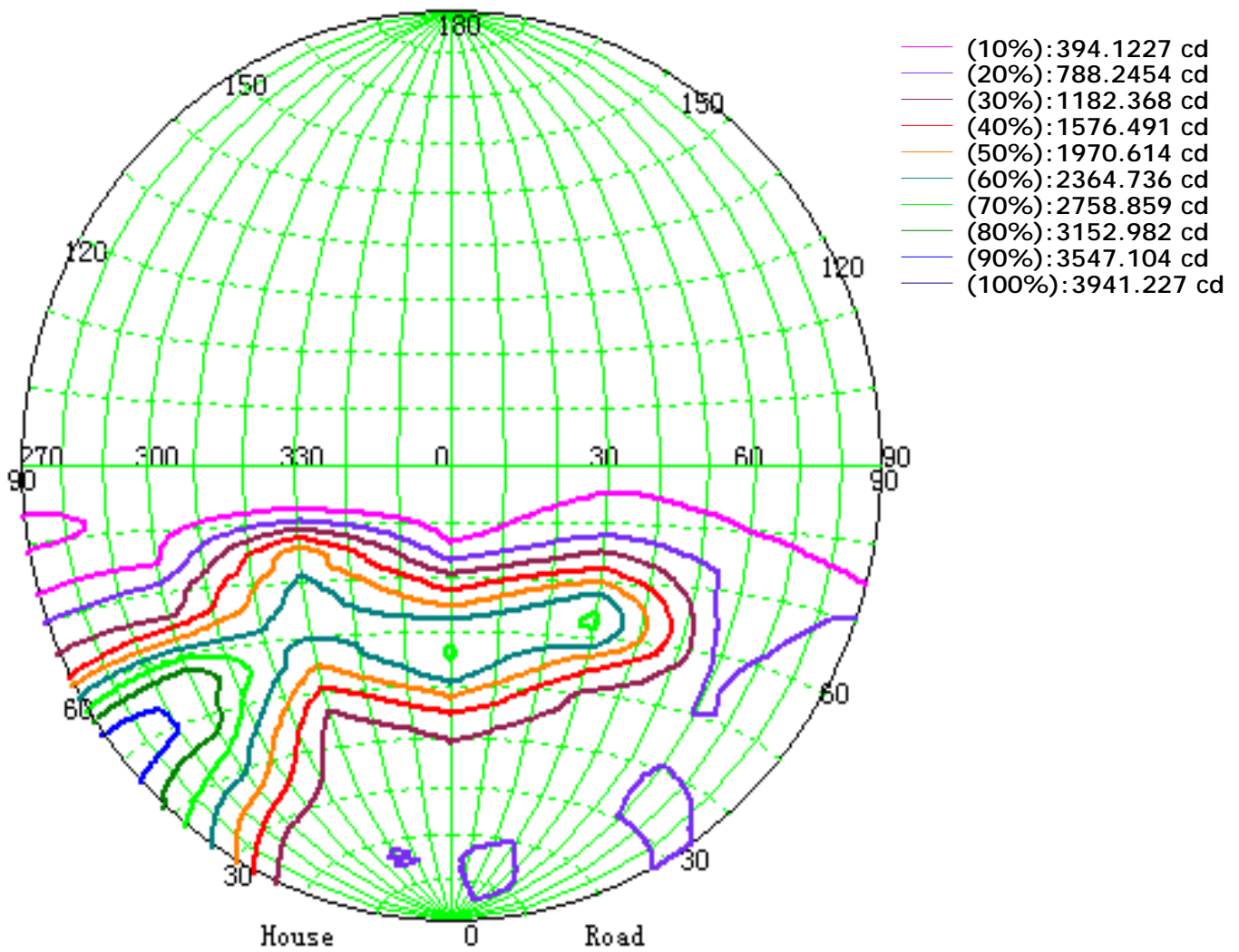
Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
81.0-82.0	1361.93	160.73	27441.54	0.56	95.85
82.0-83.0	1138.27	135.91	27577.45	0.47	96.33
83.0-84.0	979.69	115.38	27692.83	0.40	96.73
84.0-85.0	873.80	101.16	27793.99	0.35	97.09
85.0-86.0	779.87	90.39	27884.39	0.32	97.40
86.0-87.0	727.46	82.49	27966.88	0.29	97.69
87.0-88.0	674.72	76.81	28043.69	0.27	97.96
88.0-89.0	630.49	71.54	28115.23	0.25	98.21
89.0-90.0	546.34	64.52	28179.75	0.23	98.43
90.0-91.0	417.73	52.86	28232.61	0.18	98.62
91.0-92.0	346.91	41.91	28274.52	0.15	98.76
92.0-93.0	317.42	36.39	28310.91	0.13	98.89
93.0-94.0	280.94	32.75	28343.66	0.11	99.01
94.0-95.0	200.46	26.31	28369.97	0.09	99.10
95.0-96.0	129.58	18.01	28387.99	0.06	99.16
96.0-97.0	80.52	11.45	28399.43	0.04	99.20
97.0-98.0	69.60	8.16	28407.59	0.03	99.23
98.0-99.0	60.36	7.05	28414.64	0.02	99.25
99.0-100.0	56.02	6.29	28420.93	0.02	99.28
100.0-101.0	49.67	5.70	28426.63	0.02	99.30
101.0-102.0	44.02	5.03	28431.66	0.02	99.31
102.0-103.0	38.57	4.42	28436.08	0.02	99.33
103.0-104.0	32.85	3.81	28439.89	0.01	99.34
104.0-105.0	30.93	3.39	28443.28	0.01	99.35
105.0-106.0	28.16	3.12	28446.40	0.01	99.36
106.0-107.0	28.59	2.98	28449.38	0.01	99.38
107.0-108.0	29.33	3.03	28452.42	0.01	99.39
108.0-109.0	30.09	3.09	28455.51	0.01	99.40
109.0-110.0	30.84	3.15	28458.66	0.01	99.41
110.0-111.0	31.70	3.21	28461.87	0.01	99.42
111.0-112.0	32.36	3.27	28465.14	0.01	99.43
112.0-113.0	33.17	3.32	28468.46	0.01	99.44
113.0-114.0	33.75	3.37	28471.82	0.01	99.45
114.0-115.0	34.55	3.41	28475.23	0.01	99.47
115.0-116.0	35.11	3.45	28478.67	0.01	99.48
116.0-117.0	35.68	3.47	28482.15	0.01	99.49
117.0-118.0	36.24	3.50	28485.65	0.01	99.50
118.0-119.0	36.92	3.53	28489.18	0.01	99.51
119.0-120.0	37.32	3.54	28492.72	0.01	99.53
120.0-121.0	37.89	3.55	28496.28	0.01	99.54
121.0-122.0	38.39	3.57	28499.84	0.01	99.55

## Zonal Luminous Flux Data

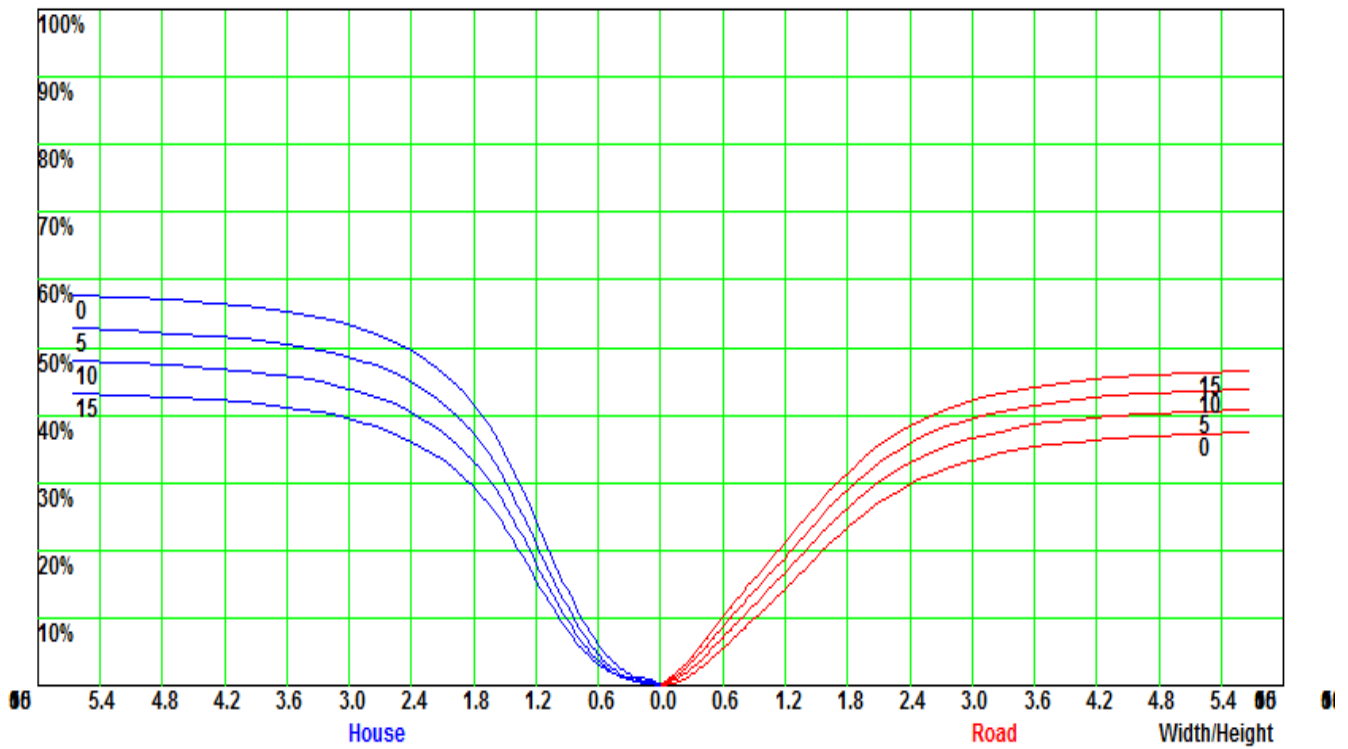
Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
122.0-123.0	38.69	3.56	28503.41	0.01	99.56
123.0-124.0	39.14	3.56	28506.97	0.01	99.58
124.0-125.0	39.67	3.56	28510.53	0.01	99.59
125.0-126.0	39.91	3.55	28514.08	0.01	99.60
126.0-127.0	40.13	3.53	28517.61	0.01	99.61
127.0-128.0	40.52	3.51	28521.12	0.01	99.63
128.0-129.0	40.86	3.49	28524.61	0.01	99.64
129.0-130.0	41.31	3.48	28528.09	0.01	99.65
130.0-131.0	41.58	3.46	28531.54	0.01	99.66
131.0-132.0	41.83	3.43	28534.97	0.01	99.67
132.0-133.0	42.17	3.40	28538.37	0.01	99.69
133.0-134.0	42.58	3.37	28541.74	0.01	99.70
134.0-135.0	43.10	3.35	28545.09	0.01	99.71
135.0-136.0	43.24	3.32	28548.41	0.01	99.72
136.0-137.0	43.63	3.28	28551.69	0.01	99.73
137.0-138.0	43.83	3.24	28554.93	0.01	99.74
138.0-139.0	44.25	3.20	28558.13	0.01	99.76
139.0-140.0	44.81	3.17	28561.30	0.01	99.77
140.0-141.0	45.02	3.13	28564.43	0.01	99.78
141.0-142.0	45.26	3.08	28567.51	0.01	99.79
142.0-143.0	45.71	3.04	28570.55	0.01	99.80
143.0-144.0	45.95	2.99	28573.54	0.01	99.81
144.0-145.0	46.32	2.94	28576.47	0.01	99.82
145.0-146.0	46.68	2.89	28579.36	0.01	99.83
146.0-147.0	46.72	2.83	28582.19	0.01	99.84
147.0-148.0	47.10	2.76	28584.95	0.01	99.85
148.0-149.0	47.12	2.70	28587.66	0.01	99.86
149.0-150.0	47.49	2.63	28590.29	0.01	99.87
150.0-151.0	47.44	2.56	28592.85	0.01	99.88
151.0-152.0	47.51	2.48	28595.33	0.01	99.89
152.0-153.0	47.48	2.40	28597.74	0.01	99.89
153.0-154.0	47.44	2.32	28600.06	0.01	99.90
154.0-155.0	47.12	2.23	28602.30	0.01	99.91
155.0-156.0	47.06	2.14	28604.44	0.01	99.92
156.0-157.0	46.80	2.05	28606.49	0.01	99.92
157.0-158.0	46.44	1.96	28608.45	0.01	99.93
158.0-159.0	46.09	1.86	28610.30	0.01	99.94
159.0-160.0	45.60	1.76	28612.06	0.01	99.94
160.0-161.0	45.22	1.66	28613.72	0.01	99.95
161.0-162.0	44.60	1.56	28615.29	0.01	99.95
162.0-163.0	44.01	1.46	28616.75	0.01	99.96



### Iso-Candela [cd]

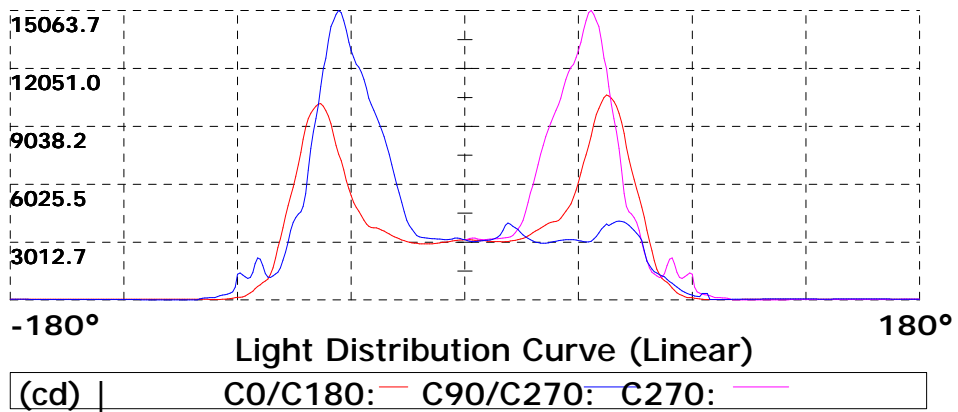
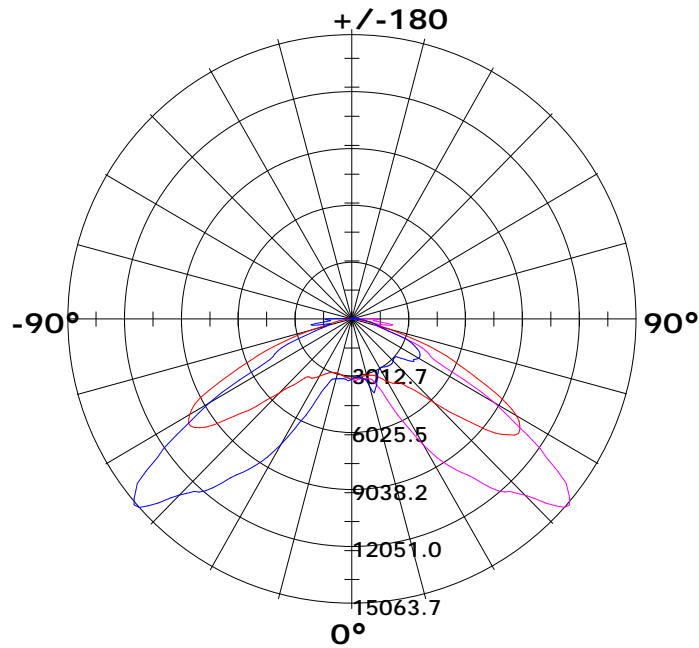


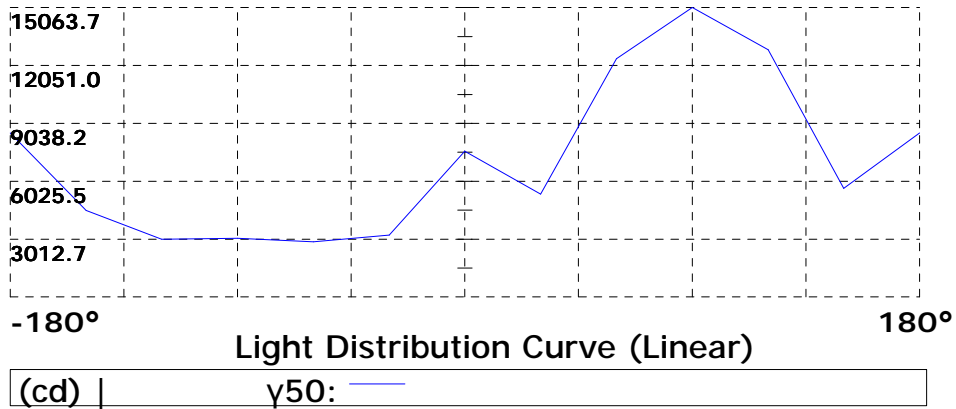
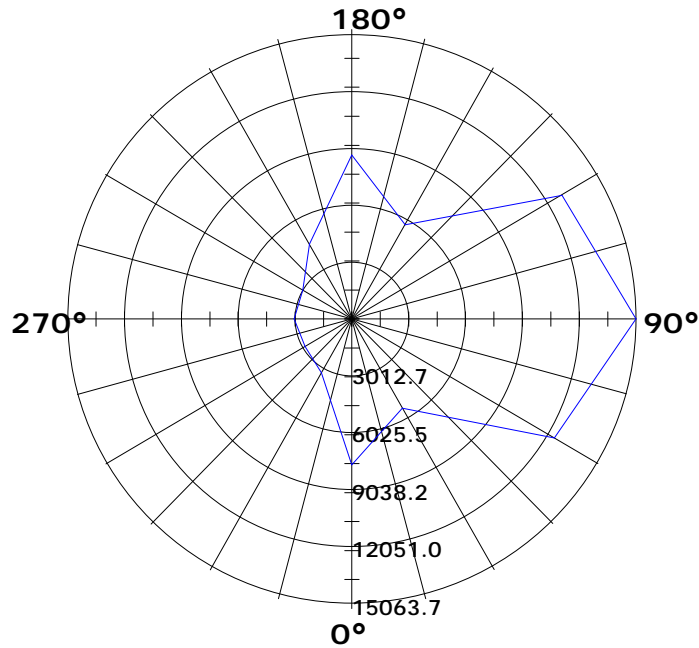
## Coefficient Utilization Curve



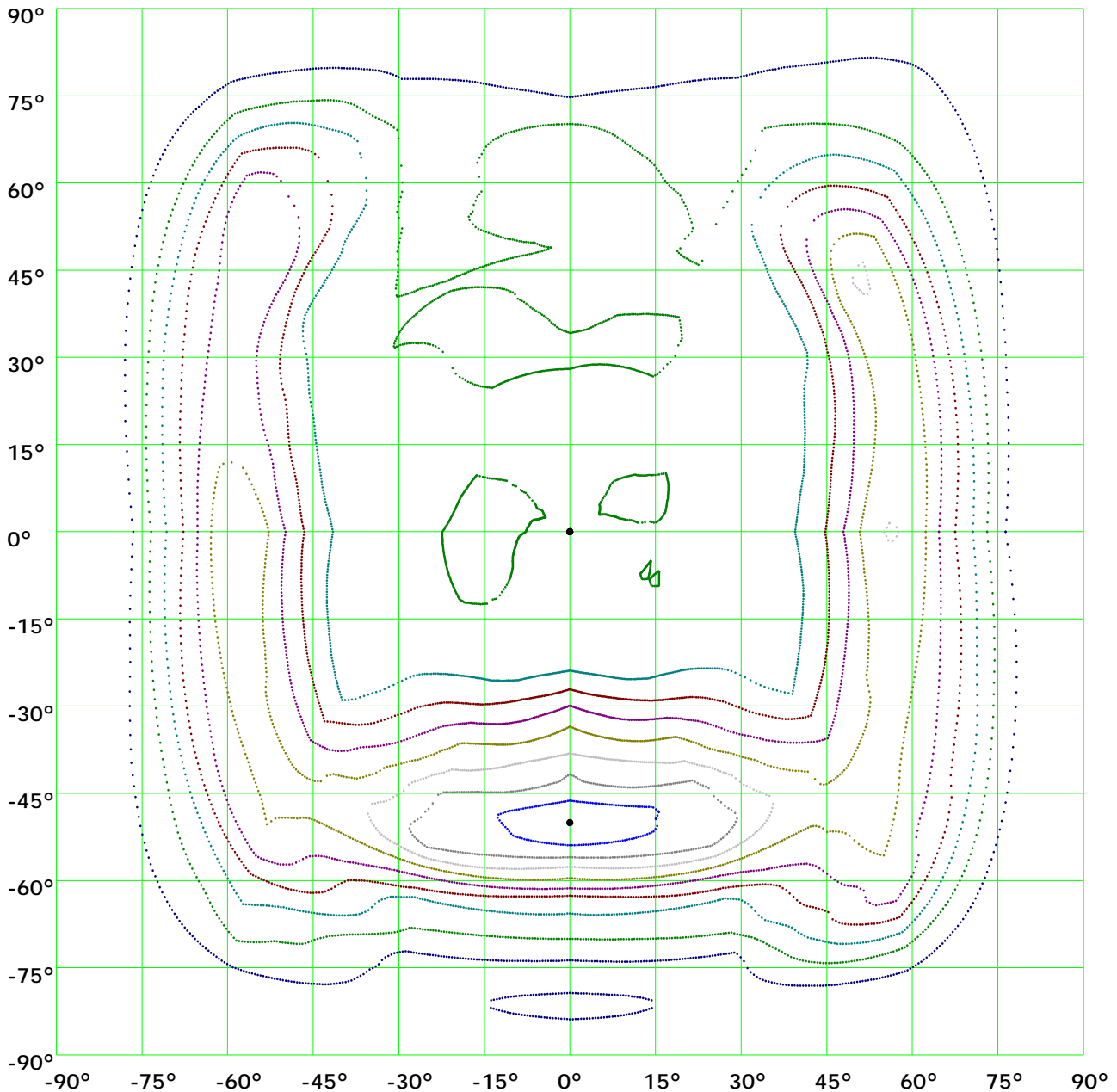


Light Distribution Curve [Unit: cd]



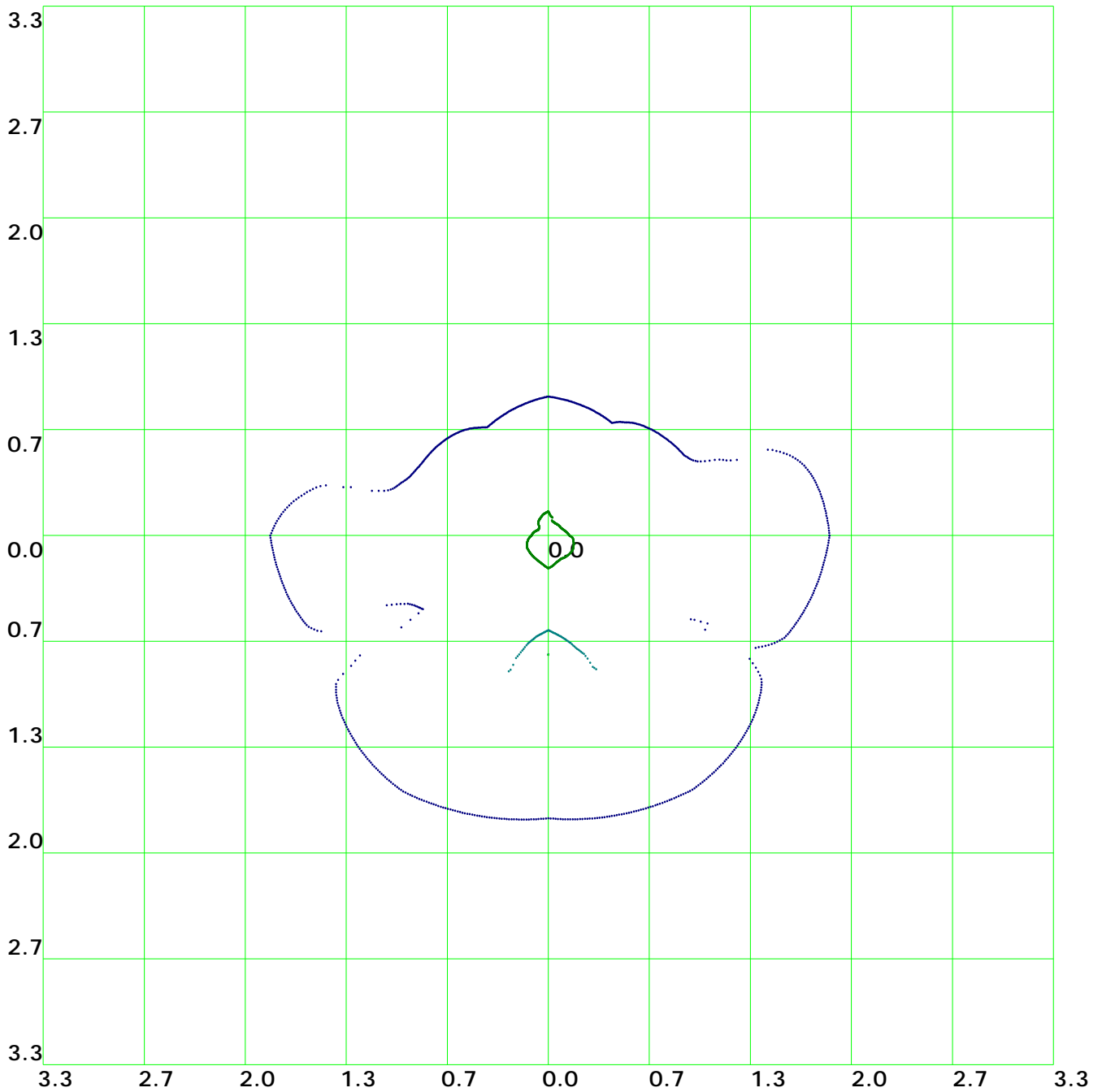


## Isocandela(rectangle)



— (10%): 1506.4cd	— (20%): 3012.7cd	— (30%): 4519.1cd	— (40%): 6025.5cd
— (50%): 7531.8cd	— (60%): 9038.2cd	— (70%): 10544.6cd	— (80%): 12050.9cd
— (90%): 13557.3cd	— (100%): 15063.7cd		

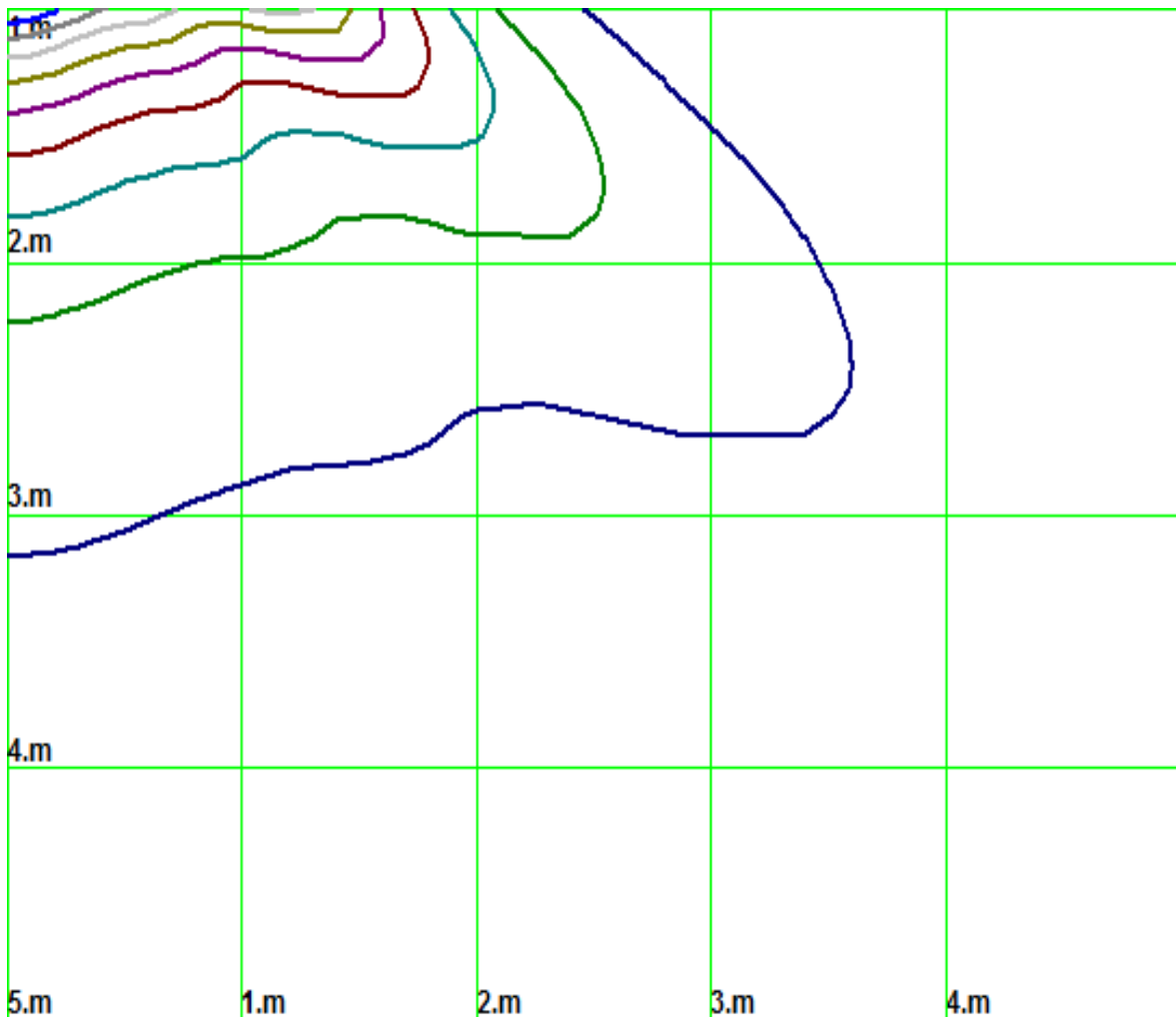
### Isolx curve



Height: 1 m

- (10%): 1506.4lx    — (20%): 3012.7lx    — (30%): 4519.1lx    — (40%): 6025.5lx
- (50%): 7531.8lx    — (60%): 9038.2lx    — (70%): 10544.6lx    — (80%): 12050.9lx
- (90%): 13557.3lx    — (100%): 15048.6lx

## Space Isolx Curve



(10%): 1506.4lx    (20%): 3012.7lx    (30%): 4519.1lx    (40%): 6025.5lx  
 (50%): 7531.8lx    (60%): 9038.2lx    (70%): 10544.6lx    (80%): 12050.9lx  
 (90%): 13557.3lx    (100%): 15048.6lx

## Luminance Limiting Curve

Diameter: 345mm

Length: 345mm

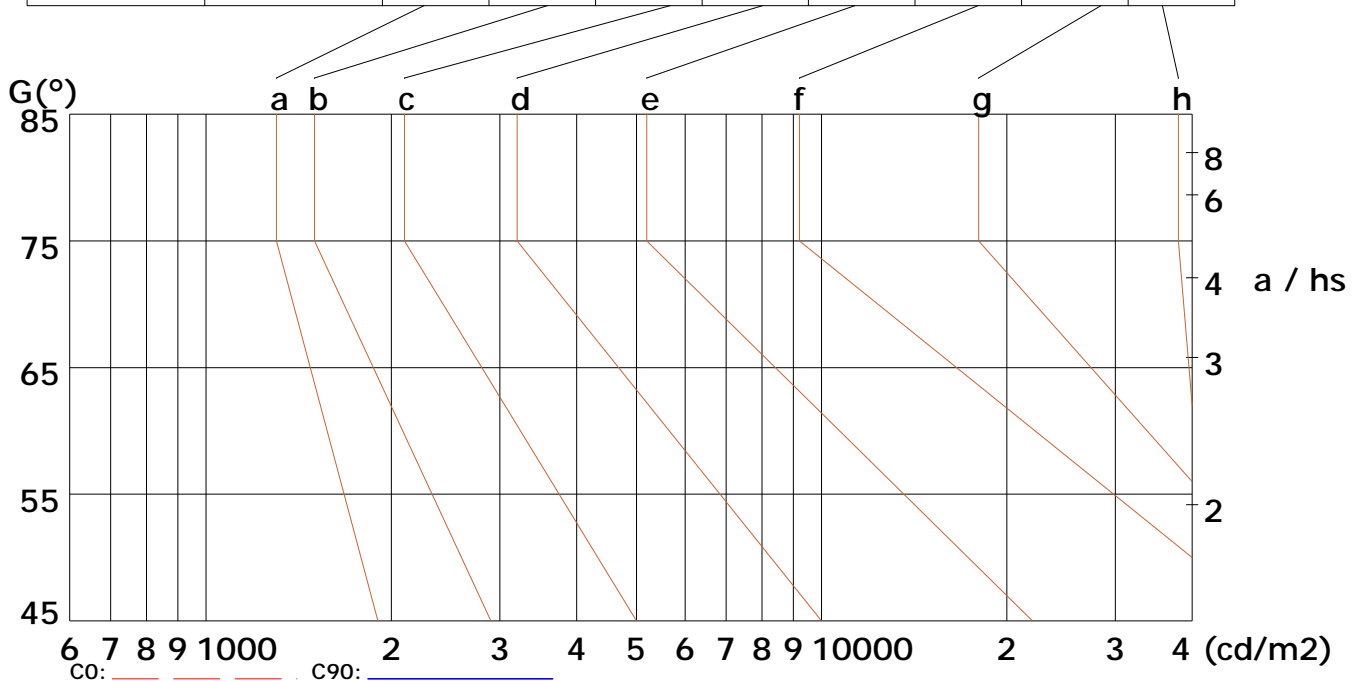
Width: 163mm

Height: 172mm

(cd/m<sup>2</sup>)

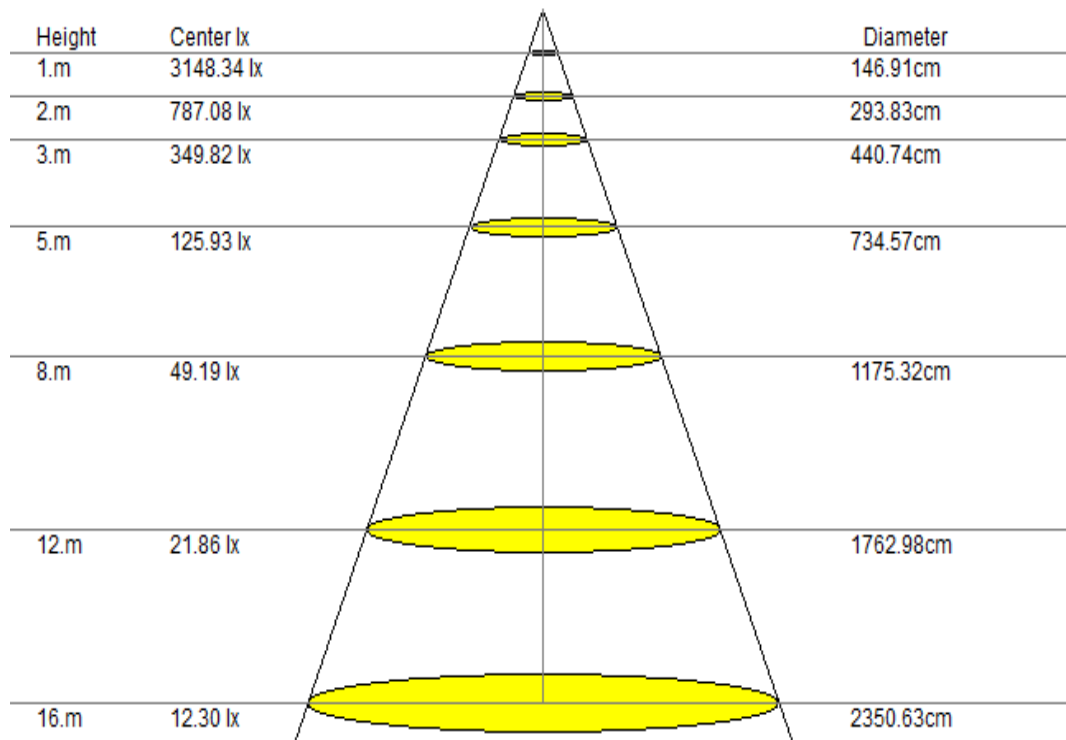
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	10957	11190	4366	7820	4335	2305	6226	8351	4294
C90	21678	13205	7459	2170	4425	3387	8539	4999	2321

Glare	Quality	Service Values Illuminance (lx)							
		2000	1000	500	≤300				
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)

## Lux-Distance Curve



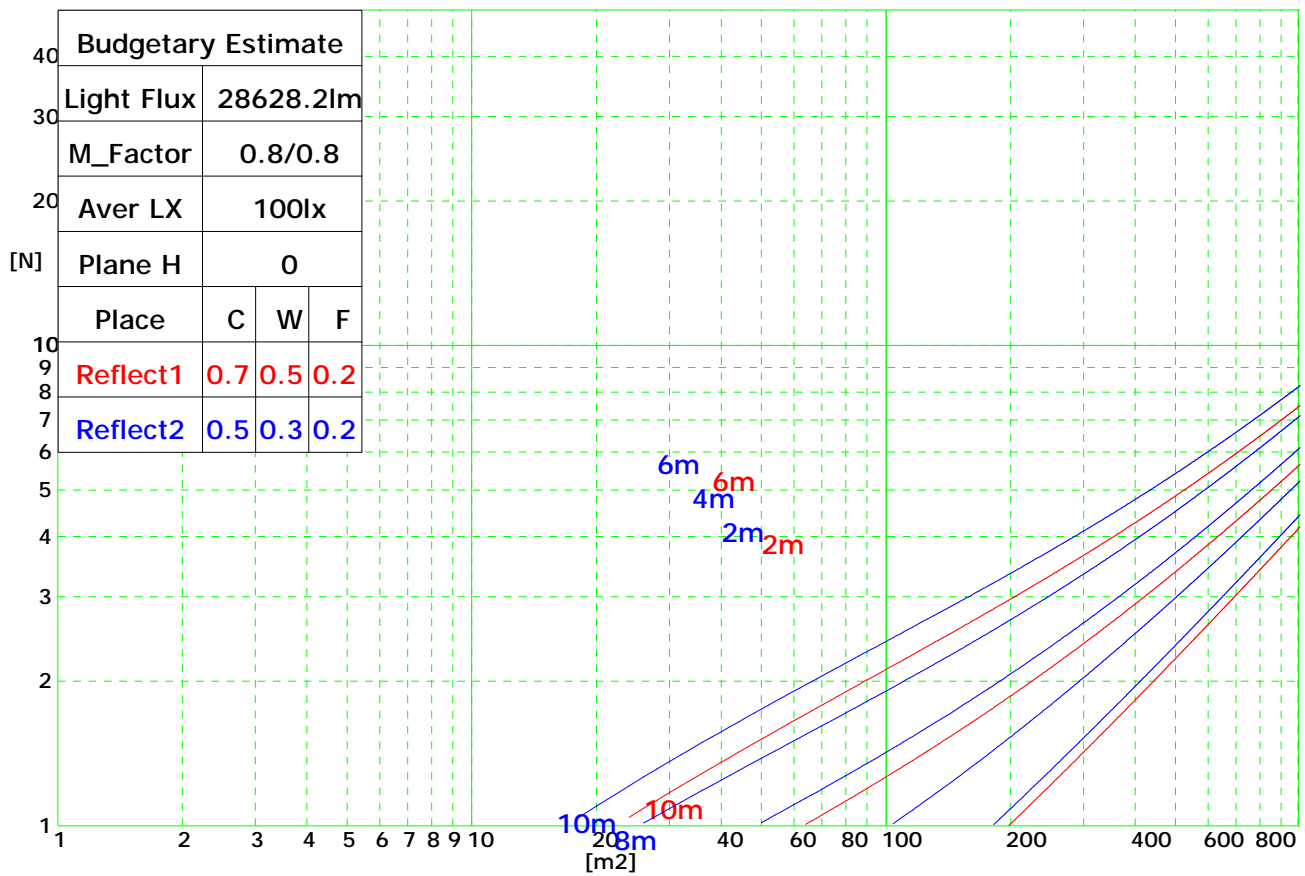
Beam Angle: 72.60°(50%Imax)



## Coefficients of Utilization

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	0.98	0.95	0.93	0.97	0.94	0.92	0.94	0.91	0.88	0.89	0.86	0.84	0.84	0.80	0.78	0.72
2	0.77	0.74	0.72	0.77	0.73	0.70	0.76	0.71	0.68	0.74	0.69	0.64	0.70	0.65	0.60	0.55
3	0.62	0.58	0.56	0.63	0.58	0.55	0.63	0.57	0.53	0.62	0.55	0.50	0.59	0.53	0.47	0.43
4	0.50	0.47	0.44	0.51	0.47	0.43	0.52	0.46	0.42	0.52	0.46	0.40	0.51	0.44	0.38	0.34
5	0.42	0.38	0.36	0.43	0.38	0.35	0.45	0.39	0.34	0.45	0.38	0.33	0.45	0.37	0.31	0.27
6	0.35	0.32	0.29	0.37	0.32	0.29	0.39	0.33	0.28	0.40	0.33	0.27	0.40	0.32	0.26	0.23
7	0.30	0.27	0.25	0.32	0.27	0.24	0.34	0.28	0.24	0.35	0.28	0.23	0.36	0.28	0.22	0.19
8	0.26	0.23	0.21	0.28	0.24	0.21	0.30	0.24	0.20	0.32	0.25	0.20	0.33	0.25	0.19	0.16
9	0.23	0.20	0.18	0.24	0.21	0.18	0.27	0.22	0.18	0.29	0.22	0.17	0.30	0.22	0.17	0.14
10	0.20	0.18	0.16	0.22	0.18	0.16	0.24	0.19	0.16	0.26	0.20	0.15	0.28	0.20	0.15	0.12

## Indoor Budgetary Estimate Chart



## UGR Glare Index

Ceiling	70	70	50	50	30	70	70	50	50	30	
Wall	50	30	50	30	30	50	30	50	30	30	
Floor	20	20	20	20	20	20	20	20	20	20	
Room Size	Left to light axis direction of observation					Direction of light axis parallel observation					
X	Y										
2H	2H	13.9	15.0	14.1	15.0	15.6	13.7	15.0	14.1	15.2	15.5
	3H	15.4	16.4	15.8	16.8	17.0	15.2	16.4	15.5	16.8	17.1
	4H	16.1	17.2	16.4	17.5	17.7	16.0	17.1	16.3	17.6	17.7
	6H	16.5	17.6	17.0	17.8	18.1	16.5	17.4	16.8	17.8	17.9
	8H	16.9	17.9	17.1	17.9	18.3	16.8	17.7	17.0	17.9	18.3
4H	12H	16.9	17.8	17.1	18.2	18.5	16.7	17.6	17.1	18.1	18.5
	2H	14.9	15.8	15.0	15.8	16.2	14.8	15.7	14.8	15.9	16.1
	3H	16.5	17.3	16.8	17.4	17.7	16.3	17.1	16.7	17.3	17.8
	4H	17.3	18.0	17.5	18.0	18.4	17.0	17.8	17.4	18.1	18.4
	6H	17.8	18.5	18.1	18.8	18.9	17.7	18.2	18.0	18.6	19.0
8H	8H	18.0	18.7	18.4	18.9	19.3	17.9	18.6	18.3	18.8	19.3
	12H	18.2	18.9	18.5	19.0	19.3	18.1	18.7	18.4	19.1	19.3
	4H	17.5	18.0	17.9	18.3	18.7	17.3	18.0	17.6	18.4	18.9
	6H	18.3	18.7	18.7	19.1	19.4	18.2	18.6	18.6	19.2	19.5
	8H	18.7	19.0	19.1	19.4	19.9	18.6	19.0	18.9	19.3	19.8
12H	12H	18.8	19.2	19.4	19.6	20.0	18.8	19.1	19.1	19.5	20.0
	4H	17.6	18.1	17.9	18.3	18.7	17.5	18.0	17.8	18.5	18.7
	6H	18.4	19.0	18.8	19.1	19.6	18.2	18.7	18.7	19.0	19.5
	8H	18.9	19.2	19.2	19.5	19.9	18.7	19.1	19.1	19.5	19.9