

**S327 (3000K CRI90 1050mA 20D)**

Luminaire Name: S327 (3000K CRI90 1050mA 20D)

Report NO.: 01313217030202A

Test NO.:

Lamp: CITIZEN CLU038-1208C4-303H5M3 1050mA

Sum Lumens: 4332.9 lm

Number of Lamps: 1

Diameter: 140mm

Length: -140mm

Photometric Type: Type C

Voltage: 230.59 V

Current: 0.1863 A

Power: 41.539 W

Power Factor: 0.9669

Ballast Type: PHILIPS XITANIUM 44W 0.9 1.05A 42 I 230V

Width: -140mm

Height: 100mm

Optical Component: 20D Reflector DC(V:36.15V I:1.057A P:38.21W)

**Photometric Results**

Lumens: 3705.36 lm

Efficiency: 85.52%

Central Intensity: 18574.84cd

Maximum Intensity: 18670.189cd

Beam Angle(10%): Left: -21.2 Right:22.6

Maximum s/h: C0\_180: 0.17 C90\_270: 0.16

Effective Luminous Flux: 2652.02 lm

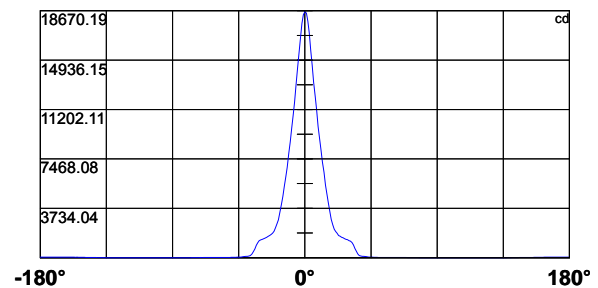
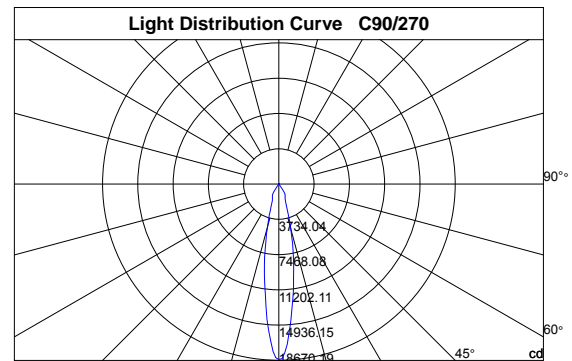
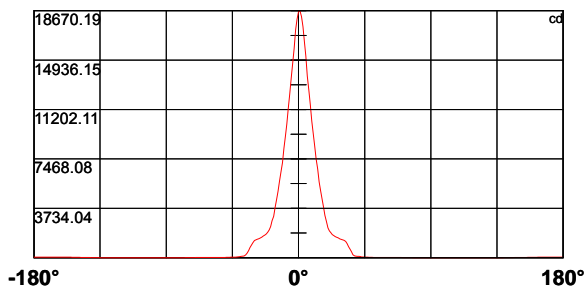
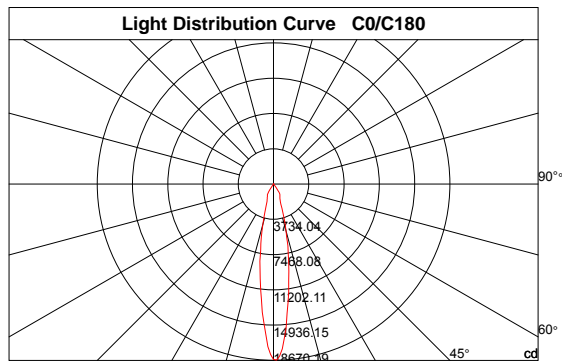
Angle of maximum intensity: C:330.0 G:1.0

Half Peak Side Angle(50%): Left: -9.2 Right:10.0

Up Flux Rate: 0.83%

Down Flux Rate: 84.69%

CIE Classification: Direct



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**Intensity Data [cd]**

C\γ	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	18574.8	18636.1	18214.4	17469.0	16323.1	15224.1	13729.0	12630.0	11548.0	10334.0
30.0	18574.8	18563.7	18039.8	17204.9	15990.8	14840.7	13686.4	12370.1	11275.4	10244.5
60.0	18574.8	18529.6	18078.1	17234.7	15807.7	14644.8	13307.3	12204.0	11139.1	9835.6
90.0	18574.8	18487.0	17873.6	16962.1	15671.4	14551.1	13260.4	12182.7	11151.8	9912.3
120.0	18574.8	18073.8	16949.3	15901.4	14798.1	13554.3	12532.0	11518.2	10414.9	9575.8
150.0	18574.8	17933.3	17064.3	15863.1	14772.6	13694.9	12289.2	11279.6	10214.7	9345.7
180.0	18574.8	18031.2	17221.9	15833.2	14725.7	13622.5	12340.3	11271.1	10095.5	9154.1
210.0	18574.8	18107.9	17153.7	16127.2	14972.8	13422.3	12485.1	11381.9	10001.7	9060.3
240.0	18574.8	18227.2	17498.8	16352.9	15194.3	14010.1	12497.9	11394.7	10210.5	9286.1
270.0	18574.8	18372.0	17703.2	16608.5	15488.2	14359.4	13034.6	11748.2	10730.1	9771.7
300.0	18574.8	18602.0	18197.4	17456.2	16293.3	15190.0	14082.5	12625.7	11556.5	10555.5
330.0	18574.8	18670.2	18316.6	17324.1	16327.4	15258.2	13980.3	12889.8	11816.4	10474.6
360.0	18574.8	18636.1	18214.4	17469.0	16323.1	15224.1	13729.0	12630.0	11548.0	10334.0

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	9388.3	8464.0	7480.0	6692.0	5733.5	5081.8	4455.6	3859.3	3203.3	2721.9
30.0	8983.7	8106.2	7292.6	6393.8	5699.5	4924.2	4285.2	3671.8	2934.9	2504.7
60.0	8932.6	8059.3	7117.9	6359.7	5656.9	4847.5	4187.3	3369.4	2845.5	2440.8
90.0	9030.5	8165.8	7220.2	6453.4	5503.5	4813.4	4144.7	3518.5	2896.6	2479.1
120.0	8481.0	7680.2	6896.4	6040.2	5341.6	4651.6	3791.1	3318.3	2700.6	2351.3
150.0	8510.8	7573.7	6798.5	6074.3	5154.2	4502.5	3782.6	3254.4	2819.9	2406.7
180.0	8259.5	7186.1	6440.6	5754.8	4992.3	4379.0	3803.9	3135.1	2794.4	2355.6
210.0	8050.8	7262.8	6525.8	5631.3	4996.6	4302.3	3748.5	3237.4	2739.0	2406.7
240.0	8408.6	7463.0	6585.5	5882.6	5218.1	4400.3	3927.4	3395.0	2798.6	2453.6
270.0	8745.1	7901.7	6832.5	6095.6	5401.3	4638.8	4029.7	3471.6	2862.5	2560.1
300.0	9473.5	8570.5	7718.5	6777.2	6040.2	5120.1	4468.4	3863.5	3228.8	2773.1
330.0	9537.4	8489.5	7637.6	6832.5	5976.3	5299.0	4651.6	3846.5	3292.7	2811.4
360.0	9388.3	8464.0	7480.0	6692.0	5733.5	5081.8	4455.6	3859.3	3203.3	2721.9

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	2257.6	2027.6	1891.3	1755.0	1669.8	1593.1	1537.7	1490.9	1422.7	1384.4
30.0	2198.0	1968.0	1844.4	1755.0	1652.8	1584.6	1503.7	1448.3	1401.4	1363.1
60.0	2125.6	1955.2	1835.9	1725.2	1644.2	1554.8	1495.1	1435.5	1384.4	1346.1
90.0	2146.9	1968.0	1840.2	1678.3	1631.5	1537.7	1507.9	1435.5	1388.7	1358.8
120.0	2108.5	1929.6	1823.1	1729.4	1622.9	1563.3	1512.2	1448.3	1410.0	1367.4
150.0	2138.4	1963.7	1806.1	1716.7	1631.5	1567.6	1503.7	1439.8	1401.4	1354.6
180.0	2108.5	1929.6	1793.3	1708.1	1635.7	1554.8	1490.9	1439.8	1392.9	1350.3
210.0	2112.8	1938.2	1797.6	1708.1	1640.0	1563.3	1507.9	1456.8	1414.2	1371.6
240.0	2193.7	1976.5	1840.2	1746.5	1644.2	1584.6	1533.5	1478.1	1435.5	1388.7
270.0	2266.2	1997.8	1861.5	1759.2	1674.1	1610.2	1537.7	1482.4	1435.5	1388.7
300.0	2406.7	2061.7	1887.0	1789.1	1669.8	1610.2	1542.0	1486.6	1431.3	1375.9
330.0	2359.9	2091.5	1887.0	1776.3	1691.1	1597.4	1546.3	1490.9	1427.0	1388.7
360.0	2257.6	2027.6	1891.3	1755.0	1669.8	1593.1	1537.7	1490.9	1422.7	1384.4

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**Intensity Data [cd]**

C\γ	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1346.1	1307.7	1222.5	1056.4	834.9	639.0	447.3	225.8	140.6	115.0
30.0	1329.0	1294.9	1162.9	992.5	758.2	549.5	357.8	195.9	123.5	106.5
60.0	1312.0	1260.9	1150.1	984.0	711.4	498.4	315.2	170.4	110.8	93.7
90.0	1282.2	1252.3	1145.9	962.7	694.3	494.1	289.7	170.4	123.5	102.2
120.0	1312.0	1188.5	945.6	745.4	549.5	340.8	191.7	144.8	127.8	106.5
150.0	1303.5	1179.9	945.6	741.2	545.2	336.5	200.2	132.1	115.0	102.2
180.0	1299.2	1133.1	954.2	758.2	532.5	349.3	204.5	127.8	115.0	93.7
210.0	1329.0	1222.5	1060.7	856.2	575.1	383.4	208.7	144.8	123.5	106.5
240.0	1350.3	1273.6	1086.2	877.5	621.9	421.7	264.1	161.9	136.3	115.0
270.0	1350.3	1290.7	1128.8	937.1	660.3	464.3	289.7	161.9	127.8	110.8
300.0	1341.8	1299.2	1214.0	1056.4	839.2	643.2	438.7	238.5	136.3	106.5
330.0	1350.3	1312.0	1235.3	1035.1	847.7	647.5	421.7	259.8	157.6	115.0
360.0	1346.1	1307.7	1222.5	1056.4	834.9	639.0	447.3	225.8	140.6	115.0

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	98.0	93.7	85.2	59.6	55.4	42.6	38.3	34.1	29.8	25.6
30.0	89.5	85.2	76.7	59.6	51.1	42.6	38.3	34.1	29.8	29.8
60.0	76.7	72.4	63.9	55.4	46.9	38.3	38.3	29.8	29.8	25.6
90.0	93.7	85.2	72.4	55.4	51.1	42.6	34.1	29.8	29.8	25.6
120.0	102.2	85.2	59.6	55.4	46.9	38.3	34.1	25.6	25.6	25.6
150.0	89.5	80.9	63.9	51.1	42.6	38.3	34.1	29.8	25.6	21.3
180.0	80.9	68.2	59.6	51.1	42.6	38.3	34.1	25.6	25.6	25.6
210.0	98.0	93.7	63.9	51.1	42.6	38.3	34.1	29.8	25.6	25.6
240.0	102.2	93.7	63.9	55.4	42.6	38.3	34.1	29.8	25.6	25.6
270.0	98.0	89.5	76.7	55.4	46.9	38.3	34.1	29.8	25.6	25.6
300.0	80.9	76.7	63.9	59.6	51.1	42.6	38.3	34.1	29.8	25.6
330.0	102.2	89.5	85.2	59.6	55.4	42.6	38.3	34.1	29.8	25.6
360.0	98.0	93.7	85.2	59.6	55.4	42.6	38.3	34.1	29.8	25.6

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	25.6	21.3	21.3	21.3	21.3	21.3	17.0	21.3	21.3	21.3
30.0	25.6	25.6	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
60.0	25.6	25.6	21.3	21.3	21.3	21.3	21.3	17.0	21.3	21.3
90.0	21.3	21.3	21.3	21.3	17.0	21.3	17.0	17.0	21.3	21.3
120.0	25.6	21.3	21.3	17.0	17.0	17.0	17.0	21.3	17.0	21.3
150.0	21.3	21.3	21.3	17.0	17.0	17.0	17.0	21.3	17.0	17.0
180.0	21.3	21.3	21.3	21.3	21.3	17.0	17.0	21.3	17.0	17.0
210.0	25.6	21.3	21.3	21.3	21.3	17.0	21.3	21.3	17.0	21.3
240.0	25.6	21.3	21.3	21.3	21.3	21.3	21.3	21.3	17.0	21.3
270.0	25.6	21.3	21.3	21.3	21.3	17.0	21.3	21.3	17.0	21.3
300.0	25.6	21.3	21.3	21.3	21.3	21.3	17.0	17.0	17.0	21.3
330.0	25.6	21.3	21.3	21.3	21.3	21.3	21.3	17.0	21.3	17.0
360.0	25.6	21.3	21.3	21.3	21.3	21.3	17.0	21.3	21.3	21.3

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C\γ	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
30.0	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
60.0	17.0	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8
90.0	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8
120.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8	8.5
150.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8
180.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8
210.0	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8
240.0	21.3	17.0	17.0	17.0	17.0	12.8	12.8	17.0	12.8	12.8
270.0	17.0	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
300.0	21.3	17.0	17.0	17.0	17.0	17.0	17.0	17.0	12.8	12.8
330.0	21.3	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
360.0	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	12.8	8.5	8.5	8.5	8.5	8.5	8.5	4.3	0.0	0.0
30.0	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0	0.0
60.0	12.8	8.5	8.5	8.5	8.5	8.5	8.5	4.3	0.0	0.0
90.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	0.0	0.0
120.0	8.5	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	0.0
150.0	8.5	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	0.0
180.0	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0	0.0
210.0	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0	0.0
240.0	12.8	8.5	8.5	8.5	8.5	8.5	8.5	4.3	0.0	0.0
270.0	8.5	12.8	8.5	8.5	8.5	8.5	8.5	4.3	0.0	0.0
300.0	12.8	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0
330.0	12.8	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0
360.0	12.8	8.5	8.5	8.5	8.5	8.5	8.5	4.3	0.0	0.0

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C\γ	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0	99.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\γ	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\γ	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**S327 (3000K CRI90 1050mA 20D)****Intensity Data [cd]****Page6**

C\γ	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\γ	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3
150.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	4.3	4.3	4.3
180.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	4.3
210.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	4.3	4.3
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\γ	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	4.3	4.3	4.3	8.5	4.3	8.5	8.5	12.8	12.8	17.0
30.0	0.0	4.3	4.3	4.3	8.5	8.5	8.5	8.5	12.8	17.0
60.0	4.3	4.3	4.3	8.5	8.5	8.5	8.5	12.8	12.8	12.8
90.0	0.0	4.3	4.3	8.5	8.5	8.5	12.8	12.8	12.8	17.0
120.0	4.3	8.5	12.8	12.8	12.8	17.0	17.0	21.3	21.3	21.3
150.0	4.3	8.5	12.8	12.8	12.8	17.0	17.0	21.3	21.3	21.3
180.0	8.5	8.5	12.8	12.8	12.8	17.0	17.0	21.3	21.3	25.6
210.0	8.5	8.5	8.5	12.8	17.0	12.8	17.0	21.3	21.3	21.3
240.0	4.3	8.5	8.5	12.8	12.8	17.0	17.0	17.0	21.3	25.6
270.0	8.5	8.5	12.8	12.8	12.8	17.0	17.0	21.3	17.0	21.3
300.0	0.0	4.3	4.3	4.3	8.5	8.5	12.8	12.8	12.8	12.8
330.0	4.3	4.3	4.3	4.3	8.5	8.5	12.8	12.8	12.8	12.8
360.0	4.3	4.3	4.3	8.5	4.3	8.5	8.5	12.8	12.8	17.0

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**Intensity Data [cd]**

C\γ	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0
0.0	17.0	17.0	21.3	17.0	21.3	21.3	25.6	25.6	25.6	29.8
30.0	17.0	17.0	17.0	21.3	21.3	25.6	25.6	25.6	25.6	29.8
60.0	17.0	17.0	17.0	21.3	21.3	25.6	25.6	25.6	25.6	29.8
90.0	17.0	17.0	17.0	21.3	21.3	21.3	25.6	25.6	25.6	25.6
120.0	25.6	25.6	29.8	29.8	34.1	29.8	34.1	34.1	38.3	38.3
150.0	25.6	25.6	29.8	29.8	29.8	34.1	34.1	34.1	34.1	38.3
180.0	25.6	25.6	29.8	29.8	29.8	34.1	34.1	34.1	34.1	38.3
210.0	25.6	25.6	29.8	29.8	29.8	34.1	34.1	34.1	38.3	38.3
240.0	25.6	25.6	29.8	29.8	34.1	29.8	34.1	34.1	34.1	38.3
270.0	25.6	25.6	29.8	29.8	29.8	34.1	29.8	34.1	34.1	38.3
300.0	17.0	17.0	17.0	21.3	21.3	21.3	25.6	25.6	25.6	29.8
330.0	12.8	17.0	17.0	21.3	21.3	21.3	25.6	25.6	25.6	29.8
360.0	17.0	17.0	21.3	17.0	21.3	21.3	25.6	25.6	25.6	29.8

C\γ	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	29.8	29.8	29.8	34.1	34.1	34.1	34.1	38.3	38.3	38.3
30.0	29.8	29.8	34.1	29.8	34.1	34.1	34.1	38.3	38.3	38.3
60.0	29.8	29.8	29.8	34.1	34.1	34.1	38.3	34.1	38.3	38.3
90.0	29.8	29.8	29.8	34.1	34.1	34.1	34.1	38.3	38.3	38.3
120.0	38.3	38.3	38.3	42.6	42.6	42.6	42.6	42.6	46.9	46.9
150.0	38.3	38.3	42.6	42.6	42.6	42.6	42.6	46.9	46.9	42.6
180.0	38.3	38.3	38.3	42.6	42.6	42.6	42.6	42.6	46.9	46.9
210.0	38.3	38.3	38.3	38.3	42.6	42.6	42.6	42.6	46.9	46.9
240.0	38.3	38.3	42.6	42.6	42.6	42.6	42.6	42.6	46.9	42.6
270.0	38.3	38.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
300.0	29.8	29.8	29.8	29.8	34.1	34.1	38.3	38.3	38.3	38.3
330.0	29.8	29.8	34.1	34.1	34.1	34.1	38.3	38.3	38.3	38.3
360.0	29.8	29.8	29.8	34.1	34.1	34.1	34.1	38.3	38.3	38.3

C\γ	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	38.3	38.3	38.3	38.3	42.6	38.3	38.3	38.3	38.3	42.6
30.0	38.3	42.6	38.3	38.3	38.3	38.3	42.6	38.3	42.6	42.6
60.0	38.3	38.3	38.3	42.6	38.3	38.3	42.6	38.3	42.6	42.6
90.0	38.3	38.3	38.3	42.6	42.6	42.6	38.3	42.6	42.6	42.6
120.0	46.9	46.9	42.6	46.9	42.6	42.6	42.6	42.6	42.6	42.6
150.0	46.9	46.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
180.0	46.9	46.9	46.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6
210.0	46.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
240.0	46.9	46.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
270.0	46.9	46.9	46.9	46.9	42.6	42.6	42.6	42.6	42.6	42.6
300.0	38.3	38.3	42.6	38.3	38.3	38.3	38.3	38.3	42.6	42.6
330.0	38.3	38.3	38.3	38.3	38.3	42.6	38.3	38.3	42.6	42.6
360.0	38.3	38.3	38.3	38.3	42.6	38.3	38.3	38.3	38.3	42.6

Intensity Data [cd]

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C\γ	180.0
0.0	42.6
30.0	42.6
60.0	42.6
90.0	42.6
120.0	38.3
150.0	42.6
180.0	42.6
210.0	42.6
240.0	42.6
270.0	42.6
300.0	38.3
330.0	42.6
360.0	42.6



**S327 (3000K CRI90 1050mA 20D)**

Zonal flux distribution table

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Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
0	18574.84	0.00	0.00	0.00	0.00
1	18352.85	17.67	17.67	17.67	17.67
2	17692.59	51.74	69.41	51.74	69.41
3	16694.76	82.24	151.65	82.24	151.65
4	15530.45	107.87	259.52	107.87	259.52
5	14364.36	128.61	388.12	128.61	388.12
6	13102.08	144.34	532.47	144.34	532.47
7	11957.99	155.55	688.01	155.55	688.01
8	10846.22	163.21	851.22	163.21	851.22
9	9795.85	167.29	1018.51	167.29	1018.51
10	8816.83	168.44	1186.95	168.44	1186.95
11	7910.23	167.14	1354.09	167.14	1354.09
12	7045.52	163.49	1517.58	163.49	1517.58
13	6248.96	157.77	1675.35	157.77	1675.35
14	5476.18	150.08	1825.43	150.08	1825.43
15	4746.71	140.34	1965.77	140.34	1965.77
16	4106.33	129.72	2095.49	129.72	2095.49
17	3495.07	118.37	2213.87	118.37	2213.87
18	2926.40	105.88	2319.75	105.88	2319.75
19	2522.09	94.79	2414.54	94.79	2414.54
20	2201.90	86.46	2501.00	86.46	2501.00
21	1983.95	80.38	2581.38	80.38	2581.38
22	1842.31	76.89	2658.27	70.65	2652.02
23	1737.24	75.11	2733.38	0.00	2652.02
24	1650.63	74.07	2807.45	0.00	2652.02
25	1576.79	73.38	2880.83	0.00	2652.02
26	1518.22	73.06	2953.89	0.00	2652.02
27	1461.07	72.89	3026.78	0.00	2652.02
28	1412.09	72.74	3099.52	0.00	2652.02
29	1369.84	72.78	3172.30	0.00	2652.02
30	1325.47	72.77	3245.08	0.00	2652.02
31	1251.28	71.71	3316.78	0.00	2652.02
32	1104.32	67.49	3384.27	0.00	2652.02
33	916.90	59.55	3443.81	0.00	2652.02
34	680.84	48.35	3492.17	0.00	2652.02
35	480.63	36.07	3528.24	0.00	2652.02
36	302.44	24.93	3553.17	0.00	2652.02
37	177.84	15.66	3568.84	0.00	2652.02
38	128.15	10.21	3579.05	0.00	2652.02
39	106.14	8.00	3587.05	0.00	2652.02
40	92.65	6.93	3593.98	0.00	2652.02

**S327 (3000K CRI90 1050mA 20D)**

Zonal flux distribution table

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Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
41	84.48	6.31	3600.29	0.00	2652.02
42	69.57	5.60	3605.88	0.00	2652.02
43	55.73	4.64	3610.53	0.00	2652.02
44	47.92	3.91	3614.44	0.00	2652.02
45	40.11	3.38	3617.82	0.00	2652.02
46	35.85	2.97	3620.79	0.00	2652.02
47	30.53	2.64	3623.43	0.00	2652.02
48	27.69	2.35	3625.79	0.00	2652.02
49	25.56	2.19	3627.97	0.00	2652.02
50	24.49	2.09	3630.06	0.00	2652.02
51	22.01	1.97	3632.03	0.00	2652.02
52	21.30	1.86	3633.88	0.00	2652.02
53	20.59	1.82	3635.70	0.00	2652.02
54	20.23	1.80	3637.50	0.00	2652.02
55	19.52	1.77	3639.28	0.00	2652.02
56	19.17	1.75	3641.03	0.00	2652.02
57	19.88	1.79	3642.81	0.00	2652.02
58	18.81	1.79	3644.60	0.00	2652.02
59	20.23	1.83	3646.43	0.00	2652.02
60	19.52	1.88	3648.31	0.00	2652.02
61	17.75	1.78	3650.09	0.00	2652.02
62	17.04	1.68	3651.76	0.00	2652.02
63	17.04	1.66	3653.42	0.00	2652.02
64	15.62	1.60	3655.02	0.00	2652.02
65	14.55	1.49	3656.52	0.00	2652.02
66	13.13	1.38	3657.90	0.00	2652.02
67	13.49	1.34	3659.24	0.00	2652.02
68	12.78	1.33	3660.57	0.00	2652.02
69	12.42	1.29	3661.85	0.00	2652.02
70	11.36	1.22	3663.08	0.00	2652.02
71	9.58	1.08	3664.16	0.00	2652.02
72	8.52	0.94	3665.10	0.00	2652.02
73	8.52	0.89	3665.99	0.00	2652.02
74	8.52	0.90	3666.89	0.00	2652.02
75	8.16	0.88	3667.77	0.00	2652.02
76	6.39	0.77	3668.54	0.00	2652.02
77	4.26	0.57	3669.11	0.00	2652.02
78	1.42	0.30	3669.41	0.00	2652.02
79	0.00	0.08	3669.49	0.00	2652.02
80	0.00	0.00	3669.49	0.00	2652.02
81	0.00	0.00	3669.49	0.00	2652.02

**S327 (3000K CRI90 1050mA 20D)**

Zonal flux distribution table

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Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
82	0.00	0.00	3669.49	0.00	2652.02
83	0.00	0.00	3669.49	0.00	2652.02
84	0.00	0.00	3669.49	0.00	2652.02
85	0.00	0.00	3669.49	0.00	2652.02
86	0.00	0.00	3669.49	0.00	2652.02
87	0.00	0.00	3669.49	0.00	2652.02
88	0.00	0.00	3669.49	0.00	2652.02
89	0.00	0.00	3669.49	0.00	2652.02
90	0.00	0.00	3669.49	0.00	2652.02
91	0.00	0.00	3669.49	0.00	2652.02
92	0.00	0.00	3669.49	0.00	2652.02
93	0.00	0.00	3669.49	0.00	2652.02
94	0.00	0.00	3669.49	0.00	2652.02
95	0.00	0.00	3669.49	0.00	2652.02
96	0.00	0.00	3669.49	0.00	2652.02
97	0.00	0.00	3669.49	0.00	2652.02
98	0.00	0.00	3669.49	0.00	2652.02
99	0.00	0.00	3669.49	0.00	2652.02
100	0.00	0.00	3669.49	0.00	2652.02
101	0.00	0.00	3669.49	0.00	2652.02
102	0.00	0.00	3669.49	0.00	2652.02
103	0.00	0.00	3669.49	0.00	2652.02
104	0.00	0.00	3669.49	0.00	2652.02
105	0.00	0.00	3669.49	0.00	2652.02
106	0.00	0.00	3669.49	0.00	2652.02
107	0.00	0.00	3669.49	0.00	2652.02
108	0.00	0.00	3669.49	0.00	2652.02
109	0.00	0.00	3669.49	0.00	2652.02
110	0.00	0.00	3669.49	0.00	2652.02
111	0.00	0.00	3669.49	0.00	2652.02
112	0.00	0.00	3669.49	0.00	2652.02
113	0.00	0.00	3669.49	0.00	2652.02
114	0.00	0.00	3669.49	0.00	2652.02
115	0.00	0.00	3669.49	0.00	2652.02
116	0.00	0.00	3669.49	0.00	2652.02
117	0.00	0.00	3669.49	0.00	2652.02
118	0.00	0.00	3669.49	0.00	2652.02
119	0.00	0.00	3669.49	0.00	2652.02
120	0.00	0.00	3669.49	0.00	2652.02
121	0.00	0.00	3669.49	0.00	2652.02
122	0.00	0.00	3669.49	0.00	2652.02

**S327 (3000K CRI90 1050mA 20D)**

Zonal flux distribution table

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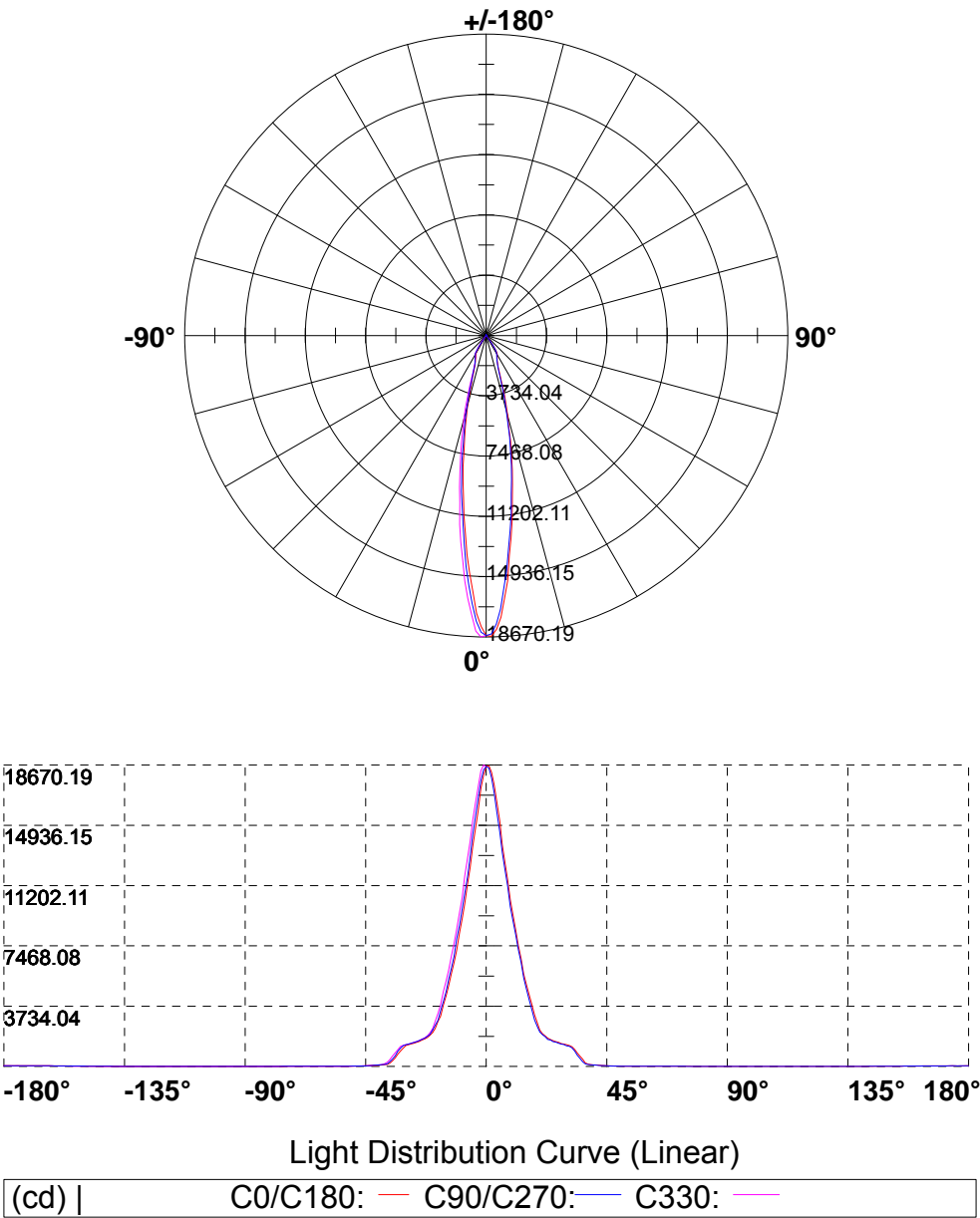
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	0.00	0.00	3669.49	0.00	2652.02
124	0.00	0.00	3669.49	0.00	2652.02
125	0.00	0.00	3669.49	0.00	2652.02
126	0.00	0.00	3669.49	0.00	2652.02
127	0.00	0.00	3669.49	0.00	2652.02
128	0.00	0.00	3669.49	0.00	2652.02
129	0.00	0.00	3669.49	0.00	2652.02
130	0.00	0.00	3669.49	0.00	2652.02
131	0.00	0.00	3669.49	0.00	2652.02
132	0.00	0.00	3669.49	0.00	2652.02
133	0.00	0.00	3669.49	0.00	2652.02
134	0.35	0.01	3669.50	0.00	2652.02
135	0.35	0.03	3669.53	0.00	2652.02
136	0.71	0.04	3669.57	0.00	2652.02
137	2.48	0.12	3669.69	0.00	2652.02
138	2.84	0.20	3669.89	0.00	2652.02
139	3.19	0.22	3670.11	0.00	2652.02
140	4.26	0.27	3670.38	0.00	2652.02
141	6.39	0.37	3670.75	0.00	2652.02
142	7.81	0.48	3671.23	0.00	2652.02
143	9.58	0.58	3671.81	0.00	2652.02
144	10.65	0.66	3672.47	0.00	2652.02
145	12.42	0.73	3673.21	0.00	2652.02
146	13.84	0.82	3674.02	0.00	2652.02
147	16.33	0.91	3674.93	0.00	2652.02
148	16.68	0.97	3675.91	0.00	2652.02
149	18.81	1.02	3676.92	0.00	2652.02
150	20.94	1.11	3678.03	0.00	2652.02
151	21.30	1.14	3679.17	0.00	2652.02
152	23.78	1.18	3680.35	0.00	2652.02
153	25.20	1.24	3681.59	0.00	2652.02
154	26.27	1.26	3682.85	0.00	2652.02
155	27.69	1.27	3684.12	0.00	2652.02
156	29.46	1.30	3685.42	0.00	2652.02
157	29.82	1.30	3686.72	0.00	2652.02
158	30.53	1.27	3687.98	0.00	2652.02
159	33.72	1.29	3689.27	0.00	2652.02
160	34.08	1.30	3690.58	0.00	2652.02
161	34.08	1.25	3691.83	0.00	2652.02
162	35.85	1.22	3693.04	0.00	2652.02
163	37.27	1.21	3694.25	0.00	2652.02

**S327 (3000K CRI90 1050mA 20D)**

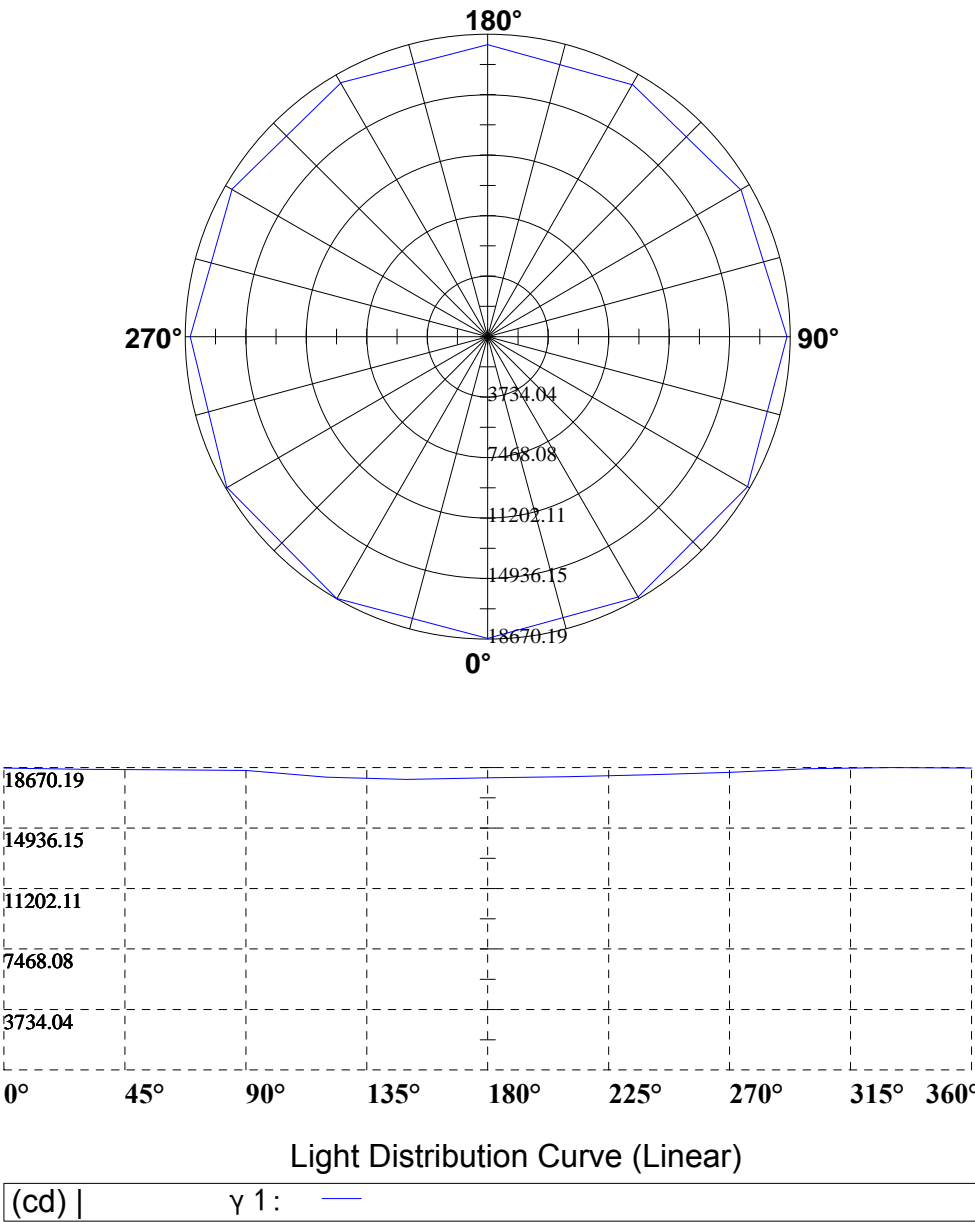
### Zonal flux distribution table

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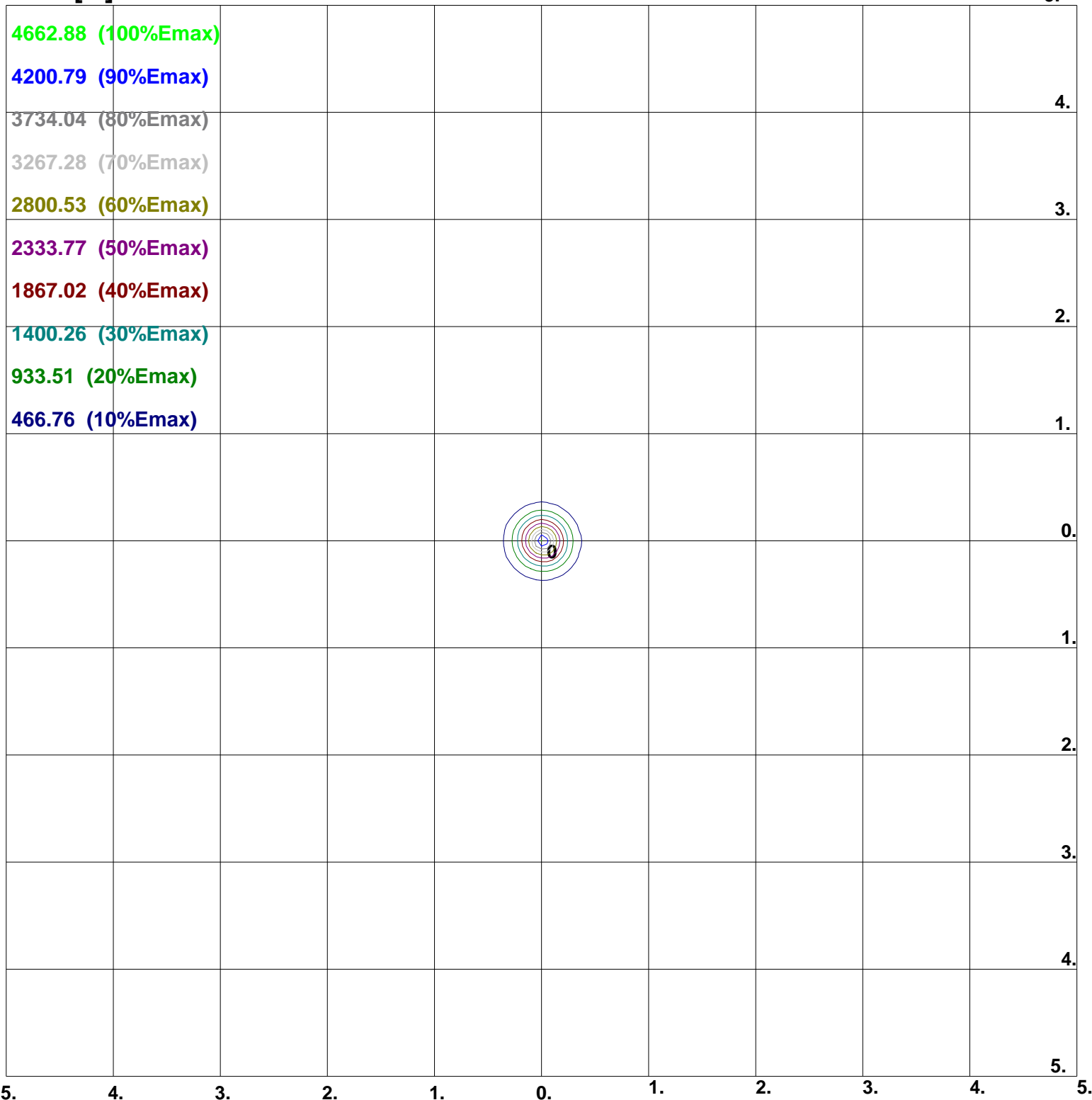
[illegible]



Horizontal cone through Max.cd [Unit: cd]



Unit: [lx]



Coordinate Scale: d/h

Height: 2 m

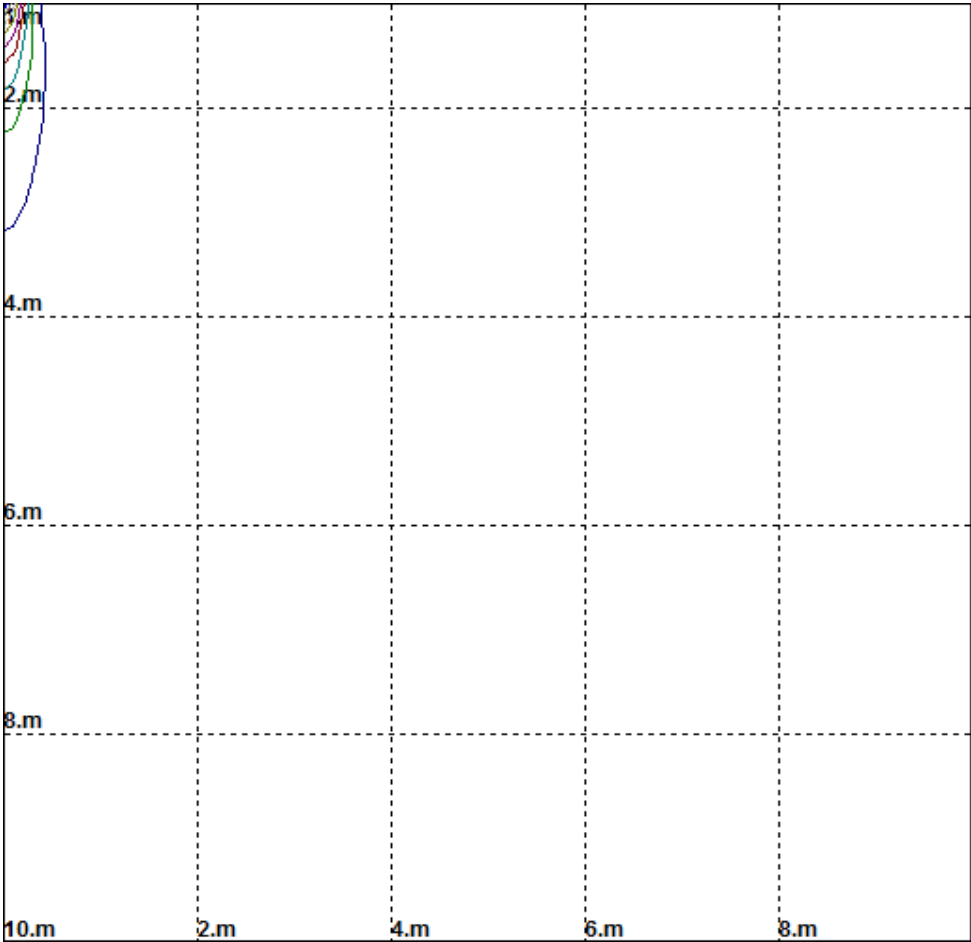
Max Illuminance : 4667.55lx



Space ISO-lx

Unit: [lx]  
Illuminance

- 4662.88
- 4200.79
- 3734.04
- 3267.28
- 2800.53
- 2333.77
- 1867.02
- 1400.26
- 933.51
- 466.76



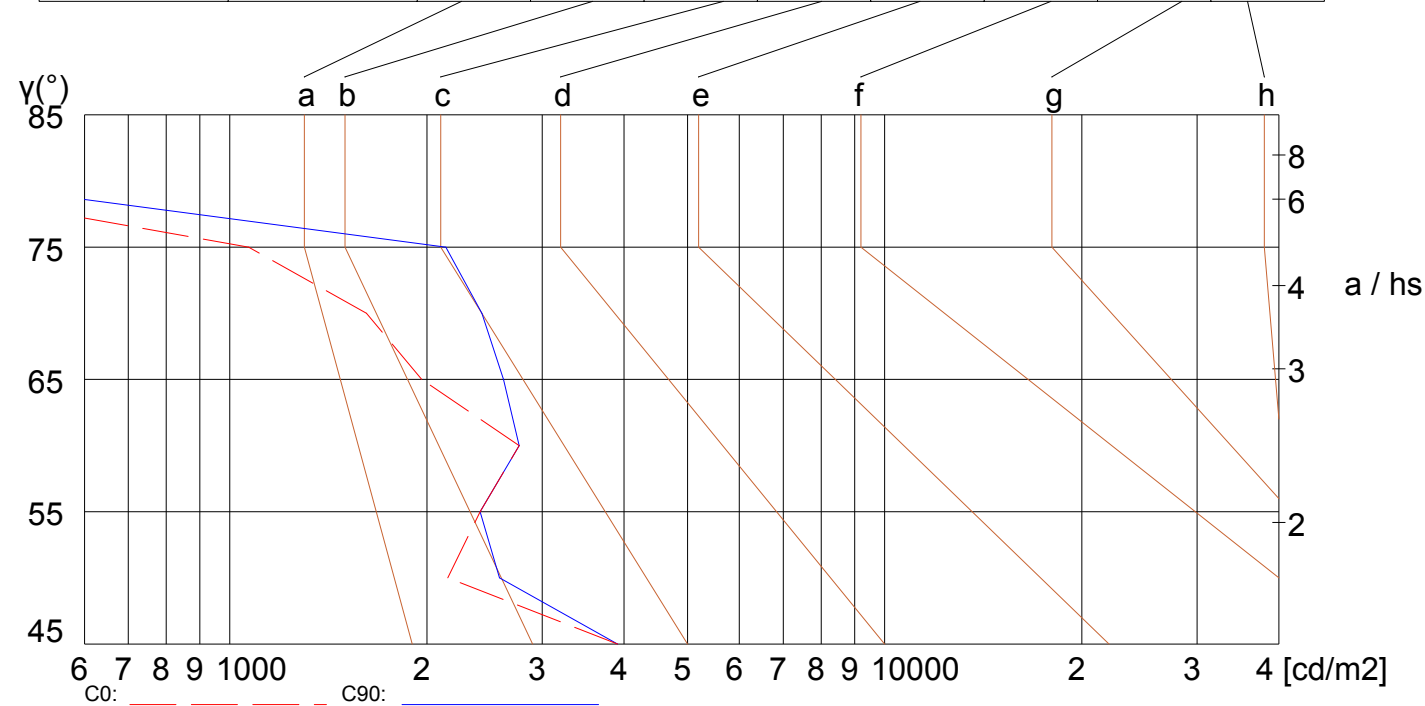
Luminance Limiting Curve (There is not luminous side)

Diameter: 140mm  
Length: -140mm  
Width: -140mm  
Height: 100mm

(cd/m2)

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	3912	2152	2411	2766	1963	1617	1069		
C90	3912	2582	2411	2766	2618	2426	2137		

Glare	Quality	Service Values Illuminance (lx)							
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



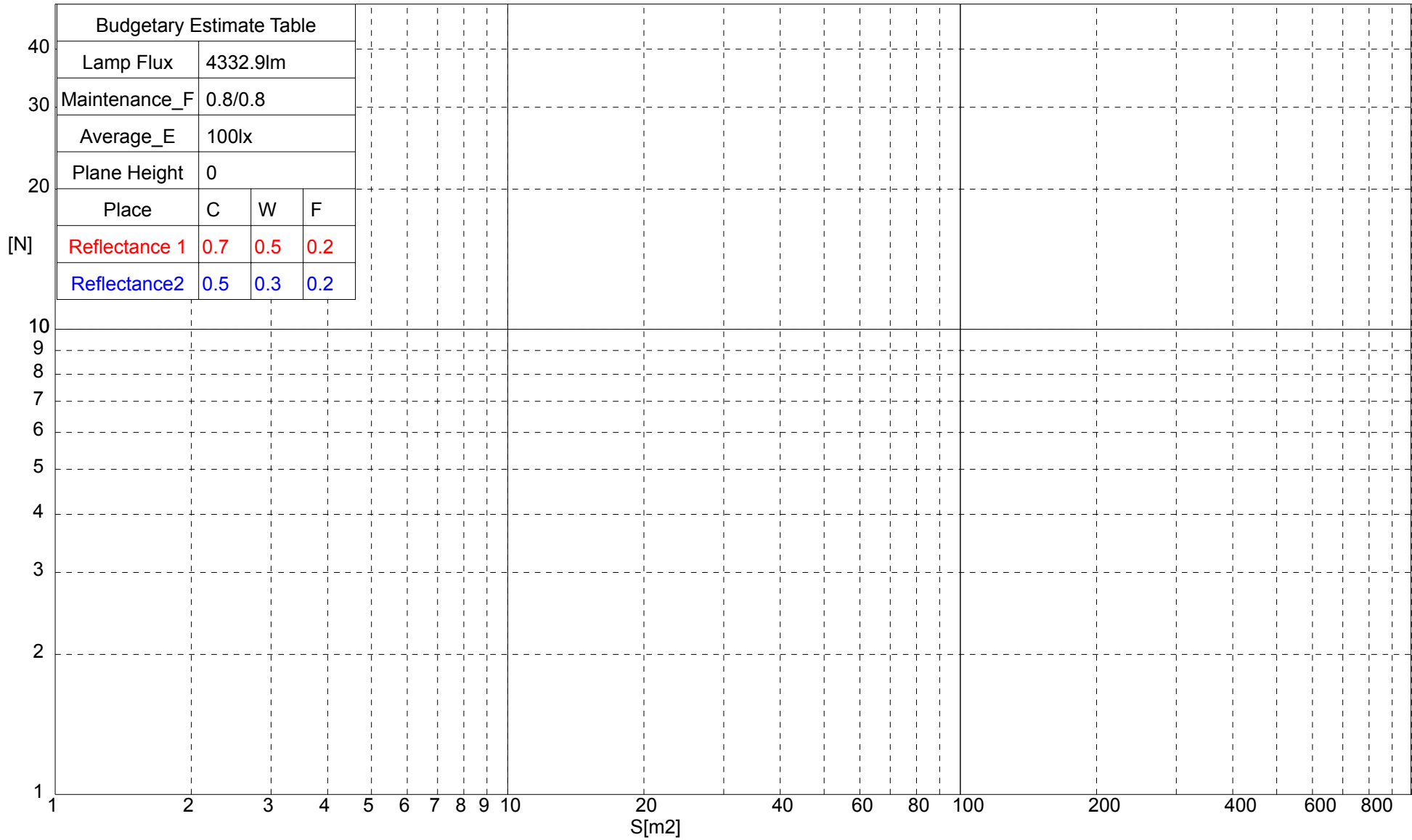
Luminance Limiting Curve (C0/C90)

**S327 (3000K CRI90 1050mA 20D)**

utilization factor table for indoor luminaire

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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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	1.00	0.99	0.99	0.98	0.97	0.97	0.94	0.93	0.93	0.89	0.88	0.88	0.83	0.82	0.81	0.77
2	0.95	0.95	0.94	0.94	0.93	0.92	0.90	0.89	0.88	0.86	0.85	0.83	0.81	0.79	0.78	0.74
3	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.85	0.84	0.83	0.81	0.80	0.78	0.76	0.74	0.71
4	0.88	0.87	0.86	0.87	0.85	0.84	0.84	0.82	0.80	0.80	0.78	0.76	0.76	0.73	0.71	0.68
5	0.85	0.84	0.83	0.83	0.82	0.81	0.80	0.79	0.77	0.77	0.75	0.73	0.73	0.71	0.69	0.65
6	0.82	0.81	0.80	0.80	0.79	0.78	0.78	0.76	0.74	0.75	0.72	0.70	0.71	0.68	0.66	0.63
7	0.79	0.78	0.77	0.78	0.76	0.75	0.75	0.73	0.72	0.72	0.70	0.68	0.69	0.66	0.64	0.61
8	0.76	0.75	0.75	0.75	0.74	0.73	0.73	0.71	0.69	0.70	0.67	0.66	0.67	0.64	0.62	0.59
9	0.74	0.73	0.72	0.73	0.71	0.71	0.70	0.68	0.67	0.68	0.65	0.63	0.65	0.62	0.60	0.57
10	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.66	0.65	0.66	0.63	0.61	0.63	0.60	0.58	0.55



Operator  
Telephone  
Fax  
e-Mail

### S327 (3000K CRI90 1050mA 20D) / UGR-Table

Luminaire: S327 (3000K CRI90 1050mA 20D)

Lamps: 1 x CITIZEN CLU038-1208C4-303H5M3 1050mA

Glare Evaluation According to UGR											
$\rho$ Ceiling		70	70	50	50	30	70	70	50	50	30
$\rho$ Walls		50	30	50	30	30	50	30	50	30	30
$\rho$ Floor		20	20	20	20	20	20	20	20	20	20
Room Size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	12.5	13.1	12.7	13.3	13.5	12.5	13.1	12.7	13.3	13.5
	3H	12.4	13.0	12.7	13.2	13.5	12.4	13.0	12.7	13.2	13.5
	4H	12.3	12.9	12.6	13.1	13.4	12.3	12.9	12.6	13.1	13.4
	6H	12.3	12.8	12.6	13.1	13.4	12.3	12.8	12.6	13.1	13.4
	8H	12.2	12.7	12.6	13.0	13.3	12.2	12.7	12.6	13.0	13.3
	12H	12.2	12.6	12.5	13.0	13.3	12.2	12.6	12.5	13.0	13.3
4H	2H	12.3	12.8	12.6	13.1	13.4	12.3	12.8	12.6	13.1	13.4
	3H	12.2	12.7	12.6	13.0	13.3	12.2	12.7	12.6	13.0	13.3
	4H	12.2	12.6	12.6	12.9	13.3	12.2	12.6	12.6	12.9	13.3
	6H	12.1	12.4	12.5	12.8	13.2	12.1	12.4	12.5	12.8	13.2
	8H	12.1	12.3	12.5	12.7	13.2	12.1	12.3	12.5	12.7	13.2
	12H	12.0	12.3	12.5	12.7	13.1	12.0	12.3	12.5	12.7	13.1
8H	4H	12.1	12.4	12.5	12.7	13.2	12.1	12.4	12.5	12.7	13.2
	6H	12.0	12.2	12.4	12.6	13.1	12.0	12.2	12.4	12.6	13.1
	8H	11.9	12.1	12.4	12.6	13.0	11.9	12.1	12.4	12.6	13.0
	12H	11.9	12.0	12.4	12.5	13.0	11.9	12.0	12.4	12.5	13.0
12H	4H	12.0	12.3	12.5	12.7	13.1	12.0	12.3	12.5	12.7	13.1
	6H	11.9	12.1	12.4	12.6	13.0	11.9	12.1	12.4	12.6	13.0
	8H	11.9	12.0	12.4	12.5	13.0	11.9	12.0	12.4	12.5	13.0
Variation of the observer position for the luminaire distances S											
S = 1.0H		+6.6 / -9.0					+6.6 / -9.0				
S = 1.5H		+9.4 / -9.3					+9.4 / -9.3				
S = 2.0H		+11.4 / -10.4					+11.4 / -10.4				
Standard table		BK00					BK00				
Correction Summand		-6.6					-6.6				
Corrected Glare Indices referring to 4333lm Total Luminous Flux											

The UGR values have been calculated according to CIE Publ. 117    Spacing-to-Height-Ratio = 0.25.