

**S327 (3000K CRI90 1050mA 12D)**

Luminaire Name: S327 (3000K CRI90 12D)

Report NO.: 01313217030201A

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: 230.57 V

Current: 0.1866 A

Power: 41.587 W

Power Factor: 0.9667

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

Width: -140mm

Height: 100mm

Optical Component: 12D Reflector DC(V:36.15V I:1.057A P:38.21W)

**Photometric Results**

Lumens: 3753.81 lm

Efficiency: 86.64%

Central Intensity: 49521.43cd

Maximum Intensity: 50132.211cd

Beam Angle(10%): Left: -11.5 Right:9.9

Maximum s/h: C0\_180: 0.07 C90\_270: 0.1

Effective Luminous Flux: 1959.87 lm

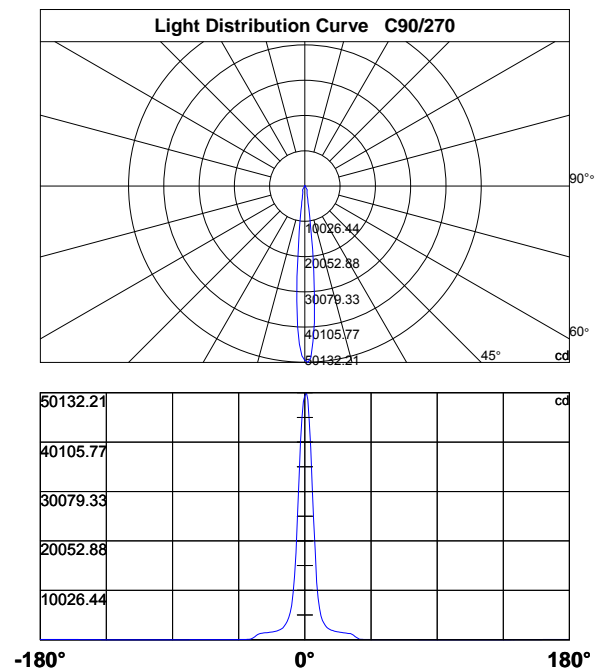
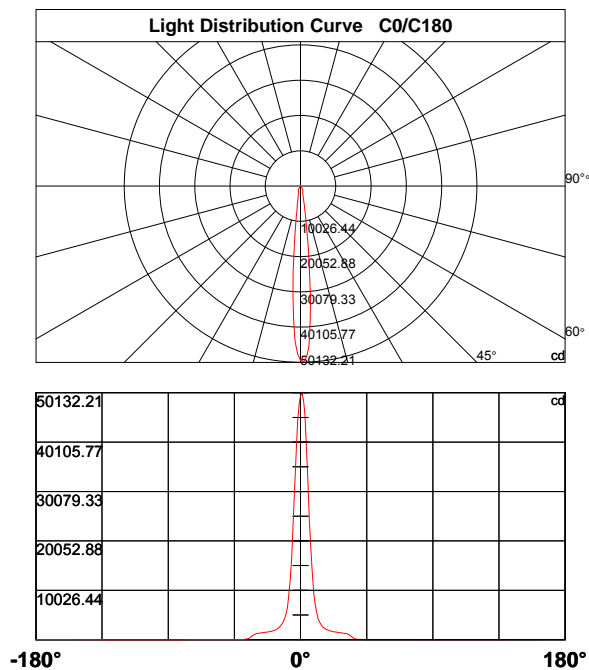
Angle of maximum intensity: C:90.0 G:1.0

Half Peak Side Angle(50%): Left: -6.1 Right:4.9

Up Flux Rate: 0.85%

Down Flux Rate: 85.79%

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	49521.4	49915.0	48577.4	45604.2	39040.0	32492.9	24425.0	18325.2	13439.3	9422.4
30.0	49521.4	45216.5	39325.4	32761.2	25779.6	19424.2	13503.2	9912.3	6828.3	5345.9
60.0	49521.4	50059.8	48330.4	45012.1	39103.9	32556.8	25626.3	18282.6	13217.8	8642.9
90.0	49521.4	50132.2	48705.2	44198.5	38967.6	31257.6	24365.4	18112.2	11637.5	8459.7
120.0	49521.4	47976.8	44905.6	38384.0	31905.0	25136.4	18031.2	13188.0	9699.3	7058.3
150.0	49521.4	47393.2	43874.7	38643.9	30938.1	23449.6	18470.0	12259.4	9107.2	6977.4
180.0	49521.4	47670.1	44160.1	37881.4	31206.4	24403.7	16582.9	12216.8	9094.4	6419.3
210.0	49521.4	49991.6	49838.3	48138.7	43363.6	37843.0	31180.9	23304.7	17413.6	11573.6
240.0	49521.4	47964.0	43781.0	38473.5	31913.6	23990.5	17997.2	13230.6	8864.4	6811.2
270.0	49521.4	48300.6	44926.9	40083.6	32688.8	25783.9	17664.9	12962.2	9541.7	6968.8
300.0	49521.4	49378.3	47584.9	42805.6	38469.2	32079.7	23040.6	17106.9	11722.7	8523.6
330.0	49521.4	49655.1	48083.3	44232.6	39189.1	31632.4	24782.8	18614.8	12233.8	8949.6
360.0	49521.4	49915.0	48577.4	45604.2	39040.0	32492.9	24425.0	18325.2	13439.3	9422.4

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	7147.7	5575.9	4204.3	3527.0	3041.4	2615.4	2364.1	2168.2	2010.6	1899.8
30.0	4310.8	3497.2	3011.6	2555.8	2317.3	2138.4	1985.0	1878.5	1793.3	1712.4
60.0	6525.8	5103.1	4131.9	3373.7	2922.1	2496.2	2274.7	2134.1	1963.7	1857.2
90.0	6385.3	4809.2	3927.4	3322.6	2832.7	2483.4	2261.9	2100.0	1950.9	1848.7
120.0	5567.4	4540.8	3608.0	3109.6	2726.2	2398.2	2185.2	2002.1	1882.8	1789.1
150.0	5345.9	4391.7	3505.7	3028.6	2666.6	2398.2	2155.4	2006.3	1853.0	1767.8
180.0	5137.2	4238.4	3484.4	3015.9	2658.0	2347.1	2155.4	1963.7	1861.5	1780.5
210.0	8647.2	6939.0	5111.6	4200.0	3539.8	2986.0	2628.2	2287.4	2100.0	1959.5
240.0	5218.1	4281.0	3599.4	2947.7	2602.7	2338.6	2104.3	1963.7	1848.7	1755.0
270.0	5546.1	4540.8	3714.4	3190.5	2781.6	2389.7	2172.4	2014.8	1878.5	1789.1
300.0	6436.4	4741.0	3906.1	3314.0	2815.6	2500.4	2266.2	2065.9	1933.9	1831.7
330.0	6777.2	5141.4	4191.5	3531.3	2981.8	2636.7	2308.7	2125.6	1989.3	1857.2
360.0	7147.7	5575.9	4204.3	3527.0	3041.4	2615.4	2364.1	2168.2	2010.6	1899.8

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1784.8	1716.7	1657.0	1597.4	1550.5	1507.9	1452.6	1405.7	1367.4	1320.5
30.0	1648.5	1593.1	1533.5	1486.6	1444.0	1392.9	1354.6	1316.2	1282.2	1248.1
60.0	1776.3	1691.1	1631.5	1563.3	1520.7	1478.1	1427.0	1375.9	1341.8	1307.7
90.0	1763.5	1674.1	1614.4	1559.0	1512.2	1469.6	1422.7	1375.9	1346.1	1303.5
120.0	1691.1	1631.5	1571.8	1525.0	1482.4	1431.3	1397.2	1354.6	1324.8	1290.7
150.0	1699.6	1640.0	1580.3	1533.5	1490.9	1444.0	1392.9	1358.8	1329.0	1294.9
180.0	1699.6	1640.0	1588.9	1537.7	1495.1	1461.1	1401.4	1363.1	1333.3	1294.9
210.0	1835.9	1759.2	1691.1	1618.7	1580.3	1537.7	1486.6	1452.6	1410.0	1371.6
240.0	1686.8	1631.5	1567.6	1529.2	1482.4	1452.6	1414.2	1375.9	1346.1	1316.2
270.0	1695.4	1644.2	1593.1	1533.5	1499.4	1465.3	1422.7	1388.7	1358.8	1316.2
300.0	1720.9	1652.8	1588.9	1542.0	1499.4	1452.6	1418.5	1375.9	1329.0	1303.5
330.0	1772.0	1699.6	1627.2	1576.1	1516.4	1478.1	1439.8	1384.4	1346.1	1312.0
360.0	1784.8	1716.7	1657.0	1597.4	1550.5	1507.9	1452.6	1405.7	1367.4	1320.5

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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	1286.4	1243.8	1154.4	996.8	741.2	549.5	353.6	178.9	89.5	63.9
30.0	1120.3	958.4	728.4	519.7	328.0	157.6	85.2	68.2	51.1	42.6
60.0	1269.4	1226.8	1107.5	941.4	741.2	489.9	221.5	132.1	76.7	63.9
90.0	1273.6	1222.5	1103.3	928.6	660.3	489.9	306.7	127.8	80.9	68.2
120.0	1235.3	1141.6	920.1	724.1	532.5	319.5	178.9	98.0	76.7	63.9
150.0	1243.8	1103.3	932.9	702.8	604.9	293.9	166.1	93.7	76.7	59.6
180.0	1252.3	1094.7	920.1	754.0	498.4	315.2	174.6	89.5	76.7	55.4
210.0	1346.1	1312.0	1265.1	1158.6	962.7	758.2	549.5	328.0	183.2	102.2
240.0	1269.4	1179.9	1026.6	796.6	575.1	349.3	195.9	110.8	76.7	59.6
270.0	1282.2	1192.7	1035.1	843.4	604.9	404.7	234.3	106.5	80.9	63.9
300.0	1269.4	1239.6	1150.1	966.9	775.3	583.6	332.3	187.4	93.7	63.9
330.0	1273.6	1239.6	1167.2	966.9	779.5	579.3	362.1	204.5	85.2	68.2
360.0	1286.4	1243.8	1154.4	996.8	741.2	549.5	353.6	178.9	89.5	63.9

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	51.1	42.6	38.3	34.1	34.1	29.8	29.8	25.6	25.6	21.3
30.0	42.6	34.1	34.1	29.8	29.8	25.6	25.6	21.3	21.3	17.0
60.0	51.1	42.6	38.3	38.3	34.1	34.1	29.8	25.6	25.6	21.3
90.0	51.1	46.9	38.3	38.3	34.1	29.8	29.8	25.6	25.6	25.6
120.0	51.1	46.9	38.3	34.1	34.1	29.8	25.6	25.6	21.3	21.3
150.0	46.9	42.6	38.3	34.1	34.1	29.8	25.6	21.3	21.3	21.3
180.0	46.9	42.6	34.1	34.1	29.8	25.6	25.6	21.3	21.3	21.3
210.0	72.4	59.6	46.9	42.6	38.3	29.8	29.8	29.8	25.6	21.3
240.0	51.1	42.6	38.3	34.1	29.8	29.8	25.6	25.6	25.6	21.3
270.0	51.1	46.9	38.3	38.3	34.1	29.8	29.8	25.6	25.6	21.3
300.0	51.1	42.6	38.3	34.1	34.1	34.1	29.8	25.6	25.6	21.3
330.0	55.4	42.6	42.6	34.1	34.1	29.8	29.8	25.6	25.6	25.6
360.0	51.1	42.6	38.3	34.1	34.1	29.8	29.8	25.6	25.6	21.3

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	21.3	21.3	21.3	21.3	17.0	21.3	21.3	21.3	21.3	21.3
30.0	17.0	21.3	17.0	17.0	17.0	21.3	21.3	21.3	21.3	21.3
60.0	21.3	21.3	21.3	21.3	17.0	17.0	21.3	17.0	21.3	21.3
90.0	21.3	21.3	21.3	17.0	21.3	21.3	21.3	21.3	21.3	25.6
120.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	17.0	21.3	25.6
150.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6
180.0	21.3	21.3	21.3	17.0	17.0	21.3	21.3	21.3	21.3	21.3
210.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
240.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6
270.0	21.3	21.3	21.3	21.3	21.3	21.3	25.6	21.3	25.6	25.6
300.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6
330.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
360.0	21.3	21.3	21.3	21.3	17.0	21.3	21.3	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	25.6	25.6	21.3	21.3	17.0	17.0	17.0	12.8	12.8
30.0	25.6	21.3	21.3	17.0	12.8	12.8	12.8	12.8	12.8	8.5
60.0	25.6	25.6	21.3	21.3	17.0	17.0	17.0	12.8	12.8	12.8
90.0	25.6	21.3	25.6	21.3	17.0	17.0	12.8	12.8	12.8	12.8
120.0	25.6	25.6	21.3	17.0	17.0	12.8	12.8	12.8	12.8	12.8
150.0	25.6	25.6	21.3	17.0	17.0	12.8	12.8	12.8	12.8	8.5
180.0	21.3	25.6	21.3	21.3	17.0	17.0	12.8	12.8	12.8	12.8
210.0	21.3	25.6	21.3	25.6	21.3	21.3	17.0	17.0	12.8	12.8
240.0	25.6	25.6	21.3	21.3	17.0	17.0	17.0	12.8	12.8	12.8
270.0	25.6	25.6	21.3	21.3	17.0	12.8	12.8	17.0	12.8	12.8
300.0	25.6	25.6	25.6	21.3	21.3	17.0	17.0	12.8	12.8	12.8
330.0	21.3	25.6	25.6	21.3	21.3	17.0	17.0	17.0	12.8	12.8
360.0	21.3	25.6	25.6	21.3	21.3	17.0	17.0	17.0	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	8.5	4.3	0.0
30.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0	0.0	0.0
60.0	8.5	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0
90.0	8.5	8.5	12.8	8.5	8.5	8.5	8.5	4.3	0.0	0.0
120.0	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0	0.0
150.0	8.5	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	0.0
180.0	8.5	12.8	12.8	8.5	8.5	8.5	4.3	8.5	4.3	0.0
210.0	12.8	12.8	12.8	8.5	12.8	8.5	8.5	8.5	8.5	4.3
240.0	12.8	12.8	8.5	12.8	8.5	8.5	4.3	4.3	4.3	0.0
270.0	12.8	12.8	12.8	8.5	12.8	8.5	8.5	4.3	4.3	0.0
300.0	12.8	8.5	8.5	8.5	8.5	8.5	8.5	4.3	0.0	0.0
330.0	8.5	8.5	12.8	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	8.5	4.3	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 12D)****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	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	4.3	4.3
150.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	4.3	4.3
180.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0	4.3	4.3
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	0.0	0.0	4.3	8.5	4.3	8.5	12.8	12.8	12.8	17.0
30.0	4.3	4.3	8.5	8.5	8.5	12.8	12.8	12.8	17.0	21.3
60.0	0.0	0.0	4.3	4.3	8.5	8.5	8.5	12.8	12.8	17.0
90.0	0.0	4.3	0.0	4.3	8.5	8.5	12.8	12.8	17.0	17.0
120.0	4.3	8.5	8.5	12.8	17.0	17.0	21.3	21.3	21.3	25.6
150.0	8.5	8.5	8.5	12.8	17.0	17.0	21.3	21.3	21.3	25.6
180.0	4.3	8.5	8.5	12.8	17.0	17.0	21.3	21.3	25.6	25.6
210.0	4.3	4.3	4.3	8.5	8.5	12.8	17.0	17.0	21.3	21.3
240.0	8.5	8.5	8.5	12.8	17.0	17.0	21.3	25.6	21.3	25.6
270.0	4.3	8.5	8.5	12.8	17.0	17.0	21.3	25.6	25.6	25.6
300.0	0.0	0.0	4.3	4.3	8.5	8.5	8.5	12.8	12.8	17.0
330.0	4.3	4.3	4.3	4.3	8.5	8.5	12.8	12.8	12.8	17.0
360.0	0.0	0.0	4.3	8.5	4.3	8.5	12.8	12.8	12.8	17.0

**S327 (3000K CRI90 1050mA 12D)****Intensity Data [cd]****Page7**

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	21.3	21.3	21.3	21.3	25.6	25.6	25.6	29.8	29.8
30.0	21.3	21.3	21.3	25.6	25.6	25.6	29.8	29.8	29.8	29.8
60.0	17.0	21.3	21.3	21.3	25.6	25.6	25.6	25.6	29.8	29.8
90.0	17.0	21.3	21.3	21.3	25.6	25.6	25.6	25.6	29.8	29.8
120.0	25.6	25.6	29.8	29.8	29.8	29.8	34.1	34.1	34.1	34.1
150.0	25.6	29.8	29.8	29.8	34.1	34.1	34.1	34.1	34.1	38.3
180.0	25.6	29.8	29.8	34.1	29.8	29.8	34.1	34.1	38.3	38.3
210.0	25.6	25.6	25.6	29.8	29.8	29.8	29.8	34.1	34.1	34.1
240.0	25.6	29.8	29.8	29.8	34.1	29.8	34.1	34.1	38.3	38.3
270.0	25.6	25.6	29.8	29.8	34.1	34.1	34.1	34.1	34.1	38.3
300.0	17.0	21.3	21.3	21.3	21.3	25.6	25.6	25.6	29.8	29.8
330.0	17.0	17.0	21.3	21.3	21.3	25.6	25.6	25.6	25.6	29.8
360.0	17.0	21.3	21.3	21.3	21.3	25.6	25.6	25.6	29.8	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	34.1	34.1	34.1	38.3	38.3	38.3	38.3	38.3
30.0	29.8	34.1	34.1	38.3	38.3	38.3	38.3	42.6	42.6	42.6
60.0	29.8	34.1	34.1	34.1	34.1	38.3	38.3	38.3	42.6	42.6
90.0	29.8	29.8	34.1	34.1	34.1	38.3	38.3	38.3	38.3	42.6
120.0	38.3	38.3	38.3	42.6	42.6	42.6	46.9	46.9	46.9	46.9
150.0	38.3	38.3	38.3	42.6	42.6	42.6	46.9	46.9	46.9	46.9
180.0	34.1	38.3	38.3	42.6	42.6	42.6	46.9	46.9	51.1	46.9
210.0	38.3	34.1	38.3	38.3	38.3	42.6	42.6	42.6	46.9	46.9
240.0	38.3	38.3	38.3	42.6	42.6	42.6	42.6	46.9	46.9	46.9
270.0	38.3	42.6	42.6	42.6	42.6	46.9	46.9	46.9	46.9	51.1
300.0	29.8	29.8	34.1	34.1	34.1	38.3	38.3	38.3	38.3	38.3
330.0	34.1	29.8	34.1	34.1	34.1	38.3	34.1	38.3	38.3	42.6
360.0	29.8	29.8	34.1	34.1	34.1	38.3	38.3	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	42.6	42.6	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3
30.0	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3	38.3	38.3
60.0	38.3	42.6	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3
90.0	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3	38.3	38.3
120.0	51.1	46.9	46.9	46.9	46.9	42.6	42.6	38.3	38.3	38.3
150.0	46.9	46.9	51.1	46.9	46.9	42.6	38.3	38.3	38.3	38.3
180.0	46.9	46.9	46.9	46.9	46.9	42.6	42.6	38.3	38.3	38.3
210.0	46.9	46.9	46.9	46.9	51.1	46.9	46.9	42.6	38.3	38.3
240.0	51.1	46.9	46.9	46.9	46.9	42.6	42.6	38.3	34.1	38.3
270.0	46.9	46.9	46.9	46.9	46.9	42.6	42.6	38.3	38.3	38.3
300.0	42.6	42.6	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3
330.0	42.6	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3	38.3
360.0	42.6	42.6	42.6	42.6	42.6	42.6	38.3	38.3	38.3	38.3

Intensity Data [cd]		Page8
C\γ	180.0	
0.0	38.3	
30.0	38.3	
60.0	38.3	
90.0	38.3	
120.0	38.3	
150.0	38.3	
180.0	38.3	
210.0	38.3	
240.0	38.3	
270.0	38.3	
300.0	38.3	
330.0	38.3	
360.0	38.3	



**S327 (3000K CRI90 1050mA 12D)**

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	49521.43	0.00	0.00	0.00	0.00
1	48637.77	46.97	46.97	46.97	46.97
2	46007.78	135.84	182.81	135.84	182.81
3	41351.59	208.94	391.75	208.94	391.75
4	35213.74	256.29	648.04	256.29	648.04
5	28337.54	273.39	921.43	273.39	921.43
6	21305.87	260.89	1182.32	260.89	1182.32
7	15626.29	229.24	1411.56	229.24	1411.56
8	11066.66	191.04	1602.59	191.04	1602.59
9	7929.40	153.95	1756.55	153.95	1756.55
10	6087.09	126.84	1883.39	126.84	1883.39
11	4816.64	108.95	1992.34	76.48	1959.88
12	3866.37	94.92	2087.26	0.00	1959.88
13	3259.72	84.57	2171.83	0.00	1959.88
14	2823.82	77.87	2249.70	0.00	1959.88
15	2477.36	72.78	2322.48	0.00	1959.88
16	2238.46	69.10	2391.57	0.00	1959.88
17	2059.20	66.93	2458.50	0.00	1959.88
18	1922.18	65.64	2524.15	0.00	1959.88
19	1820.66	65.12	2589.26	0.00	1959.88
20	1731.21	65.01	2654.27	0.00	1959.88
21	1664.47	65.20	2719.48	0.00	1959.88
22	1603.77	65.68	2785.15	0.00	1959.88
23	1550.17	66.18	2851.33	0.00	1959.88
24	1506.15	66.82	2918.15	0.00	1959.88
25	1464.27	67.54	2985.69	0.00	1959.88
26	1419.18	68.06	3053.76	0.00	1959.88
27	1377.30	68.42	3122.17	0.00	1959.88
28	1342.87	68.87	3191.04	0.00	1959.88
29	1306.66	69.32	3260.36	0.00	1959.88
30	1260.16	69.30	3329.66	0.00	1959.88
31	1179.58	67.89	3397.56	0.00	1959.88
32	1042.56	63.66	3461.22	0.00	1959.88
33	858.33	56.00	3517.22	0.00	1959.88
34	650.31	45.66	3562.88	0.00	1959.88
35	440.88	33.89	3596.76	0.00	1959.88
36	263.39	22.42	3619.19	0.00	1959.88
37	143.76	13.28	3632.47	0.00	1959.88
38	87.32	7.71	3640.18	0.00	1959.88
39	64.61	5.19	3645.37	0.00	1959.88
40	51.83	4.06	3649.43	0.00	1959.88

**S327 (3000K CRI90 1050mA 12D)**

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	44.37	3.43	3652.85	0.00	1959.88
42	38.69	3.02	3655.87	0.00	1959.88
43	35.50	2.75	3658.62	0.00	1959.88
44	33.37	2.60	3661.22	0.00	1959.88
45	29.82	2.43	3663.65	0.00	1959.88
46	28.04	2.26	3665.91	0.00	1959.88
47	24.85	2.10	3668.01	0.00	1959.88
48	24.14	1.98	3669.99	0.00	1959.88
49	21.65	1.88	3671.87	0.00	1959.88
50	20.94	1.78	3673.65	0.00	1959.88
51	21.30	1.79	3675.44	0.00	1959.88
52	20.94	1.81	3677.25	0.00	1959.88
53	20.23	1.79	3679.04	0.00	1959.88
54	19.88	1.77	3680.81	0.00	1959.88
55	20.94	1.82	3682.63	0.00	1959.88
56	21.65	1.92	3684.56	0.00	1959.88
57	20.59	1.93	3686.49	0.00	1959.88
58	21.65	1.95	3688.44	0.00	1959.88
59	23.43	2.11	3690.55	0.00	1959.88
60	24.14	2.25	3692.80	0.00	1959.88
61	24.85	2.34	3695.14	0.00	1959.88
62	22.72	2.29	3697.43	0.00	1959.88
63	20.59	2.11	3699.53	0.00	1959.88
64	18.10	1.90	3701.43	0.00	1959.88
65	15.97	1.69	3703.12	0.00	1959.88
66	14.91	1.54	3704.66	0.00	1959.88
67	14.20	1.46	3706.12	0.00	1959.88
68	12.78	1.37	3707.49	0.00	1959.88
69	12.07	1.27	3708.76	0.00	1959.88
70	10.65	1.17	3709.93	0.00	1959.88
71	10.65	1.10	3711.03	0.00	1959.88
72	10.29	1.09	3712.12	0.00	1959.88
73	8.87	1.00	3713.12	0.00	1959.88
74	9.23	0.95	3714.07	0.00	1959.88
75	8.16	0.92	3714.99	0.00	1959.88
76	6.74	0.79	3715.78	0.00	1959.88
77	4.97	0.62	3716.41	0.00	1959.88
78	3.19	0.44	3716.84	0.00	1959.88
79	0.35	0.19	3717.03	0.00	1959.88
80	0.00	0.02	3717.05	0.00	1959.88
81	0.00	0.00	3717.05	0.00	1959.88

**S327 (3000K CRI90 1050mA 12D)**

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	3717.05	0.00	1959.88
83	0.00	0.00	3717.05	0.00	1959.88
84	0.00	0.00	3717.05	0.00	1959.88
85	0.00	0.00	3717.05	0.00	1959.88
86	0.00	0.00	3717.05	0.00	1959.88
87	0.00	0.00	3717.05	0.00	1959.88
88	0.00	0.00	3717.05	0.00	1959.88
89	0.00	0.00	3717.05	0.00	1959.88
90	0.00	0.00	3717.05	0.00	1959.88
91	0.00	0.00	3717.05	0.00	1959.88
92	0.00	0.00	3717.05	0.00	1959.88
93	0.00	0.00	3717.05	0.00	1959.88
94	0.00	0.00	3717.05	0.00	1959.88
95	0.00	0.00	3717.05	0.00	1959.88
96	0.00	0.00	3717.05	0.00	1959.88
97	0.00	0.00	3717.05	0.00	1959.88
98	0.00	0.00	3717.05	0.00	1959.88
99	0.00	0.00	3717.05	0.00	1959.88
100	0.00	0.00	3717.05	0.00	1959.88
101	0.00	0.00	3717.05	0.00	1959.88
102	0.00	0.00	3717.05	0.00	1959.88
103	0.00	0.00	3717.05	0.00	1959.88
104	0.00	0.00	3717.05	0.00	1959.88
105	0.00	0.00	3717.05	0.00	1959.88
106	0.00	0.00	3717.05	0.00	1959.88
107	0.00	0.00	3717.05	0.00	1959.88
108	0.00	0.00	3717.05	0.00	1959.88
109	0.00	0.00	3717.05	0.00	1959.88
110	0.00	0.00	3717.05	0.00	1959.88
111	0.00	0.00	3717.05	0.00	1959.88
112	0.00	0.00	3717.05	0.00	1959.88
113	0.00	0.00	3717.05	0.00	1959.88
114	0.00	0.00	3717.05	0.00	1959.88
115	0.00	0.00	3717.05	0.00	1959.88
116	0.00	0.00	3717.05	0.00	1959.88
117	0.00	0.00	3717.05	0.00	1959.88
118	0.00	0.00	3717.05	0.00	1959.88
119	0.00	0.00	3717.05	0.00	1959.88
120	0.00	0.00	3717.05	0.00	1959.88
121	0.00	0.00	3717.05	0.00	1959.88
122	0.00	0.00	3717.05	0.00	1959.88

**S327 (3000K CRI90 1050mA 12D)**

Zonal flux distribution table

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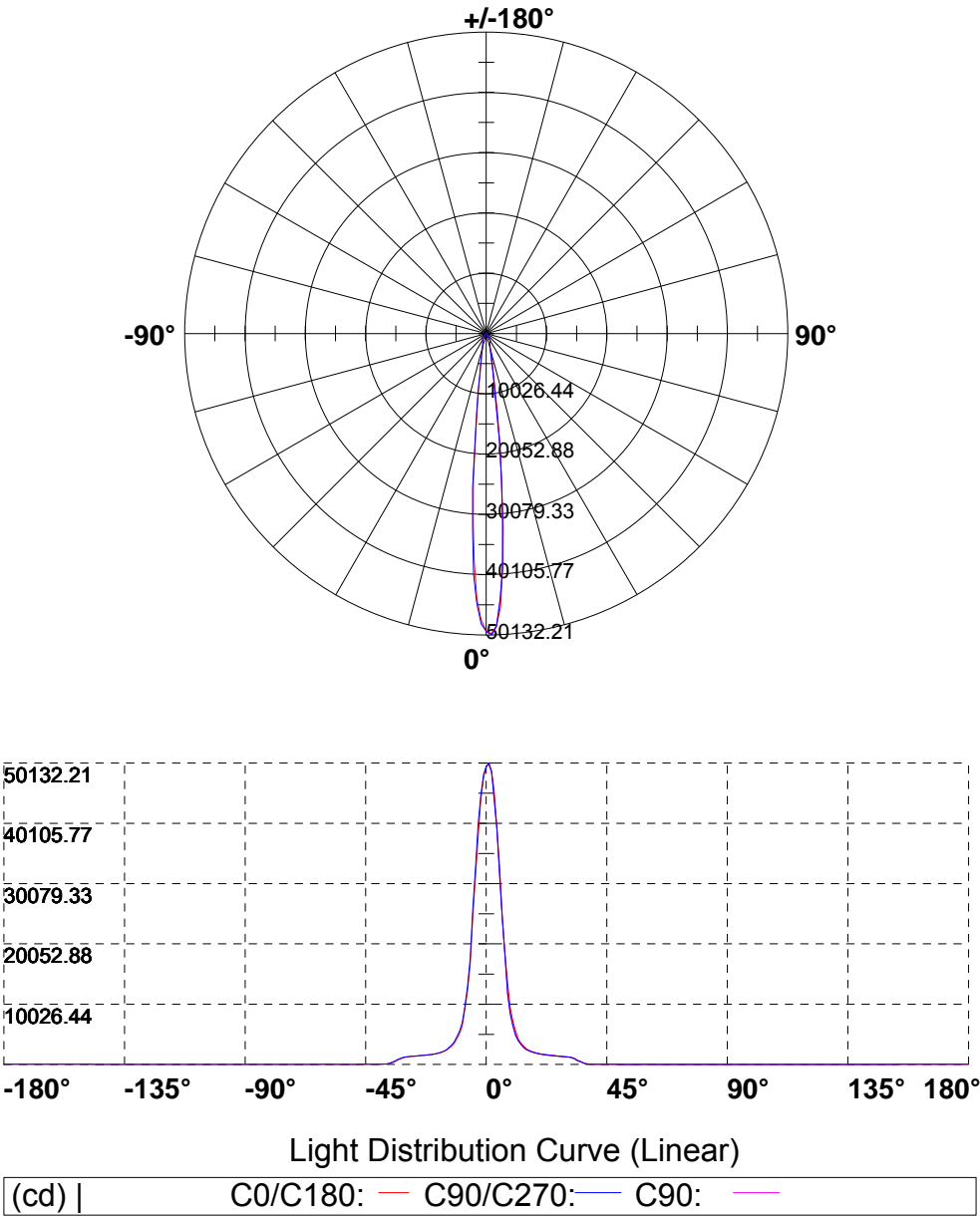
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	0.00	0.00	3717.05	0.00	1959.88
124	0.00	0.00	3717.05	0.00	1959.88
125	0.00	0.00	3717.05	0.00	1959.88
126	0.00	0.00	3717.05	0.00	1959.88
127	0.00	0.00	3717.05	0.00	1959.88
128	0.00	0.00	3717.05	0.00	1959.88
129	0.00	0.00	3717.05	0.00	1959.88
130	0.00	0.00	3717.05	0.00	1959.88
131	0.00	0.00	3717.05	0.00	1959.88
132	0.00	0.00	3717.05	0.00	1959.88
133	0.00	0.00	3717.05	0.00	1959.88
134	0.35	0.01	3717.07	0.00	1959.88
135	0.35	0.03	3717.09	0.00	1959.88
136	0.35	0.03	3717.12	0.00	1959.88
137	0.00	0.01	3717.13	0.00	1959.88
138	1.42	0.05	3717.19	0.00	1959.88
139	2.48	0.14	3717.33	0.00	1959.88
140	3.55	0.21	3717.54	0.00	1959.88
141	4.97	0.30	3717.84	0.00	1959.88
142	6.03	0.38	3718.22	0.00	1959.88
143	8.87	0.50	3718.71	0.00	1959.88
144	11.71	0.67	3719.39	0.00	1959.88
145	12.78	0.78	3720.17	0.00	1959.88
146	15.97	0.89	3721.06	0.00	1959.88
147	17.39	1.01	3722.07	0.00	1959.88
148	18.46	1.06	3723.12	0.00	1959.88
149	21.30	1.14	3724.26	0.00	1959.88
150	21.65	1.20	3725.46	0.00	1959.88
151	24.14	1.24	3726.69	0.00	1959.88
152	25.20	1.29	3727.99	0.00	1959.88
153	26.27	1.30	3729.29	0.00	1959.88
154	27.69	1.32	3730.61	0.00	1959.88
155	28.40	1.32	3731.93	0.00	1959.88
156	29.82	1.32	3733.26	0.00	1959.88
157	30.17	1.31	3734.57	0.00	1959.88
158	32.30	1.31	3735.88	0.00	1959.88
159	33.37	1.32	3737.20	0.00	1959.88
160	34.08	1.30	3738.49	0.00	1959.88
161	34.79	1.26	3739.75	0.00	1959.88
162	36.56	1.24	3741.00	0.00	1959.88
163	38.34	1.23	3742.23	0.00	1959.88

**S327 (3000K CRI90 1050mA 12D)**

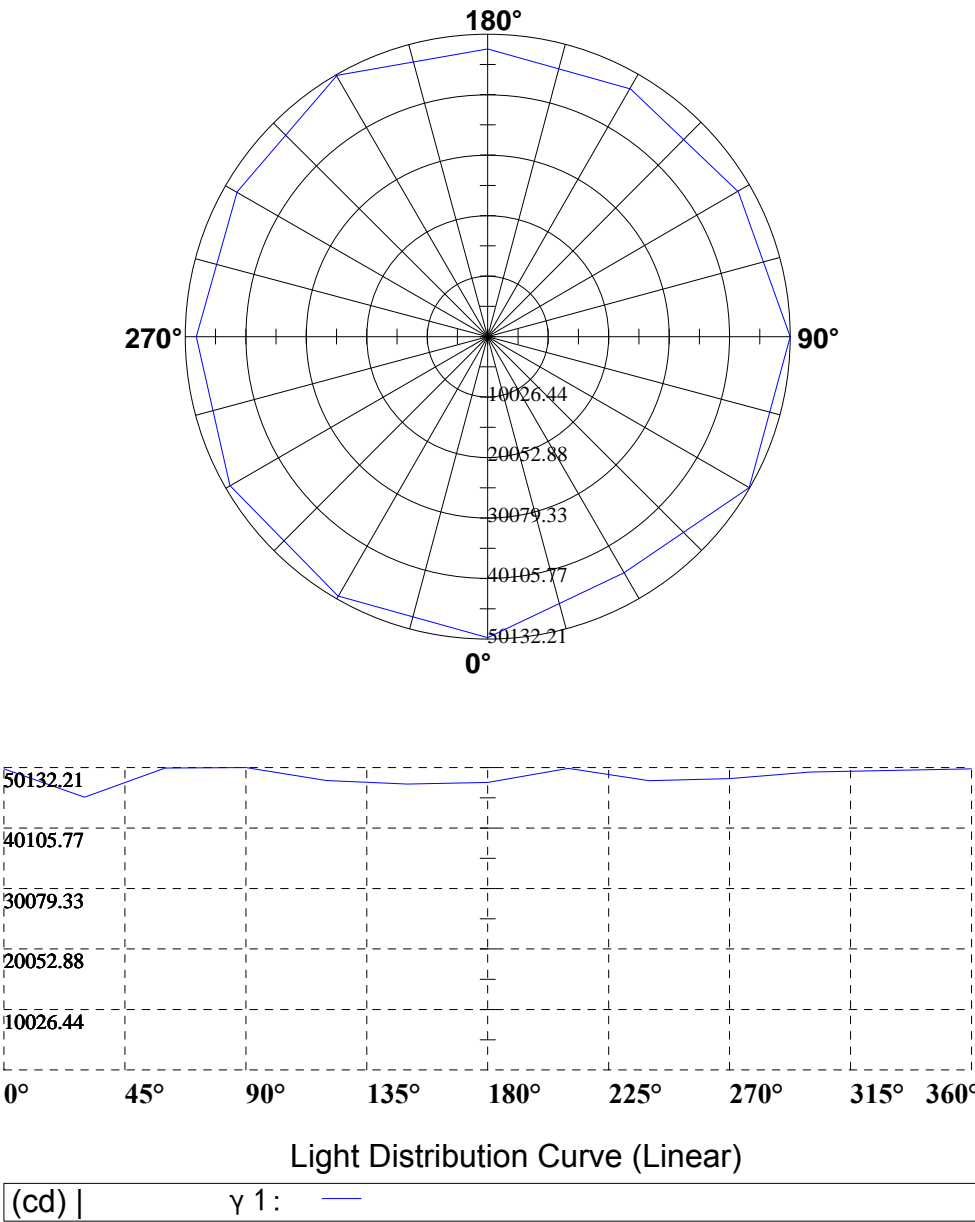
### Zonal flux distribution table

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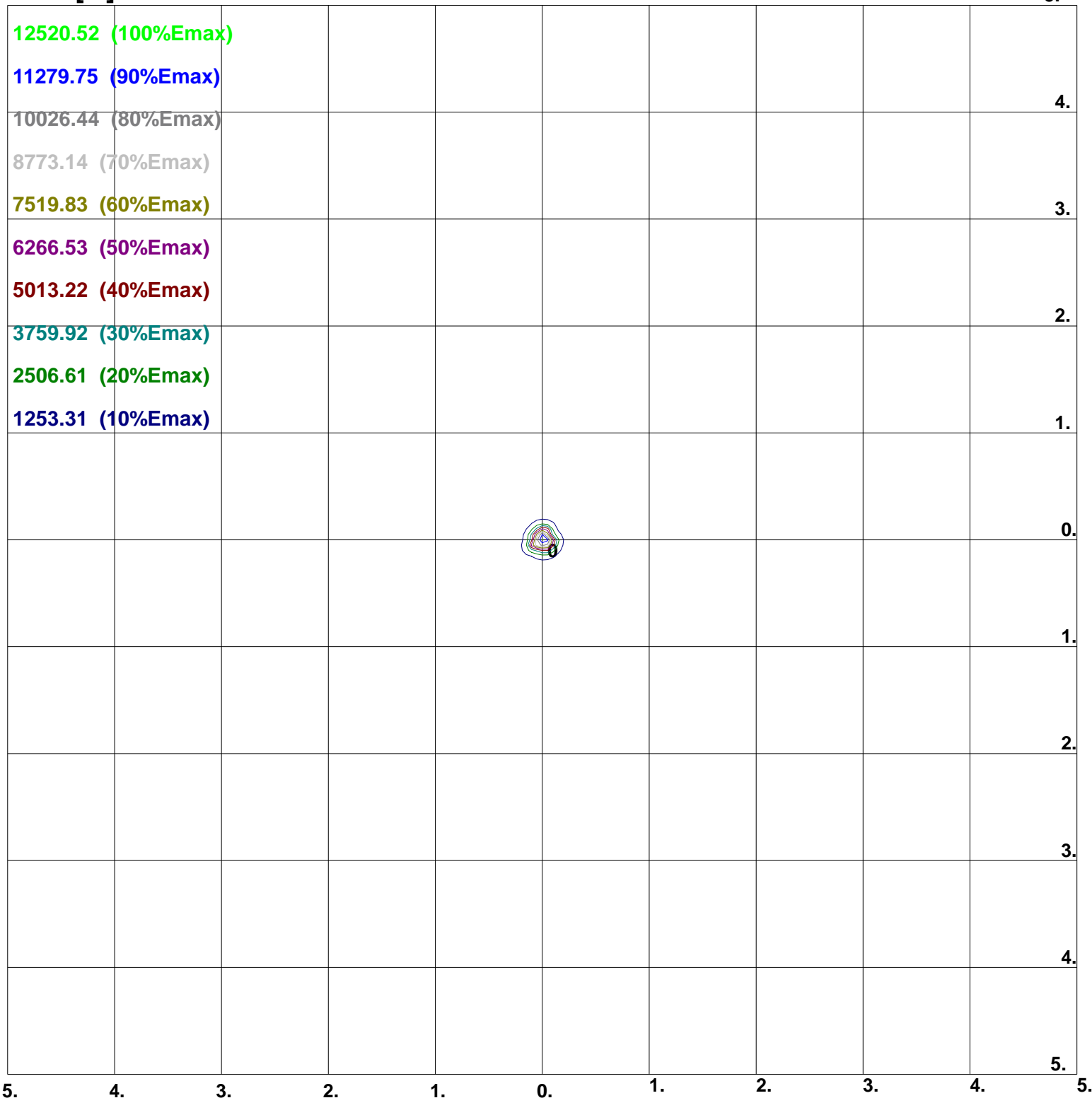
[illegible]



Horizontal cone through Max.cd [Unit: cd]



Unit: [lx]



Coordinate Scale: d/h

Height: 2 m

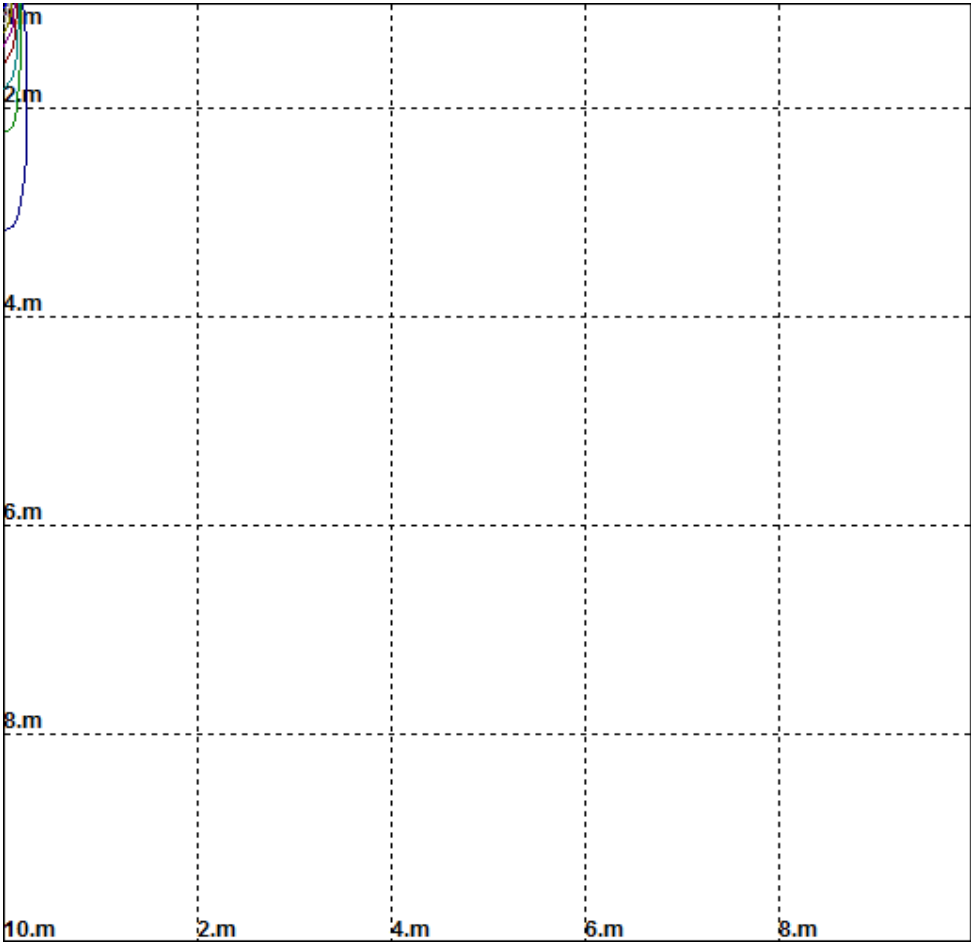
Max Illuminance : 12533.05lx



Space ISO-lx

Unit: [lx]  
Illuminance

- 12520.52
- 11279.75
- 10026.44
- 8773.14
- 7519.83
- 6266.53
- 5013.22
- 3759.92
- 2506.61
- 1253.31



## Luminance Limiting Curve (There is not luminous side)

Diameter: 140mm

Length: -140mm

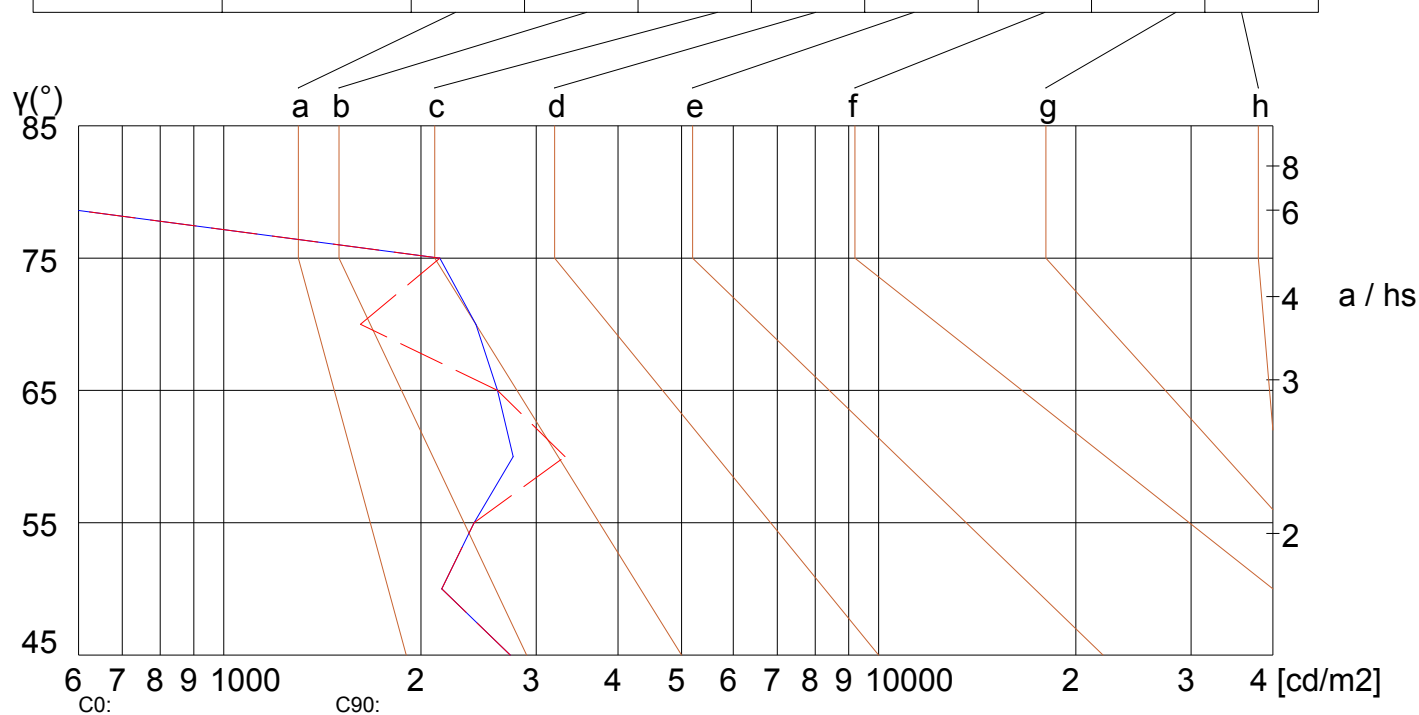
Width: -140mm

Height: 100mm

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

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	2738	2152	2411	3319	2618	1617	2137		
C90	2738	2152	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 12D)**

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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	1.02	1.01	1.01	1.00	0.99	0.99	0.96	0.95	0.95	0.91	0.90	0.90	0.85	0.84	0.83	0.79
2	0.98	0.97	0.97	0.97	0.96	0.95	0.93	0.92	0.91	0.88	0.87	0.86	0.83	0.81	0.80	0.76
3	0.95	0.94	0.94	0.93	0.92	0.92	0.90	0.89	0.87	0.86	0.84	0.83	0.81	0.79	0.77	0.74
4	0.92	0.91	0.91	0.91	0.89	0.89	0.87	0.86	0.85	0.83	0.81	0.80	0.79	0.77	0.75	0.71
5	0.89	0.89	0.88	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.79	0.78	0.77	0.75	0.73	0.69
6	0.87	0.86	0.86	0.86	0.84	0.84	0.82	0.81	0.80	0.79	0.77	0.75	0.75	0.73	0.71	0.67
7	0.85	0.84	0.84	0.83	0.82	0.82	0.80	0.79	0.77	0.77	0.75	0.73	0.74	0.71	0.69	0.66
8	0.83	0.82	0.82	0.81	0.80	0.80	0.78	0.77	0.76	0.75	0.73	0.71	0.72	0.69	0.67	0.64
9	0.81	0.80	0.80	0.79	0.78	0.78	0.77	0.75	0.74	0.74	0.71	0.70	0.71	0.68	0.66	0.63
10	0.79	0.78	0.78	0.78	0.77	0.76	0.75	0.73	0.72	0.72	0.70	0.68	0.69	0.66	0.64	0.61



Operator  
Telephone  
Fax  
e-Mail

### S327 (3000K CRI90 1050mA 12D) / UGR-Table

Luminaire: S327 (3000K CRI90 1050mA 12D)

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

Glare Evaluation According to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ 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	11.5	12.1	11.7	12.3	12.5	11.5	12.1	11.7	12.3	12.5
	3H	11.4	12.0	11.7	12.2	12.5	11.4	12.0	11.7	12.2	12.5
	4H	11.4	11.9	11.7	12.2	12.5	11.4	11.9	11.7	12.2	12.5
	6H	11.3	11.8	11.6	12.1	12.4	11.3	11.8	11.6	12.1	12.4
	8H	11.3	11.7	11.6	12.0	12.4	11.3	11.7	11.6	12.0	12.4
	12H	11.2	11.7	11.6	12.0	12.3	11.2	11.7	11.6	12.0	12.3
4H	2H	11.3	11.9	11.6	12.1	12.4	11.3	11.9	11.6	12.1	12.4
	3H	11.3	11.7	11.6	12.0	12.4	11.3	11.7	11.6	12.0	12.4
	4H	11.2	11.6	11.6	12.0	12.3	11.2	11.6	11.6	12.0	12.3
	6H	11.2	11.5	11.6	11.9	12.3	11.2	11.5	11.6	11.9	12.3
	8H	11.1	11.4	11.6	11.8	12.2	11.1	11.4	11.6	11.8	12.2
	12H	11.1	11.3	11.5	11.7	12.2	11.1	11.3	11.5	11.7	12.2
8H	4H	11.1	11.4	11.6	11.8	12.2	11.1	11.4	11.6	11.8	12.2
	6H	11.1	11.3	11.5	11.7	12.2	11.1	11.3	11.5	11.7	12.2
	8H	11.0	11.2	11.5	11.6	12.1	11.0	11.2	11.5	11.6	12.1
	12H	11.0	11.1	11.5	11.6	12.1	11.0	11.1	11.5	11.6	12.1
12H	4H	11.1	11.3	11.5	11.8	12.2	11.1	11.3	11.5	11.8	12.2
	6H	11.0	11.2	11.5	11.6	12.1	11.0	11.2	11.5	11.6	12.1
	8H	11.0	11.1	11.5	11.6	12.1	11.0	11.1	11.5	11.6	12.1
Variation of the observer position for the luminaire distances S											
S = 1.0H		+6.6 / -8.2					+6.6 / -8.2				
S = 1.5H		+9.4 / -8.2					+9.4 / -8.2				
S = 2.0H		+11.4 / -9.4					+11.4 / -9.4				
Standard table		BK00					BK00				
Correction Summand		-7.0					-7.0				
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.