

R852 WWL (CRI90 500mA 70D)

Luminaire Name: R852 WWL (CRI90 500mA 70D)

Report NO.: 01313217030105A

Test NO.:

Lamp: CITIZEN CLUO38-1205C4-303H5M3 500mA

Sum Lumens: 2144.5 lm

Number of Lamps: 1

Diameter: 115mm

Length: -115mm

Photometric Type: Type C

Voltage: 230.77 V

Current: 0.0913 A

Power: 20.708 W

Power Factor: 0.9827

Ballast Type: PHILIPS XITANIUM 21W 0.5A 42V I 230V

Width: -115mm

Height: 72mm

Optical Component: 70D Reflector DC(V:34.21V I:0.493A P:16.866W)

Photometric Results

Lumens: 1856.51 lm

Efficiency: 86.57%

Central Intensity: 1380.793cd

Maximum Intensity: 1601.641cd

Beam Angle(10%): Left: -22.4 Right:63.1

Maximum s/h: C0_180: 0.61 C90_270: 0.61

Effective Luminous Flux: 1676.37 lm

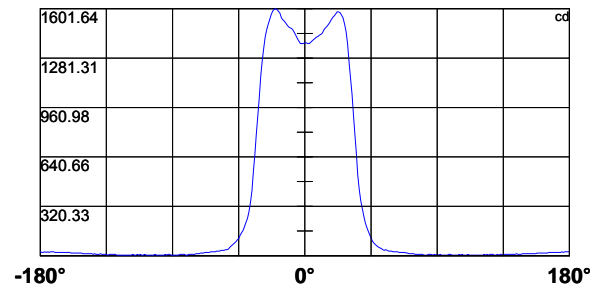
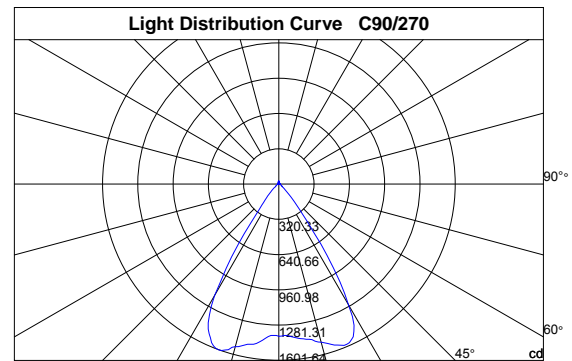
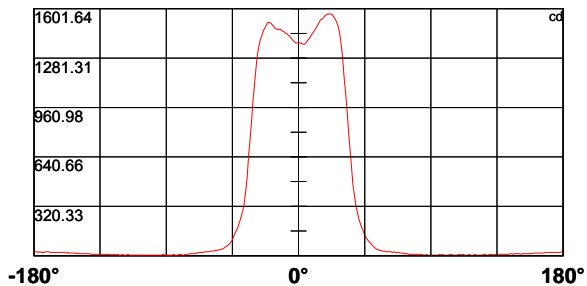
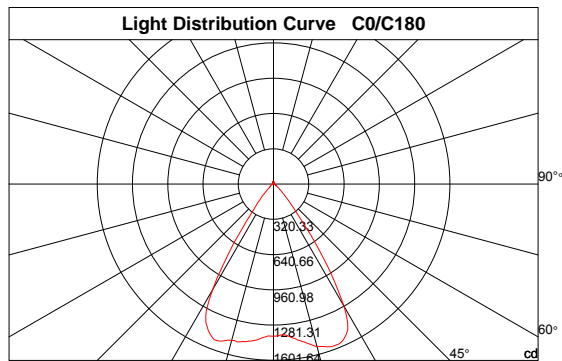
Angle of maximum intensity: C:270.0 G:20.0

Half Peak Side Angle(50%): Left: -12.9 Right:53.9

Up Flux Rate: 2.34%

Down Flux Rate: 84.23%

CIE Classification: Direct



R852 WWL (CRI90 500mA 70D)**Intensity Data [cd]****Page2**

C\γ	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	1380.8	1380.1	1375.9	1371.6	1371.6	1380.1	1392.9	1405.7	1418.5	1435.5
30.0	1380.8	1380.1	1371.6	1367.4	1375.9	1380.1	1388.7	1392.9	1410.0	1418.5
60.0	1380.8	1380.1	1375.9	1375.9	1375.9	1388.7	1392.9	1397.2	1410.0	1422.7
90.0	1380.8	1380.1	1375.9	1375.9	1384.4	1392.9	1401.4	1410.0	1418.5	1422.7
120.0	1380.8	1375.9	1375.9	1384.4	1397.2	1401.4	1410.0	1418.5	1427.0	1431.3
150.0	1380.8	1380.1	1380.1	1384.4	1397.2	1405.7	1414.2	1427.0	1431.3	1435.5
180.0	1380.8	1380.1	1380.1	1388.7	1397.2	1410.0	1422.7	1431.3	1439.8	1444.0
210.0	1380.8	1380.1	1384.4	1384.4	1397.2	1410.0	1422.7	1435.5	1452.6	1461.1
240.0	1380.8	1384.4	1380.1	1388.7	1397.2	1410.0	1427.0	1444.0	1461.1	1473.8
270.0	1380.8	1375.9	1375.9	1375.9	1388.7	1405.7	1427.0	1444.0	1461.1	1473.8
300.0	1380.8	1380.1	1380.1	1375.9	1380.1	1384.4	1401.4	1414.2	1435.5	1452.6
330.0	1380.8	1375.9	1380.1	1375.9	1375.9	1384.4	1397.2	1410.0	1427.0	1439.8
360.0	1380.8	1380.1	1375.9	1371.6	1371.6	1380.1	1392.9	1405.7	1418.5	1435.5

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1448.3	1461.1	1478.1	1495.1	1512.2	1529.2	1533.5	1542.0	1554.8	1563.3
30.0	1439.8	1452.6	1465.3	1490.9	1507.9	1525.0	1525.0	1533.5	1550.5	1559.0
60.0	1431.3	1439.8	1456.8	1469.6	1490.9	1503.7	1512.2	1525.0	1537.7	1550.5
90.0	1431.3	1435.5	1444.0	1465.3	1478.1	1486.6	1499.4	1512.2	1529.2	1546.3
120.0	1435.5	1439.8	1448.3	1456.8	1461.1	1469.6	1478.1	1495.1	1516.4	1533.5
150.0	1439.8	1444.0	1452.6	1452.6	1456.8	1461.1	1469.6	1490.9	1507.9	1525.0
180.0	1452.6	1456.8	1465.3	1469.6	1465.3	1469.6	1473.8	1486.6	1499.4	1507.9
210.0	1469.6	1482.4	1490.9	1503.7	1512.2	1512.2	1520.7	1542.0	1554.8	1571.8
240.0	1482.4	1486.6	1503.7	1516.4	1525.0	1533.5	1546.3	1571.8	1588.9	1597.4
270.0	1478.1	1482.4	1495.1	1507.9	1520.7	1529.2	1542.0	1571.8	1584.6	1597.4
300.0	1465.3	1473.8	1482.4	1499.4	1512.2	1525.0	1537.7	1550.5	1563.3	1576.1
330.0	1456.8	1473.8	1486.6	1512.2	1520.7	1533.5	1542.0	1554.8	1571.8	1576.1
360.0	1448.3	1461.1	1478.1	1495.1	1512.2	1529.2	1533.5	1542.0	1554.8	1563.3

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1567.6	1567.6	1567.6	1563.3	1550.5	1533.5	1512.2	1482.4	1435.5	1367.4
30.0	1571.8	1580.3	1580.3	1580.3	1576.1	1559.0	1533.5	1512.2	1473.8	1401.4
60.0	1567.6	1576.1	1576.1	1584.6	1580.3	1563.3	1550.5	1520.7	1465.3	1392.9
90.0	1554.8	1567.6	1580.3	1580.3	1576.1	1559.0	1542.0	1499.4	1452.6	1375.9
120.0	1546.3	1550.5	1554.8	1546.3	1533.5	1516.4	1486.6	1452.6	1388.7	1307.7
150.0	1533.5	1537.7	1529.2	1520.7	1503.7	1482.4	1452.6	1422.7	1346.1	1265.1
180.0	1512.2	1512.2	1495.1	1478.1	1456.8	1427.0	1401.4	1354.6	1303.5	1209.8
210.0	1576.1	1571.8	1546.3	1525.0	1490.9	1465.3	1435.5	1375.9	1312.0	1222.5
240.0	1597.4	1593.1	1571.8	1542.0	1516.4	1473.8	1439.8	1375.9	1316.2	1218.3
270.0	1601.6	1597.4	1584.6	1563.3	1529.2	1499.4	1465.3	1414.2	1341.8	1265.1
300.0	1584.6	1584.6	1580.3	1563.3	1546.3	1525.0	1503.7	1465.3	1405.7	1337.5
330.0	1584.6	1588.9	1580.3	1571.8	1554.8	1542.0	1525.0	1482.4	1444.0	1375.9
360.0	1567.6	1567.6	1567.6	1563.3	1550.5	1533.5	1512.2	1482.4	1435.5	1367.4

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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	1277.9	1154.4	1047.9	932.9	800.8	690.1	579.3	460.0	387.6	323.7
30.0	1307.7	1184.2	1069.2	958.4	805.1	694.3	592.1	477.1	408.9	349.3
60.0	1282.2	1171.4	1064.9	937.1	817.9	702.8	553.8	460.0	391.9	323.7
90.0	1260.9	1158.6	1047.9	911.6	783.8	664.5	519.7	430.2	353.6	306.7
120.0	1205.5	1056.4	932.9	813.6	673.0	562.3	464.3	362.1	323.7	259.8
150.0	1167.2	1030.8	907.3	766.7	656.0	545.2	417.4	349.3	302.4	255.6
180.0	1107.5	996.8	860.5	749.7	643.2	502.6	417.4	332.3	289.7	251.3
210.0	1120.3	971.2	873.2	762.5	617.7	511.2	400.4	332.3	285.4	238.5
240.0	1094.7	979.7	864.7	736.9	634.7	528.2	400.4	319.5	272.6	234.3
270.0	1167.2	1018.1	903.1	788.0	656.0	549.5	421.7	340.8	285.4	242.8
300.0	1214.0	1103.3	988.2	877.5	745.4	634.7	502.6	408.9	336.5	285.4
330.0	1256.6	1150.1	1043.6	911.6	800.8	647.5	541.0	443.0	357.8	306.7
360.0	1277.9	1154.4	1047.9	932.9	800.8	690.1	579.3	460.0	387.6	323.7

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	281.1	238.5	208.7	183.2	157.6	132.1	115.0	102.2	89.5	80.9
30.0	276.9	242.8	208.7	183.2	161.9	140.6	119.3	98.0	85.2	72.4
60.0	276.9	230.0	208.7	183.2	157.6	132.1	106.5	85.2	72.4	63.9
90.0	259.8	217.2	187.4	161.9	136.3	115.0	93.7	80.9	72.4	63.9
120.0	225.8	195.9	166.1	140.6	119.3	98.0	85.2	76.7	68.2	59.6
150.0	225.8	191.7	161.9	140.6	115.0	98.0	85.2	72.4	63.9	59.6
180.0	221.5	191.7	170.4	149.1	127.8	102.2	89.5	76.7	68.2	59.6
210.0	213.0	183.2	161.9	144.8	132.1	115.0	98.0	89.5	76.7	68.2
240.0	208.7	178.9	157.6	140.6	123.5	110.8	98.0	89.5	76.7	68.2
270.0	217.2	191.7	166.1	149.1	132.1	110.8	102.2	89.5	80.9	72.4
300.0	238.5	217.2	195.9	170.4	157.6	136.3	110.8	93.7	85.2	80.9
330.0	268.4	230.0	204.5	174.6	157.6	140.6	119.3	102.2	93.7	85.2
360.0	281.1	238.5	208.7	183.2	157.6	132.1	115.0	102.2	89.5	80.9

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	68.2	59.6	51.1	42.6	38.3	34.1	34.1	29.8	29.8	29.8
30.0	63.9	51.1	46.9	42.6	38.3	34.1	34.1	29.8	29.8	29.8
60.0	59.6	51.1	42.6	38.3	38.3	34.1	34.1	29.8	29.8	29.8
90.0	55.4	51.1	46.9	38.3	34.1	38.3	34.1	29.8	29.8	29.8
120.0	51.1	46.9	42.6	38.3	34.1	34.1	29.8	29.8	29.8	29.8
150.0	51.1	42.6	42.6	38.3	38.3	34.1	34.1	29.8	29.8	29.8
180.0	55.4	46.9	42.6	38.3	38.3	34.1	34.1	34.1	29.8	29.8
210.0	55.4	51.1	42.6	38.3	34.1	34.1	34.1	34.1	29.8	29.8
240.0	59.6	51.1	42.6	38.3	38.3	34.1	34.1	29.8	29.8	29.8
270.0	63.9	55.4	42.6	38.3	38.3	34.1	34.1	34.1	29.8	29.8
300.0	72.4	68.2	51.1	38.3	38.3	34.1	34.1	29.8	29.8	29.8
330.0	76.7	63.9	55.4	38.3	34.1	34.1	34.1	34.1	29.8	29.8
360.0	68.2	59.6	51.1	42.6	38.3	34.1	34.1	29.8	29.8	29.8

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Intensity Data [cd]

C\γ	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	25.6	25.6	25.6	25.6	21.3	25.6	21.3	21.3	21.3	17.0
30.0	29.8	25.6	25.6	21.3	21.3	21.3	21.3	21.3	17.0	17.0
60.0	25.6	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	17.0
90.0	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	21.3	17.0
120.0	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	17.0	17.0
150.0	25.6	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	21.3
180.0	29.8	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	17.0
210.0	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	21.3	17.0
240.0	29.8	25.6	25.6	25.6	25.6	25.6	21.3	21.3	21.3	17.0
270.0	29.8	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	17.0
300.0	29.8	25.6	25.6	25.6	25.6	21.3	21.3	21.3	21.3	17.0
330.0	29.8	25.6	25.6	25.6	21.3	21.3	21.3	21.3	21.3	17.0
360.0	25.6	25.6	25.6	25.6	21.3	25.6	21.3	21.3	21.3	17.0

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	17.0	17.0	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
30.0	17.0	12.8	12.8	12.8	8.5	12.8	8.5	8.5	4.3	8.5
60.0	12.8	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
90.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
120.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	4.3	8.5
150.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
180.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	4.3	4.3
210.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	4.3	8.5
240.0	17.0	12.8	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5
270.0	17.0	17.0	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
300.0	17.0	17.0	12.8	12.8	12.8	8.5	8.5	4.3	8.5	8.5
330.0	17.0	17.0	12.8	12.8	12.8	8.5	8.5	8.5	8.5	4.3
360.0	17.0	17.0	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	8.5	4.3	4.3
30.0	4.3	8.5	8.5	4.3	4.3	4.3	8.5	8.5	4.3	4.3
60.0	8.5	8.5	4.3	8.5	8.5	8.5	4.3	4.3	4.3	4.3
90.0	8.5	4.3	4.3	4.3	8.5	8.5	8.5	4.3	8.5	4.3
120.0	8.5	8.5	8.5	8.5	4.3	4.3	4.3	8.5	8.5	8.5
150.0	8.5	8.5	8.5	4.3	4.3	8.5	8.5	8.5	4.3	4.3
180.0	8.5	8.5	4.3	4.3	4.3	8.5	4.3	4.3	4.3	4.3
210.0	4.3	8.5	8.5	4.3	8.5	4.3	4.3	4.3	8.5	4.3
240.0	4.3	4.3	8.5	8.5	4.3	8.5	4.3	8.5	8.5	8.5
270.0	4.3	4.3	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3
300.0	8.5	8.5	4.3	8.5	8.5	4.3	8.5	4.3	4.3	8.5
330.0	8.5	4.3	8.5	4.3	4.3	4.3	4.3	8.5	4.3	4.3
360.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	8.5	4.3	4.3

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Intensity Data [cd]

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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	4.3	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	4.3
30.0	8.5	4.3	4.3	4.3	4.3	4.3	8.5	8.5	8.5	4.3
60.0	4.3	4.3	8.5	4.3	8.5	4.3	4.3	4.3	4.3	4.3
90.0	8.5	4.3	8.5	4.3	4.3	4.3	4.3	4.3	8.5	8.5
120.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
150.0	4.3	8.5	8.5	4.3	4.3	4.3	8.5	4.3	4.3	4.3
180.0	4.3	4.3	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
210.0	8.5	4.3	4.3	4.3	4.3	4.3	8.5	8.5	4.3	4.3
240.0	4.3	4.3	4.3	8.5	4.3	4.3	4.3	4.3	4.3	4.3
270.0	4.3	4.3	8.5	8.5	4.3	8.5	4.3	4.3	4.3	4.3
300.0	4.3	8.5	4.3	4.3	4.3	4.3	4.3	8.5	4.3	4.3
330.0	4.3	8.5	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
360.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	4.3

C\γ	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0
0.0	4.3	4.3	4.3	8.5	8.5	4.3	4.3	4.3	4.3	8.5
30.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
60.0	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	8.5	4.3
90.0	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	4.3	4.3
120.0	4.3	8.5	4.3	4.3	8.5	4.3	8.5	4.3	4.3	4.3
150.0	4.3	8.5	8.5	4.3	4.3	4.3	4.3	8.5	4.3	4.3
180.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
210.0	4.3	8.5	4.3	4.3	4.3	8.5	4.3	4.3	4.3	4.3
240.0	4.3	8.5	4.3	4.3	4.3	4.3	4.3	4.3	8.5	4.3
270.0	4.3	4.3	8.5	4.3	4.3	4.3	4.3	4.3	4.3	8.5
300.0	8.5	4.3	4.3	4.3	4.3	8.5	4.3	4.3	8.5	8.5
330.0	4.3	4.3	8.5	8.5	4.3	4.3	8.5	8.5	4.3	4.3
360.0	4.3	4.3	4.3	8.5	8.5	4.3	4.3	4.3	4.3	8.5

C\γ	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0
0.0	8.5	4.3	8.5	4.3	4.3	4.3	8.5	4.3	4.3	4.3
30.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5	8.5	4.3
60.0	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	4.3	8.5
90.0	4.3	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
120.0	4.3	8.5	4.3	4.3	8.5	4.3	4.3	4.3	4.3	4.3
150.0	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
180.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	4.3	4.3	4.3
210.0	4.3	8.5	4.3	8.5	4.3	8.5	8.5	4.3	4.3	4.3
240.0	4.3	8.5	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
270.0	4.3	4.3	8.5	4.3	8.5	4.3	4.3	8.5	4.3	4.3
300.0	4.3	8.5	4.3	4.3	8.5	4.3	4.3	8.5	4.3	4.3
330.0	4.3	4.3	8.5	8.5	4.3	8.5	8.5	4.3	8.5	4.3
360.0	8.5	4.3	8.5	4.3	4.3	4.3	8.5	4.3	4.3	4.3

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Intensity Data [cd]

C\γ	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0
0.0	8.5	4.3	4.3	4.3	4.3	4.3	8.5	8.5	4.3	4.3
30.0	4.3	4.3	4.3	8.5	4.3	8.5	4.3	8.5	4.3	4.3
60.0	8.5	8.5	4.3	4.3	4.3	8.5	8.5	4.3	4.3	4.3
90.0	4.3	4.3	8.5	4.3	8.5	4.3	8.5	8.5	8.5	4.3
120.0	4.3	4.3	4.3	4.3	8.5	4.3	8.5	4.3	8.5	8.5
150.0	8.5	8.5	4.3	4.3	4.3	8.5	8.5	4.3	8.5	8.5
180.0	8.5	4.3	4.3	8.5	4.3	8.5	8.5	4.3	8.5	8.5
210.0	8.5	4.3	4.3	4.3	8.5	8.5	8.5	8.5	8.5	8.5
240.0	4.3	8.5	4.3	4.3	4.3	8.5	4.3	8.5	8.5	8.5
270.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5
300.0	4.3	4.3	4.3	4.3	4.3	8.5	4.3	4.3	8.5	8.5
330.0	8.5	4.3	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
360.0	8.5	4.3	4.3	4.3	4.3	4.3	8.5	8.5	4.3	4.3

C\γ	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0
0.0	8.5	8.5	8.5	4.3	8.5	8.5	8.5	8.5	8.5	8.5
30.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
60.0	4.3	4.3	4.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5
90.0	4.3	8.5	4.3	8.5	8.5	4.3	8.5	8.5	8.5	8.5
120.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
150.0	8.5	4.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	12.8
180.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
210.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	12.8	12.8
240.0	4.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
270.0	8.5	8.5	8.5	8.5	4.3	8.5	8.5	8.5	8.5	12.8
300.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
330.0	8.5	8.5	4.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5
360.0	8.5	8.5	8.5	4.3	8.5	8.5	8.5	8.5	8.5	8.5

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

R852 WWL (CRI90 500mA 70D)**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	12.8	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
30.0	12.8	12.8	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8
60.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	17.0	17.0
90.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	17.0	17.0
120.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
150.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	21.3	17.0	21.3
180.0	17.0	12.8	17.0	17.0	17.0	17.0	17.0	21.3	17.0	21.3
210.0	17.0	17.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0
240.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0	21.3	17.0
270.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
300.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	17.0
330.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	17.0	17.0
360.0	12.8	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8

C\γ	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3
30.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3
60.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3
90.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3	21.3
120.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
150.0	17.0	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	21.3	21.3	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	17.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
270.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
300.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3
330.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3	21.3
360.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3

C\γ	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6
30.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6	25.6
60.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6	25.6
90.0	21.3	21.3	21.3	21.3	21.3	25.6	21.3	25.6	25.6	25.6
120.0	21.3	21.3	25.6	21.3	25.6	25.6	21.3	21.3	25.6	25.6
150.0	21.3	25.6	21.3	25.6	21.3	21.3	25.6	25.6	21.3	25.6
180.0	25.6	25.6	25.6	21.3	21.3	21.3	25.6	21.3	25.6	25.6
210.0	21.3	25.6	21.3	25.6	25.6	25.6	21.3	21.3	25.6	25.6
240.0	21.3	25.6	21.3	25.6	25.6	21.3	25.6	25.6	25.6	21.3
270.0	21.3	25.6	25.6	25.6	21.3	25.6	21.3	25.6	21.3	21.3
300.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6
330.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6
360.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6

Intensity Data [cd]

C\γ	180.0
0.0	25.6
30.0	21.3
60.0	25.6
90.0	25.6
120.0	21.3
150.0	25.6
180.0	25.6
210.0	21.3
240.0	25.6
270.0	25.6
300.0	21.3
330.0	25.6
360.0	25.6

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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	1380.79	0.00	0.00	0.00	0.00
1	1379.43	1.32	1.32	1.32	1.32
2	1378.01	3.96	5.28	3.96	5.28
3	1379.07	6.59	11.87	6.59	11.87
4	1386.53	9.26	21.13	9.26	21.13
5	1396.11	11.97	33.10	11.97	33.10
6	1408.18	14.74	47.84	14.74	47.84
7	1419.18	17.55	65.39	17.55	65.39
8	1432.67	20.41	85.80	20.41	85.80
9	1442.61	23.30	109.10	23.30	109.10
10	1452.55	26.20	135.30	26.20	135.30
11	1460.72	29.11	164.41	29.11	164.41
12	1472.43	32.06	196.47	32.06	196.47
13	1486.63	35.12	231.59	35.12	231.59
14	1496.92	38.19	269.78	38.19	269.78
15	1506.51	41.23	311.01	41.23	311.01
16	1515.03	44.27	355.29	44.27	355.29
17	1531.36	47.44	402.73	47.44	402.73
18	1546.62	50.75	453.48	50.75	453.48
19	1558.69	54.03	507.50	54.03	507.50
20	1566.50	57.20	564.70	57.20	564.70
21	1568.98	60.21	624.91	60.21	624.91
22	1562.24	62.92	687.83	62.92	687.83
23	1551.59	65.34	753.17	65.34	753.17
24	1534.55	67.47	820.64	67.47	820.64
25	1512.19	69.28	889.92	69.28	889.92
26	1487.34	70.80	960.72	70.80	960.72
27	1446.52	71.78	1032.50	71.78	1032.50
28	1390.43	71.83	1104.33	71.83	1104.33
29	1311.63	70.69	1175.02	70.69	1175.02
30	1205.14	67.95	1242.97	67.95	1242.97
31	1081.25	63.63	1306.60	63.63	1306.60
32	966.95	58.68	1365.28	58.68	1365.28
33	845.55	53.40	1418.67	53.40	1418.67
34	719.53	47.36	1466.04	47.36	1466.04
35	602.75	41.07	1507.10	41.07	1507.10
36	484.18	34.61	1541.71	34.61	1541.71
37	392.96	28.61	1570.32	28.61	1570.32
38	332.97	24.23	1594.55	24.23	1594.55
39	281.49	20.97	1615.52	20.97	1615.52
40	242.80	18.29	1633.81	18.29	1633.81

R852 WWL (CRI90 500mA 70D)

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	209.08	16.09	1649.90	16.09	1649.90
42	183.17	14.25	1664.15	14.25	1664.15
43	160.09	12.72	1676.86	7.97	1672.12
44	139.86	11.32	1688.19	4.25	1676.37
45	119.27	9.96	1698.14	0.00	1676.37
46	101.88	8.65	1706.79	0.00	1676.37
47	88.03	7.55	1714.35	0.00	1676.37
48	77.74	6.70	1721.05	0.00	1676.37
49	69.57	6.05	1727.10	0.00	1676.37
50	61.06	5.45	1732.54	0.00	1676.37
51	53.25	4.84	1737.38	0.00	1676.37
52	45.79	4.25	1741.63	0.00	1676.37
53	39.05	3.69	1745.32	0.00	1676.37
54	36.92	3.35	1748.67	0.00	1676.37
55	34.43	3.18	1751.85	0.00	1676.37
56	33.72	3.08	1754.93	0.00	1676.37
57	31.24	2.97	1757.90	0.00	1676.37
58	29.82	2.82	1760.73	0.00	1676.37
59	29.82	2.79	1763.51	0.00	1676.37
60	27.69	2.72	1766.23	0.00	1676.37
61	25.56	2.54	1768.77	0.00	1676.37
62	25.56	2.46	1771.23	0.00	1676.37
63	25.20	2.47	1773.70	0.00	1676.37
64	23.43	2.39	1776.09	0.00	1676.37
65	22.01	2.25	1778.34	0.00	1676.37
66	21.30	2.16	1780.50	0.00	1676.37
67	21.30	2.14	1782.64	0.00	1676.37
68	20.59	2.12	1784.76	0.00	1676.37
69	17.39	1.94	1786.70	0.00	1676.37
70	16.68	1.75	1788.45	0.00	1676.37
71	14.20	1.60	1790.04	0.00	1676.37
72	12.78	1.40	1791.45	0.00	1676.37
73	12.78	1.34	1792.78	0.00	1676.37
74	12.42	1.32	1794.11	0.00	1676.37
75	9.23	1.14	1795.25	0.00	1676.37
76	8.52	0.94	1796.19	0.00	1676.37
77	8.16	0.89	1797.08	0.00	1676.37
78	7.10	0.82	1797.90	0.00	1676.37
79	7.81	0.80	1798.70	0.00	1676.37
80	7.10	0.80	1799.51	0.00	1676.37
81	7.10	0.77	1800.27	0.00	1676.37

R852 WWL (CRI90 500mA 70D)

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	7.10	0.77	1801.04	0.00	1676.37
83	6.39	0.73	1801.78	0.00	1676.37
84	6.39	0.70	1802.47	0.00	1676.37
85	6.39	0.70	1803.17	0.00	1676.37
86	5.68	0.66	1803.83	0.00	1676.37
87	6.39	0.66	1804.49	0.00	1676.37
88	5.68	0.66	1805.15	0.00	1676.37
89	5.32	0.60	1805.75	0.00	1676.37
90	5.32	0.58	1806.34	0.00	1676.37
91	5.32	0.58	1806.92	0.00	1676.37
92	6.39	0.64	1807.56	0.00	1676.37
93	4.97	0.62	1808.19	0.00	1676.37
94	4.61	0.52	1808.71	0.00	1676.37
95	4.61	0.50	1809.21	0.00	1676.37
96	5.68	0.56	1809.78	0.00	1676.37
97	5.32	0.60	1810.38	0.00	1676.37
98	5.32	0.58	1810.95	0.00	1676.37
99	4.61	0.54	1811.49	0.00	1676.37
100	4.61	0.50	1811.99	0.00	1676.37
101	5.68	0.55	1812.55	0.00	1676.37
102	5.32	0.59	1813.14	0.00	1676.37
103	4.97	0.55	1813.69	0.00	1676.37
104	4.97	0.53	1814.22	0.00	1676.37
105	5.68	0.57	1814.79	0.00	1676.37
106	4.97	0.56	1815.35	0.00	1676.37
107	5.68	0.56	1815.91	0.00	1676.37
108	5.32	0.58	1816.48	0.00	1676.37
109	5.32	0.55	1817.04	0.00	1676.37
110	4.97	0.53	1817.57	0.00	1676.37
111	6.03	0.57	1818.13	0.00	1676.37
112	5.68	0.60	1818.73	0.00	1676.37
113	4.97	0.54	1819.27	0.00	1676.37
114	5.32	0.52	1819.79	0.00	1676.37
115	5.32	0.53	1820.32	0.00	1676.37
116	6.03	0.56	1820.88	0.00	1676.37
117	5.68	0.57	1821.46	0.00	1676.37
118	4.97	0.52	1821.98	0.00	1676.37
119	4.61	0.46	1822.44	0.00	1676.37
120	6.39	0.53	1822.96	0.00	1676.37
121	5.32	0.55	1823.52	0.00	1676.37
122	4.97	0.48	1824.00	0.00	1676.37

R852 WWL (CRI90 500mA 70D)

Zonal flux distribution table

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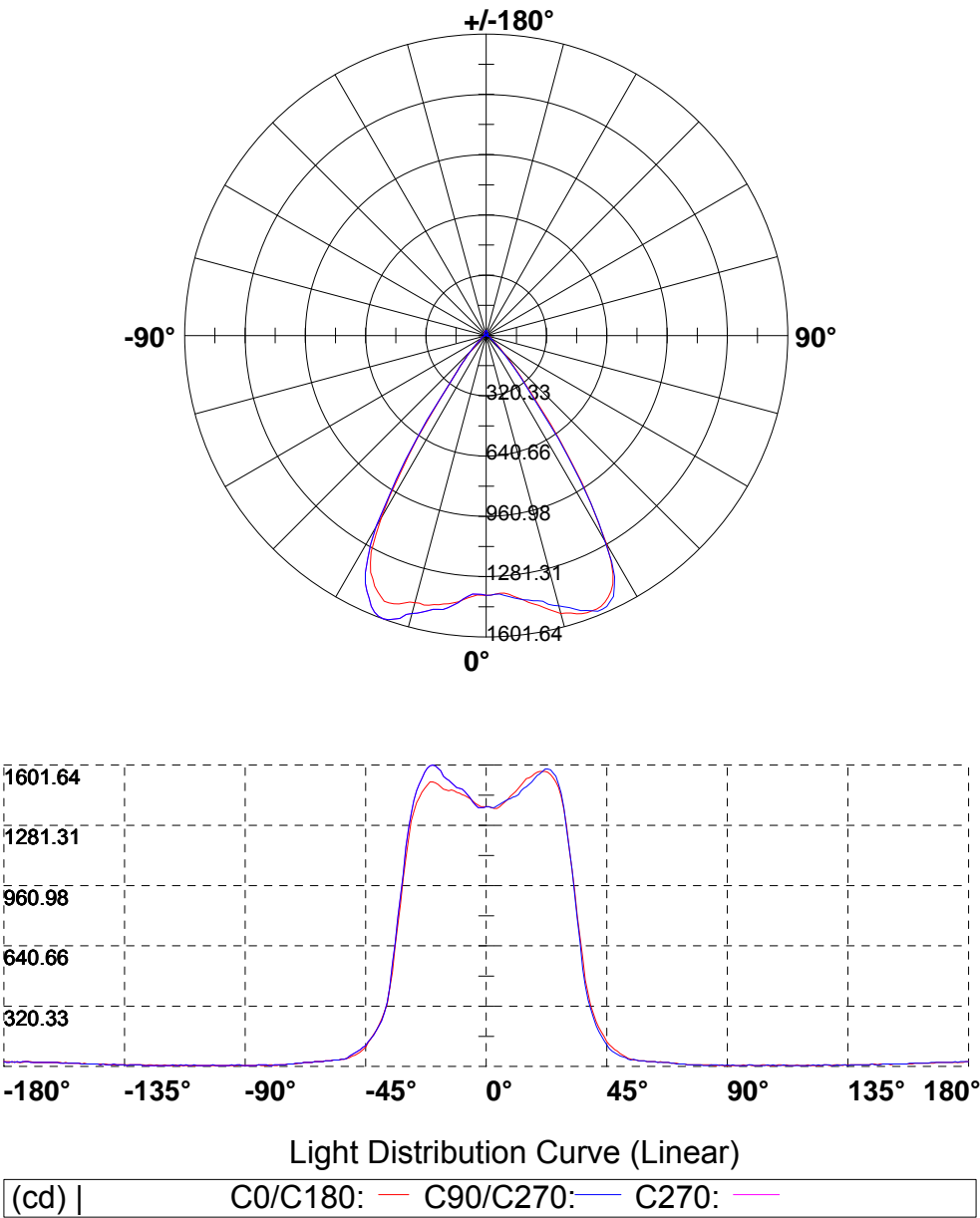
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	4.97	0.46	1824.46	0.00	1676.37
124	5.32	0.47	1824.93	0.00	1676.37
125	6.74	0.55	1825.47	0.00	1676.37
126	6.74	0.60	1826.07	0.00	1676.37
127	6.03	0.56	1826.64	0.00	1676.37
128	6.74	0.56	1827.19	0.00	1676.37
129	6.74	0.58	1827.77	0.00	1676.37
130	7.45	0.60	1828.37	0.00	1676.37
131	7.81	0.64	1829.01	0.00	1676.37
132	7.45	0.63	1829.64	0.00	1676.37
133	8.16	0.63	1830.27	0.00	1676.37
134	8.16	0.65	1830.92	0.00	1676.37
135	8.16	0.64	1831.56	0.00	1676.37
136	8.52	0.64	1832.20	0.00	1676.37
137	8.52	0.64	1832.84	0.00	1676.37
138	8.87	0.64	1833.49	0.00	1676.37
139	9.58	0.67	1834.16	0.00	1676.37
140	8.52	0.64	1834.80	0.00	1676.37
141	8.87	0.61	1835.41	0.00	1676.37
142	9.58	0.63	1836.04	0.00	1676.37
143	10.65	0.68	1836.71	0.00	1676.37
144	11.00	0.71	1837.42	0.00	1676.37
145	11.71	0.72	1838.14	0.00	1676.37
146	11.36	0.72	1838.86	0.00	1676.37
147	12.07	0.71	1839.57	0.00	1676.37
148	12.78	0.73	1840.30	0.00	1676.37
149	12.78	0.73	1841.03	0.00	1676.37
150	13.84	0.74	1841.77	0.00	1676.37
151	13.13	0.73	1842.50	0.00	1676.37
152	14.20	0.72	1843.22	0.00	1676.37
153	14.91	0.74	1843.95	0.00	1676.37
154	14.91	0.73	1844.68	0.00	1676.37
155	14.91	0.70	1845.39	0.00	1676.37
156	14.91	0.68	1846.07	0.00	1676.37
157	15.62	0.67	1846.73	0.00	1676.37
158	16.33	0.67	1847.40	0.00	1676.37
159	17.04	0.67	1848.07	0.00	1676.37
160	18.81	0.69	1848.76	0.00	1676.37
161	18.81	0.69	1849.45	0.00	1676.37
162	19.17	0.66	1850.11	0.00	1676.37
163	19.17	0.63	1850.75	0.00	1676.37

R852 WWL (CRI90 500mA 70D)

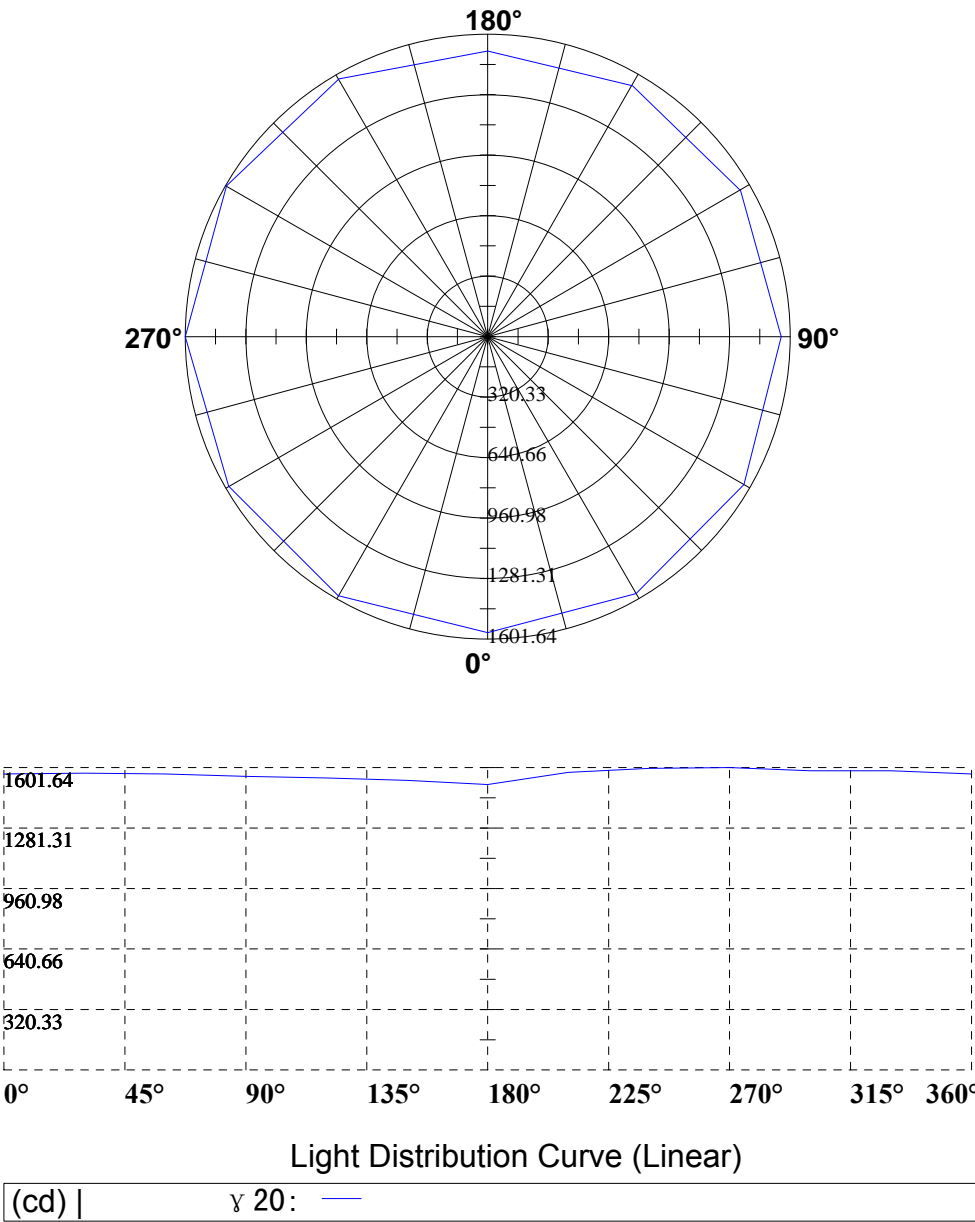
Zonal flux distribution table

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[illegible]



Horizontal cone through Max.cd [Unit: cd]



ISO-Illuminance

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Unit: [lx]

5.

400.01 (100%Emax)

360.37 (90%Emax)

320.33 (80%Emax)

280.29 (70%Emax)

240.25 (60%Emax)

200.21 (50%Emax)

160.16 (40%Emax)

120.12 (30%Emax)

80.08 (20%Emax)

40.04 (10%Emax)

4.

3.

2.

1.

0.

1.

2.

3.

4.

5.

5.

4.

3.

2.

1.

0.

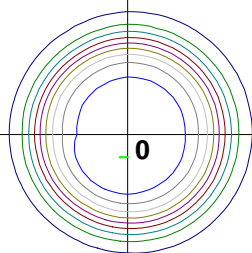
1.

2.

3.

4.

5.



Coordinate Scale: d/h

Height: 2 m

Max Illuminance : 400.41lx

Luminance Limiting Curve (There is not luminous side)

Diameter: 115mm

Length: -115mm

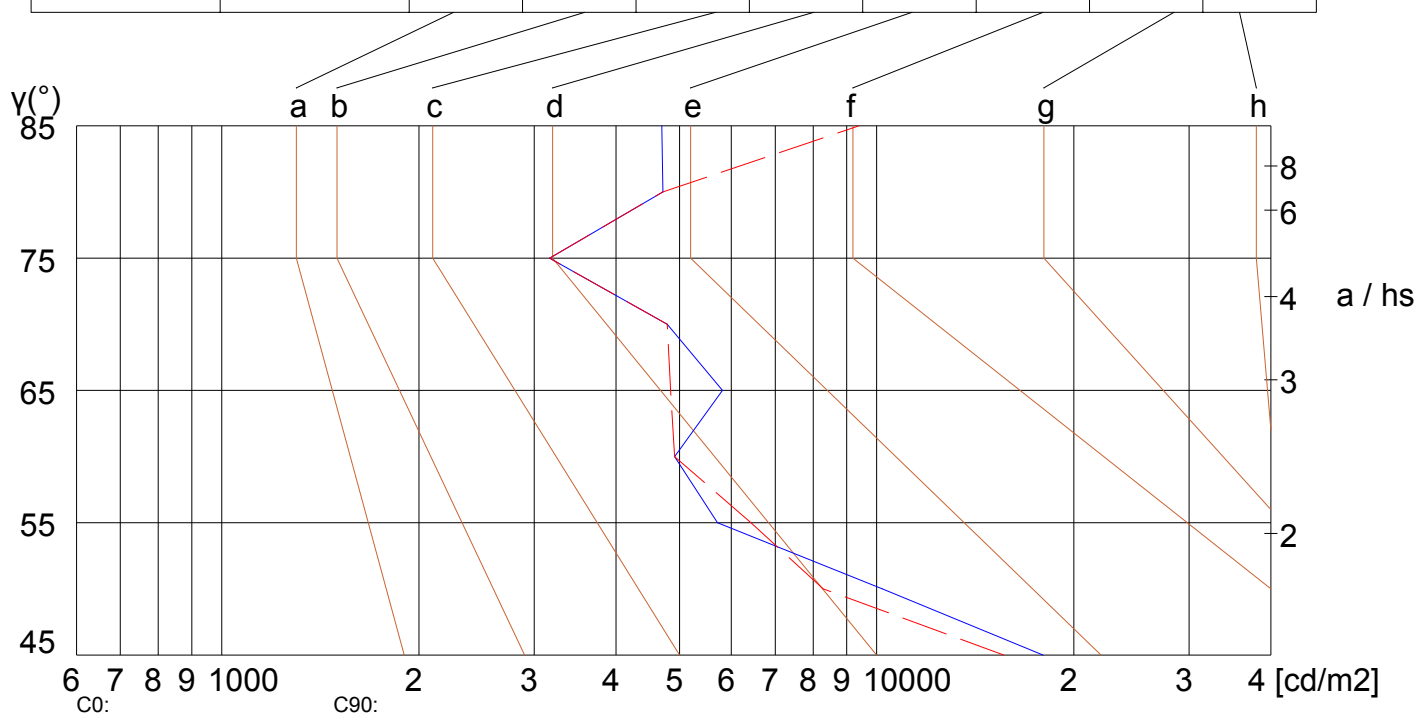
Width: -115mm

Height: 72mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	15639	8284	6427	4915	4846	4790	3165	4717	9399
C90	17956	10195	5713	4915	5815	4790	3165	4717	4699

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)

R852 WWL (CRI90 500mA 70D)

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	0.98	0.97	0.97	0.96	0.96	0.95	0.93	0.92	0.91	0.88	0.87	0.86	0.82	0.81	0.80	0.75
2	0.91	0.90	0.89	0.90	0.88	0.87	0.87	0.85	0.83	0.83	0.81	0.79	0.78	0.75	0.74	0.70
3	0.84	0.83	0.82	0.83	0.82	0.80	0.81	0.79	0.77	0.77	0.75	0.73	0.73	0.70	0.68	0.64
4	0.78	0.77	0.76	0.78	0.76	0.74	0.75	0.73	0.71	0.73	0.70	0.67	0.69	0.66	0.63	0.60
5	0.73	0.72	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.68	0.65	0.62	0.65	0.62	0.59	0.55
6	0.68	0.67	0.66	0.68	0.66	0.64	0.66	0.63	0.61	0.64	0.61	0.58	0.62	0.58	0.55	0.52
7	0.64	0.62	0.61	0.63	0.61	0.60	0.62	0.59	0.57	0.60	0.57	0.54	0.58	0.54	0.51	0.48
8	0.60	0.58	0.57	0.59	0.57	0.56	0.58	0.55	0.53	0.57	0.53	0.51	0.55	0.51	0.48	0.45
9	0.56	0.55	0.54	0.56	0.54	0.52	0.55	0.52	0.50	0.54	0.50	0.47	0.52	0.48	0.45	0.42
10	0.53	0.51	0.50	0.52	0.50	0.49	0.52	0.49	0.47	0.51	0.47	0.45	0.50	0.45	0.42	0.40

