

R852 WWL (CRI90 500mA 30D)

Luminaire Name: R852 WWL (CRI90 500mA 30D)

Report NO.: 01313217030103A

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: 230.76 V

Current: 0.0913 A

Power: 20.713 W

Power Factor: 0.9828

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

Width: -115mm

Height: 72mm

Optical Component: 30D Reflector DC(V:34.21V I:0.493A P:16.866W)

Photometric Results

Lumens: 1748.23 lm

Efficiency: 81.52%

Central Intensity: 3934.965cd

Maximum Intensity: 3944.467cd

Beam Angle(10%): Left: -33.9 Right:32.7

Maximum s/h: C0_180: 0.3 C90_270: 0.29

Effective Luminous Flux: 1544.94 lm

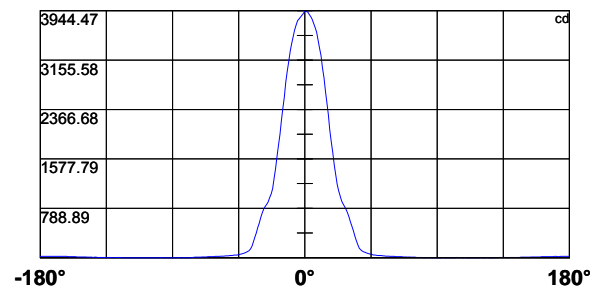
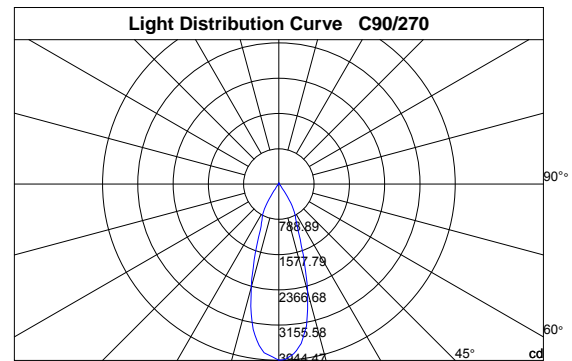
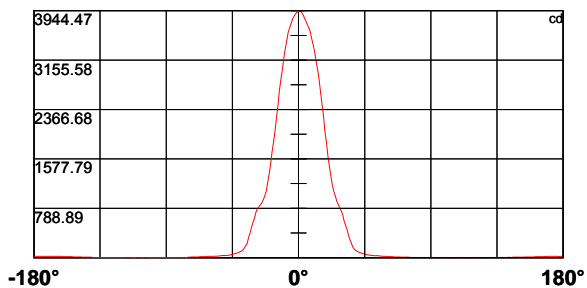
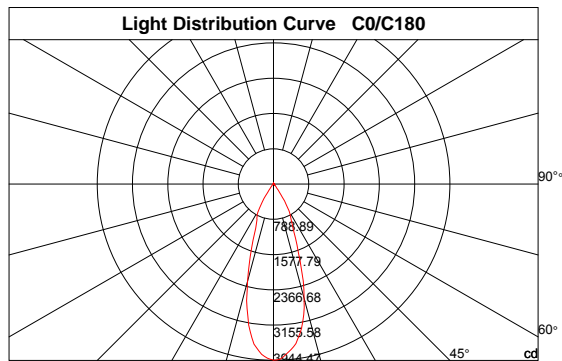
Angle of maximum intensity: C:30.0 G:1.0

Half Peak Side Angle(50%): Left: -17.5 Right:17.3

Up Flux Rate: 1.28%

Down Flux Rate: 80.24%

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	3935.0	3931.7	3918.9	3884.8	3829.5	3778.3	3723.0	3667.6	3603.7	3492.9
30.0	3935.0	3944.5	3923.2	3889.1	3833.7	3778.3	3735.7	3684.6	3616.5	3527.0
60.0	3935.0	3940.2	3927.4	3889.1	3850.8	3803.9	3748.5	3701.7	3612.2	3518.5
90.0	3935.0	3931.7	3923.2	3884.8	3850.8	3808.2	3744.3	3671.8	3599.4	3471.6
120.0	3935.0	3923.2	3914.6	3884.8	3855.0	3799.6	3718.7	3633.5	3518.5	3407.7
150.0	3935.0	3935.9	3910.4	3876.3	3825.2	3774.1	3705.9	3616.5	3492.9	3339.6
180.0	3935.0	3918.9	3897.6	3859.3	3816.7	3748.5	3671.8	3603.7	3467.4	3343.9
210.0	3935.0	3914.6	3884.8	3855.0	3820.9	3757.0	3684.6	3586.7	3480.2	3360.9
240.0	3935.0	3906.1	3884.8	3850.8	3808.2	3769.8	3684.6	3629.3	3518.5	3369.4
270.0	3935.0	3901.9	3872.1	3842.2	3812.4	3786.9	3710.2	3633.5	3527.0	3420.5
300.0	3935.0	3923.2	3901.9	3872.1	3842.2	3782.6	3740.0	3680.4	3590.9	3497.2
330.0	3935.0	3931.7	3910.4	3880.6	3833.7	3786.9	3731.5	3676.1	3595.2	3510.0
360.0	3935.0	3931.7	3918.9	3884.8	3829.5	3778.3	3723.0	3667.6	3603.7	3492.9

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	3395.0	3288.5	3143.6	2998.8	2841.2	2641.0	2453.6	2270.4	2019.1	1835.9
30.0	3403.5	3288.5	3156.4	2981.8	2828.4	2649.5	2428.0	2240.6	2057.4	1806.1
60.0	3407.7	3262.9	3122.3	2964.7	2764.5	2585.6	2330.0	2138.4	1955.2	1742.2
90.0	3348.1	3233.1	3037.2	2871.0	2658.0	2474.9	2287.4	2036.1	1857.2	1674.1
120.0	3271.4	3092.5	2926.4	2747.5	2509.0	2321.5	2138.4	1925.4	1746.5	1546.3
150.0	3207.5	3049.9	2832.7	2658.0	2474.9	2270.4	2087.2	1874.3	1703.9	1537.7
180.0	3203.3	3015.9	2845.5	2675.1	2432.3	2249.1	2040.4	1861.5	1691.1	1499.4
210.0	3203.3	3054.2	2819.9	2649.5	2466.4	2253.4	2070.2	1882.8	1682.6	1520.7
240.0	3228.8	3079.8	2896.6	2721.9	2543.0	2300.2	2117.1	1895.6	1712.4	1542.0
270.0	3301.3	3139.4	2973.3	2802.9	2564.3	2389.7	2198.0	1972.2	1784.8	1610.2
300.0	3395.0	3245.9	3101.0	2943.4	2713.4	2538.8	2325.8	2134.1	1938.2	1699.6
330.0	3403.5	3262.9	3135.1	2977.5	2760.3	2594.1	2411.0	2193.7	2006.3	1793.3
360.0	3395.0	3288.5	3143.6	2998.8	2841.2	2641.0	2453.6	2270.4	2019.1	1835.9

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1622.9	1461.1	1312.0	1167.2	1064.9	988.2	903.1	847.7	796.6	749.7
30.0	1627.2	1439.8	1290.7	1167.2	1052.1	979.7	898.8	851.9	809.3	754.0
60.0	1571.8	1410.0	1248.1	1133.1	1022.3	954.2	903.1	847.7	809.3	758.2
90.0	1478.1	1329.0	1175.7	1073.4	992.5	907.3	860.5	813.6	771.0	715.6
120.0	1380.1	1239.6	1086.2	1001.0	928.6	877.5	839.2	796.6	758.2	698.6
150.0	1329.0	1197.0	1086.2	992.5	932.9	881.8	834.9	809.3	775.3	694.3
180.0	1341.8	1209.8	1064.9	992.5	924.4	877.5	847.7	809.3	779.5	724.1
210.0	1363.1	1184.2	1077.7	996.8	928.6	886.0	839.2	809.3	771.0	694.3
240.0	1354.6	1214.0	1094.7	979.7	915.8	869.0	817.9	788.0	745.4	685.8
270.0	1418.5	1265.1	1103.3	1018.1	958.4	890.3	851.9	817.9	775.3	715.6
300.0	1554.8	1388.7	1205.5	1090.5	996.8	937.1	890.3	839.2	805.1	762.5
330.0	1614.4	1448.3	1260.9	1141.6	1047.9	962.7	907.3	856.2	809.3	766.7
360.0	1622.9	1461.1	1312.0	1167.2	1064.9	988.2	903.1	847.7	796.6	749.7

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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	690.1	587.8	511.2	447.3	353.6	285.4	225.8	166.1	132.1	115.0
30.0	685.8	609.1	511.2	447.3	374.9	285.4	225.8	174.6	132.1	115.0
60.0	668.8	596.4	536.7	443.0	366.3	302.4	230.0	178.9	136.3	119.3
90.0	651.7	570.8	498.4	426.0	340.8	272.6	208.7	153.3	123.5	106.5
120.0	600.6	528.2	455.8	370.6	302.4	225.8	174.6	132.1	106.5	93.7
150.0	621.9	536.7	464.3	387.6	289.7	230.0	183.2	127.8	110.8	102.2
180.0	630.4	558.0	481.3	391.9	319.5	230.0	191.7	149.1	119.3	102.2
210.0	621.9	549.5	464.3	387.6	285.4	234.3	178.9	127.8	110.8	98.0
240.0	613.4	519.7	451.5	379.1	298.2	230.0	183.2	127.8	106.5	93.7
270.0	643.2	549.5	481.3	396.2	328.0	255.6	183.2	136.3	110.8	98.0
300.0	685.8	617.7	549.5	464.3	391.9	315.2	230.0	178.9	140.6	119.3
330.0	677.3	604.9	532.5	464.3	362.1	293.9	230.0	170.4	136.3	119.3
360.0	690.1	587.8	511.2	447.3	353.6	285.4	225.8	166.1	132.1	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	102.2	89.5	80.9	72.4	63.9	55.4	51.1	46.9	42.6	38.3
30.0	102.2	89.5	80.9	72.4	68.2	59.6	55.4	46.9	42.6	38.3
60.0	106.5	93.7	85.2	76.7	63.9	55.4	51.1	42.6	42.6	38.3
90.0	93.7	85.2	76.7	68.2	59.6	55.4	46.9	42.6	42.6	38.3
120.0	85.2	76.7	72.4	63.9	59.6	51.1	42.6	42.6	38.3	38.3
150.0	89.5	80.9	72.4	63.9	59.6	51.1	42.6	42.6	38.3	38.3
180.0	93.7	80.9	72.4	68.2	59.6	51.1	46.9	42.6	38.3	38.3
210.0	85.2	76.7	72.4	63.9	55.4	51.1	42.6	38.3	38.3	38.3
240.0	80.9	76.7	68.2	59.6	55.4	51.1	42.6	42.6	38.3	38.3
270.0	85.2	76.7	68.2	59.6	55.4	51.1	42.6	42.6	42.6	38.3
300.0	102.2	89.5	80.9	72.4	63.9	55.4	51.1	42.6	42.6	42.6
330.0	102.2	89.5	80.9	72.4	63.9	59.6	51.1	46.9	42.6	42.6
360.0	102.2	89.5	80.9	72.4	63.9	55.4	51.1	46.9	42.6	38.3

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	38.3	34.1	29.8	34.1	29.8	29.8	25.6	25.6	21.3	21.3
30.0	38.3	34.1	34.1	34.1	29.8	29.8	25.6	25.6	21.3	21.3
60.0	38.3	34.1	34.1	29.8	29.8	25.6	25.6	25.6	21.3	21.3
90.0	34.1	34.1	34.1	29.8	29.8	25.6	25.6	25.6	21.3	21.3
120.0	34.1	34.1	34.1	29.8	29.8	29.8	25.6	25.6	21.3	25.6
150.0	34.1	34.1	34.1	29.8	25.6	25.6	25.6	25.6	21.3	21.3
180.0	34.1	34.1	34.1	29.8	29.8	25.6	25.6	25.6	21.3	21.3
210.0	34.1	34.1	29.8	29.8	29.8	25.6	25.6	25.6	25.6	21.3
240.0	34.1	34.1	29.8	29.8	25.6	25.6	25.6	25.6	21.3	21.3
270.0	34.1	34.1	29.8	29.8	29.8	25.6	25.6	25.6	21.3	21.3
300.0	38.3	34.1	34.1	29.8	29.8	29.8	25.6	25.6	25.6	25.6
330.0	38.3	38.3	34.1	34.1	29.8	29.8	25.6	25.6	25.6	21.3
360.0	38.3	34.1	29.8	34.1	29.8	29.8	25.6	25.6	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	12.8	12.8	12.8	12.8	12.8
30.0	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8
60.0	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
90.0	21.3	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8
120.0	21.3	21.3	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8
150.0	21.3	21.3	21.3	21.3	17.0	12.8	17.0	17.0	12.8	12.8
180.0	21.3	21.3	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8
210.0	21.3	21.3	21.3	21.3	17.0	17.0	17.0	12.8	12.8	12.8
240.0	21.3	21.3	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8
270.0	21.3	21.3	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8
300.0	21.3	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
330.0	21.3	21.3	21.3	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	12.8	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	8.5	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3
30.0	12.8	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3	4.3
60.0	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	0.0
90.0	8.5	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3
120.0	12.8	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3
150.0	12.8	12.8	12.8	8.5	8.5	4.3	4.3	4.3	4.3	4.3
180.0	12.8	12.8	12.8	12.8	8.5	8.5	4.3	4.3	4.3	4.3
210.0	12.8	12.8	12.8	8.5	8.5	4.3	4.3	4.3	4.3	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	8.5	8.5	8.5	8.5	8.5	4.3	4.3	0.0	0.0
300.0	12.8	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3
330.0	12.8	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3
360.0	8.5	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3

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

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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	0.0	0.0	0.0	4.3	4.3	0.0
30.0	0.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	4.3	4.3
90.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	4.3	0.0	4.3	4.3	4.3	0.0	0.0	4.3
150.0	0.0	0.0	4.3	4.3	4.3	0.0	0.0	0.0	0.0	0.0
180.0	4.3	4.3	4.3	4.3	4.3	4.3	0.0	4.3	4.3	0.0
210.0	0.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0	0.0
240.0	0.0	4.3	4.3	0.0	0.0	4.3	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	4.3	0.0
300.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0	0.0	4.3
330.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
360.0	4.3	4.3	4.3	4.3	0.0	0.0	0.0	4.3	4.3	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	4.3	0.0	0.0
30.0	4.3	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3
60.0	0.0	0.0	4.3	0.0	0.0	0.0	4.3	0.0	0.0	0.0
90.0	0.0	0.0	0.0	4.3	4.3	0.0	4.3	0.0	0.0	4.3
120.0	4.3	0.0	4.3	0.0	0.0	4.3	4.3	0.0	4.3	0.0
150.0	4.3	4.3	0.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3
180.0	4.3	0.0	4.3	0.0	0.0	0.0	4.3	4.3	0.0	0.0
210.0	4.3	0.0	4.3	4.3	0.0	0.0	4.3	0.0	0.0	4.3
240.0	0.0	0.0	4.3	4.3	0.0	0.0	4.3	0.0	0.0	4.3
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	4.3	0.0	0.0	4.3	4.3	0.0	4.3	0.0
330.0	4.3	4.3	0.0	0.0	0.0	4.3	0.0	4.3	4.3	4.3
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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	4.3	4.3	0.0	4.3	0.0	0.0	0.0	4.3	0.0
30.0	0.0	0.0	0.0	0.0	4.3	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	4.3	4.3	0.0	4.3	0.0	4.3	4.3	0.0	0.0
150.0	0.0	4.3	4.3	4.3	0.0	0.0	0.0	4.3	4.3	0.0
180.0	0.0	4.3	4.3	0.0	4.3	0.0	0.0	0.0	4.3	0.0
210.0	0.0	0.0	0.0	0.0	4.3	0.0	4.3	4.3	0.0	0.0
240.0	0.0	4.3	0.0	0.0	4.3	0.0	4.3	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	4.3	0.0	0.0
330.0	0.0	4.3	4.3	4.3	0.0	0.0	0.0	4.3	0.0	0.0
360.0	0.0	4.3	4.3	0.0	4.3	0.0	0.0	0.0	4.3	0.0

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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	0.0	0.0	4.3	4.3	0.0	0.0	4.3	0.0	4.3	0.0
30.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	4.3	0.0	4.3
60.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	4.3	4.3	4.3
90.0	4.3	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
120.0	0.0	4.3	4.3	4.3	0.0	4.3	4.3	0.0	4.3	4.3
150.0	4.3	0.0	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	0.0	4.3	4.3	4.3	4.3
210.0	4.3	0.0	4.3	4.3	4.3	0.0	0.0	4.3	4.3	4.3
240.0	0.0	0.0	0.0	4.3	4.3	0.0	0.0	4.3	4.3	4.3
270.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	0.0
300.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0	4.3	0.0
330.0	0.0	0.0	0.0	4.3	0.0	4.3	4.3	4.3	4.3	0.0
360.0	0.0	0.0	4.3	4.3	0.0	0.0	4.3	0.0	4.3	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	4.3	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3
30.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	4.3	4.3	4.3
60.0	4.3	4.3	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3
90.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3	0.0	4.3
120.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
150.0	4.3	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	4.3	4.3	4.3	4.3
210.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	4.3
240.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
270.0	4.3	0.0	4.3	4.3	4.3	0.0	4.3	4.3	4.3	4.3
300.0	4.3	0.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3
330.0	4.3	0.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3
360.0	0.0	4.3	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3

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	4.3	8.5	8.5	8.5	8.5
30.0	4.3	4.3	4.3	4.3	8.5	4.3	8.5	8.5	8.5	8.5
60.0	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	8.5	8.5
90.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5	8.5
120.0	4.3	4.3	8.5	8.5	8.5	12.8	8.5	8.5	12.8	12.8
150.0	8.5	4.3	8.5	8.5	8.5	8.5	8.5	12.8	12.8	12.8
180.0	4.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	12.8	12.8
210.0	4.3	8.5	4.3	8.5	8.5	8.5	8.5	12.8	12.8	12.8
240.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	12.8	12.8
270.0	4.3	4.3	8.5	8.5	4.3	8.5	8.5	8.5	8.5	12.8
300.0	4.3	4.3	4.3	4.3	8.5	8.5	8.5	8.5	8.5	8.5
330.0	4.3	4.3	4.3	8.5	4.3	4.3	4.3	4.3	8.5	8.5
360.0	4.3	4.3	4.3	8.5	4.3	4.3	8.5	8.5	8.5	8.5

R852 WWL (CRI90 500mA 30D)**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	8.5	8.5	8.5	8.5	12.8	12.8	12.8	12.8	12.8	12.8
30.0	8.5	8.5	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8
60.0	8.5	8.5	8.5	12.8	8.5	12.8	12.8	12.8	12.8	12.8
90.0	8.5	8.5	8.5	8.5	12.8	12.8	12.8	12.8	12.8	12.8
120.0	12.8	12.8	12.8	12.8	12.8	12.8	17.0	17.0	17.0	17.0
150.0	12.8	12.8	12.8	12.8	12.8	17.0	17.0	17.0	17.0	17.0
180.0	12.8	12.8	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0
210.0	12.8	12.8	12.8	12.8	17.0	12.8	17.0	17.0	17.0	17.0
240.0	12.8	12.8	12.8	12.8	12.8	12.8	17.0	17.0	17.0	17.0
270.0	12.8	12.8	12.8	12.8	12.8	12.8	17.0	17.0	17.0	17.0
300.0	8.5	8.5	8.5	8.5	12.8	12.8	12.8	12.8	12.8	17.0
330.0	8.5	12.8	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8
360.0	8.5	8.5	8.5	8.5	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	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	17.0
30.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
60.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
90.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
120.0	17.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
150.0	17.0	21.3	17.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3
180.0	17.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
210.0	17.0	21.3	17.0	17.0	21.3	21.3	21.3	21.3	21.3	21.3
240.0	17.0	17.0	17.0	21.3	17.0	21.3	21.3	21.3	21.3	21.3
270.0	17.0	17.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
300.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3
330.0	12.8	17.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	21.3
360.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	17.0

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	17.0	21.3	21.3
30.0	21.3	17.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
60.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
90.0	21.3	21.3	17.0	17.0	21.3	21.3	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	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
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	21.3	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	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	17.0	21.3	21.3	21.3	21.3	21.3	21.3
360.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	17.0	21.3	21.3

Intensity Data [cd]		Page8
C\γ	180.0	
0.0	21.3	
30.0	21.3	
60.0	21.3	
90.0	21.3	
120.0	21.3	
150.0	21.3	
180.0	21.3	
210.0	21.3	
240.0	21.3	
270.0	21.3	
300.0	21.3	
330.0	21.3	
360.0	21.3	

R852 WWL (CRI90 500mA 30D)

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	3934.97	0.00	0.00	0.00	0.00
1	3925.30	3.76	3.76	3.76	3.76
2	3905.77	11.24	15.00	11.24	15.00
3	3872.41	18.60	33.60	18.60	33.60
4	3831.59	25.79	59.39	25.79	59.39
5	3781.18	32.75	92.14	32.75	92.14
6	3716.57	39.40	131.54	39.40	131.54
7	3648.77	45.72	177.26	45.72	177.26
8	3551.87	51.53	228.79	51.53	228.79
9	3438.28	56.65	285.45	56.65	285.45
10	3314.03	61.11	346.55	61.11	346.55
11	3167.78	64.77	411.32	64.77	411.32
12	2999.17	67.41	478.73	67.41	478.73
13	2832.69	69.21	547.94	69.21	547.94
14	2629.64	69.92	617.86	69.92	617.86
15	2439.02	69.58	687.44	69.58	687.44
16	2240.59	68.57	756.01	68.57	756.01
17	2035.42	66.59	822.60	66.59	822.60
18	1846.22	64.00	886.60	64.00	886.60
19	1650.63	60.84	947.44	60.84	947.44
20	1471.37	57.14	1004.58	57.14	1004.58
21	1315.53	53.51	1058.10	53.51	1058.10
22	1167.15	49.89	1107.99	49.89	1107.99
23	1062.79	46.79	1154.78	46.79	1154.78
24	980.44	44.67	1199.45	44.67	1199.45
25	917.61	43.16	1242.61	43.16	1242.61
26	866.14	42.11	1284.71	42.11	1284.71
27	823.89	41.35	1326.06	41.35	1326.06
28	783.78	40.70	1366.76	40.70	1366.76
29	726.63	39.52	1406.28	39.52	1406.28
30	649.25	37.15	1443.43	37.15	1443.43
31	569.02	33.90	1477.33	33.90	1477.33
32	494.83	30.48	1507.81	30.48	1507.81
33	417.09	26.87	1534.67	26.87	1534.67
34	334.39	22.74	1557.42	10.27	1544.94
35	263.39	18.56	1575.98	0.00	1544.94
36	203.75	14.87	1590.85	0.00	1544.94
37	151.93	11.60	1602.45	0.00	1544.94
38	122.11	9.15	1611.60	0.00	1544.94
39	106.85	7.81	1619.42	0.00	1544.94
40	94.07	7.01	1626.42	0.00	1544.94

R852 WWL (CRI90 500mA 30D)

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	83.77	6.33	1632.76	0.00	1544.94
42	75.96	5.80	1638.56	0.00	1544.94
43	67.80	5.33	1643.89	0.00	1544.94
44	60.70	4.85	1648.74	0.00	1544.94
45	53.96	4.41	1653.14	0.00	1544.94
46	47.21	3.96	1657.10	0.00	1544.94
47	43.31	3.60	1660.70	0.00	1544.94
48	40.82	3.40	1664.10	0.00	1544.94
49	39.05	3.28	1667.38	0.00	1544.94
50	35.85	3.12	1670.50	0.00	1544.94
51	34.43	2.97	1673.48	0.00	1544.94
52	32.66	2.88	1676.36	0.00	1544.94
53	30.88	2.76	1679.12	0.00	1544.94
54	29.11	2.64	1681.76	0.00	1544.94
55	27.33	2.52	1684.28	0.00	1544.94
56	25.56	2.39	1686.67	0.00	1544.94
57	25.56	2.34	1689.01	0.00	1544.94
58	22.36	2.22	1691.22	0.00	1544.94
59	22.01	2.07	1693.30	0.00	1544.94
60	21.30	2.05	1695.34	0.00	1544.94
61	20.23	1.98	1697.33	0.00	1544.94
62	19.17	1.90	1699.23	0.00	1544.94
63	17.75	1.80	1701.02	0.00	1544.94
64	17.04	1.71	1702.73	0.00	1544.94
65	15.97	1.63	1704.36	0.00	1544.94
66	14.91	1.54	1705.90	0.00	1544.94
67	13.49	1.43	1707.33	0.00	1544.94
68	12.78	1.33	1708.66	0.00	1544.94
69	12.78	1.30	1709.96	0.00	1544.94
70	12.07	1.28	1711.24	0.00	1544.94
71	11.00	1.19	1712.43	0.00	1544.94
72	9.58	1.07	1713.50	0.00	1544.94
73	9.23	0.98	1714.49	0.00	1544.94
74	8.16	0.91	1715.40	0.00	1544.94
75	7.45	0.83	1716.23	0.00	1544.94
76	4.26	0.62	1716.85	0.00	1544.94
77	4.26	0.45	1717.30	0.00	1544.94
78	3.90	0.44	1717.74	0.00	1544.94
79	3.19	0.38	1718.12	0.00	1544.94
80	3.19	0.34	1718.47	0.00	1544.94
81	2.13	0.29	1718.75	0.00	1544.94

R852 WWL (CRI90 500mA 30D)

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	2.48	0.25	1719.00	0.00	1544.94
83	2.84	0.29	1719.29	0.00	1544.94
84	1.77	0.25	1719.55	0.00	1544.94
85	2.84	0.25	1719.80	0.00	1544.94
86	2.48	0.29	1720.09	0.00	1544.94
87	1.06	0.19	1720.28	0.00	1544.94
88	2.13	0.18	1720.46	0.00	1544.94
89	1.77	0.21	1720.67	0.00	1544.94
90	0.71	0.14	1720.81	0.00	1544.94
91	1.06	0.10	1720.90	0.00	1544.94
92	2.13	0.18	1721.08	0.00	1544.94
93	2.13	0.23	1721.31	0.00	1544.94
94	2.13	0.23	1721.55	0.00	1544.94
95	1.42	0.19	1721.74	0.00	1544.94
96	0.71	0.12	1721.86	0.00	1544.94
97	0.71	0.08	1721.93	0.00	1544.94
98	1.77	0.14	1722.07	0.00	1544.94
99	1.42	0.17	1722.24	0.00	1544.94
100	2.13	0.19	1722.43	0.00	1544.94
101	0.71	0.15	1722.59	0.00	1544.94
102	2.48	0.17	1722.76	0.00	1544.94
103	1.42	0.21	1722.97	0.00	1544.94
104	0.35	0.09	1723.06	0.00	1544.94
105	1.42	0.09	1723.16	0.00	1544.94
106	2.84	0.23	1723.38	0.00	1544.94
107	1.42	0.22	1723.60	0.00	1544.94
108	1.42	0.15	1723.75	0.00	1544.94
109	2.13	0.18	1723.94	0.00	1544.94
110	0.00	0.11	1724.05	0.00	1544.94
111	2.13	0.11	1724.16	0.00	1544.94
112	1.77	0.20	1724.36	0.00	1544.94
113	0.71	0.13	1724.48	0.00	1544.94
114	2.13	0.14	1724.63	0.00	1544.94
115	0.00	0.11	1724.73	0.00	1544.94
116	1.06	0.05	1724.78	0.00	1544.94
117	1.77	0.14	1724.92	0.00	1544.94
118	1.06	0.14	1725.06	0.00	1544.94
119	0.00	0.05	1725.11	0.00	1544.94
120	1.42	0.07	1725.18	0.00	1544.94
121	0.71	0.10	1725.28	0.00	1544.94
122	2.48	0.15	1725.43	0.00	1544.94

R852 WWL (CRI90 500mA 30D)

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	3.19	0.26	1725.69	0.00	1544.94
124	2.13	0.24	1725.94	0.00	1544.94
125	1.06	0.14	1726.08	0.00	1544.94
126	2.13	0.14	1726.22	0.00	1544.94
127	2.84	0.22	1726.44	0.00	1544.94
128	3.55	0.28	1726.72	0.00	1544.94
129	2.48	0.26	1726.98	0.00	1544.94
130	3.55	0.26	1727.24	0.00	1544.94
131	1.77	0.22	1727.46	0.00	1544.94
132	4.26	0.25	1727.70	0.00	1544.94
133	2.48	0.27	1727.98	0.00	1544.94
134	3.90	0.25	1728.23	0.00	1544.94
135	3.55	0.29	1728.52	0.00	1544.94
136	3.90	0.29	1728.81	0.00	1544.94
137	4.26	0.31	1729.12	0.00	1544.94
138	4.26	0.32	1729.43	0.00	1544.94
139	4.26	0.31	1729.74	0.00	1544.94
140	4.97	0.33	1730.07	0.00	1544.94
141	5.32	0.36	1730.43	0.00	1544.94
142	6.03	0.39	1730.82	0.00	1544.94
143	7.10	0.44	1731.26	0.00	1544.94
144	6.74	0.45	1731.71	0.00	1544.94
145	7.45	0.45	1732.16	0.00	1544.94
146	7.45	0.46	1732.62	0.00	1544.94
147	8.87	0.49	1733.12	0.00	1544.94
148	10.29	0.56	1733.68	0.00	1544.94
149	10.65	0.60	1734.28	0.00	1544.94
150	10.65	0.59	1734.88	0.00	1544.94
151	11.00	0.58	1735.46	0.00	1544.94
152	10.65	0.57	1736.03	0.00	1544.94
153	11.71	0.57	1736.59	0.00	1544.94
154	13.13	0.61	1737.20	0.00	1544.94
155	13.49	0.63	1737.83	0.00	1544.94
156	14.91	0.65	1738.47	0.00	1544.94
157	14.91	0.65	1739.13	0.00	1544.94
158	14.91	0.63	1739.75	0.00	1544.94
159	15.26	0.61	1740.36	0.00	1544.94
160	14.91	0.58	1740.94	0.00	1544.94
161	18.10	0.60	1741.54	0.00	1544.94
162	17.75	0.62	1742.17	0.00	1544.94
163	18.81	0.60	1742.77	0.00	1544.94

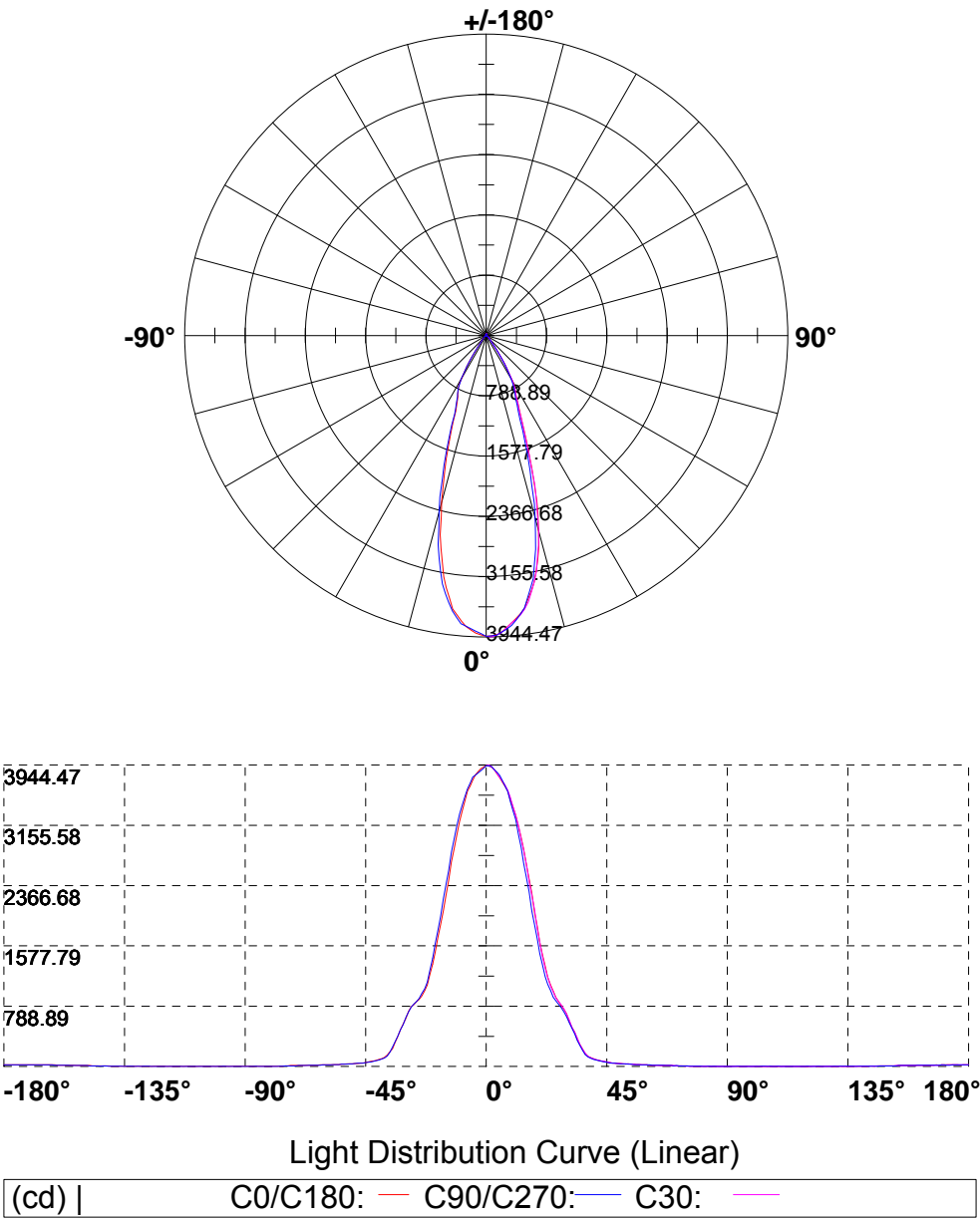
R852 WWL (CRI90 500mA 30D)

Zonal flux distribution table

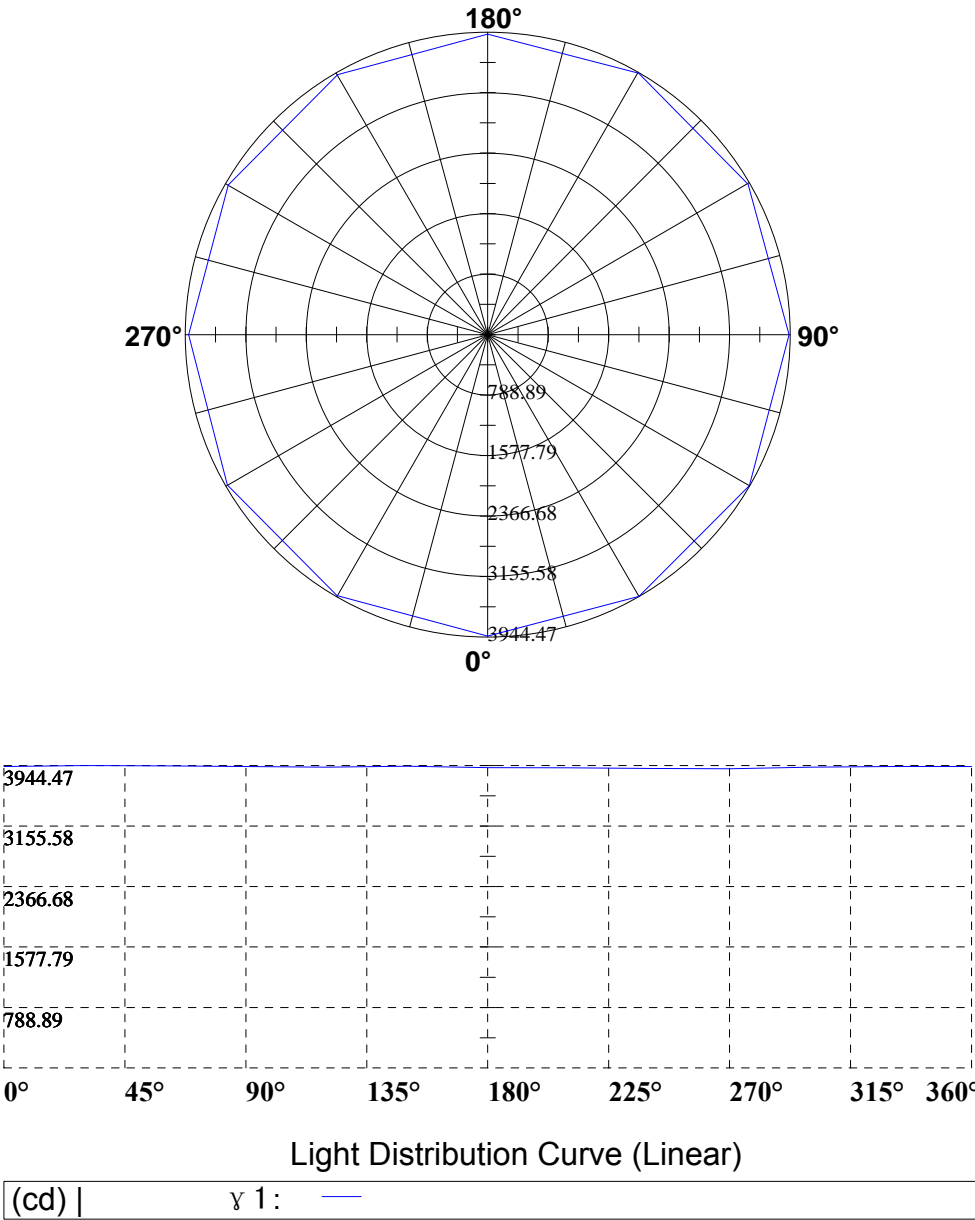
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[illegible]

Light Distribution Curve [Unit: cd]



Horizontal cone through Max.cd [Unit: cd]



ISO-Illuminance

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Unit: [lx]

5.

985.13 (100%Emax)

887.51 (90%Emax)

788.89 (80%Emax)

690.28 (70%Emax)

591.67 (60%Emax)

493.06 (50%Emax)

394.45 (40%Emax)

295.84 (30%Emax)

197.22 (20%Emax)

98.61 (10%Emax)

4.

3.

2.

1.

0.

1.

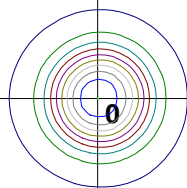
2.

3.

4.

5.

5.



Coordinate Scale: d/h

Height: 2 m

Max Illuminance : 986.12lx

Luminance Limiting Curve (There is not luminous side)

Diameter: 115mm

Length: -115mm

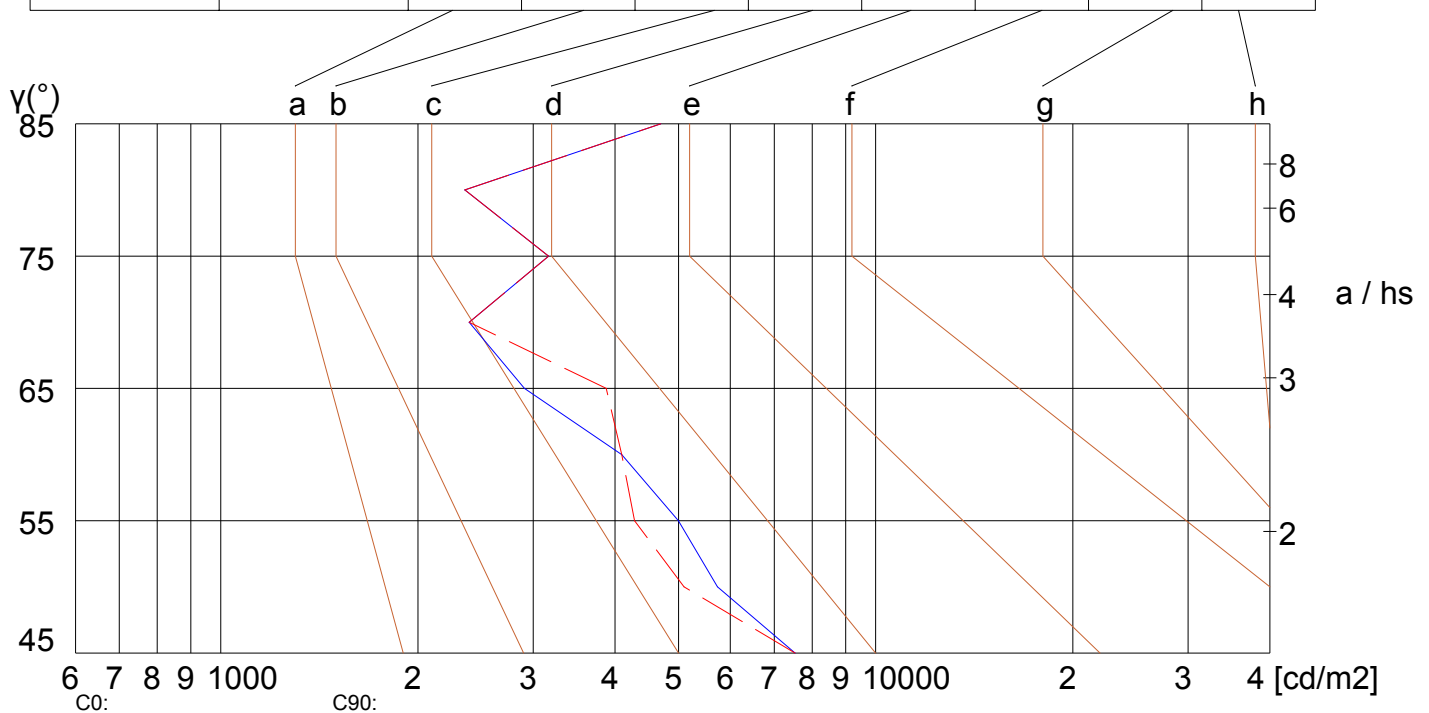
Width: -115mm

Height: 72mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	7530	5098	4285	4096	3877	2395	3165	2359	4699
C90	7530	5735	4999	4096	2907	2395	3165	2359	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 30D)

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	0.97	0.97	0.97	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.82
1	0.94	0.93	0.93	0.92	0.92	0.91	0.89	0.88	0.87	0.84	0.83	0.83	0.78	0.77	0.77	0.72
2	0.89	0.88	0.87	0.88	0.86	0.86	0.84	0.83	0.82	0.80	0.79	0.78	0.75	0.74	0.72	0.68
3	0.84	0.83	0.83	0.83	0.82	0.81	0.80	0.79	0.77	0.77	0.75	0.73	0.72	0.70	0.68	0.65
4	0.80	0.79	0.78	0.79	0.78	0.77	0.76	0.75	0.73	0.73	0.71	0.69	0.70	0.67	0.65	0.62
5	0.76	0.75	0.75	0.75	0.74	0.73	0.73	0.71	0.69	0.70	0.68	0.66	0.67	0.64	0.62	0.59
6	0.73	0.72	0.71	0.72	0.70	0.69	0.70	0.68	0.66	0.67	0.65	0.63	0.64	0.61	0.59	0.56
7	0.70	0.69	0.68	0.69	0.67	0.66	0.67	0.65	0.63	0.64	0.62	0.60	0.62	0.59	0.56	0.53
8	0.67	0.66	0.65	0.66	0.64	0.63	0.64	0.62	0.60	0.62	0.59	0.57	0.60	0.56	0.54	0.51
9	0.64	0.63	0.62	0.63	0.62	0.61	0.61	0.59	0.58	0.60	0.57	0.55	0.57	0.54	0.52	0.49
10	0.61	0.60	0.60	0.61	0.59	0.58	0.59	0.57	0.55	0.57	0.55	0.53	0.55	0.52	0.50	0.47

