

R852 WWL (CRI90 500mA 10D)

Luminaire Name: R852 WWL (CRI90 500mA 10D)

Report NO.: 01313217030101A

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: 230.75 V

Current: 0.0913 A

Power: 20.695 W

Power Factor: 0.9826

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

Width: -115mm

Height: 72mm

Optical Component: 10D Reflector DC(V:34.21V I:0.493A P:16.866W)

Photometric Results

Lumens: 1806.06 lm

Efficiency: 84.22%

Central Intensity: 11504.42cd

Maximum Intensity: 11556.52cd

Beam Angle(10%): Left: -17.8 Right:18.6

Maximum s/h: C0_180: 0.16 C90_270: 0.14

Effective Luminous Flux: 1177.02 lm

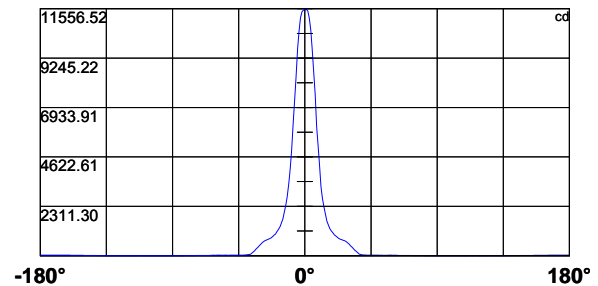
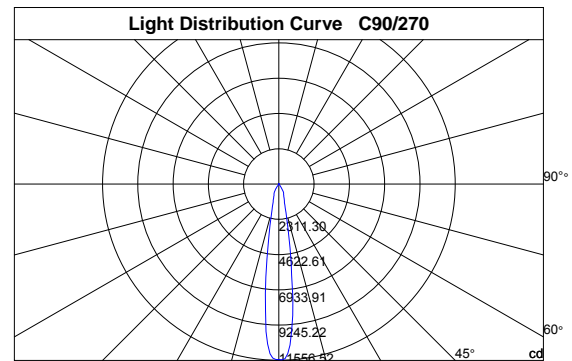
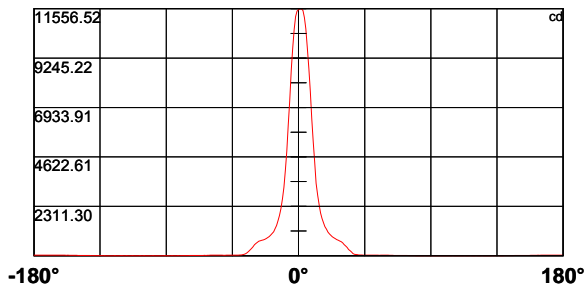
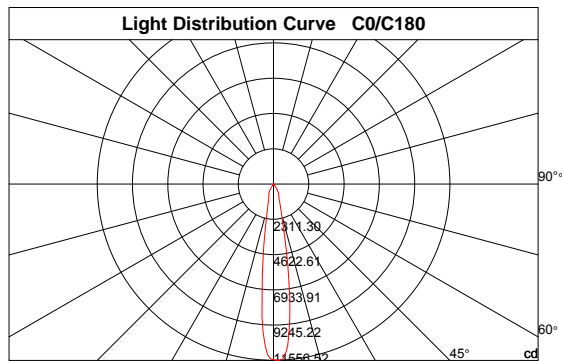
Angle of maximum intensity: C:0.0 G:1.0

Half Peak Side Angle(50%): Left: -8.3 Right:8.6

Up Flux Rate: 1.1%

Down Flux Rate: 83.12%

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	11504.4	11556.5	11548.0	11467.1	11139.1	10606.6	9737.6	8736.6	7675.9	6398.0
30.0	11504.4	11548.0	11548.0	11445.8	11036.8	10423.4	9609.8	8600.3	7313.9	6185.1
60.0	11504.4	11531.0	11496.9	11347.8	10849.4	10299.9	9115.7	8029.5	6687.7	5614.3
90.0	11504.4	11518.2	11450.0	11117.8	10576.8	9673.7	8655.7	7526.9	6027.5	5158.5
120.0	11504.4	11428.7	11198.7	10815.3	9822.8	8851.6	7552.4	6415.1	5358.7	4119.1
150.0	11504.4	11420.2	11168.9	10534.2	9707.8	8668.5	7181.8	6070.0	4796.4	3931.7
180.0	11504.4	11441.5	11194.5	10581.0	9729.1	8706.8	7224.4	6116.9	4890.1	3995.6
210.0	11504.4	11475.6	11207.2	10623.7	9822.8	8821.8	7543.9	6410.8	5013.6	4114.9
240.0	11504.4	11496.9	11279.6	10853.7	10184.9	9128.5	8050.8	6542.9	5473.7	4519.5
270.0	11504.4	11492.6	11407.4	11130.5	10500.1	9690.8	8323.4	7224.4	6155.2	4962.5
300.0	11504.4	11496.9	11467.1	11318.0	11011.3	10461.8	9379.8	8357.5	7079.6	5993.4
330.0	11504.4	11535.2	11535.2	11377.6	11126.3	10602.3	9716.3	8770.7	7514.1	6436.4
360.0	11504.4	11556.5	11548.0	11467.1	11139.1	10606.6	9737.6	8736.6	7675.9	6398.0

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	5333.1	4400.3	3386.4	2819.9	2381.2	1993.5	1738.0	1546.3	1358.8	1239.6
30.0	4983.8	4093.6	3377.9	2636.7	2232.1	1925.4	1648.5	1469.6	1320.5	1179.9
60.0	4634.5	3544.1	3015.9	2517.5	2027.6	1759.2	1537.7	1337.5	1205.5	1099.0
90.0	4234.1	3233.1	2683.6	2266.2	1938.2	1614.4	1439.8	1269.4	1162.9	1069.2
120.0	3390.7	2828.4	2325.8	1993.5	1742.2	1520.7	1363.1	1201.2	1094.7	1013.8
150.0	3237.4	2628.2	2223.6	1904.1	1601.6	1452.6	1303.5	1145.9	1056.4	984.0
180.0	3199.0	2666.6	2189.5	1874.3	1631.5	1414.2	1273.6	1120.3	1039.4	966.9
210.0	3390.7	2743.2	2317.3	1989.3	1691.1	1499.4	1341.8	1175.7	1082.0	992.5
240.0	3608.0	3011.6	2538.8	2125.6	1857.2	1584.6	1418.5	1286.4	1154.4	1060.7
270.0	4085.0	3386.4	2760.3	2355.6	2040.4	1720.9	1533.5	1350.3	1226.8	1124.6
300.0	4979.6	3957.2	3250.1	2704.9	2163.9	1865.7	1631.5	1414.2	1265.1	1124.6
330.0	5375.7	4157.5	3403.5	2824.2	2317.3	1989.3	1725.2	1495.1	1337.5	1214.0
360.0	5333.1	4400.3	3386.4	2819.9	2381.2	1993.5	1738.0	1546.3	1358.8	1239.6

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1103.3	1022.3	954.2	890.3	839.2	796.6	754.0	719.9	685.8	651.7
30.0	1086.2	984.0	924.4	873.2	817.9	779.5	741.2	711.4	685.8	643.2
60.0	988.2	924.4	860.5	817.9	783.8	745.4	719.9	698.6	664.5	621.9
90.0	984.0	924.4	873.2	817.9	779.5	754.0	724.1	694.3	660.3	604.9
120.0	932.9	877.5	826.4	779.5	749.7	724.1	698.6	673.0	626.2	566.5
150.0	911.6	860.5	817.9	775.3	745.4	724.1	707.1	681.5	626.2	566.5
180.0	894.5	847.7	805.1	766.7	741.2	724.1	698.6	677.3	630.4	575.1
210.0	928.6	877.5	826.4	792.3	762.5	732.7	711.4	685.8	647.5	587.8
240.0	984.0	911.6	851.9	813.6	766.7	741.2	711.4	690.1	656.0	587.8
270.0	1018.1	958.4	898.8	834.9	796.6	766.7	732.7	707.1	660.3	609.1
300.0	1035.1	958.4	881.8	834.9	796.6	758.2	728.4	707.1	681.5	647.5
330.0	1073.4	996.8	920.1	869.0	822.1	775.3	749.7	719.9	685.8	651.7
360.0	1103.3	1022.3	954.2	890.3	839.2	796.6	754.0	719.9	685.8	651.7

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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	600.6	523.9	455.8	383.4	289.7	234.3	178.9	102.2	68.2	55.4
30.0	583.6	519.7	438.7	370.6	298.2	221.5	157.6	110.8	59.6	51.1
60.0	549.5	485.6	417.4	340.8	272.6	217.2	140.6	89.5	59.6	46.9
90.0	553.8	464.3	396.2	328.0	251.3	195.9	132.1	72.4	51.1	42.6
120.0	494.1	421.7	340.8	276.9	221.5	149.1	98.0	63.9	46.9	42.6
150.0	511.2	417.4	345.0	272.6	204.5	144.8	93.7	55.4	51.1	38.3
180.0	506.9	408.9	336.5	268.4	200.2	140.6	93.7	59.6	46.9	38.3
210.0	502.6	430.2	370.6	272.6	213.0	153.3	93.7	63.9	46.9	38.3
240.0	519.7	455.8	357.8	293.9	221.5	161.9	106.5	63.9	51.1	42.6
270.0	536.7	460.0	387.6	323.7	242.8	187.4	123.5	68.2	55.4	46.9
300.0	575.1	506.9	438.7	357.8	289.7	230.0	157.6	102.2	63.9	51.1
330.0	600.6	523.9	455.8	366.3	298.2	234.3	161.9	106.5	68.2	51.1
360.0	600.6	523.9	455.8	383.4	289.7	234.3	178.9	102.2	68.2	55.4

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

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Intensity Data [cd]

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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	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8	8.5
30.0	21.3	21.3	21.3	17.0	17.0	17.0	12.8	12.8	12.8	8.5
60.0	21.3	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
90.0	17.0	21.3	17.0	17.0	12.8	12.8	12.8	12.8	12.8	8.5
120.0	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	8.5
150.0	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8
180.0	21.3	17.0	17.0	12.8	17.0	12.8	12.8	8.5	12.8	8.5
210.0	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8
240.0	17.0	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8
270.0	21.3	17.0	21.3	17.0	17.0	12.8	12.8	12.8	12.8	12.8
300.0	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8	8.5
330.0	17.0	21.3	17.0	17.0	17.0	17.0	12.8	12.8	12.8	12.8
360.0	21.3	21.3	17.0	17.0	17.0	12.8	12.8	12.8	12.8	8.5

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	4.3	4.3	4.3	4.3	4.3
30.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	0.0
60.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3
90.0	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3	4.3
120.0	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3
150.0	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3	4.3
180.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3
210.0	12.8	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3	0.0
240.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3
270.0	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3
300.0	12.8	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	0.0
330.0	8.5	8.5	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3
360.0	8.5	8.5	8.5	8.5	8.5	4.3	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	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0
30.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	4.3	0.0
60.0	0.0	4.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
90.0	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	4.3	0.0	4.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0
150.0	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	4.3	0.0	4.3	0.0	0.0	0.0	4.3	0.0	0.0	0.0
210.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0	0.0	4.3	0.0
240.0	0.0	4.3	0.0	0.0	4.3	0.0	0.0	0.0	4.3	0.0
270.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	4.3	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0
330.0	4.3	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	4.3	0.0	0.0	0.0

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Intensity Data [cd]

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	4.3	0.0	0.0	0.0	0.0	0.0	4.3	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
180.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
210.0	0.0	0.0	0.0	0.0	4.3	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	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	0.0	0.0	0.0	4.3	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	4.3	0.0	0.0	0.0	0.0
30.0	4.3	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	4.3	0.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0
150.0	0.0	4.3	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	4.3	0.0	0.0	4.3	0.0
210.0	4.3	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	4.3	0.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0
330.0	0.0	4.3	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	4.3	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	4.3	0.0	0.0	0.0	4.3	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	4.3	0.0
90.0	0.0	0.0	0.0	4.3	0.0	0.0	4.3	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
180.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	4.3	0.0	0.0
210.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
240.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3
270.0	0.0	0.0	4.3	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	4.3	0.0	0.0	0.0	4.3	0.0	0.0

R852 WWL (CRI90 500mA 10D)

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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	4.3	0.0	0.0	0.0	4.3	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	4.3	0.0	0.0	4.3
120.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	4.3	0.0
150.0	0.0	0.0	4.3	4.3	0.0	0.0	0.0	0.0	0.0	4.3
180.0	4.3	4.3	0.0	0.0	0.0	4.3	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	4.3
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	4.3	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	4.3	4.3	0.0	0.0	0.0	0.0	0.0	4.3
360.0	0.0	4.3	0.0	0.0	0.0	4.3	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	4.3	0.0	4.3	4.3	4.3	0.0	0.0	0.0
30.0	0.0	0.0	4.3	0.0	0.0	0.0	4.3	4.3	4.3	0.0
60.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0	4.3	4.3
90.0	0.0	4.3	0.0	0.0	0.0	4.3	0.0	4.3	0.0	4.3
120.0	0.0	4.3	4.3	0.0	0.0	4.3	4.3	4.3	4.3	4.3
150.0	4.3	4.3	0.0	4.3	0.0	0.0	4.3	4.3	4.3	4.3
180.0	0.0	0.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3	4.3
210.0	0.0	0.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
240.0	0.0	0.0	4.3	4.3	0.0	4.3	4.3	4.3	4.3	4.3
270.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	4.3	4.3
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
330.0	0.0	4.3	0.0	4.3	0.0	0.0	0.0	4.3	4.3	4.3
360.0	0.0	0.0	4.3	0.0	4.3	4.3	4.3	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	4.3	4.3	4.3	4.3	8.5	8.5	8.5
30.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5	8.5
60.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	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	4.3	8.5	8.5	8.5	8.5	12.8	12.8	12.8
150.0	4.3	4.3	4.3	8.5	8.5	12.8	12.8	12.8	12.8	12.8
180.0	4.3	4.3	8.5	8.5	8.5	12.8	12.8	12.8	12.8	12.8
210.0	4.3	4.3	4.3	8.5	8.5	12.8	12.8	12.8	12.8	12.8
240.0	4.3	4.3	4.3	8.5	8.5	12.8	12.8	12.8	12.8	12.8
270.0	4.3	4.3	8.5	8.5	8.5	8.5	8.5	12.8	12.8	12.8
300.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	4.3	8.5	8.5
330.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5	8.5	8.5
360.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5	8.5

R852 WWL (CRI90 500mA 10D)**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	8.5	12.8	12.8	12.8	12.8	12.8	17.0	17.0
30.0	8.5	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	17.0
60.0	8.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	17.0
90.0	8.5	8.5	12.8	12.8	12.8	12.8	17.0	17.0	17.0	17.0
120.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	17.0	17.0
150.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3
180.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	21.3	17.0	21.3
210.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3
240.0	12.8	12.8	17.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3
270.0	12.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
300.0	8.5	12.8	12.8	8.5	12.8	12.8	12.8	12.8	17.0	17.0
330.0	8.5	8.5	12.8	12.8	12.8	12.8	12.8	17.0	12.8	17.0
360.0	12.8	8.5	8.5	12.8	12.8	12.8	12.8	12.8	17.0	17.0

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	21.3	17.0	21.3	21.3	21.3	21.3	21.3
30.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3	21.3	17.0
60.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3	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	17.0	21.3	21.3	25.6	21.3	21.3	25.6	25.6	25.6
150.0	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6	25.6	21.3
180.0	21.3	21.3	21.3	21.3	21.3	21.3	25.6	21.3	25.6	21.3
210.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6
240.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6	25.6
270.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	25.6	25.6
300.0	17.0	17.0	17.0	17.0	17.0	17.0	21.3	21.3	21.3	21.3
330.0	17.0	17.0	21.3	17.0	21.3	17.0	21.3	21.3	21.3	21.3
360.0	17.0	17.0	17.0	21.3	17.0	21.3	21.3	21.3	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	21.3
30.0	21.3	21.3	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	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
120.0	25.6	25.6	21.3	21.3	25.6	21.3	21.3	21.3	21.3	21.3
150.0	25.6	25.6	25.6	21.3	21.3	21.3	21.3	21.3	21.3	21.3
180.0	25.6	21.3	25.6	25.6	21.3	21.3	21.3	21.3	21.3	21.3
210.0	25.6	25.6	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
240.0	21.3	25.6	25.6	25.6	21.3	21.3	21.3	21.3	21.3	21.3
270.0	25.6	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
300.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
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	21.3	21.3	21.3	21.3	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 10D)

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	11504.42	0.00	0.00	0.00	0.00
1	11495.11	11.00	11.00	11.00	11.00
2	11375.13	32.83	43.83	32.83	43.83
3	11051.04	53.64	97.47	53.64	97.47
4	10458.94	72.00	169.47	72.00	169.47
5	9661.32	86.56	256.02	86.56	256.02
6	8507.65	95.48	351.51	95.48	351.51
7	7400.14	98.74	450.25	98.74	450.25
8	6165.54	97.09	547.33	97.09	547.33
9	5119.07	91.46	638.79	91.46	638.79
10	4204.31	84.37	723.16	84.37	723.16
11	3387.51	75.86	799.02	75.86	799.02
12	2789.38	67.52	866.54	67.52	866.54
13	2334.31	60.81	927.35	60.81	927.35
14	1968.68	55.08	982.43	55.08	982.43
15	1695.00	50.30	1032.72	50.30	1032.72
16	1496.21	46.76	1079.48	46.76	1079.48
17	1317.66	43.82	1123.30	43.82	1123.30
18	1192.00	41.38	1164.68	32.26	1155.56
19	1089.06	39.69	1204.37	17.93	1173.49
20	994.99	38.14	1242.51	3.53	1177.02
21	928.61	36.94	1279.45	0.00	1177.02
22	870.04	36.14	1315.59	0.00	1177.02
23	822.12	35.51	1351.10	0.00	1177.02
24	783.43	35.10	1386.20	0.00	1177.02
25	751.83	34.91	1421.11	0.00	1177.02
26	723.08	34.82	1455.93	0.00	1177.02
27	697.17	34.75	1490.67	0.00	1177.02
28	659.19	34.34	1525.01	0.00	1177.02
29	609.49	33.19	1558.20	0.00	1177.02
30	544.53	31.16	1589.36	0.00	1177.02
31	468.21	28.18	1617.55	0.00	1177.02
32	395.09	24.73	1642.28	0.00	1177.02
33	321.25	21.10	1663.38	0.00	1177.02
34	250.26	17.30	1680.68	0.00	1177.02
35	189.20	13.65	1694.33	0.00	1177.02
36	128.15	10.10	1704.43	0.00	1177.02
37	79.87	6.78	1711.21	0.00	1177.02
38	55.73	4.53	1715.74	0.00	1177.02
39	45.44	3.45	1719.19	0.00	1177.02
40	39.05	2.95	1722.14	0.00	1177.02

R852 WWL (CRI90 500mA 10D)

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	34.08	2.60	1724.74	0.00	1177.02
42	31.59	2.39	1727.13	0.00	1177.02
43	29.11	2.25	1729.38	0.00	1177.02
44	27.69	2.14	1731.52	0.00	1177.02
45	26.62	2.09	1733.61	0.00	1177.02
46	24.49	2.00	1735.61	0.00	1177.02
47	23.78	1.92	1737.53	0.00	1177.02
48	22.72	1.88	1739.41	0.00	1177.02
49	21.30	1.81	1741.22	0.00	1177.02
50	20.59	1.75	1742.96	0.00	1177.02
51	19.17	1.68	1744.64	0.00	1177.02
52	19.52	1.66	1746.30	0.00	1177.02
53	19.17	1.68	1747.99	0.00	1177.02
54	19.88	1.72	1749.71	0.00	1177.02
55	18.81	1.73	1751.44	0.00	1177.02
56	19.88	1.75	1753.18	0.00	1177.02
57	20.59	1.85	1755.03	0.00	1177.02
58	20.94	1.92	1756.95	0.00	1177.02
59	20.94	1.96	1758.91	0.00	1177.02
60	20.23	1.95	1760.86	0.00	1177.02
61	18.81	1.86	1762.72	0.00	1177.02
62	17.75	1.76	1764.48	0.00	1177.02
63	16.68	1.67	1766.16	0.00	1177.02
64	15.97	1.60	1767.76	0.00	1177.02
65	13.84	1.48	1769.24	0.00	1177.02
66	12.78	1.33	1770.56	0.00	1177.02
67	12.42	1.27	1771.83	0.00	1177.02
68	12.78	1.28	1773.11	0.00	1177.02
69	10.65	1.20	1774.30	0.00	1177.02
70	9.94	1.06	1775.36	0.00	1177.02
71	8.52	0.95	1776.31	0.00	1177.02
72	8.52	0.89	1777.20	0.00	1177.02
73	8.52	0.89	1778.09	0.00	1177.02
74	7.45	0.84	1778.93	0.00	1177.02
75	4.26	0.62	1779.55	0.00	1177.02
76	4.26	0.45	1780.00	0.00	1177.02
77	4.26	0.45	1780.46	0.00	1177.02
78	4.26	0.46	1780.91	0.00	1177.02
79	3.19	0.40	1781.31	0.00	1177.02
80	2.13	0.29	1781.60	0.00	1177.02
81	2.13	0.23	1781.83	0.00	1177.02

R852 WWL (CRI90 500mA 10D)

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	1.42	0.19	1782.02	0.00	1177.02
83	0.00	0.08	1782.10	0.00	1177.02
84	0.71	0.04	1782.14	0.00	1177.02
85	0.71	0.08	1782.22	0.00	1177.02
86	0.71	0.08	1782.29	0.00	1177.02
87	0.00	0.04	1782.33	0.00	1177.02
88	1.06	0.06	1782.39	0.00	1177.02
89	0.00	0.06	1782.45	0.00	1177.02
90	0.00	0.00	1782.45	0.00	1177.02
91	0.35	0.02	1782.47	0.00	1177.02
92	0.71	0.06	1782.53	0.00	1177.02
93	0.00	0.04	1782.57	0.00	1177.02
94	0.35	0.02	1782.59	0.00	1177.02
95	0.00	0.02	1782.60	0.00	1177.02
96	0.00	0.00	1782.60	0.00	1177.02
97	0.00	0.00	1782.60	0.00	1177.02
98	1.06	0.06	1782.66	0.00	1177.02
99	0.71	0.10	1782.76	0.00	1177.02
100	1.42	0.12	1782.87	0.00	1177.02
101	0.71	0.11	1782.99	0.00	1177.02
102	0.00	0.04	1783.03	0.00	1177.02
103	0.00	0.00	1783.03	0.00	1177.02
104	0.71	0.04	1783.07	0.00	1177.02
105	1.42	0.11	1783.18	0.00	1177.02
106	0.00	0.08	1783.25	0.00	1177.02
107	0.00	0.00	1783.25	0.00	1177.02
108	0.35	0.02	1783.27	0.00	1177.02
109	0.00	0.02	1783.29	0.00	1177.02
110	0.35	0.02	1783.31	0.00	1177.02
111	0.00	0.02	1783.33	0.00	1177.02
112	0.35	0.02	1783.34	0.00	1177.02
113	1.42	0.09	1783.44	0.00	1177.02
114	0.00	0.07	1783.51	0.00	1177.02
115	0.00	0.00	1783.51	0.00	1177.02
116	0.35	0.02	1783.52	0.00	1177.02
117	1.42	0.09	1783.61	0.00	1177.02
118	1.42	0.14	1783.75	0.00	1177.02
119	0.35	0.09	1783.83	0.00	1177.02
120	0.35	0.03	1783.87	0.00	1177.02
121	0.71	0.05	1783.92	0.00	1177.02
122	0.71	0.07	1783.98	0.00	1177.02

R852 WWL (CRI90 500mA 10D)

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	1.06	0.08	1784.07	0.00	1177.02
124	0.00	0.05	1784.12	0.00	1177.02
125	0.71	0.03	1784.15	0.00	1177.02
126	0.71	0.06	1784.21	0.00	1177.02
127	0.00	0.03	1784.24	0.00	1177.02
128	0.35	0.02	1784.26	0.00	1177.02
129	1.77	0.09	1784.35	0.00	1177.02
130	0.35	0.09	1784.44	0.00	1177.02
131	1.42	0.07	1784.51	0.00	1177.02
132	2.13	0.15	1784.66	0.00	1177.02
133	1.42	0.14	1784.80	0.00	1177.02
134	1.06	0.10	1784.90	0.00	1177.02
135	2.48	0.14	1785.04	0.00	1177.02
136	3.19	0.22	1785.26	0.00	1177.02
137	3.19	0.24	1785.50	0.00	1177.02
138	3.55	0.25	1785.75	0.00	1177.02
139	3.19	0.25	1786.00	0.00	1177.02
140	4.26	0.27	1786.26	0.00	1177.02
141	4.26	0.30	1786.56	0.00	1177.02
142	4.97	0.32	1786.87	0.00	1177.02
143	6.39	0.38	1787.25	0.00	1177.02
144	6.39	0.42	1787.67	0.00	1177.02
145	7.81	0.45	1788.12	0.00	1177.02
146	8.87	0.52	1788.64	0.00	1177.02
147	10.29	0.58	1789.22	0.00	1177.02
148	10.65	0.62	1789.84	0.00	1177.02
149	10.65	0.61	1790.45	0.00	1177.02
150	11.36	0.61	1791.06	0.00	1177.02
151	12.42	0.64	1791.70	0.00	1177.02
152	14.55	0.71	1792.41	0.00	1177.02
153	14.55	0.74	1793.15	0.00	1177.02
154	14.91	0.72	1793.87	0.00	1177.02
155	14.91	0.70	1794.57	0.00	1177.02
156	15.26	0.69	1795.26	0.00	1177.02
157	16.68	0.70	1795.95	0.00	1177.02
158	17.04	0.71	1796.66	0.00	1177.02
159	18.46	0.71	1797.37	0.00	1177.02
160	19.17	0.72	1798.10	0.00	1177.02
161	18.81	0.70	1798.79	0.00	1177.02
162	19.52	0.67	1799.46	0.00	1177.02
163	19.52	0.64	1800.10	0.00	1177.02

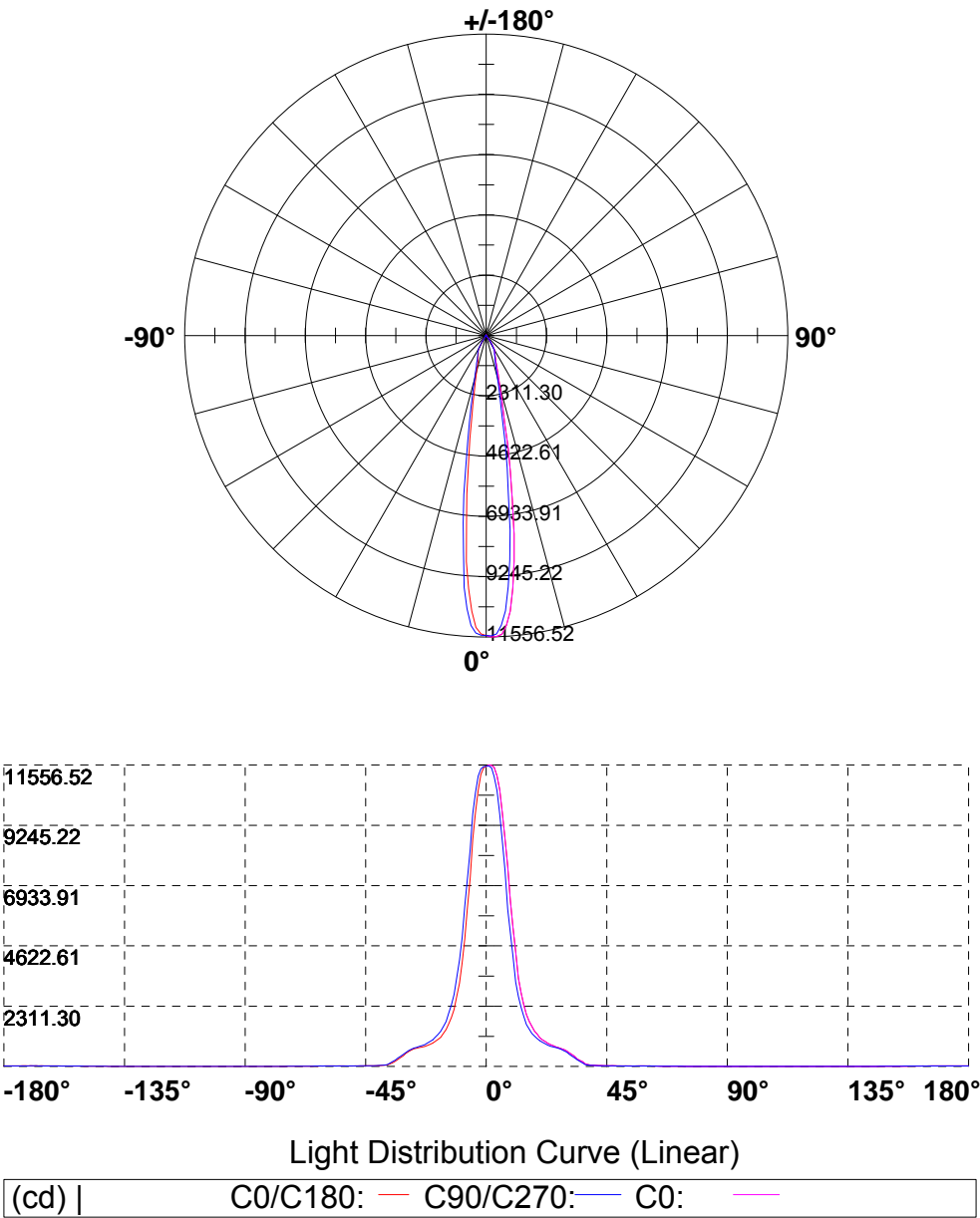
R852 WWL (CRI90 500mA 10D)

Zonal flux distribution table

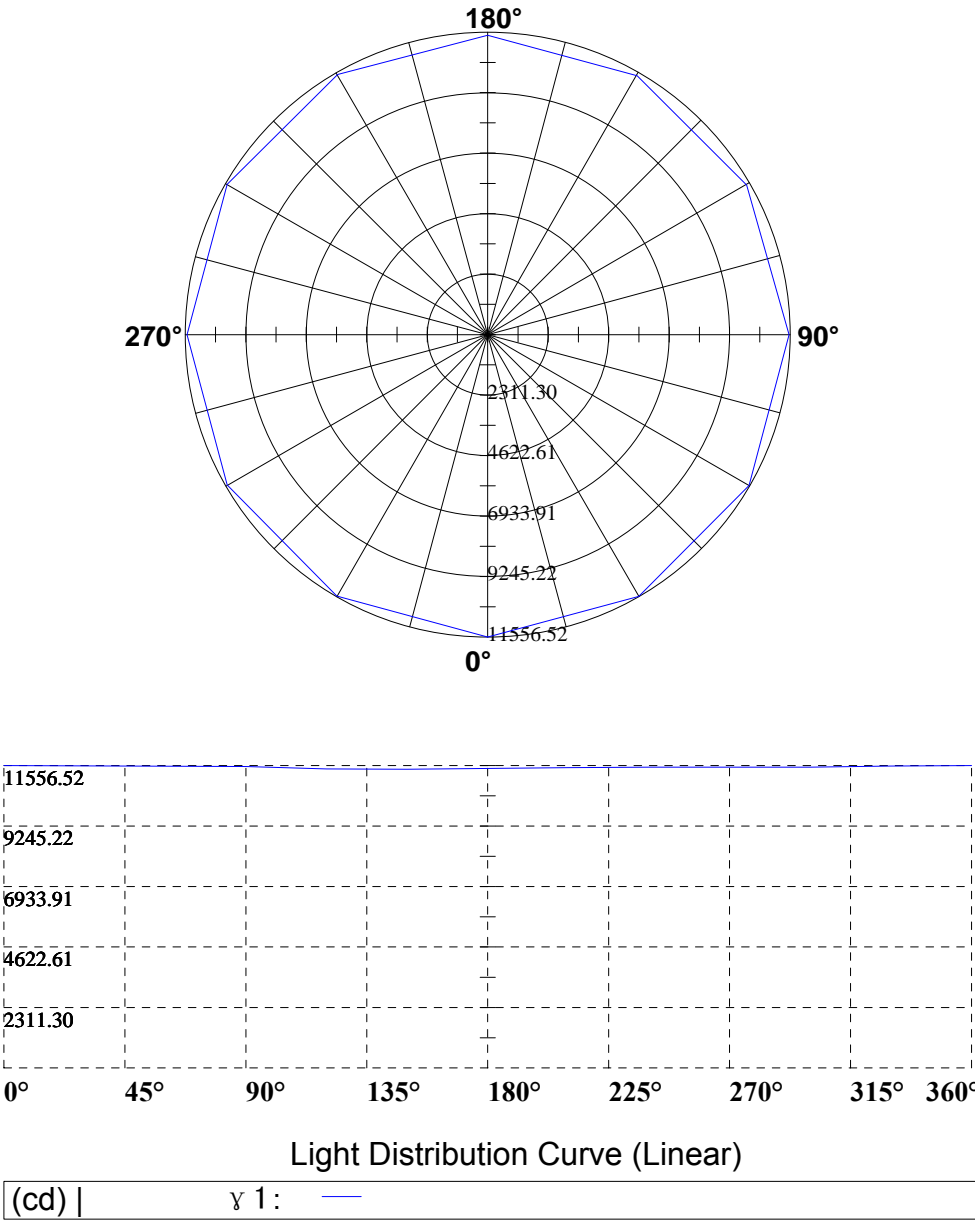
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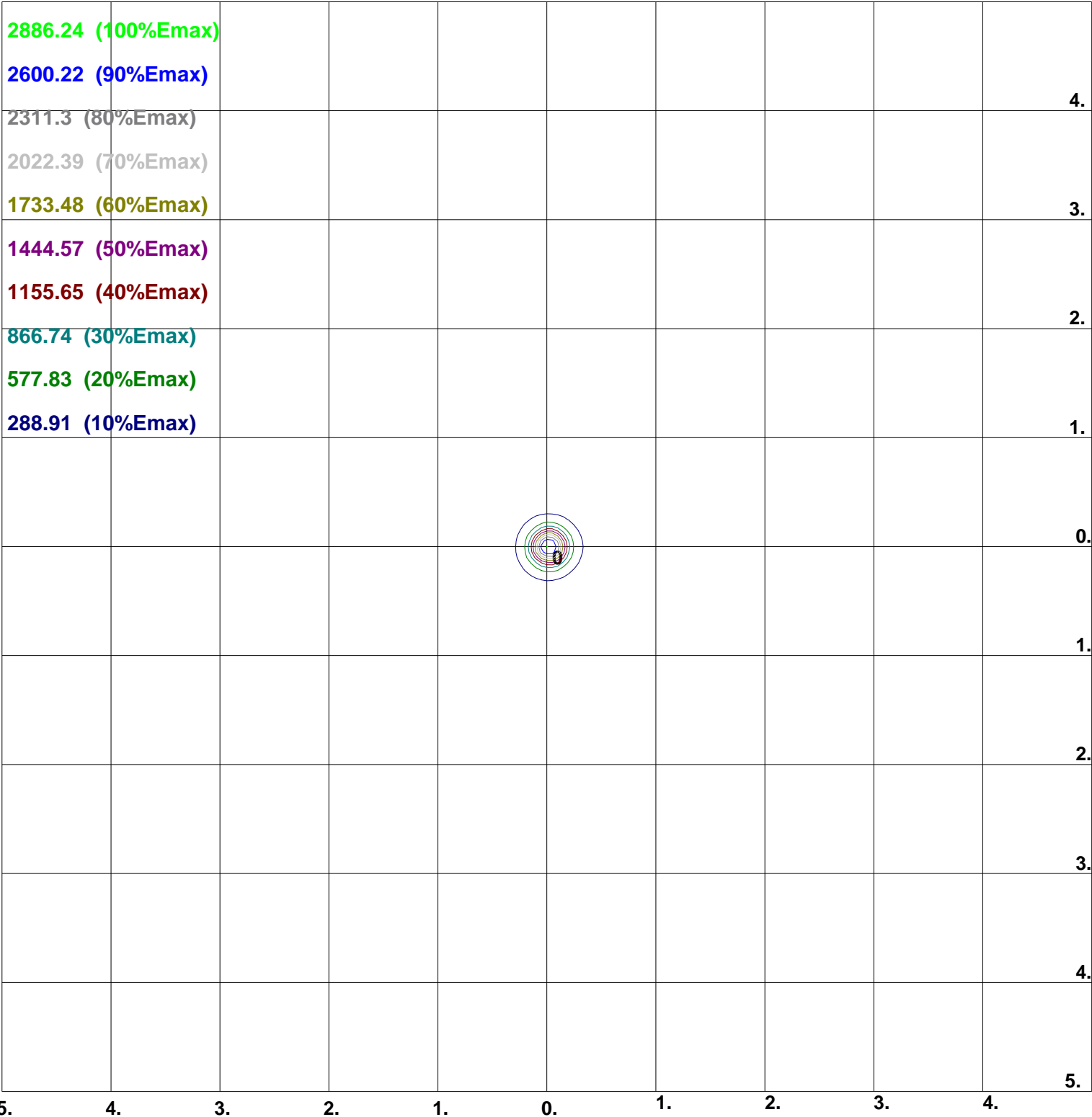
[illegible]

Light Distribution Curve [Unit: cd]



Horizontal cone through Max.cd [Unit: cd]





Coordinate Scale: d/h
Height: 2 m
Max Illuminance : 2889.13lx

Luminance Limiting Curve (There is not luminous side)

Diameter: 115mm

Length: -115mm

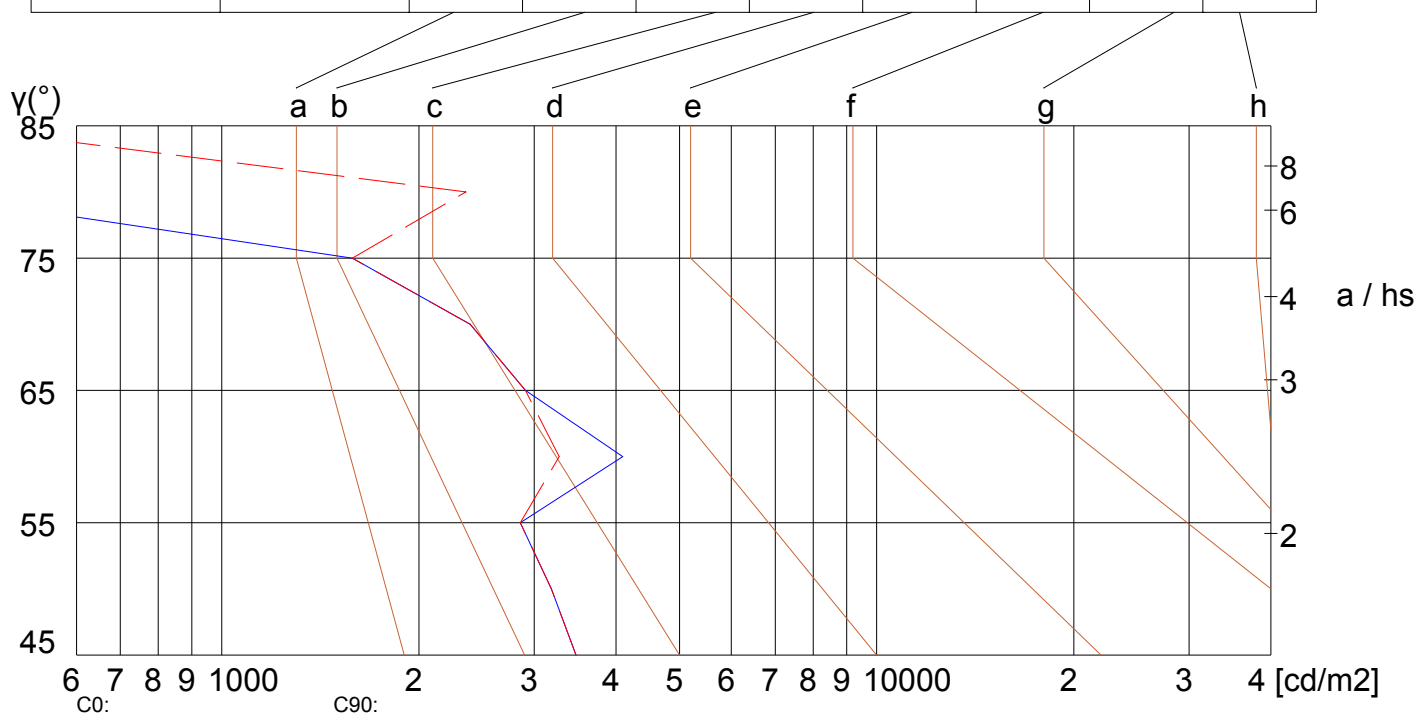
Width: -115mm

Height: 72mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	3475	3186	2856	3277	2907	2395	1583		
C90	3475	3186	2856	4096	2907	2395	1583		

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 10D)

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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.98	0.98	0.97	0.97	0.96	0.95	0.93	0.92	0.91	0.88	0.87	0.87	0.82	0.81	0.80	0.76
2	0.94	0.94	0.93	0.93	0.92	0.91	0.89	0.88	0.87	0.85	0.84	0.82	0.80	0.78	0.77	0.73
3	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.83	0.82	0.80	0.79	0.77	0.76	0.74	0.70
4	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.81	0.80	0.79	0.78	0.76	0.75	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	0.81	0.81	0.79	0.79	0.78	0.76	0.75	0.75	0.73	0.71	0.71	0.69	0.67	0.63
7	0.79	0.79	0.78	0.78	0.77	0.76	0.76	0.74	0.72	0.73	0.70	0.69	0.69	0.67	0.65	0.61
8	0.77	0.76	0.76	0.76	0.75	0.74	0.73	0.72	0.70	0.71	0.68	0.67	0.68	0.65	0.63	0.60
9	0.75	0.74	0.74	0.74	0.73	0.72	0.71	0.70	0.68	0.69	0.66	0.65	0.66	0.63	0.61	0.58
10	0.73	0.72	0.72	0.72	0.71	0.70	0.70	0.68	0.67	0.67	0.65	0.63	0.64	0.62	0.59	0.57

