

**R852 WNL (CRI90 350mA 40D)**

Luminaire Name: R852 WNL (CRI90 350mA 40D)

Report NO.: 01314523082422A

Test NO.:

Lamp: LUMINUS CLM-9-40-90-36-TC40-F5-2 350mA

Sum Lumens: 1657.61 lm

Number of Lamps: 1

Diameter: 115mm

Length: -115mm

Photometric Type: Type C

Voltage: 229.5 V

Current: 0.062 A

Power: 13.8 W

Power Factor: 0.966

Ballast Type: OSRAM IT FIT 20/220-240/500 CS I

Width: -115mm

Height: 105mm

Optical Component: 40D Reflector DC(V: 34.25V I: 0.350A P: 11.98W)

**Photometric Results**

Lumens: 1254.38 lm

Efficiency: 75.67%

Central Intensity: 2254.802cd

Maximum Intensity: 2279.694cd

Beam Angle(10%): Left: -31.8 Right:36.9

Maximum s/h: C0\_180: 0.34 C90\_270: 0.34

Effective Luminous Flux: 1150.81 lm

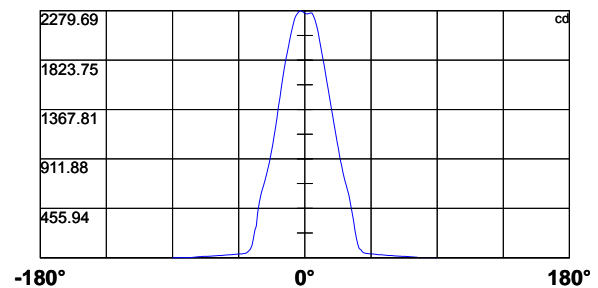
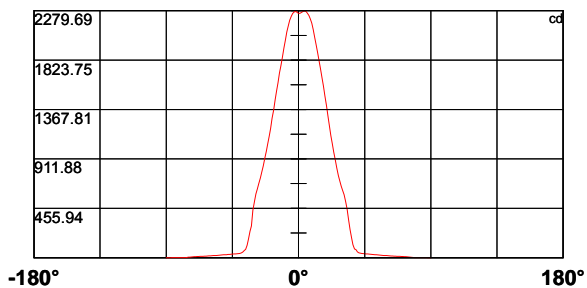
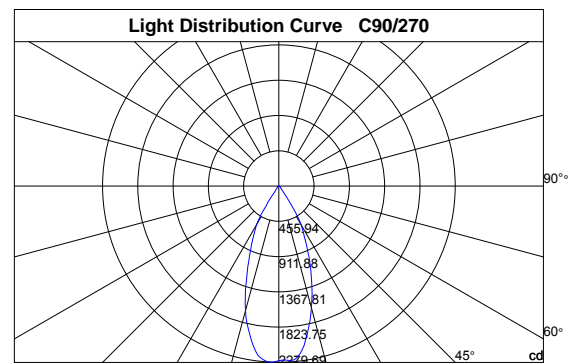
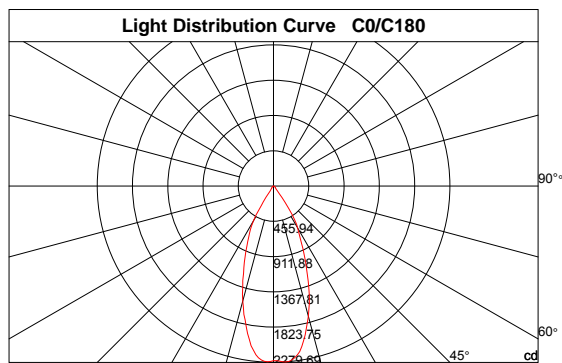
Angle of maximum intensity: C:240.0 G:3.0

Half Peak Side Angle(50%): Left: -18.3 Right:23.6

Up Flux Rate: 0.0%

Down Flux Rate: 75.67%

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	2254.8	2256.1	2263.3	2273.5	2277.6	2274.7	2257.1	2235.7	2203.4	2165.3
30.0	2254.8	2255.2	2264.7	2271.0	2272.8	2269.1	2245.2	2216.5	2171.4	2121.1
60.0	2254.8	2255.8	2261.4	2265.2	2266.6	2253.7	2217.6	2175.1	2126.6	2055.0
90.0	2254.8	2250.9	2250.5	2254.8	2259.5	2256.1	2229.2	2189.6	2140.2	2084.9
120.0	2254.8	2250.8	2253.0	2258.9	2253.1	2236.4	2191.5	2143.7	2091.1	2017.3
150.0	2254.8	2254.3	2259.7	2263.4	2261.9	2245.7	2214.6	2172.9	2123.3	2061.1
180.0	2254.8	2266.1	2272.1	2268.1	2254.6	2227.6	2191.2	2138.1	2084.2	2006.6
210.0	2254.8	2265.9	2276.3	2277.2	2267.7	2250.1	2225.0	2183.8	2135.4	2070.7
240.0	2254.8	2256.2	2270.3	2279.7	2277.1	2263.3	2246.1	2219.4	2179.5	2126.1
270.0	2254.8	2266.2	2276.3	2279.0	2272.2	2255.2	2234.4	2204.3	2151.8	2096.2
300.0	2254.8	2257.8	2270.6	2278.8	2279.7	2268.7	2249.9	2231.9	2201.4	2147.4
330.0	2254.8	2264.0	2273.5	2277.5	2277.2	2260.8	2241.1	2218.4	2174.7	2116.4
360.0	2254.8	2256.1	2263.3	2273.5	2277.6	2274.7	2257.1	2235.7	2203.4	2165.3

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2105.7	2034.6	1966.5	1889.2	1812.3	1738.6	1659.8	1583.2	1492.7	1402.5
30.0	2054.2	1979.9	1911.5	1829.5	1753.8	1678.7	1599.1	1526.4	1431.5	1341.0
60.0	1990.6	1910.3	1833.2	1754.5	1672.1	1601.4	1513.4	1430.7	1339.1	1263.4
90.0	2006.4	1935.1	1860.5	1783.6	1704.5	1623.1	1547.3	1465.6	1385.6	1302.5
120.0	1953.2	1870.4	1799.9	1730.1	1642.6	1569.1	1481.1	1398.2	1312.3	1227.1
150.0	1989.0	1920.2	1836.8	1758.7	1670.2	1593.6	1511.3	1426.1	1344.0	1252.9
180.0	1935.7	1854.1	1769.5	1703.2	1613.9	1538.5	1455.9	1364.1	1286.6	1194.0
210.0	2002.0	1925.1	1840.2	1772.0	1688.7	1610.2	1535.7	1444.7	1365.7	1268.3
240.0	2064.9	1990.4	1926.3	1854.1	1776.3	1707.6	1617.0	1535.1	1432.1	1338.2
270.0	2033.7	1964.6	1890.5	1827.0	1750.3	1668.0	1579.0	1478.8	1392.2	1287.2
300.0	2089.1	2020.3	1958.3	1888.6	1809.3	1738.7	1647.9	1567.1	1464.4	1367.3
330.0	2060.7	1982.5	1914.1	1838.9	1762.0	1679.4	1592.3	1505.8	1416.7	1322.1
360.0	2105.7	2034.6	1966.5	1889.2	1812.3	1738.6	1659.8	1583.2	1492.7	1402.5

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1308.5	1218.5	1127.3	1055.0	976.1	901.7	829.5	758.4	708.4	658.8
30.0	1253.9	1172.9	1080.8	1002.2	921.9	846.0	776.4	711.9	666.7	621.2
60.0	1180.0	1113.7	1035.9	955.1	876.0	789.3	736.4	682.1	630.5	593.5
90.0	1220.7	1144.0	1066.3	998.4	915.9	850.2	782.3	719.1	672.4	622.0
120.0	1147.5	1075.7	1002.5	929.7	856.5	785.5	732.6	680.5	629.6	588.1
150.0	1176.3	1099.9	1034.2	974.3	902.1	843.9	778.3	725.2	675.1	630.3
180.0	1119.8	1051.8	981.3	919.9	848.2	792.0	736.7	685.3	634.7	588.1
210.0	1184.5	1107.8	1034.2	969.9	901.3	841.4	783.2	727.9	671.5	629.7
240.0	1263.9	1165.3	1085.1	1011.0	943.7	881.5	820.3	767.3	709.1	661.4
270.0	1200.1	1122.3	1036.8	968.4	888.5	830.3	776.3	716.7	669.5	627.5
300.0	1282.5	1185.1	1101.2	1022.4	949.5	878.2	809.6	748.3	693.3	647.2
330.0	1225.6	1151.5	1061.9	989.4	914.5	837.2	778.2	716.4	668.5	627.5
360.0	1308.5	1218.5	1127.3	1055.0	976.1	901.7	829.5	758.4	708.4	658.8

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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	620.3	581.0	513.7	445.2	349.3	260.2	187.6	119.7	81.3	75.1
30.0	582.2	526.5	442.6	365.8	275.2	197.4	136.9	87.6	76.0	56.3
60.0	533.9	466.8	376.6	290.1	223.9	147.2	97.3	73.0	60.0	50.2
90.0	573.6	500.1	421.0	346.6	254.4	181.2	122.3	83.2	75.1	54.7
120.0	515.2	440.4	322.7	267.4	198.0	125.8	86.3	69.2	55.9	47.2
150.0	574.0	496.2	409.0	317.6	233.1	158.9	104.3	76.9	60.3	49.9
180.0	519.0	437.3	292.7	243.8	174.5	114.4	77.7	64.2	51.2	43.6
210.0	571.6	488.6	402.5	286.9	233.9	160.4	98.4	75.0	59.5	49.2
240.0	612.9	548.9	469.7	384.2	301.9	212.1	148.6	92.0	75.4	59.2
270.0	576.3	502.9	422.3	291.6	252.9	178.3	112.6	78.7	64.2	51.5
300.0	604.1	558.7	479.8	406.2	325.9	240.9	171.2	105.5	76.3	64.2
330.0	587.3	530.4	448.0	364.8	281.0	199.9	133.8	87.8	70.2	56.3
360.0	620.3	581.0	513.7	445.2	349.3	260.2	187.6	119.7	81.3	75.1

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	53.6	45.2	41.2	39.3	37.8	36.5	35.1	33.9	32.7	31.4
30.0	47.0	41.9	39.7	38.1	36.6	35.3	34.1	32.9	31.5	30.2
60.0	42.9	40.2	38.3	36.8	35.3	34.4	33.3	32.0	30.7	29.3
90.0	45.5	41.2	39.1	37.3	36.1	34.9	33.6	32.5	31.1	29.9
120.0	41.5	39.1	37.3	35.9	34.7	33.7	32.6	31.4	30.1	28.6
150.0	41.9	39.2	37.5	36.0	34.9	33.8	32.8	31.9	30.6	29.6
180.0	39.2	37.3	36.0	34.7	33.8	32.8	32.0	30.8	29.7	28.5
210.0	41.4	38.9	37.4	35.9	34.8	33.7	32.8	31.8	30.5	29.3
240.0	46.6	40.9	38.5	36.9	35.7	34.5	33.7	32.6	31.5	30.3
270.0	42.6	38.9	37.5	35.9	34.9	33.9	32.8	31.9	30.5	29.3
300.0	50.2	43.3	39.7	37.9	36.6	35.4	34.3	33.1	31.9	30.7
330.0	46.7	41.2	39.4	37.9	36.5	35.5	34.3	33.2	31.7	30.3
360.0	53.6	45.2	41.2	39.3	37.8	36.5	35.1	33.9	32.7	31.4

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	30.0	28.5	27.4	26.1	24.9	23.9	22.7	21.9	20.7	19.7
30.0	28.8	27.5	26.4	25.2	24.1	23.2	22.1	21.3	20.1	19.1
60.0	28.1	26.8	25.7	24.7	23.5	22.6	21.4	20.5	19.4	18.4
90.0	28.5	27.2	26.1	25.0	23.9	22.8	21.9	20.9	19.8	18.9
120.0	27.5	26.4	25.2	24.2	23.1	22.2	21.0	20.1	19.2	18.1
150.0	28.2	27.0	25.9	24.8	23.7	22.8	21.9	20.8	19.8	18.8
180.0	27.3	26.1	24.9	24.0	22.9	22.0	21.0	20.0	19.1	18.0
210.0	28.1	27.1	25.8	24.9	23.7	22.8	21.7	20.7	19.7	18.7
240.0	29.1	27.9	26.8	25.6	24.4	23.4	22.2	21.3	20.4	19.3
270.0	28.1	27.0	25.9	24.9	23.8	22.8	21.8	20.7	19.8	18.9
300.0	29.4	28.1	27.0	25.8	24.6	23.6	22.4	21.5	20.6	19.5
330.0	29.2	27.8	26.5	25.3	24.3	23.2	22.2	21.1	20.1	19.2
360.0	30.0	28.5	27.4	26.1	24.9	23.9	22.7	21.9	20.7	19.7

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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	18.8	17.9	17.1	16.1	15.4	14.6	13.9	13.1	12.6	11.8
30.0	18.1	17.2	16.3	15.5	14.7	14.0	13.2	12.5	11.8	11.1
60.0	17.5	16.6	15.7	15.0	14.2	13.4	12.7	12.0	11.2	10.6
90.0	17.9	17.0	16.2	15.4	14.6	13.9	13.2	12.4	11.7	10.8
120.0	17.3	16.5	15.7	14.9	14.2	13.5	12.8	12.0	11.2	10.6
150.0	17.9	17.1	16.1	15.4	14.5	13.9	13.1	12.4	11.7	10.9
180.0	17.1	16.3	15.5	14.8	14.1	13.4	12.7	12.0	11.2	10.5
210.0	17.9	17.1	16.1	15.4	14.6	13.9	13.2	12.5	11.7	11.0
240.0	18.5	17.6	16.8	16.0	15.2	14.6	13.8	13.1	12.4	11.7
270.0	17.9	17.2	16.3	15.6	14.8	14.1	13.5	12.7	12.0	11.3
300.0	18.7	17.8	17.1	16.2	15.4	14.7	14.0	13.3	12.6	11.9
330.0	18.1	17.4	16.5	15.8	15.0	14.2	13.6	12.8	12.1	11.5
360.0	18.8	17.9	17.1	16.1	15.4	14.6	13.9	13.1	12.6	11.8

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	11.2	10.4	9.5	8.8	7.9	6.8	5.7	3.5	2.1	1.2
30.0	10.4	9.7	8.9	8.2	7.2	6.1	4.7	2.6	1.3	1.1
60.0	9.8	9.1	8.3	7.4	6.5	5.1	3.1	1.4	1.1	1.0
90.0	10.2	9.4	8.6	7.9	6.9	5.8	4.2	2.4	1.2	1.1
120.0	9.7	9.0	8.2	7.2	6.2	4.8	2.7	1.3	1.1	1.0
150.0	10.2	9.3	8.6	7.7	6.7	5.6	3.9	2.1	1.2	1.1
180.0	9.7	8.9	8.1	7.0	6.0	4.6	2.5	1.3	1.1	1.0
210.0	10.3	9.4	8.6	7.5	6.5	5.2	3.1	1.8	1.2	1.1
240.0	10.9	10.2	9.3	8.4	7.4	6.2	4.9	2.9	1.5	1.2
270.0	10.6	9.7	8.8	7.9	6.8	5.5	3.4	2.1	1.2	1.1
300.0	11.2	10.5	9.6	8.7	7.8	6.6	5.4	3.2	1.8	1.2
330.0	10.7	9.9	9.0	8.1	7.1	5.9	4.3	2.3	1.2	1.1
360.0	11.2	10.4	9.5	8.8	7.9	6.8	5.7	3.5	2.1	1.2

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.0	0.9	0.8	0.6	0.5	0.4	0.3	0.2	0.2	0.1
30.0	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.3
60.0	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.1	0.1
90.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.1
120.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.1	0.0
150.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2
180.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.1	0.0
210.0	0.9	0.8	0.7	0.5	0.4	0.4	0.3	0.3	0.2	0.2
240.0	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.1
270.0	0.9	0.8	0.7	0.5	0.4	0.4	0.3	0.2	0.1	0.1
300.0	1.0	0.9	0.7	0.7	0.5	0.4	0.3	0.2	0.2	0.1
330.0	1.0	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2
360.0	1.0	0.9	0.8	0.6	0.5	0.4	0.3	0.2	0.2	0.1

Intensity Data [cd]		Page5
C\γ	90.0	
0.0	0.1	
30.0	0.2	
60.0	0.0	
90.0	0.1	
120.0	0.0	
150.0	0.1	
180.0	0.1	
210.0	0.2	
240.0	0.0	
270.0	0.1	
300.0	0.0	
330.0	0.2	
360.0	0.1	

## R852 WNL (CRI90 350mA 40D)

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	2254.80	0.00	0.00	0.00	0.00
1	2258.28	2.16	2.16	2.16	2.16
2	2265.98	6.49	8.65	6.49	8.65
3	2270.59	10.85	19.50	10.85	19.50
4	2268.34	15.19	34.70	15.19	34.70
5	2255.11	19.46	54.16	19.46	54.16
6	2228.59	23.56	77.72	23.56	77.72
7	2194.11	27.45	105.17	27.45	105.17
8	2148.57	31.08	136.25	31.08	136.25
9	2089.00	34.34	170.59	34.34	170.59
10	2023.77	37.22	207.81	37.22	207.81
11	1948.97	39.70	247.51	39.70	247.51
12	1875.61	41.81	289.32	41.81	289.32
13	1802.45	43.65	332.97	43.65	332.97
14	1721.33	45.10	378.07	45.10	378.07
15	1645.58	46.22	424.29	46.22	424.29
16	1561.64	46.99	471.29	46.99	471.29
17	1477.15	47.32	518.61	47.32	518.61
18	1388.58	47.25	565.86	47.25	565.86
19	1297.21	46.73	612.59	46.73	612.59
20	1213.61	45.95	658.54	45.95	658.54
21	1134.04	45.08	703.62	45.08	703.62
22	1053.95	43.97	747.59	43.97	747.59
23	982.98	42.74	790.33	42.74	790.33
24	907.85	41.34	831.67	41.34	831.67
25	839.76	39.74	871.41	39.74	871.41
26	778.31	38.19	909.60	38.19	909.60
27	719.93	36.65	946.26	36.65	946.26
28	669.10	35.17	981.42	35.17	981.42
29	624.61	33.85	1015.27	33.85	1015.27
30	572.54	32.32	1047.59	32.32	1047.59
31	506.48	30.03	1077.62	30.03	1077.62
32	416.71	26.45	1104.07	26.45	1104.07
33	334.19	22.12	1126.19	22.12	1126.19
34	258.66	17.94	1144.13	17.94	1144.13
35	181.40	13.67	1157.80	6.68	1150.81
36	123.08	9.69	1167.49	0.00	1150.81
37	84.39	6.77	1174.26	0.00	1150.81
38	67.11	5.06	1179.32	0.00	1150.81
39	54.78	4.16	1183.48	0.00	1150.81
40	44.94	3.48	1186.96	0.00	1150.81

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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]
41	40.62	3.05	1190.00	0.00	1150.81
42	38.45	2.87	1192.87	0.00	1150.81
43	36.88	2.79	1195.67	0.00	1150.81
44	35.65	2.74	1198.40	0.00	1150.81
45	34.53	2.70	1201.10	0.00	1150.81
46	33.44	2.66	1203.76	0.00	1150.81
47	32.34	2.62	1206.37	0.00	1150.81
48	31.05	2.56	1208.94	0.00	1150.81
49	29.79	2.50	1211.44	0.00	1150.81
50	28.52	2.43	1213.87	0.00	1150.81
51	27.28	2.36	1216.23	0.00	1150.81
52	26.13	2.29	1218.52	0.00	1150.81
53	25.04	2.23	1220.74	0.00	1150.81
54	23.91	2.16	1222.90	0.00	1150.81
55	22.93	2.09	1224.99	0.00	1150.81
56	21.86	2.02	1227.02	0.00	1150.81
57	20.89	1.95	1228.97	0.00	1150.81
58	19.89	1.89	1230.86	0.00	1150.81
59	18.88	1.81	1232.67	0.00	1150.81
60	17.97	1.74	1234.41	0.00	1150.81
61	17.13	1.68	1236.09	0.00	1150.81
62	16.29	1.61	1237.70	0.00	1150.81
63	15.52	1.55	1239.24	0.00	1150.81
64	14.74	1.48	1240.73	0.00	1150.81
65	14.02	1.42	1242.15	0.00	1150.81
66	13.30	1.36	1243.51	0.00	1150.81
67	12.57	1.30	1244.82	0.00	1150.81
68	11.86	1.24	1246.05	0.00	1150.81
69	11.13	1.17	1247.22	0.00	1150.81
70	10.41	1.11	1248.33	0.00	1150.81
71	9.62	1.04	1249.37	0.00	1150.81
72	8.78	0.96	1250.32	0.00	1150.81
73	7.91	0.87	1251.20	0.00	1150.81
74	6.90	0.78	1251.97	0.00	1150.81
75	5.68	0.66	1252.64	0.00	1150.81
76	3.99	0.51	1253.15	0.00	1150.81
77	2.24	0.33	1253.48	0.00	1150.81
78	1.35	0.19	1253.68	0.00	1150.81
79	1.08	0.13	1253.81	0.00	1150.81
80	0.93	0.11	1253.92	0.00	1150.81
81	0.81	0.09	1254.01	0.00	1150.81

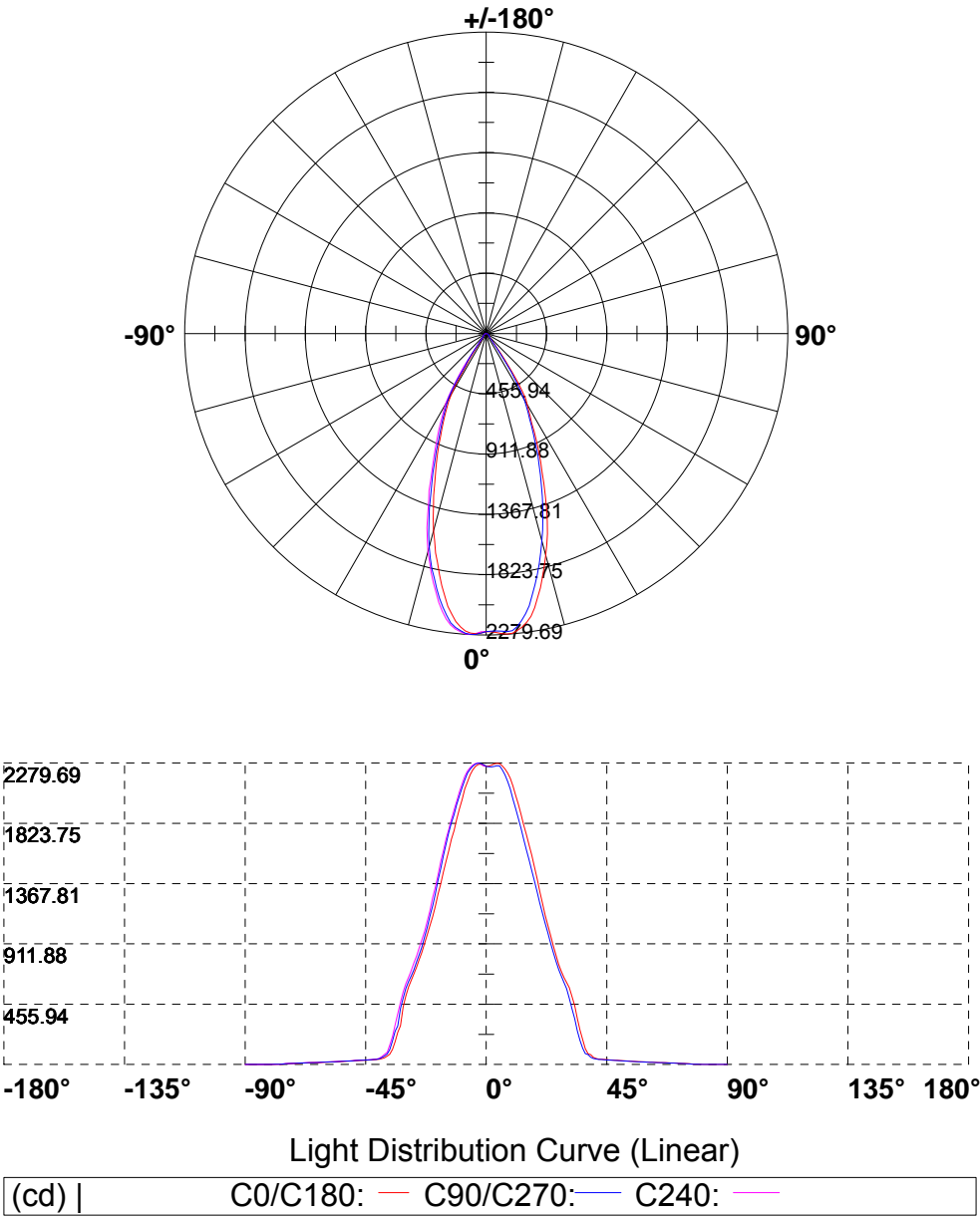
## R852 WNL (CRI90 350mA 40D)

### Zonal flux distribution table

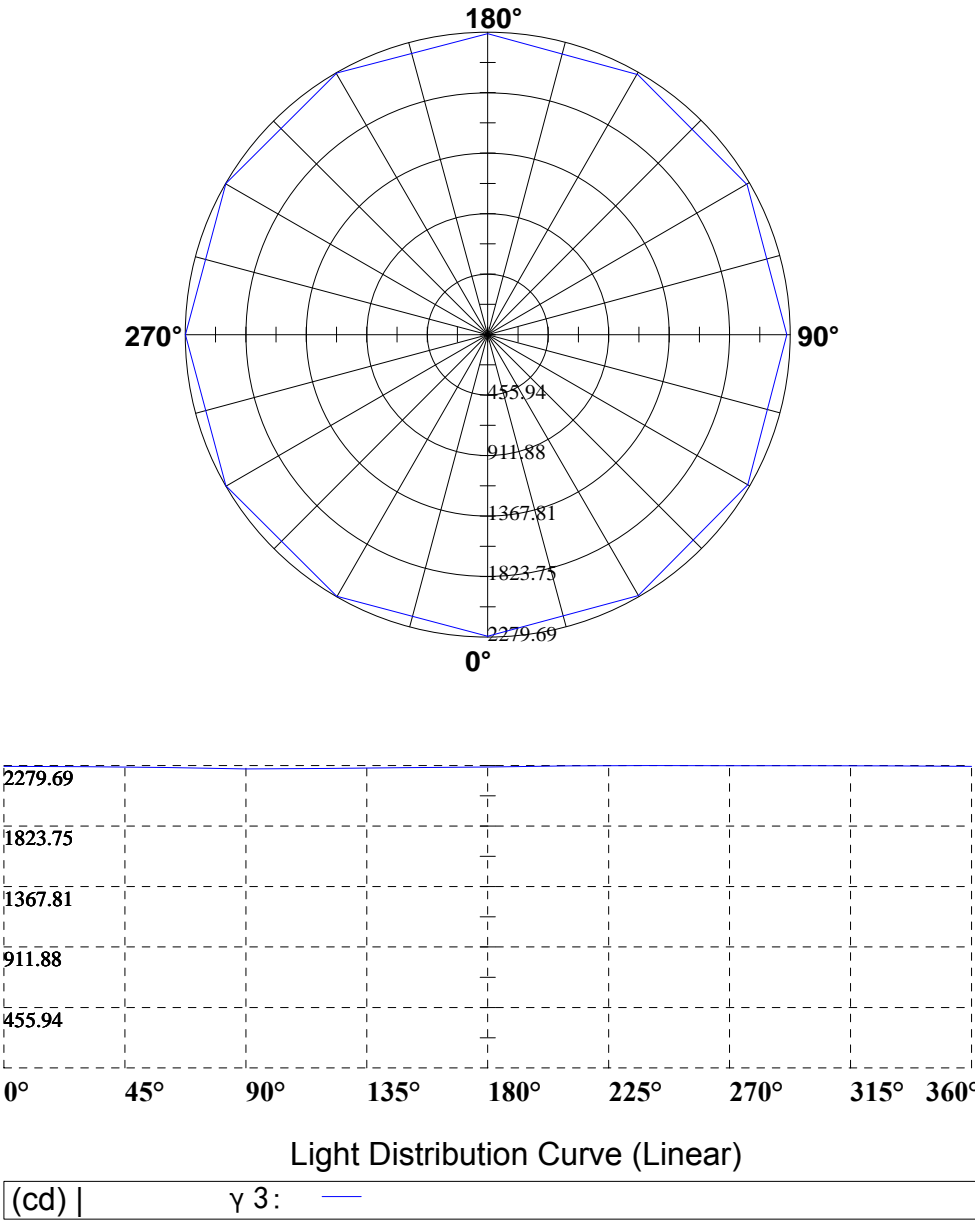
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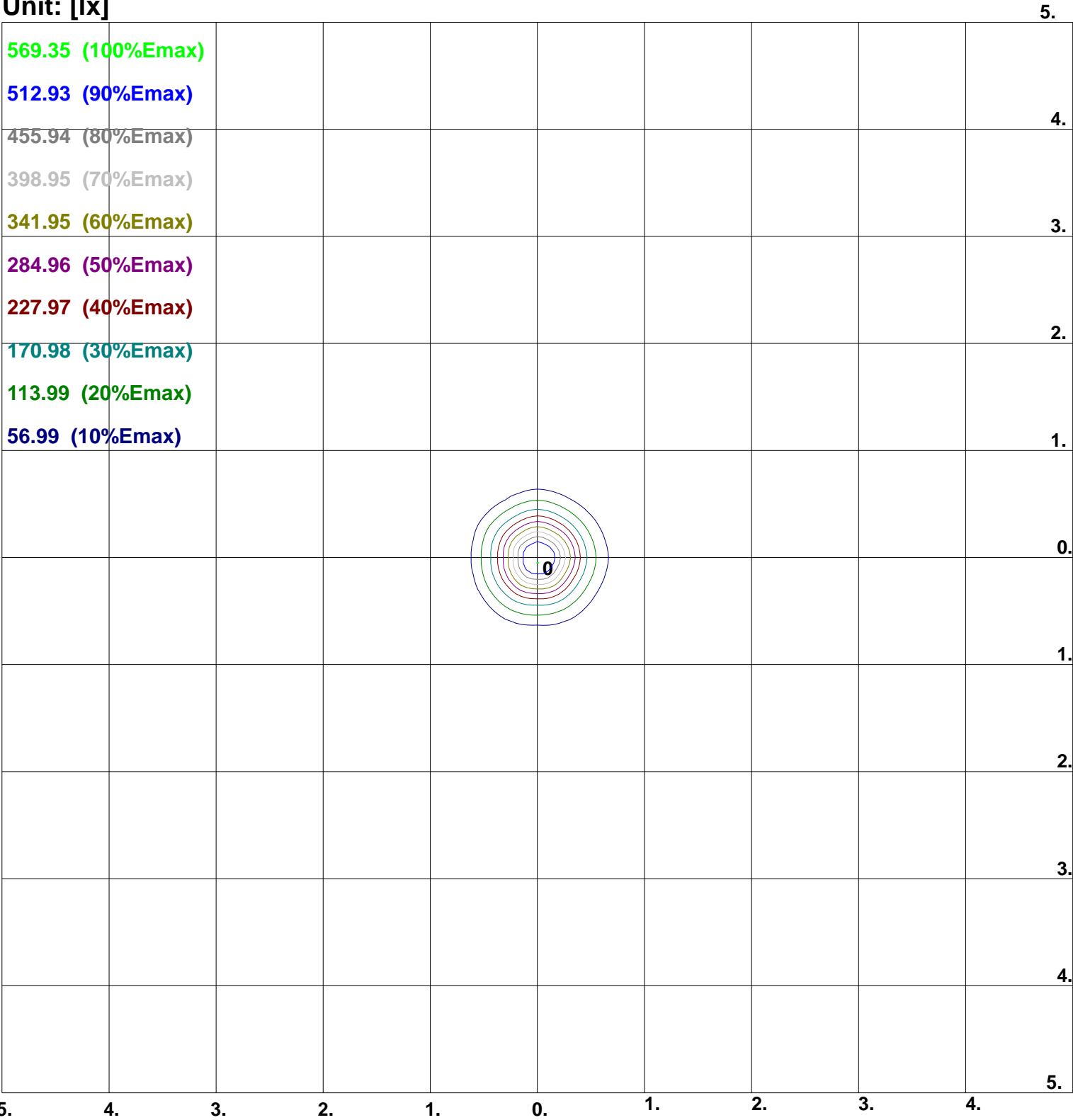
[illegible]





Horizontal cone through Max.cd [Unit: cd]



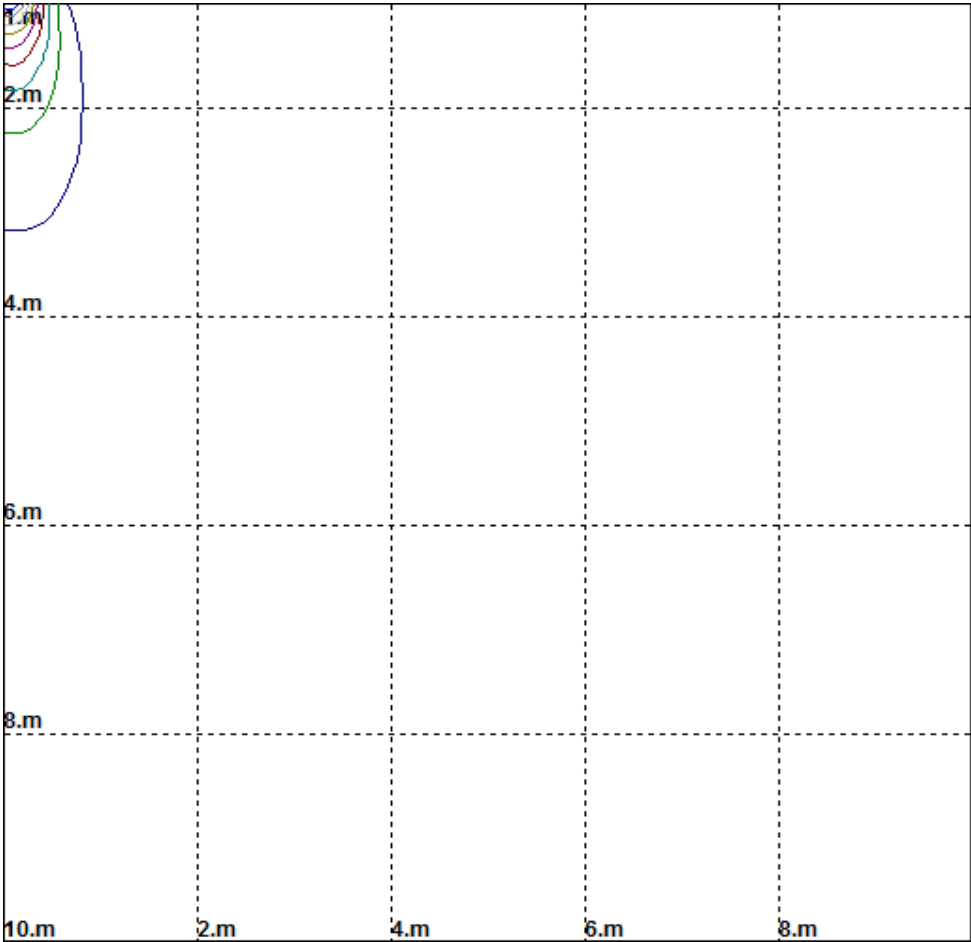


Coordinate Scale: d/h  
Height: 2 m  
Max Illuminance : 569.92lx

Space ISO-lx

Unit: [lx]  
Illuminance

- 569.35
- 512.93
- 455.94
- 398.95
- 341.95
- 284.96
- 227.97
- 170.98
- 113.99
- 56.99



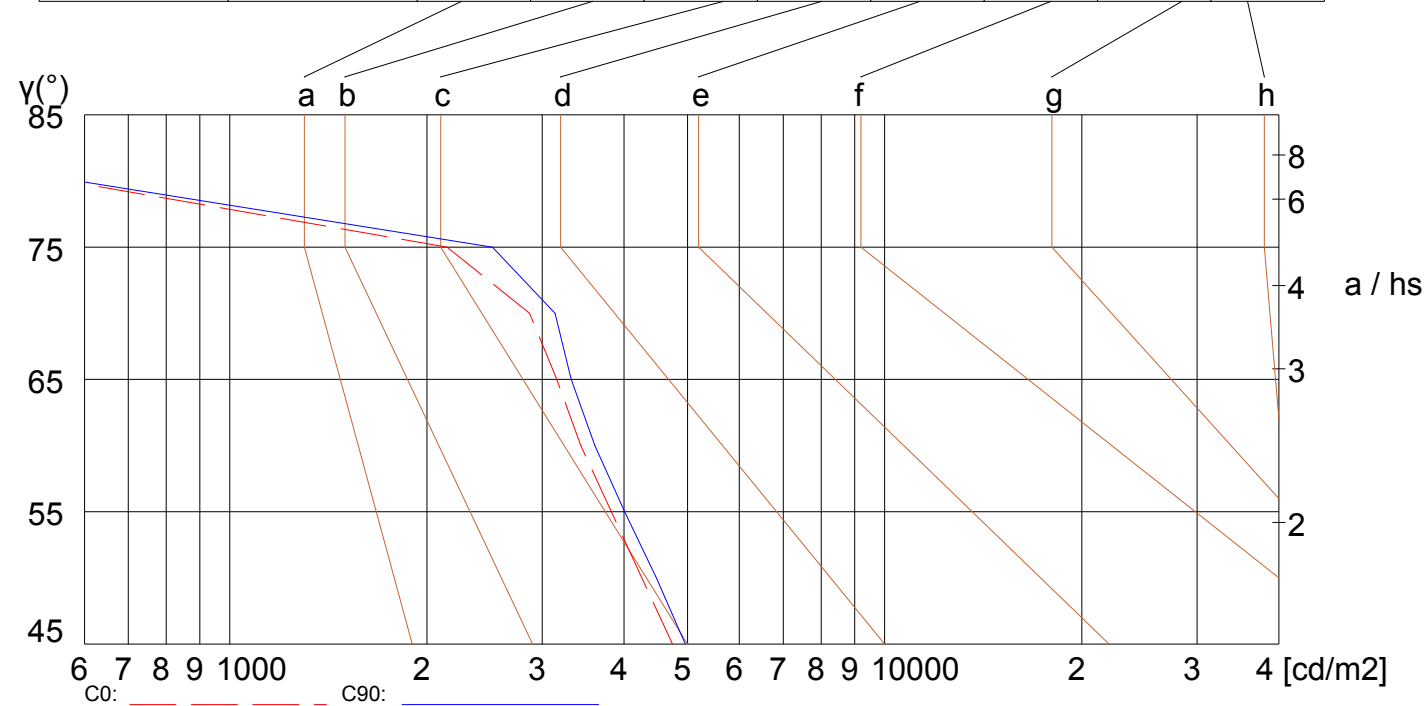
Luminance Limiting Curve (There is not luminous side)

Diameter: 115mm  
Length: -115mm  
Width: -115mm  
Height: 105mm

(cd/m2)

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4743	4257	3826	3436	3157	2870	2147	520	453
C90	4961	4481	4008	3611	3321	3138	2518	569	485

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 WNL (CRI90 350mA 40D)**

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	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	0.90	0.90	0.90	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.77	0.77	0.77	0.76
1	0.87	0.86	0.86	0.86	0.85	0.84	0.82	0.81	0.81	0.78	0.77	0.76	0.72	0.72	0.71	0.67
2	0.82	0.81	0.80	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.71	0.69	0.68	0.67	0.63
3	0.77	0.76	0.76	0.76	0.75	0.74	0.74	0.72	0.71	0.70	0.69	0.67	0.67	0.64	0.63	0.59
4	0.73	0.72	0.71	0.72	0.71	0.70	0.70	0.68	0.67	0.67	0.65	0.63	0.64	0.61	0.59	0.56
5	0.69	0.68	0.68	0.68	0.67	0.66	0.66	0.64	0.63	0.64	0.61	0.60	0.61	0.58	0.56	0.53
6	0.66	0.65	0.64	0.65	0.63	0.62	0.63	0.61	0.59	0.61	0.58	0.56	0.58	0.55	0.53	0.50
7	0.62	0.61	0.61	0.62	0.60	0.59	0.60	0.58	0.56	0.58	0.56	0.54	0.56	0.53	0.50	0.48
8	0.60	0.58	0.58	0.59	0.57	0.56	0.57	0.55	0.54	0.56	0.53	0.51	0.54	0.50	0.48	0.45
9	0.57	0.56	0.55	0.56	0.55	0.54	0.55	0.53	0.51	0.53	0.51	0.49	0.52	0.48	0.46	0.43
10	0.54	0.53	0.53	0.54	0.52	0.51	0.52	0.50	0.49	0.51	0.48	0.46	0.49	0.46	0.44	0.41



Operator  
Telephone  
Fax  
e-Mail

## R852 WNL (CRI90 350mA 40D) / UGR-Table

Luminaire: R852 WNL (CRI90 350mA 40D)

Lamps: 1 x LUMINUS CLM-9-40-90-36-TC40-F5-2 350mA

Glare Evaluation According to UGR											
$\rho$ Ceiling		70	70	50	50	30	70	70	50	50	30
$\rho$ Walls		50	30	50	30	30	50	30	50	30	30
$\rho$ Floor		20	20	20	20	20	20	20	20	20	20
Room Size X                  Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	11.3	12.0	11.5	12.2	12.4	11.3	12.0	11.5	12.2	12.4
	3H	11.4	12.0	11.7	12.3	12.5	11.4	12.0	11.7	12.3	12.5
	4H	11.4	12.0	11.7	12.2	12.5	11.4	12.0	11.7	12.2	12.5
	6H	11.3	11.9	11.7	12.2	12.4	11.3	11.9	11.7	12.2	12.4
	8H	11.3	11.8	11.6	12.1	12.4	11.3	11.8	11.6	12.1	12.4
	12H	11.3	11.8	11.6	12.1	12.4	11.3	11.8	11.6	12.1	12.4
4H	2H	11.2	11.8	11.5	12.1	12.3	11.2	11.8	11.5	12.1	12.3
	3H	11.4	11.9	11.8	12.2	12.5	11.4	11.9	11.8	12.2	12.5
	4H	11.5	11.9	11.8	12.2	12.6	11.5	11.9	11.8	12.2	12.6
	6H	11.4	11.7	11.8	12.1	12.5	11.4	11.7	11.8	12.1	12.5
	8H	11.4	11.7	11.8	12.1	12.5	11.4	11.7	11.8	12.1	12.5
	12H	11.3	11.6	11.8	12.0	12.4	11.3	11.6	11.8	12.0	12.4
8H	4H	11.4	11.7	11.8	12.1	12.5	11.4	11.7	11.8	12.1	12.5
	6H	11.3	11.6	11.8	12.0	12.4	11.3	11.6	11.8	12.0	12.4
	8H	11.3	11.5	11.7	11.9	12.4	11.3	11.5	11.7	11.9	12.4
	12H	11.2	11.4	11.7	11.8	12.3	11.2	11.4	11.7	11.8	12.3
12H	4H	11.4	11.6	11.8	12.0	12.4	11.4	11.6	11.8	12.0	12.4
	6H	11.3	11.5	11.7	11.9	12.4	11.3	11.5	11.7	11.9	12.4
	8H	11.2	11.4	11.7	11.8	12.3	11.2	11.4	11.7	11.8	12.3
Variation of the observer position for the luminaire distances S											
S = 1.0H		+5.5 / -3.9					+5.5 / -3.9				
S = 1.5H		+8.2 / -4.7					+8.2 / -4.7				
S = 2.0H		+10.2 / -5.5					+10.2 / -5.5				
Standard table		BK01					BK01				
Correction Summand		-7.6					-7.6				
Corrected Glare Indices referring to 1658lm Total Luminous Flux											

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