

Luminaire Property

Luminaire: RH-MRD48 48W 4000K

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 4259.04 lm

Number of Lamps: 1

Diameter: 600mm

Length: mm

Photometric Type: Type C

Voltage: 220.8 V

Current: 0.213 A

Power: 46.6 W

Power Factor: 0.991

Ballast Type:

Width: 600mm

Height: mm

Remark:

Photometric Results

Lumens: 4259.04 lm

Efficiency: 91.3957 lm/W

Central Intensity: 1520.264cd

Maximum Intensity: 1530.761cd

Angle of maximum intensity: C:135.0 G:2.0

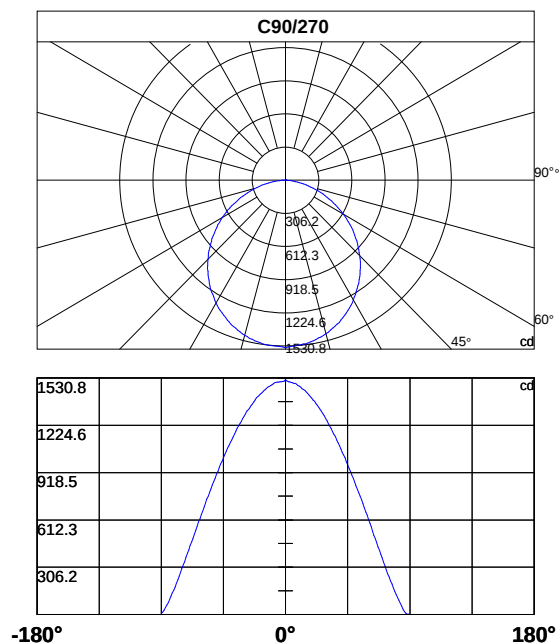
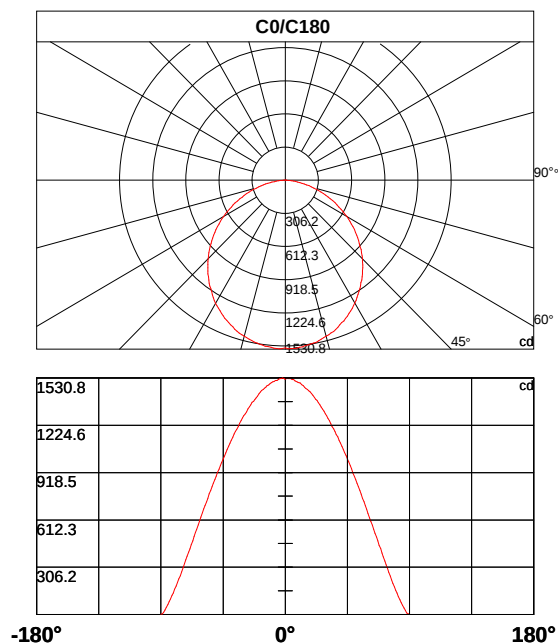
Half Peak Side Angle(50%): Left: -57.5 Right:53.5

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -82.2 Right:78.4



Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	1520.3	1528.7	1526.5	1528.1	1527.2	1521.6	1520.0	1512.2	1508.6	1503.9
45.0	1520.3	1512.4	1506.6	1506.6	1501.2	1499.7	1495.8	1496.1	1489.8	1482.0
90.0	1520.3	1512.4	1506.6	1506.6	1501.2	1499.7	1495.8	1496.1	1489.8	1482.0
135.0	1520.3	1526.3	1530.8	1528.5	1526.3	1520.2	1515.5	1515.3	1509.5	1505.7
180.0	1520.3	1526.3	1530.8	1528.5	1526.3	1520.2	1515.5	1515.3	1509.5	1505.7
225.0	1520.3	1510.2	1509.0	1507.0	1505.7	1504.8	1503.9	1502.6	1499.4	1490.9
270.0	1520.3	1510.2	1509.0	1507.0	1505.7	1504.8	1503.9	1502.6	1499.4	1490.9
315.0	1520.3	1528.7	1526.5	1528.1	1527.2	1521.6	1520.0	1512.2	1508.6	1503.9
360.0	1520.3	1528.7	1526.5	1528.1	1527.2	1521.6	1520.0	1512.2	1508.6	1503.9

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1499.2	1497.6	1488.0	1480.5	1471.9	1463.7	1457.2	1448.5	1441.8	1430.8
45.0	1477.3	1471.0	1461.9	1457.2	1451.2	1440.0	1432.1	1418.8	1409.1	1400.4
90.0	1477.3	1471.0	1461.9	1457.2	1451.2	1440.0	1432.1	1418.8	1409.1	1400.4
135.0	1499.4	1494.5	1486.5	1481.1	1471.5	1464.1	1457.7	1450.2	1439.8	1429.2
180.0	1499.4	1494.5	1486.5	1481.1	1471.5	1464.1	1457.7	1450.2	1439.8	1429.2
225.0	1485.4	1482.7	1475.5	1471.7	1462.6	1454.7	1446.9	1436.2	1430.8	1418.8
270.0	1485.4	1482.7	1475.5	1471.7	1462.6	1454.7	1446.9	1436.2	1430.8	1418.8
315.0	1499.2	1497.6	1488.0	1480.5	1471.9	1463.7	1457.2	1448.5	1441.8	1430.8
360.0	1499.2	1497.6	1488.0	1480.5	1471.9	1463.7	1457.2	1448.5	1441.8	1430.8

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1419.0	1405.3	1391.7	1385.6	1372.7	1358.4	1343.6	1330.7	1316.8	1299.8
45.0	1389.2	1380.5	1365.5	1354.1	1341.6	1327.8	1314.8	1298.3	1286.1	1270.1
90.0	1389.2	1380.5	1365.5	1354.1	1341.6	1327.8	1314.8	1298.3	1286.1	1270.1
135.0	1414.5	1404.0	1392.8	1380.7	1373.2	1356.6	1344.3	1329.5	1312.1	1299.8
180.0	1414.5	1404.0	1392.8	1380.7	1373.2	1356.6	1344.3	1329.5	1312.1	1299.8
225.0	1411.6	1402.0	1387.0	1376.0	1362.6	1349.9	1337.1	1326.6	1315.2	1300.2
270.0	1411.6	1402.0	1387.0	1376.0	1362.6	1349.9	1337.1	1326.6	1315.2	1300.2
315.0	1419.0	1405.3	1391.7	1385.6	1372.7	1358.4	1343.6	1330.7	1316.8	1299.8
360.0	1419.0	1405.3	1391.7	1385.6	1372.7	1358.4	1343.6	1330.7	1316.8	1299.8

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1286.6	1271.2	1252.6	1235.6	1217.1	1200.8	1184.7	1163.4	1148.7	1126.5
45.0	1252.9	1235.0	1220.7	1201.6	1183.5	1166.8	1152.3	1129.7	1112.7	1093.0
90.0	1252.9	1235.0	1220.7	1201.6	1183.5	1166.8	1152.3	1129.7	1112.7	1093.0
135.0	1287.3	1271.8	1255.1	1236.8	1216.4	1198.3	1186.2	1167.7	1147.1	1126.3
180.0	1287.3	1271.8	1255.1	1236.8	1216.4	1198.3	1186.2	1167.7	1147.1	1126.3
225.0	1284.6	1268.5	1249.3	1235.8	1222.2	1206.1	1187.8	1168.8	1147.8	1130.3
270.0	1284.6	1268.5	1249.3	1235.8	1222.2	1206.1	1187.8	1168.8	1147.8	1130.3
315.0	1286.6	1271.2	1252.6	1235.6	1217.1	1200.8	1184.7	1163.4	1148.7	1126.5
360.0	1286.6	1271.2	1252.6	1235.6	1217.1	1200.8	1184.7	1163.4	1148.7	1126.5

Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	1109.8	1087.8	1069.5	1048.5	1027.5	1006.9	988.4	962.9	942.5	915.2
45.0	1070.7	1050.8	1033.5	1015.2	989.3	969.8	945.2	925.1	903.4	880.6
90.0	1070.7	1050.8	1033.5	1015.2	989.3	969.8	945.2	925.1	903.4	880.6
135.0	1108.6	1090.3	1067.5	1047.2	1026.4	1007.6	985.2	963.1	940.3	919.5
180.0	1108.6	1090.3	1067.5	1047.2	1026.4	1007.6	985.2	963.1	940.3	919.5
225.0	1115.1	1092.5	1076.9	1055.4	1034.2	1012.5	991.5	973.0	951.0	926.9
270.0	1115.1	1092.5	1076.9	1055.4	1034.2	1012.5	991.5	973.0	951.0	926.9
315.0	1109.8	1087.8	1069.5	1048.5	1027.5	1006.9	988.4	962.9	942.5	915.2
360.0	1109.8	1087.8	1069.5	1048.5	1027.5	1006.9	988.4	962.9	942.5	915.2

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	892.7	871.7	849.8	828.1	802.8	778.2	752.3	728.4	703.8	681.0
45.0	857.8	832.5	809.1	787.4	766.8	741.8	717.4	691.9	663.5	643.6
90.0	857.8	832.5	809.1	787.4	766.8	741.8	717.4	691.9	663.5	643.6
135.0	894.5	874.1	850.2	827.2	804.2	780.0	752.5	730.6	705.3	684.3
180.0	894.5	874.1	850.2	827.2	804.2	780.0	752.5	730.6	705.3	684.3
225.0	904.3	881.0	862.5	836.4	812.9	791.8	765.3	747.2	721.0	696.6
270.0	904.3	881.0	862.5	836.4	812.9	791.8	765.3	747.2	721.0	696.6
315.0	892.7	871.7	849.8	828.1	802.8	778.2	752.3	728.4	703.8	681.0
360.0	892.7	871.7	849.8	828.1	802.8	778.2	752.3	728.4	703.8	681.0

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	655.5	626.9	603.4	578.1	551.5	525.8	501.7	476.0	447.1	426.8
45.0	617.9	589.7	566.7	538.8	512.9	489.6	463.4	437.5	414.0	388.3
90.0	617.9	589.7	566.7	538.8	512.9	489.6	463.4	437.5	414.0	388.3
135.0	658.4	629.8	606.1	579.9	551.8	530.1	505.9	477.5	451.0	425.0
180.0	658.4	629.8	606.1	579.9	551.8	530.1	505.9	477.5	451.0	425.0
225.0	668.5	646.1	619.0	599.4	571.0	547.3	518.9	492.5	469.3	448.2
270.0	668.5	646.1	619.0	599.4	571.0	547.3	518.9	492.5	469.3	448.2
315.0	655.5	626.9	603.4	578.1	551.5	525.8	501.7	476.0	447.1	426.8
360.0	655.5	626.9	603.4	578.1	551.5	525.8	501.7	476.0	447.1	426.8

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	397.7	373.8	346.3	320.6	299.1	273.4	249.3	224.5	201.4	178.2
45.0	366.7	338.9	312.6	287.7	262.7	241.2	216.9	197.2	171.9	151.8
90.0	366.7	338.9	312.6	287.7	262.7	241.2	216.9	197.2	171.9	151.8
135.0	405.1	377.1	354.3	328.6	304.0	275.9	250.9	230.1	207.0	184.0
180.0	405.1	377.1	354.3	328.6	304.0	275.9	250.9	230.1	207.0	184.0
225.0	419.4	396.6	370.7	342.5	323.0	298.0	271.4	249.5	226.3	199.9
270.0	419.4	396.6	370.7	342.5	323.0	298.0	271.4	249.5	226.3	199.9
315.0	397.7	373.8	346.3	320.6	299.1	273.4	249.3	224.5	201.4	178.2
360.0	397.7	373.8	346.3	320.6	299.1	273.4	249.3	224.5	201.4	178.2

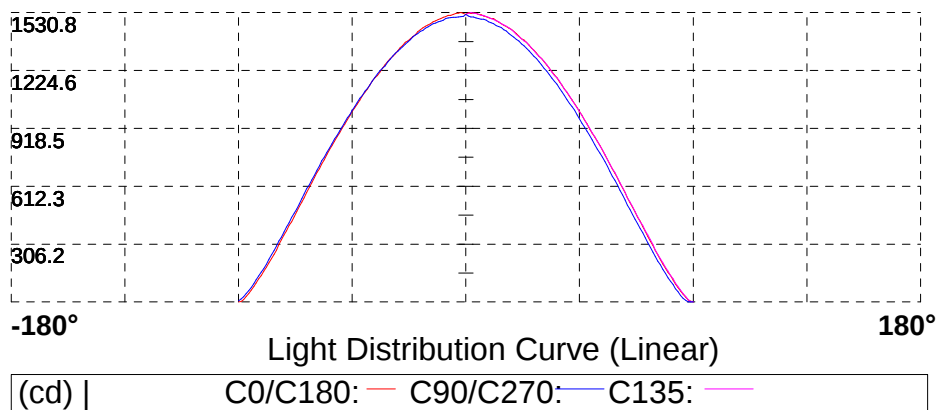
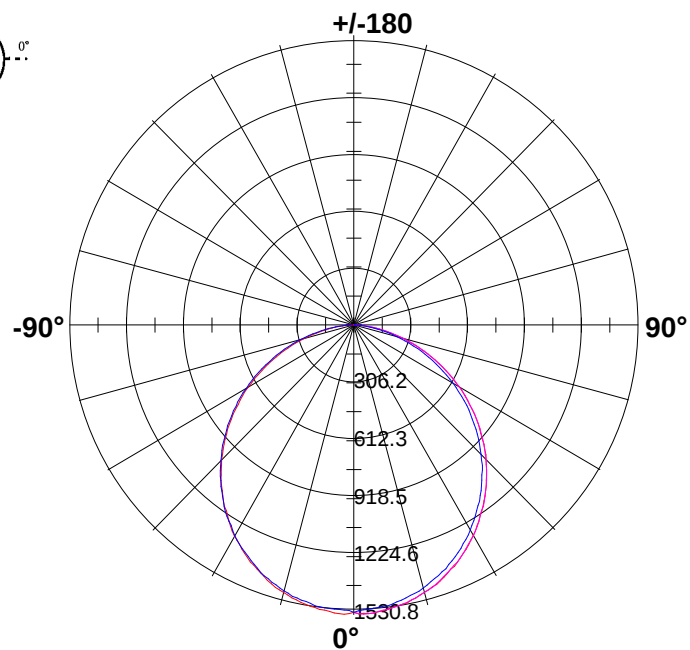
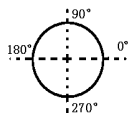
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	155.8	140.0	115.8	95.2	77.8	59.0	41.4	26.6	11.2	4.0
45.0	127.7	109.3	92.8	70.7	54.5	34.4	19.7	8.5	1.3	1.1
90.0	127.7	109.3	92.8	70.7	54.5	34.4	19.7	8.5	1.3	1.1
135.0	163.8	139.5	123.4	100.1	82.3	63.3	44.9	29.3	13.4	2.9
180.0	163.8	139.5	123.4	100.1	82.3	63.3	44.9	29.3	13.4	2.9
225.0	177.0	158.1	138.6	118.2	97.9	76.0	60.6	44.3	28.0	15.4
270.0	177.0	158.1	138.6	118.2	97.9	76.0	60.6	44.3	28.0	15.4
315.0	155.8	140.0	115.8	95.2	77.8	59.0	41.4	26.6	11.2	4.0
360.0	155.8	140.0	115.8	95.2	77.8	59.0	41.4	26.6	11.2	4.0

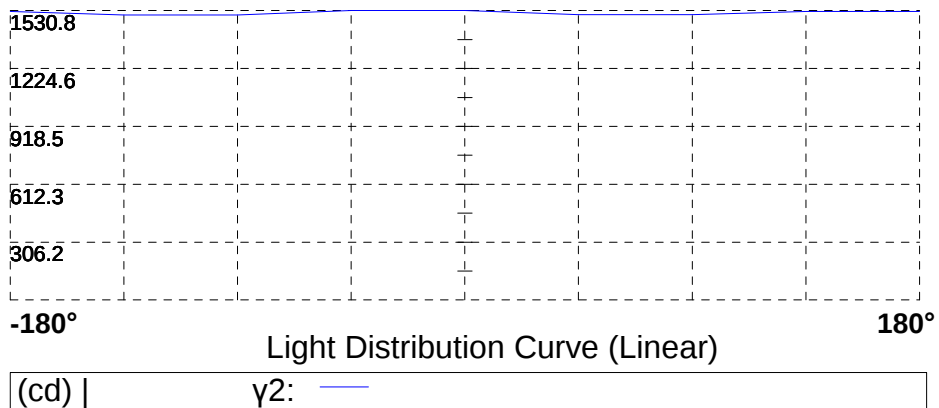
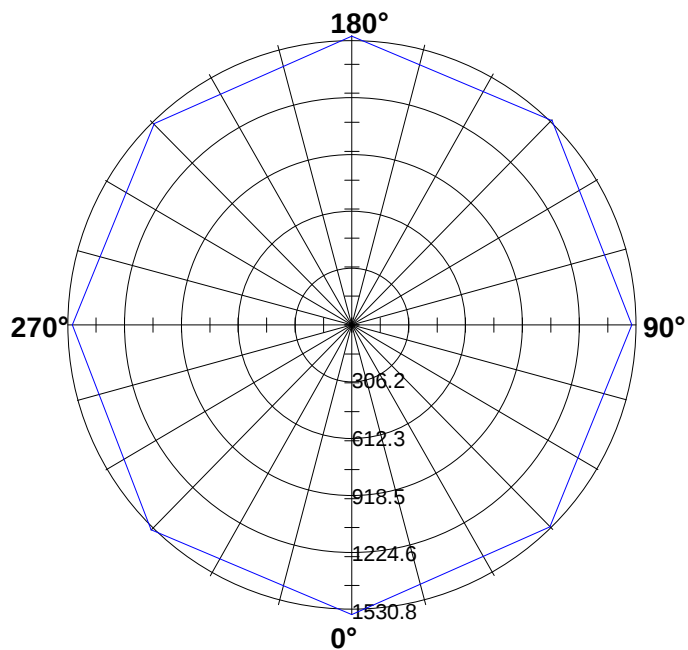
C\G	90.0
0.0	0.0
45.0	0.9
90.0	0.9
135.0	1.3
180.0	1.3
225.0	5.8
270.0	5.8
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

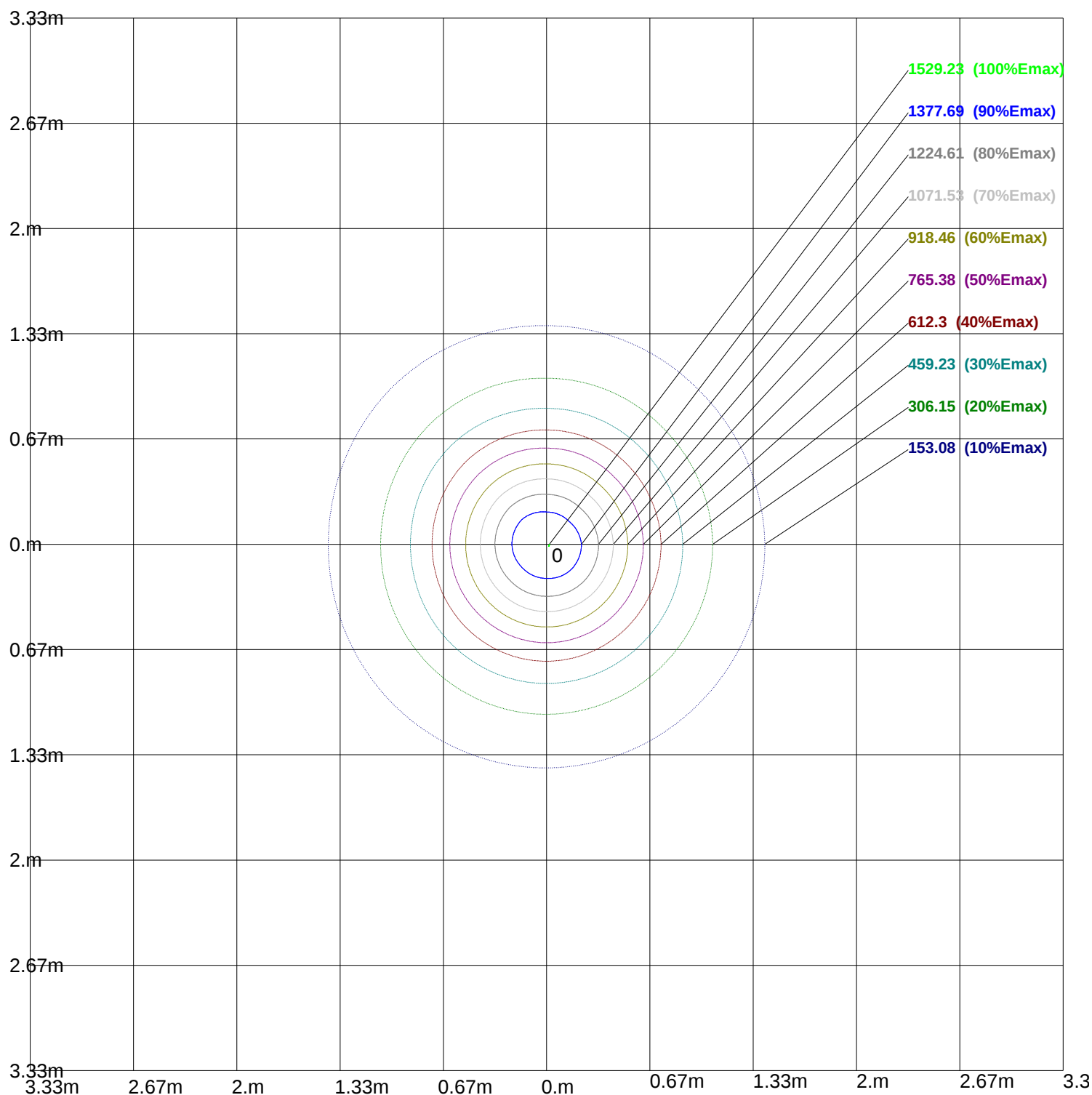
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 1530.76lx

Luminance Limiting Curve

Diameter: 600mm

Length: mm

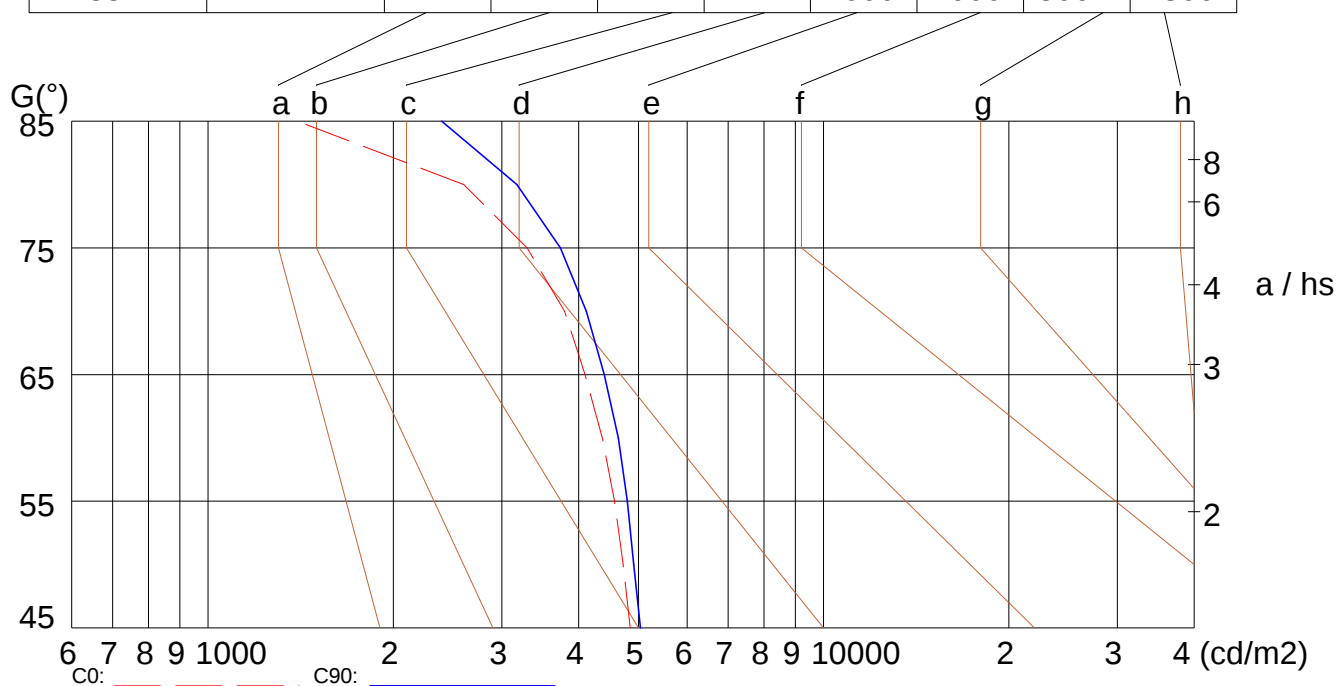
Width: 600mm

Height: mm

(cd/m²)

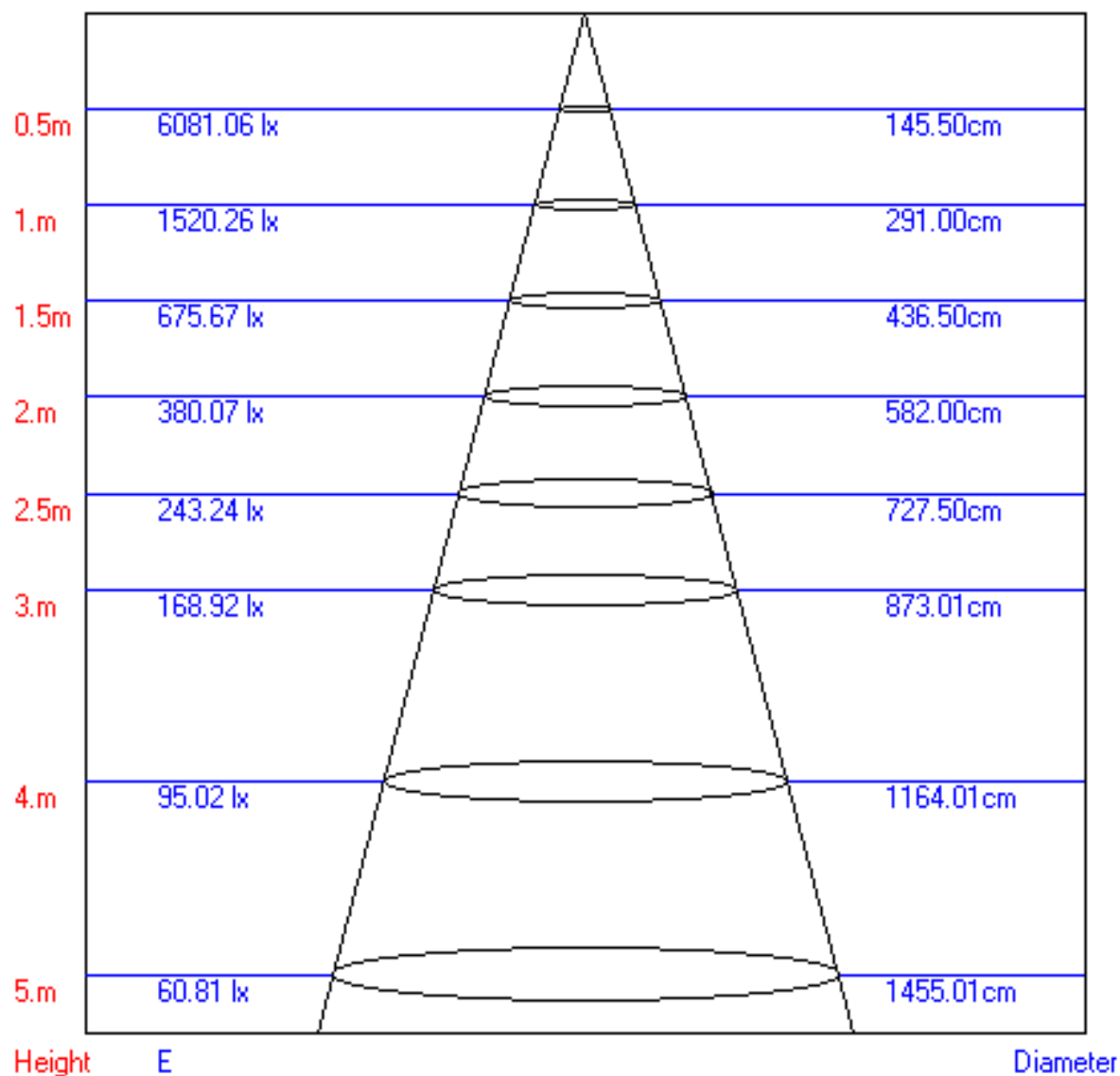
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4851	4721	4575	4372	4098	3792	3297	2600	1396
C90	5037	4913	4799	4637	4401	4114	3737	3174	2394

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



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:111.00°

Utilization Coefficient Table

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.05	1.03	1.01	1.03	1.01	0.99	1.00	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.84	0.79
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.72	0.68	0.63	0.69	0.64	0.60	0.55
4	0.65	0.63	0.61	0.66	0.62	0.59	0.65	0.61	0.57	0.64	0.59	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.52	0.47	0.56	0.50	0.45	0.41
6	0.50	0.48	0.46	0.51	0.47	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.44	0.39	0.36
7	0.45	0.42	0.41	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.37	0.47	0.40	0.35	0.31
8	0.40	0.38	0.36	0.41	0.38	0.35	0.42	0.37	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.36	0.34	0.33	0.37	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.29	0.40	0.33	0.28	0.25
10	0.33	0.31	0.29	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.37	0.30	0.26	0.23

