

Luminaire Property

Luminaire: RH-PL3012 38W 4000K

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 3897.24 lm

Number of Lamps: 1

Diameter: mm

Length: 1195mm

Photometric Type: Type C

Voltage: 220.4 V

Current: 0.179 A

Power: 38.0 W

Power Factor: 0.962

Ballast Type: LF-GIR040YI1000H 1000mA

Width: 295mm

Height: mm

Remark:

Photometric Results

Lumens: 3897.24 lm

Efficiency: 102.5589 lm/W

Central Intensity: 1386.232cd

Maximum Intensity: 1396.36cd

Angle of maximum intensity: C:135.0 G:1.0

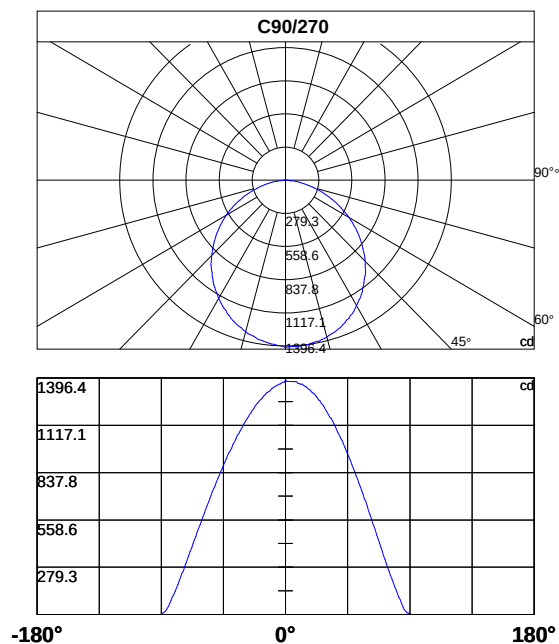
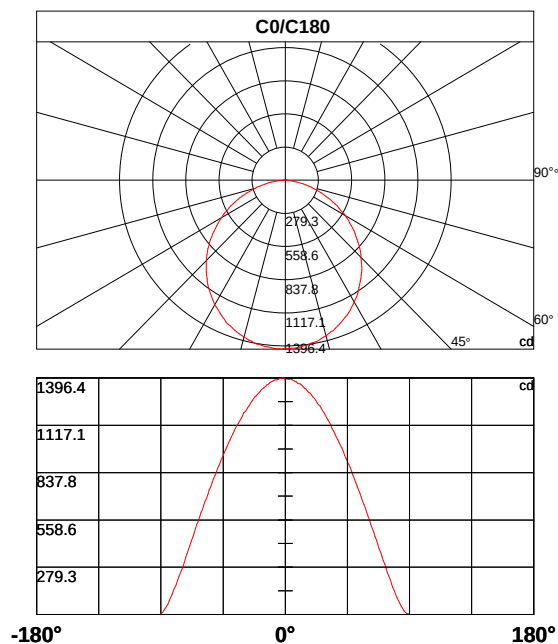
Half Peak Side Angle(50%): Left: -55.8 Right:55.5

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -79.9 Right:80.0



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	1386.2	1394.2	1389.5	1389.5	1390.6	1385.6	1381.4	1375.8	1374.9	1366.9
45.0	1386.2	1376.0	1375.6	1376.9	1376.3	1376.9	1374.2	1375.8	1373.2	1365.7
90.0	1386.2	1376.0	1375.6	1376.9	1376.3	1376.9	1374.2	1375.8	1373.2	1365.7
135.0	1386.2	1396.4	1396.0	1395.5	1393.7	1390.3	1385.2	1385.9	1382.8	1377.4
180.0	1386.2	1396.4	1396.0	1395.5	1393.7	1390.3	1385.2	1385.9	1382.8	1377.4
225.0	1386.2	1371.6	1370.0	1366.9	1360.6	1359.0	1354.1	1349.4	1344.9	1338.0
270.0	1386.2	1371.6	1370.0	1366.9	1360.6	1359.0	1354.1	1349.4	1344.9	1338.0
315.0	1386.2	1394.2	1389.5	1389.5	1390.6	1385.6	1381.4	1375.8	1374.9	1366.9
360.0	1386.2	1394.2	1389.5	1389.5	1390.6	1385.6	1381.4	1375.8	1374.9	1366.9

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1363.1	1360.6	1355.5	1344.3	1336.9	1332.0	1319.7	1311.9	1307.9	1296.0
45.0	1363.1	1359.0	1359.9	1353.5	1348.3	1344.1	1334.9	1328.4	1323.5	1314.6
90.0	1363.1	1359.0	1359.9	1353.5	1348.3	1344.1	1334.9	1328.4	1323.5	1314.6
135.0	1375.1	1370.9	1360.6	1357.9	1348.3	1342.9	1335.6	1329.1	1319.3	1310.5
180.0	1375.1	1370.9	1360.6	1357.9	1348.3	1342.9	1335.6	1329.1	1319.3	1310.5
225.0	1334.2	1323.5	1318.3	1312.3	1307.2	1296.2	1289.5	1276.1	1270.1	1260.9
270.0	1334.2	1323.5	1318.3	1312.3	1307.2	1296.2	1289.5	1276.1	1270.1	1260.9
315.0	1363.1	1360.6	1355.5	1344.3	1336.9	1332.0	1319.7	1311.9	1307.9	1296.0
360.0	1363.1	1360.6	1355.5	1344.3	1336.9	1332.0	1319.7	1311.9	1307.9	1296.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1284.4	1276.1	1264.0	1251.9	1240.5	1232.1	1218.7	1205.0	1190.5	1178.0
45.0	1308.7	1300.9	1290.6	1279.7	1266.9	1259.8	1245.9	1237.9	1225.4	1210.4
90.0	1308.7	1300.9	1290.6	1279.7	1266.9	1259.8	1245.9	1237.9	1225.4	1210.4
135.0	1300.2	1290.8	1284.4	1275.9	1260.9	1249.5	1236.1	1223.6	1209.9	1198.3
180.0	1300.2	1290.8	1284.4	1275.9	1260.9	1249.5	1236.1	1223.6	1209.9	1198.3
225.0	1250.8	1241.0	1230.1	1216.2	1206.6	1189.8	1181.3	1168.4	1153.1	1141.3
270.0	1250.8	1241.0	1230.1	1216.2	1206.6	1189.8	1181.3	1168.4	1153.1	1141.3
315.0	1284.4	1276.1	1264.0	1251.9	1240.5	1232.1	1218.7	1205.0	1190.5	1178.0
360.0	1284.4	1276.1	1264.0	1251.9	1240.5	1232.1	1218.7	1205.0	1190.5	1178.0

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1162.7	1150.0	1134.2	1118.5	1098.8	1083.8	1066.6	1050.1	1032.6	1015.7
45.0	1195.2	1182.0	1167.2	1155.8	1141.1	1127.4	1107.5	1090.5	1072.7	1055.7
90.0	1195.2	1182.0	1167.2	1155.8	1141.1	1127.4	1107.5	1090.5	1072.7	1055.7
135.0	1189.6	1172.8	1157.6	1141.3	1128.3	1115.1	1099.5	1082.9	1066.2	1046.5
180.0	1189.6	1172.8	1157.6	1141.3	1128.3	1115.1	1099.5	1082.9	1066.2	1046.5
225.0	1129.2	1110.4	1095.5	1083.2	1068.2	1056.3	1035.8	1019.7	1004.7	983.7
270.0	1129.2	1110.4	1095.5	1083.2	1068.2	1056.3	1035.8	1019.7	1004.7	983.7
315.0	1162.7	1150.0	1134.2	1118.5	1098.8	1083.8	1066.6	1050.1	1032.6	1015.7
360.0	1162.7	1150.0	1134.2	1118.5	1098.8	1083.8	1066.6	1050.1	1032.6	1015.7

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	999.3	983.4	963.6	941.9	921.3	902.5	885.7	867.4	847.1	824.7
45.0	1040.4	1025.9	1007.2	984.6	966.5	947.0	927.1	909.0	886.2	864.5
90.0	1040.4	1025.9	1007.2	984.6	966.5	947.0	927.1	909.0	886.2	864.5
135.0	1030.6	1014.3	993.1	975.4	959.1	938.3	920.2	902.3	881.0	861.6
180.0	1030.6	1014.3	993.1	975.4	959.1	938.3	920.2	902.3	881.0	861.6
225.0	970.0	954.8	938.3	919.1	897.8	880.8	861.0	841.9	822.0	802.8
270.0	970.0	954.8	938.3	919.1	897.8	880.8	861.0	841.9	822.0	802.8
315.0	999.3	983.4	963.6	941.9	921.3	902.5	885.7	867.4	847.1	824.7
360.0	999.3	983.4	963.6	941.9	921.3	902.5	885.7	867.4	847.1	824.7

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	799.9	779.1	759.2	738.9	716.1	692.8	670.3	648.8	629.6	605.4
45.0	844.9	821.8	799.5	777.6	758.1	732.6	711.6	684.5	666.7	642.1
90.0	844.9	821.8	799.5	777.6	758.1	732.6	711.6	684.5	666.7	642.1
135.0	837.7	820.3	799.2	776.7	754.5	734.4	709.1	686.8	667.4	644.8
180.0	837.7	820.3	799.2	776.7	754.5	734.4	709.1	686.8	667.4	644.8
225.0	782.9	761.0	743.8	724.6	701.1	680.1	661.1	636.9	617.3	594.5
270.0	782.9	761.0	743.8	724.6	701.1	680.1	661.1	636.9	617.3	594.5
315.0	799.9	779.1	759.2	738.9	716.1	692.8	670.3	648.8	629.6	605.4
360.0	799.9	779.1	759.2	738.9	716.1	692.8	670.3	648.8	629.6	605.4

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	582.8	558.7	531.0	506.8	488.3	461.4	439.5	412.0	388.1	365.7
45.0	615.3	590.7	566.9	541.2	522.5	496.6	468.8	446.9	421.7	397.5
90.0	615.3	590.7	566.9	541.2	522.5	496.6	468.8	446.9	421.7	397.5
135.0	620.4	599.4	574.8	551.3	530.5	507.0	479.1	458.1	432.6	407.8
180.0	620.4	599.4	574.8	551.3	530.5	507.0	479.1	458.1	432.6	407.8
225.0	572.5	549.1	530.1	507.3	488.5	461.4	438.0	417.6	393.9	371.6
270.0	572.5	549.1	530.1	507.3	488.5	461.4	438.0	417.6	393.9	371.6
315.0	582.8	558.7	531.0	506.8	488.3	461.4	439.5	412.0	388.1	365.7
360.0	582.8	558.7	531.0	506.8	488.3	461.4	439.5	412.0	388.1	365.7

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	341.8	317.2	295.8	272.3	245.7	229.1	205.9	180.2	158.7	137.9
45.0	375.6	347.6	325.3	300.9	276.8	253.3	230.3	206.6	187.1	164.6
90.0	375.6	347.6	325.3	300.9	276.8	253.3	230.3	206.6	187.1	164.6
135.0	387.2	359.5	338.5	310.8	287.1	262.7	245.7	220.0	200.3	175.5
180.0	387.2	359.5	338.5	310.8	287.1	262.7	245.7	220.0	200.3	175.5
225.0	349.0	328.6	303.0	282.8	257.6	241.7	219.3	198.5	177.0	154.2
270.0	349.0	328.6	303.0	282.8	257.6	241.7	219.3	198.5	177.0	154.2
315.0	341.8	317.2	295.8	272.3	245.7	229.1	205.9	180.2	158.7	137.9
360.0	341.8	317.2	295.8	272.3	245.7	229.1	205.9	180.2	158.7	137.9

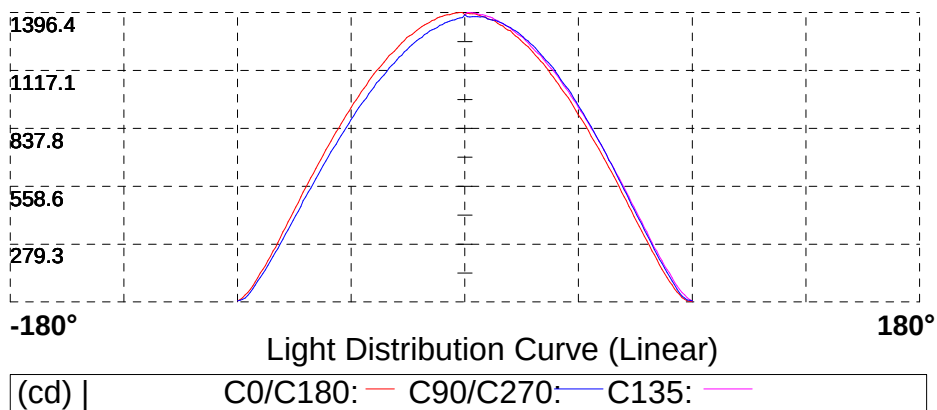
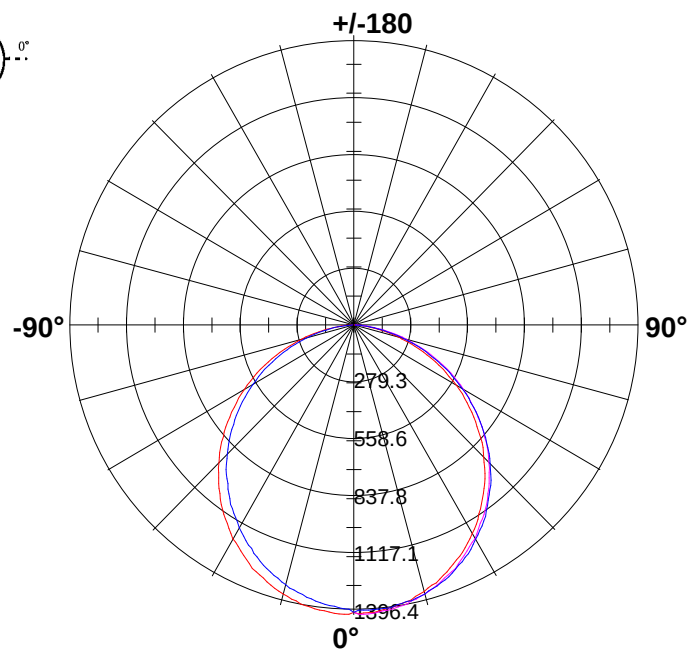
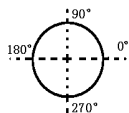
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	117.8	98.6	82.5	64.6	48.5	36.5	21.0	13.4	6.0	4.4
45.0	143.6	122.1	101.1	83.8	61.7	44.5	28.8	19.7	10.1	7.8
90.0	143.6	122.1	101.1	83.8	61.7	44.5	28.8	19.7	10.1	7.8
135.0	156.7	139.3	116.0	97.2	78.5	61.5	45.6	34.7	21.7	11.2
180.0	156.7	139.3	116.0	97.2	78.5	61.5	45.6	34.7	21.7	11.2
225.0	137.1	117.6	101.9	80.7	64.2	47.4	32.6	20.3	13.0	7.8
270.0	137.1	117.6	101.9	80.7	64.2	47.4	32.6	20.3	13.0	7.8
315.0	117.8	98.6	82.5	64.6	48.5	36.5	21.0	13.4	6.0	4.4
360.0	117.8	98.6	82.5	64.6	48.5	36.5	21.0	13.4	6.0	4.4

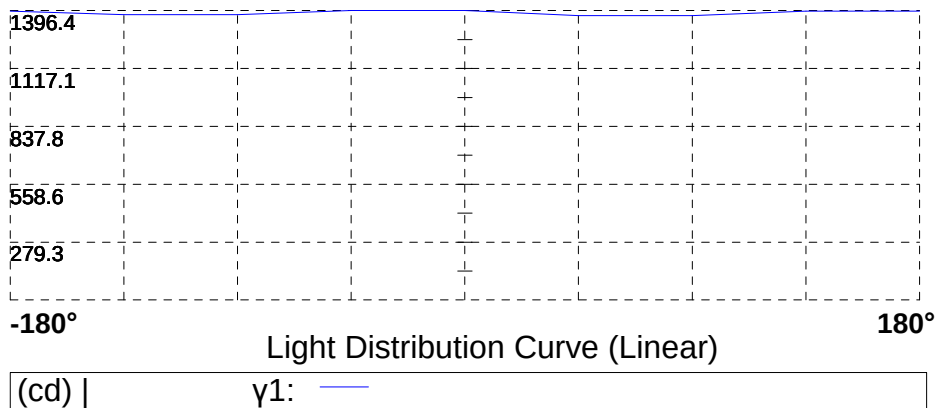
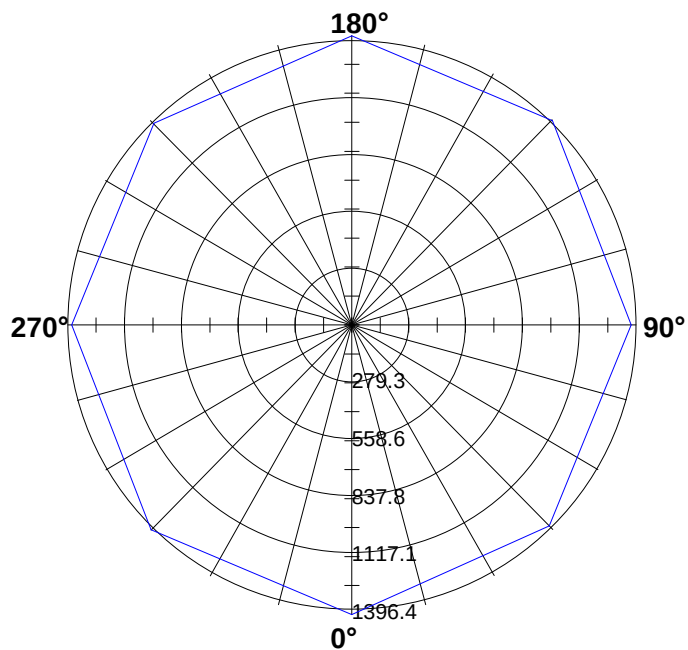
C\G	90.0
0.0	2.9
45.0	5.2
90.0	5.2
135.0	5.2
180.0	5.2
225.0	5.2
270.0	5.2
315.0	2.9
360.0	2.9

Light Distribution Curve [Unit: cd]

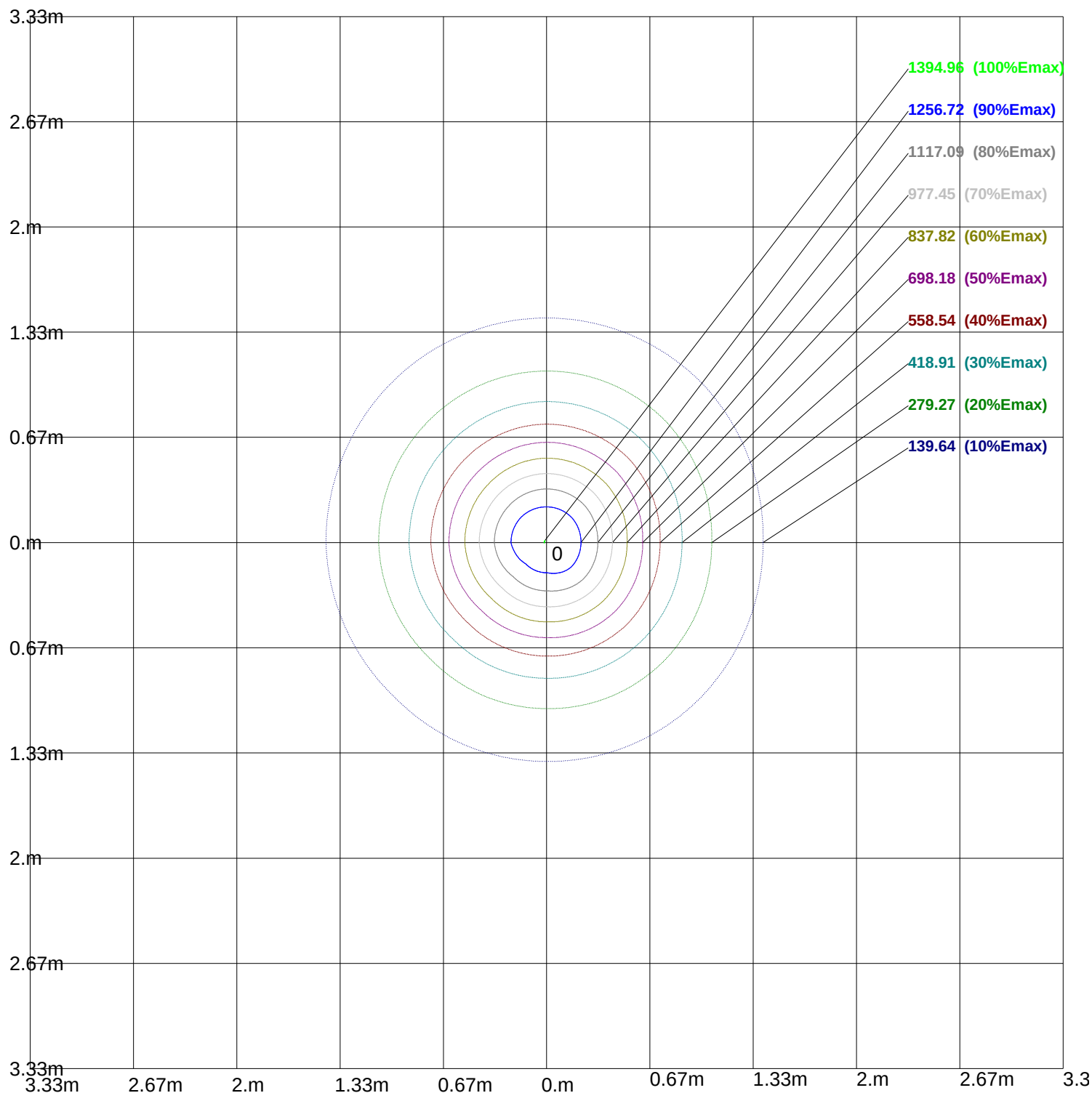
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 1396.36lx

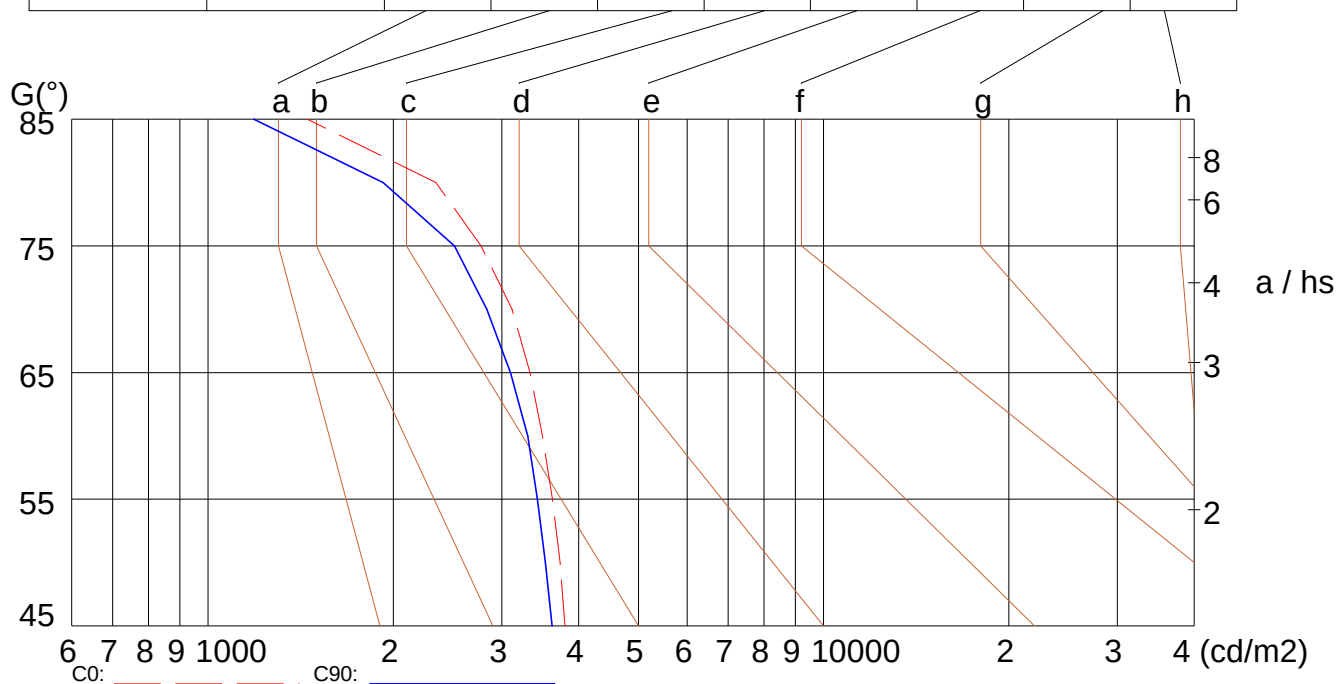
Luminance Limiting Curve

Diameter: mm
Length: 1195mm
Width: 295mm
Height: mm

(cd/m²)

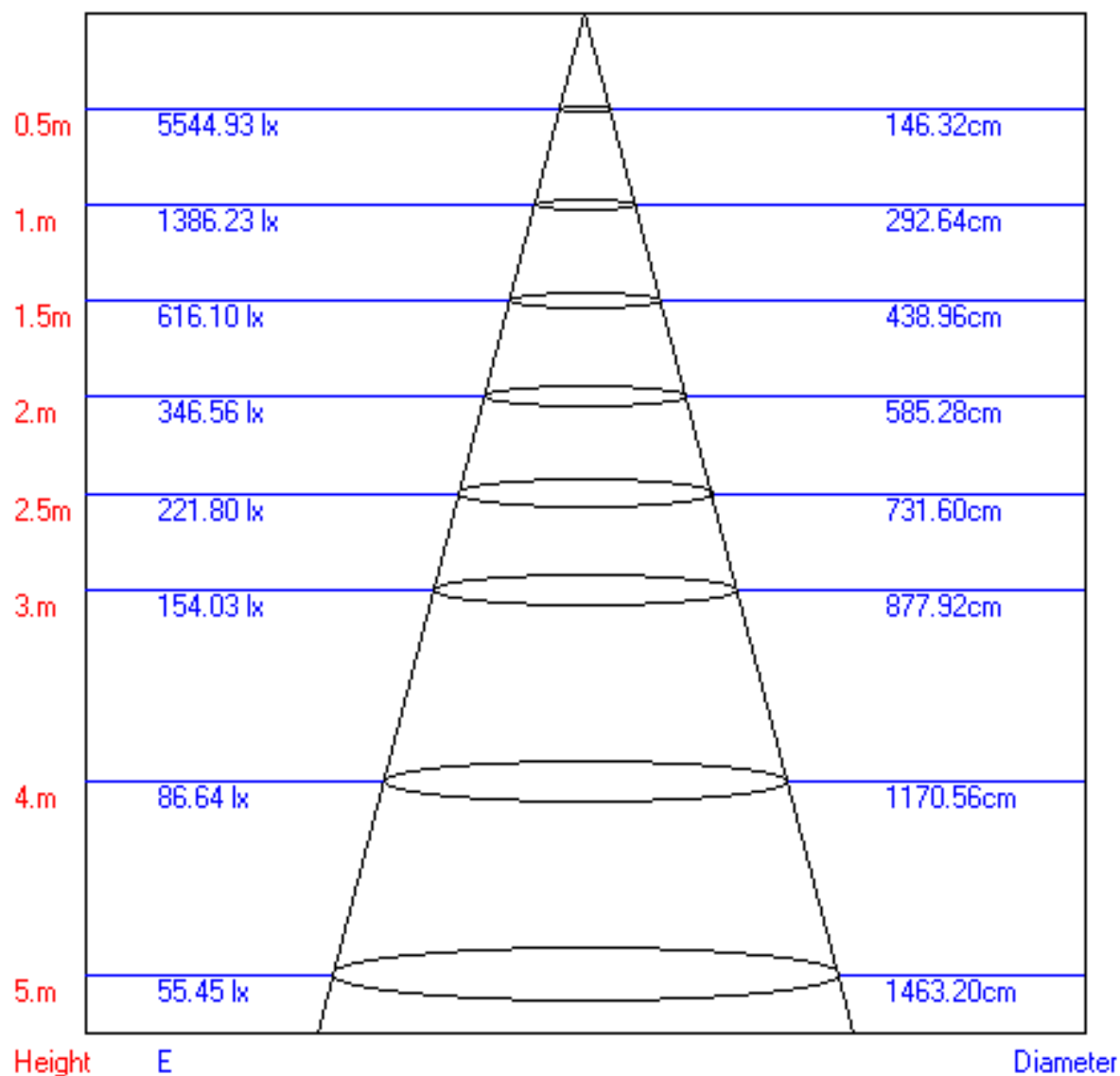
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	3799	3729	3624	3491	3333	3115	2777	2345	1448
C90	3621	3530	3427	3307	3097	2835	2511	1925	1186

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:111.30°

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	1.00	1.00	0.97	0.95	0.95	0.93	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	0.64	0.69	0.64	0.60	0.55
4	0.65	0.63	0.61	0.66	0.62	0.59	0.66	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	0.32	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

