Luminaire Property

Luminaire:

Report NO.: 24w
Test NO.:
Lamp:
Sum Lumens: 2279.32 lm
Number of Lamps: 1
Diameter: 200mm
Length: mm
Photometric Type: Type C

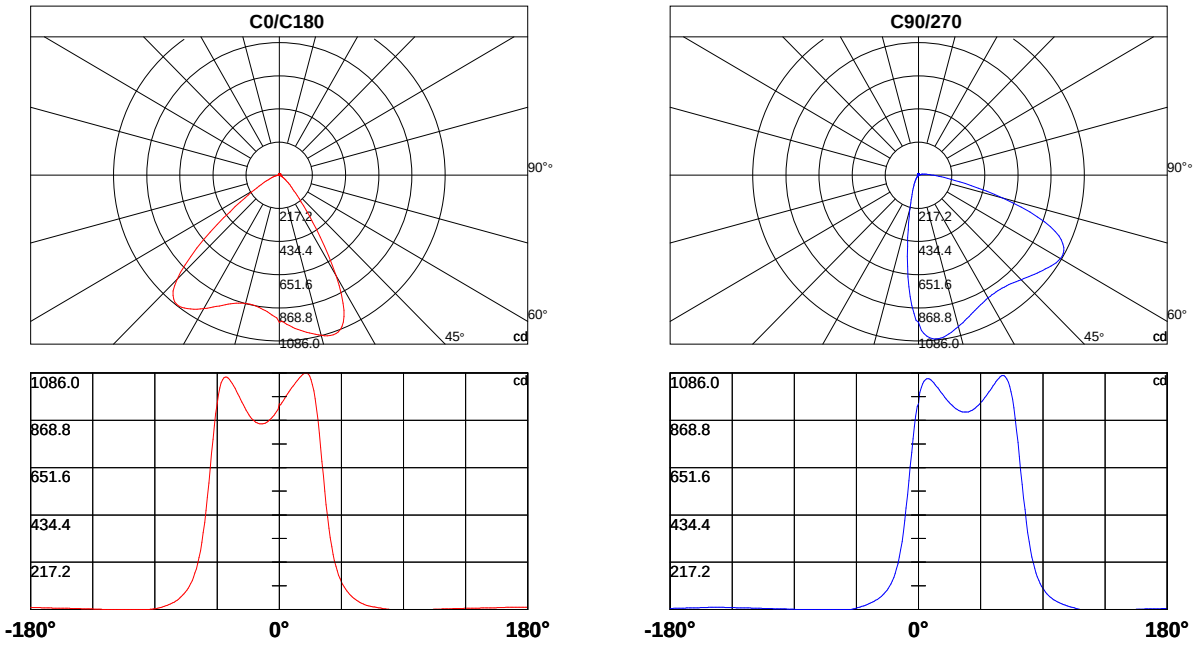
Voltage: 221.4 V
Current: 0.181 A
Power: 23.6 W
Power Factor: 0.59
Ballast Type:
Width: 200mm
Height: mm
Remark:

Photometric Results

Lumens: 2279.32 lm
Efficiency: 91.539 lm/W
Central Intensity: 945.687cd
Maximum Intensity: 1085.968cd

Beam Angle(10%): Left: -83.9 Right:27.5

Angle of maximum intensity: C:0.0 G:19.0
Half Peak Side Angle(50%): Left: -70.6 Right:14.0
Light Out Rate(LOR) : 100.00%
Up Flux Rate: 1.79%
Down Flux Rate: 98.21%



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	945.7	938.9	949.3	959.6	969.8	980.1	990.2	999.4	1008.8	1017.4
45.0	945.7	996.7	1019.8	1036.9	1048.4	1055.6	1059.5	1060.0	1057.7	1053.5
90.0	945.7	996.7	1019.8	1036.9	1048.4	1055.6	1059.5	1060.0	1057.7	1053.5
135.0	945.7	918.5	909.0	899.7	891.2	883.2	876.0	869.9	864.5	860.1
180.0	945.7	918.5	909.0	899.7	891.2	883.2	876.0	869.9	864.5	860.1
225.0	945.7	931.8	888.2	839.1	783.7	721.3	657.9	590.3	527.3	465.1
270.0	945.7	931.8	888.2	839.1	783.7	721.3	657.9	590.3	527.3	465.1
315.0	945.7	938.9	949.3	959.6	969.8	980.1	990.2	999.4	1008.8	1017.4
360.0	945.7	938.9	949.3	959.6	969.8	980.1	990.2	999.4	1008.8	1017.4

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1025.7	1034.1	1042.3	1050.2	1058.2	1066.3	1073.3	1079.4	1083.8	1086.0
45.0	1047.5	1040.3	1032.8	1024.6	1016.5	1008.1	999.4	991.2	982.8	974.9
90.0	1047.5	1040.3	1032.8	1024.6	1016.5	1008.1	999.4	991.2	982.8	974.9
135.0	856.3	853.9	852.4	851.7	852.3	854.1	856.7	860.4	865.1	870.8
180.0	856.3	853.9	852.4	851.7	852.3	854.1	856.7	860.4	865.1	870.8
225.0	408.0	357.7	312.1	273.6	240.5	210.6	186.4	164.7	146.9	130.9
270.0	408.0	357.7	312.1	273.6	240.5	210.6	186.4	164.7	146.9	130.9
315.0	1025.7	1034.1	1042.3	1050.2	1058.2	1066.3	1073.3	1079.4	1083.8	1086.0
360.0	1025.7	1034.1	1042.3	1050.2	1058.2	1066.3	1073.3	1079.4	1083.8	1086.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1085.1	1080.4	1071.0	1055.8	1034.0	1003.9	967.2	922.7	868.4	810.1
45.0	967.0	959.2	952.2	945.3	938.8	933.0	927.1	922.2	917.9	914.3
90.0	967.0	959.2	952.2	945.3	938.8	933.0	927.1	922.2	917.9	914.3
135.0	877.7	885.6	894.3	904.4	915.5	927.4	939.1	952.1	964.2	977.7
180.0	877.7	885.6	894.3	904.4	915.5	927.4	939.1	952.1	964.2	977.7
225.0	117.3	105.8	95.4	86.5	78.8	71.7	65.2	59.6	54.7	50.1
270.0	117.3	105.8	95.4	86.5	78.8	71.7	65.2	59.6	54.7	50.1
315.0	1085.1	1080.4	1071.0	1055.8	1034.0	1003.9	967.2	922.7	868.4	810.1
360.0	1085.1	1080.4	1071.0	1055.8	1034.0	1003.9	967.2	922.7	868.4	810.1

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	743.9	678.4	611.7	544.4	481.5	423.4	372.9	328.5	288.1	253.0
45.0	911.0	908.7	907.3	906.4	906.3	906.7	907.8	909.8	912.4	915.7
90.0	911.0	908.7	907.3	906.4	906.3	906.7	907.8	909.8	912.4	915.7
135.0	990.8	1003.3	1015.8	1027.4	1038.3	1048.3	1056.7	1063.4	1067.1	1067.8
180.0	990.8	1003.3	1015.8	1027.4	1038.3	1048.3	1056.7	1063.4	1067.1	1067.8
225.0	45.7	42.0	38.4	35.1	32.0	28.9	26.1	23.3	20.8	18.3
270.0	45.7	42.0	38.4	35.1	32.0	28.9	26.1	23.3	20.8	18.3
315.0	743.9	678.4	611.7	544.4	481.5	423.4	372.9	328.5	288.1	253.0
360.0	743.9	678.4	611.7	544.4	481.5	423.4	372.9	328.5	288.1	253.0

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	224.0	199.0	177.4	157.9	141.2	126.6	114.5	103.5	93.4	84.7
45.0	919.9	924.4	930.4	936.3	942.8	949.9	957.3	964.9	973.3	981.9
90.0	919.9	924.4	930.4	936.3	942.8	949.9	957.3	964.9	973.3	981.9
135.0	1064.0	1055.2	1040.6	1018.0	987.0	946.9	900.4	843.4	781.9	716.2
180.0	1064.0	1055.2	1040.6	1018.0	987.0	946.9	900.4	843.4	781.9	716.2
225.0	16.2	14.2	12.1	10.1	8.1	6.2	4.3	2.7	1.2	0.3
270.0	16.2	14.2	12.1	10.1	8.1	6.2	4.3	2.7	1.2	0.3
315.0	224.0	199.0	177.4	157.9	141.2	126.6	114.5	103.5	93.4	84.7
360.0	224.0	199.0	177.4	157.9	141.2	126.6	114.5	103.5	93.4	84.7

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	76.7	69.7	63.2	57.3	52.0	47.1	42.5	38.2	34.3	30.8
45.0	990.8	999.4	1008.6	1018.0	1027.1	1036.4	1045.9	1054.3	1062.3	1068.8
90.0	990.8	999.4	1008.6	1018.0	1027.1	1036.4	1045.9	1054.3	1062.3	1068.8
135.0	646.9	580.9	514.6	455.2	399.8	351.9	307.9	270.0	238.9	211.6
180.0	646.9	580.9	514.6	455.2	399.8	351.9	307.9	270.0	238.9	211.6
225.0	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
315.0	76.7	69.7	63.2	57.3	52.0	47.1	42.5	38.2	34.3	30.8
360.0	76.7	69.7	63.2	57.3	52.0	47.1	42.5	38.2	34.3	30.8

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	27.5	24.6	21.9	19.6	17.8	16.0	14.7	13.4	12.3	11.2
45.0	1072.9	1074.6	1073.1	1067.8	1058.6	1044.0	1024.0	998.9	966.3	925.6
90.0	1072.9	1074.6	1073.1	1067.8	1058.6	1044.0	1024.0	998.9	966.3	925.6
135.0	187.2	166.7	148.6	132.8	119.3	107.2	96.9	87.5	79.3	72.0
180.0	187.2	166.7	148.6	132.8	119.3	107.2	96.9	87.5	79.3	72.0
225.0	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
315.0	27.5	24.6	21.9	19.6	17.8	16.0	14.7	13.4	12.3	11.2
360.0	27.5	24.6	21.9	19.6	17.8	16.0	14.7	13.4	12.3	11.2

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	10.1	9.1	7.9	6.6	5.5	4.4	3.4	2.5	1.6	0.8
45.0	877.4	824.7	766.7	702.4	638.3	572.7	512.3	458.7	401.0	352.4
90.0	877.4	824.7	766.7	702.4	638.3	572.7	512.3	458.7	401.0	352.4
135.0	65.1	59.0	53.1	47.8	42.8	38.4	34.4	30.5	27.2	24.1
180.0	65.1	59.0	53.1	47.8	42.8	38.4	34.4	30.5	27.2	24.1
225.0	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
315.0	10.1	9.1	7.9	6.6	5.5	4.4	3.4	2.5	1.6	0.8
360.0	10.1	9.1	7.9	6.6	5.5	4.4	3.4	2.5	1.6	0.8

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	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	309.7	273.4	241.4	213.0	189.1	167.6	149.5	133.3	119.2	107.4
90.0	309.7	273.4	241.4	213.0	189.1	167.6	149.5	133.3	119.2	107.4
135.0	21.5	19.2	17.0	14.9	12.8	10.8	9.0	7.2	5.7	4.5
180.0	21.5	19.2	17.0	14.9	12.8	10.8	9.0	7.2	5.7	4.5
225.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.5	0.6
270.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.5	0.6
315.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\G	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	0.1
45.0	96.4	87.2	78.7	71.4	64.9	58.8	53.6	48.7	44.3	40.6
90.0	96.4	87.2	78.7	71.4	64.9	58.8	53.6	48.7	44.3	40.6
135.0	3.4	2.5	1.6	0.8	0.3	0.1	0.0	0.0	0.0	0.0
180.0	3.4	2.5	1.6	0.8	0.3	0.1	0.0	0.0	0.0	0.0
225.0	0.8	1.0	1.2	1.4	1.6	1.9	2.0	2.3	2.5	2.6
270.0	0.8	1.0	1.2	1.4	1.6	1.9	2.0	2.3	2.5	2.6
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

C\G	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0
0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4
45.0	37.0	33.8	30.6	27.7	25.1	22.3	19.8	17.5	15.5	13.5
90.0	37.0	33.8	30.6	27.7	25.1	22.3	19.8	17.5	15.5	13.5
135.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
225.0	2.9	3.0	3.2	3.4	3.5	3.7	3.9	4.0	4.2	4.4
270.0	2.9	3.0	3.2	3.4	3.5	3.7	3.9	4.0	4.2	4.4
315.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4
360.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4

C\G	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0
0.0	0.5	0.6	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3
45.0	11.7	10.0	8.3	6.6	5.0	3.3	1.9	0.7	0.1	0.0
90.0	11.7	10.0	8.3	6.6	5.0	3.3	1.9	0.7	0.1	0.0
135.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
180.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
225.0	4.5	4.7	4.9	5.0	5.2	5.3	5.5	5.6	5.8	6.0
270.0	4.5	4.7	4.9	5.0	5.2	5.3	5.5	5.6	5.8	6.0
315.0	0.5	0.6	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3
360.0	0.5	0.6	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3

Photometric Data Table [cd]

C\G	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0
0.0	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
45.0	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
135.0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.8
180.0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.8
225.0	6.1	6.2	6.3	6.4	6.6	6.7	6.9	7.0	7.2	7.3
270.0	6.1	6.2	6.3	6.4	6.6	6.7	6.9	7.0	7.2	7.3
315.0	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
360.0	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4

C\G	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0
0.0	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.7
45.0	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
135.0	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.9
180.0	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.9
225.0	7.5	7.7	7.8	8.1	8.2	8.4	8.6	8.9	9.1	9.2
270.0	7.5	7.7	7.8	8.1	8.2	8.4	8.6	8.9	9.1	9.2
315.0	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.7
360.0	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.7

C\G	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6
45.0	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
135.0	3.1	3.3	3.5	3.6	3.8	4.0	4.1	4.3	4.5	4.6
180.0	3.1	3.3	3.5	3.6	3.8	4.0	4.1	4.3	4.5	4.6
225.0	9.3	9.3	9.5	9.6	9.6	9.7	9.7	9.7	9.7	9.6
270.0	9.3	9.3	9.5	9.6	9.6	9.7	9.7	9.7	9.7	9.6
315.0	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6
360.0	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6

C\G	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0
0.0	6.8	6.9	7.1	7.2	7.4	7.6	7.8	8.0	8.2	8.5
45.0	0.0	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.8	1.0
90.0	0.0	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.8	1.0
135.0	4.8	5.0	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.7
180.0	4.8	5.0	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.7
225.0	9.6	9.5	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0
270.0	9.6	9.5	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0
315.0	6.8	6.9	7.1	7.2	7.4	7.6	7.8	8.0	8.2	8.5
360.0	6.8	6.9	7.1	7.2	7.4	7.6	7.8	8.0	8.2	8.5

Photometric Data Table [cd]

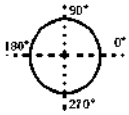
C\G	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	8.7	8.9	9.1	9.2	9.4	9.6	9.8	9.9	10.0	10.1
45.0	1.1	1.3	1.6	1.8	1.9	2.2	2.3	2.5	2.7	2.9
90.0	1.1	1.3	1.6	1.8	1.9	2.2	2.3	2.5	2.7	2.9
135.0	5.9	5.7	5.8	6.0	6.2	6.4	6.5	6.8	7.0	7.2
180.0	5.9	5.7	5.8	6.0	6.2	6.4	6.5	6.8	7.0	7.2
225.0	7.8	7.6	7.4	7.2	7.0	6.8	6.6	6.5	6.3	6.2
270.0	7.8	7.6	7.4	7.2	7.0	6.8	6.6	6.5	6.3	6.2
315.0	8.7	8.9	9.1	9.2	9.4	9.6	9.8	9.9	10.0	10.1
360.0	8.7	8.9	9.1	9.2	9.4	9.6	9.8	9.9	10.0	10.1

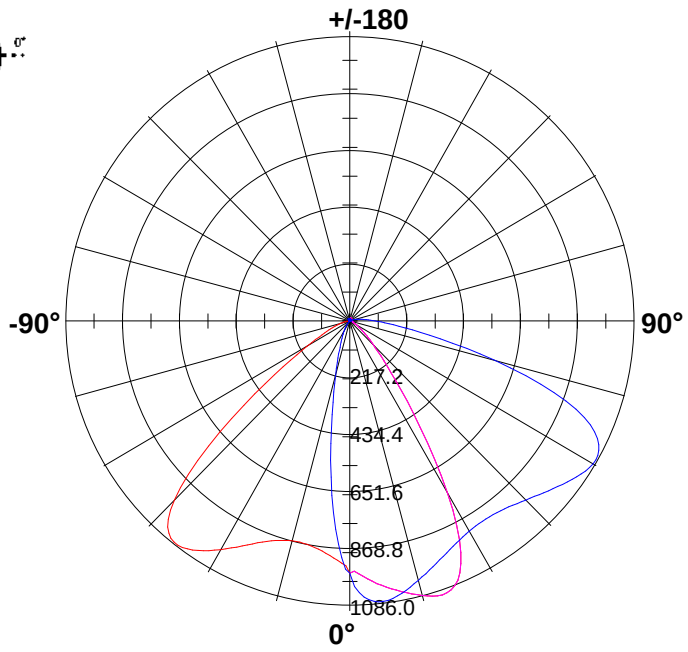
C\G	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	10.2	10.2	10.2	10.2	10.1	10.1	10.0	10.0	9.8	9.7
45.0	3.0	3.2	3.3	3.4	3.6	3.7	3.8	4.0	4.3	4.3
90.0	3.0	3.2	3.3	3.4	3.6	3.7	3.8	4.0	4.3	4.3
135.0	7.4	7.7	8.0	8.1	8.4	8.6	8.8	8.9	9.1	9.3
180.0	7.4	7.7	8.0	8.1	8.4	8.6	8.8	8.9	9.1	9.3
225.0	6.1	6.0	5.8	5.7	5.5	5.3	5.2	5.2	4.8	4.8
270.0	6.1	6.0	5.8	5.7	5.5	5.3	5.2	5.2	4.8	4.8
315.0	10.2	10.2	10.2	10.2	10.1	10.1	10.0	10.0	9.8	9.7
360.0	10.2	10.2	10.2	10.2	10.1	10.1	10.0	10.0	9.8	9.7

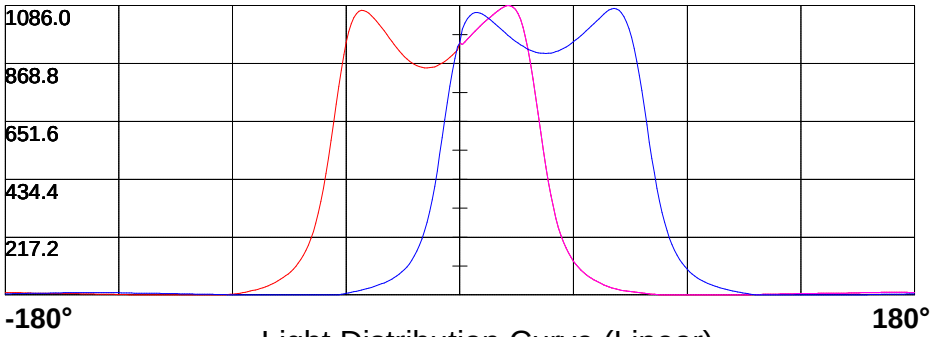
C\G	180.0
0.0	9.5
45.0	4.5
90.0	4.5
135.0	9.5
180.0	9.5
225.0	4.6
270.0	4.6
315.0	9.5
360.0	9.5

Light Distribution Curve [Unit: cd]

Luminaire



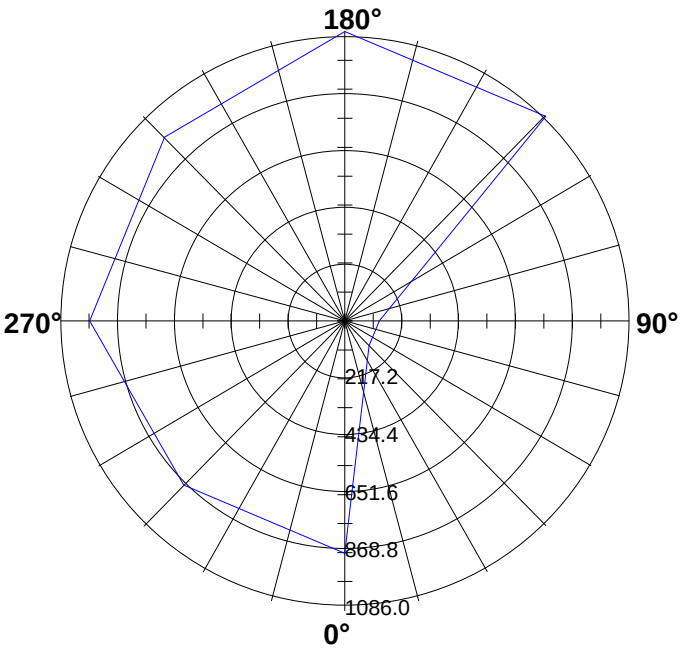


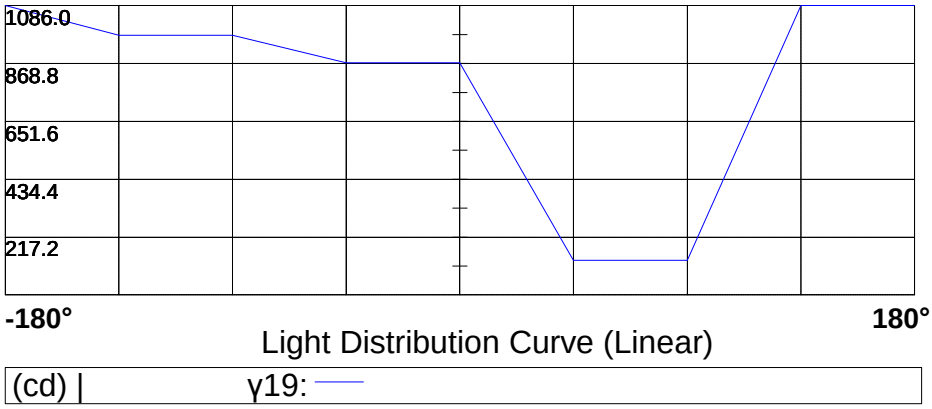


Light Distribution Curve (Linear)

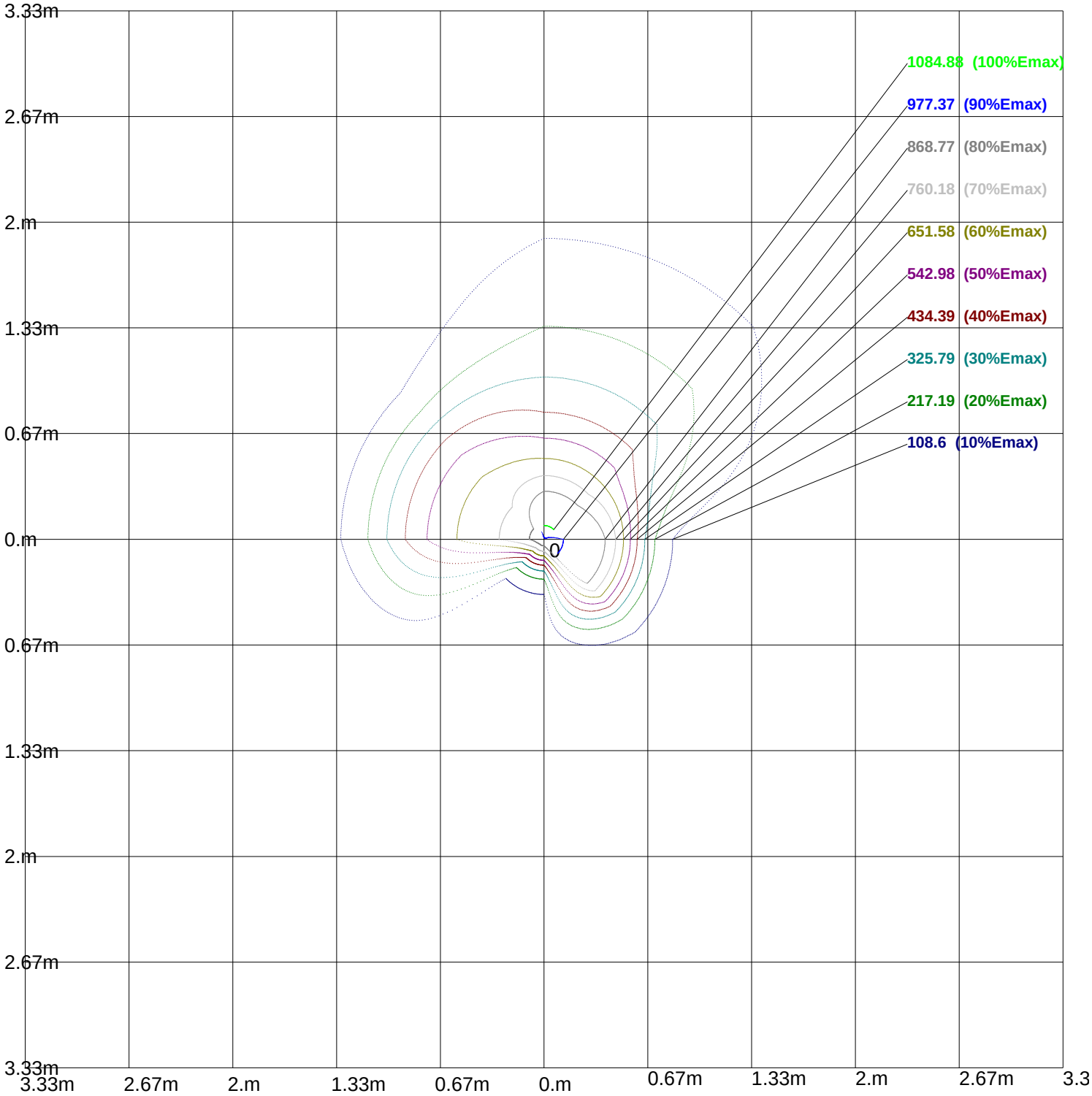
(cd) | C0/C180: C90/C270: C0:

Max Plane Light Distribution Curve [Unit: cd]





Iso-Lux[lx]



Height: 1 m
Max Illuminance : 1085.97lx

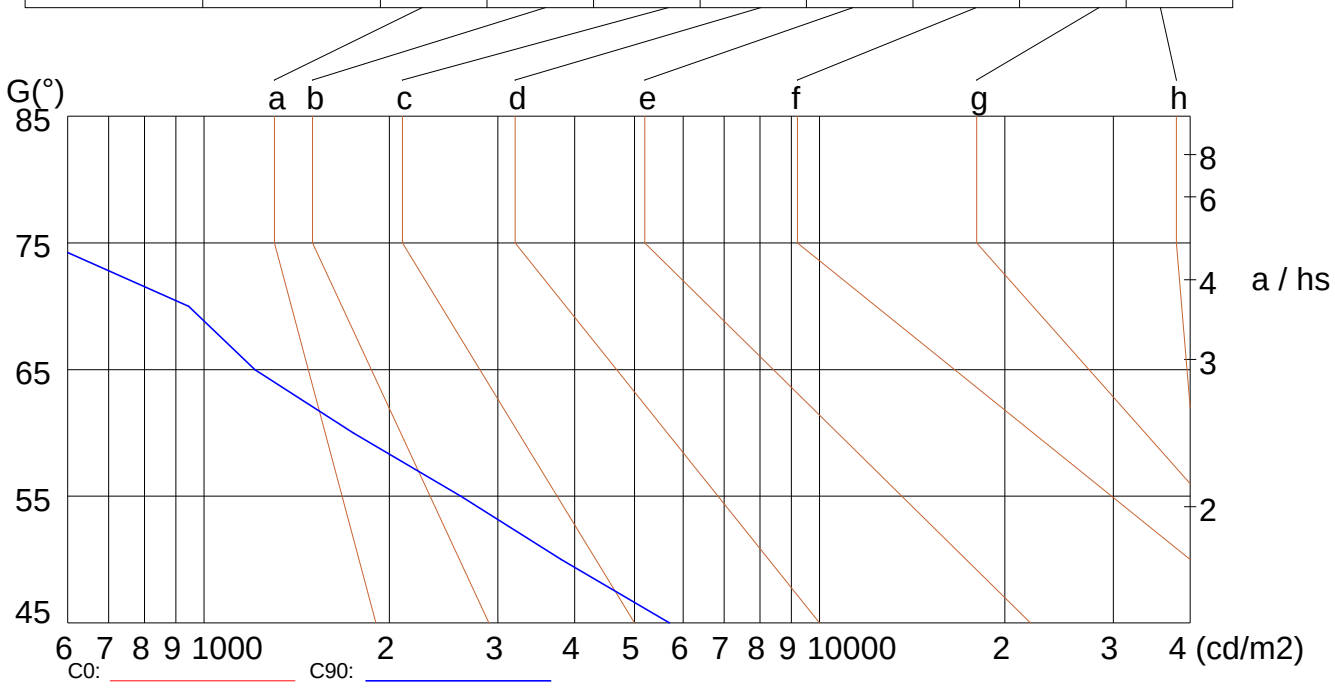
Luminance Limitting Curve

Diameter: 200mm
Length: mm
Width: 200mm
Height: mm

(cd/m2)

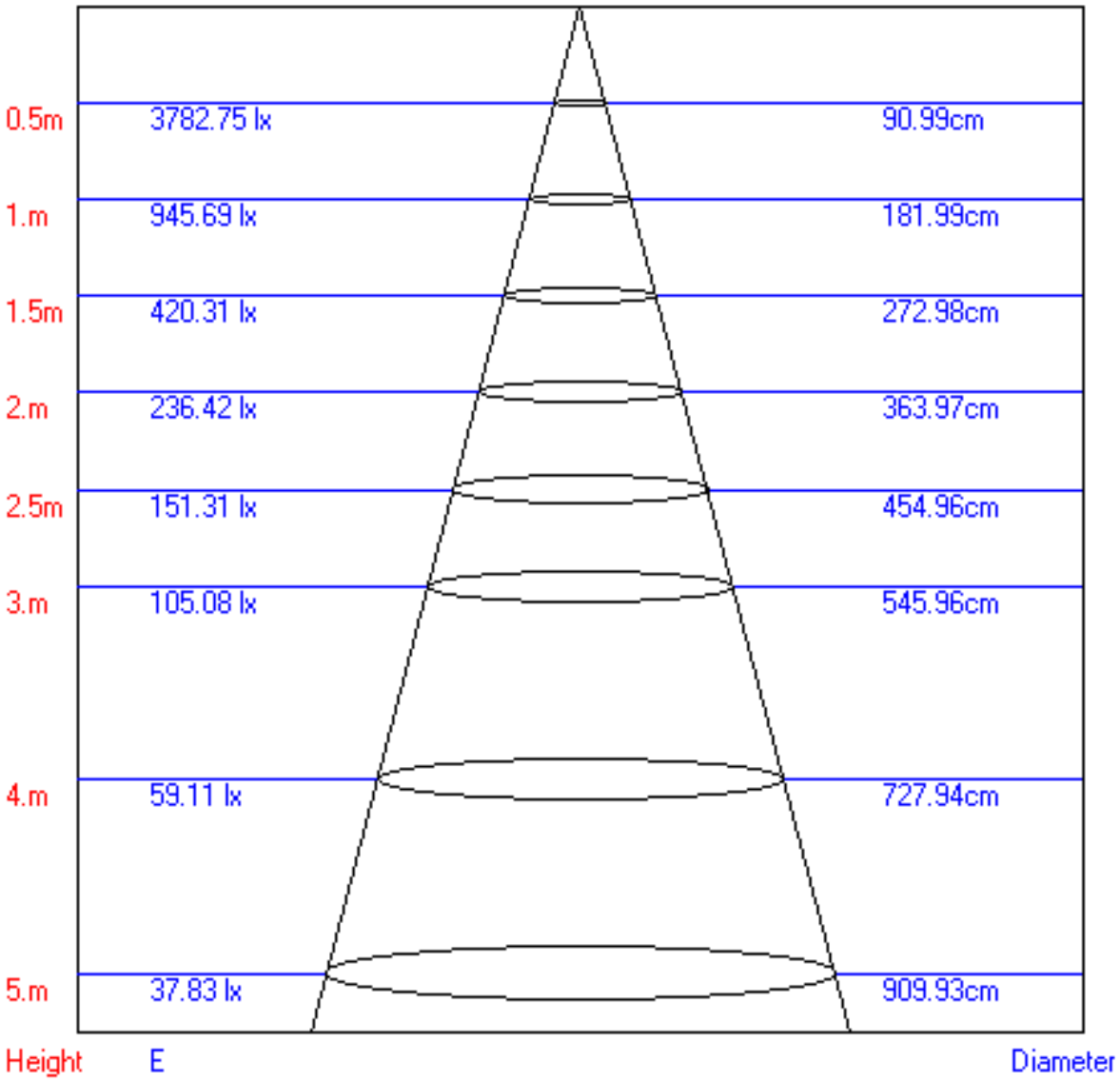
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	42782	49091	57545	68341	78674	81701	70473	56800	
C90	5702	3801	2613	1749	1209	943	540	57	

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. Limitting Curve (C0/C90)

Lux-Distance Curve

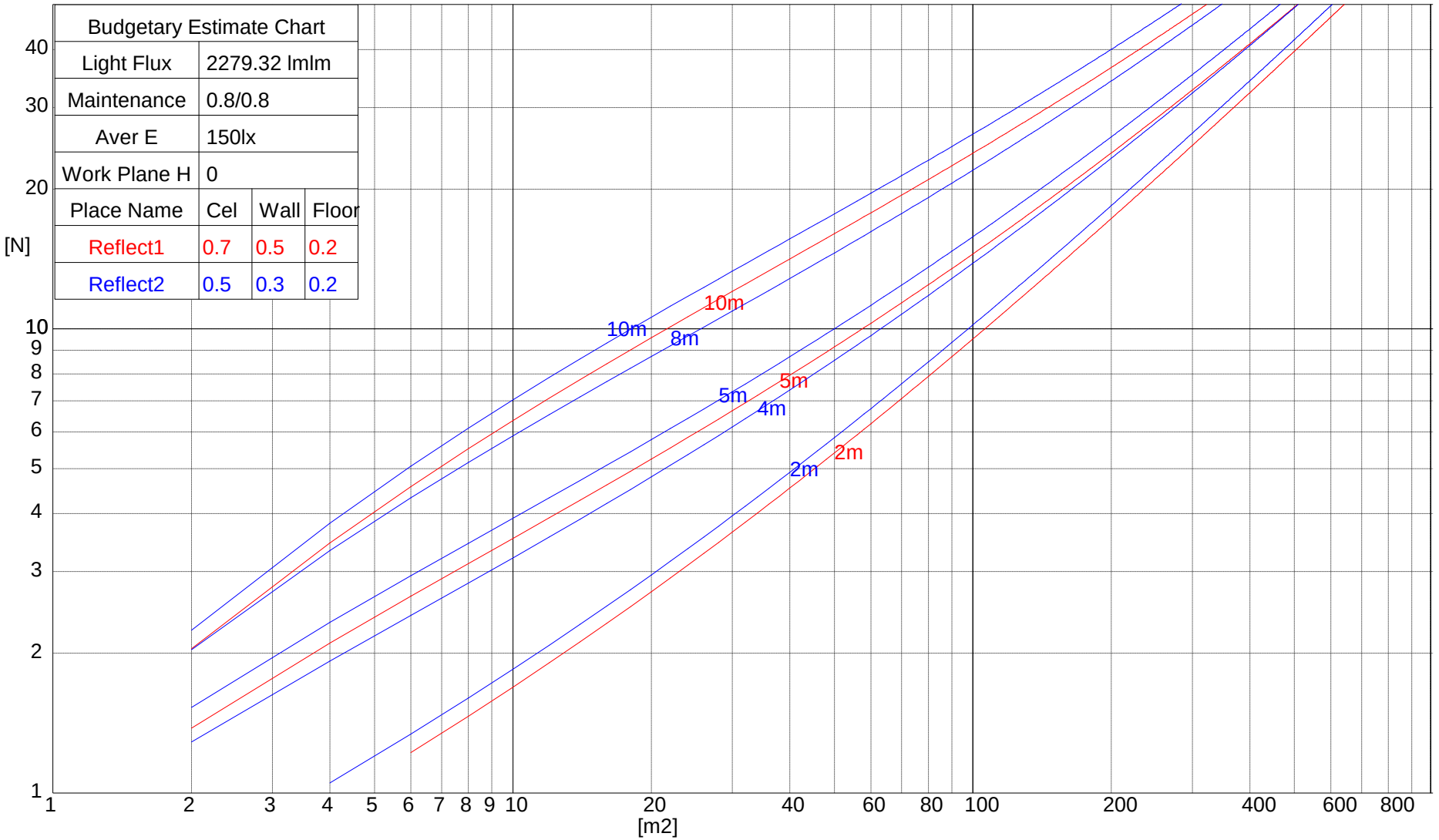


Beam Angle:84.60°

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	COEFFCIENTS 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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.83	0.78
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.82	0.79	0.75	0.78	0.74	0.70	0.65
3	0.76	0.73	0.71	0.76	0.73	0.70	0.75	0.71	0.67	0.73	0.68	0.64	0.70	0.64	0.60	0.55
4	0.66	0.63	0.61	0.66	0.63	0.60	0.66	0.61	0.58	0.65	0.59	0.55	0.63	0.57	0.52	0.48
5	0.58	0.55	0.54	0.59	0.55	0.53	0.59	0.54	0.50	0.58	0.53	0.48	0.57	0.51	0.45	0.42
6	0.52	0.49	0.47	0.52	0.49	0.46	0.53	0.48	0.45	0.53	0.47	0.43	0.52	0.46	0.40	0.37
7	0.46	0.44	0.42	0.47	0.44	0.41	0.48	0.43	0.40	0.48	0.42	0.38	0.48	0.41	0.36	0.33
8	0.42	0.40	0.38	0.43	0.39	0.37	0.44	0.39	0.36	0.44	0.39	0.34	0.44	0.38	0.33	0.30
9	0.38	0.36	0.35	0.39	0.36	0.34	0.40	0.36	0.33	0.41	0.35	0.31	0.41	0.35	0.30	0.27
10	0.35	0.33	0.32	0.36	0.33	0.31	0.37	0.33	0.30	0.38	0.33	0.29	0.39	0.32	0.27	0.25

Budgetary Estimate Chart			
Light Flux	2279.32 lmlm		
Maintenance	0.8/0.8		
Aver E	150lx		
Work Plane H	0		
Place Name	Cel	Wall	Floor
Reflect1	0.7	0.5	0.2
Reflect2	0.5	0.3	0.2



Equipment:LINKCOLOR LCG-GONIO
Temperature:25 Deg
Date:2015-11-14
Humidity:60%
Operator: