

Luminaire Property

Luminaire: VMC32200AL

Report NO.: 20150716012

Test NO.:

Lamp: 2835

Sum Lumens: 659.38 lm

Number of Lamps: 1

Diameter: 460mm

Length: 0mm

Photometric Type: Type C

Voltage: 121.2 V

Current: 0.202 A

Power: 23.3 W

Power Factor: 0.950

Ballast Type:

Width: 460mm

Height: 580mm

Remark:

Photometric Results

Lumens: 659.38 lm

Efficiency: 28.2996 lm/W

Central Intensity: 302.222cd

Maximum Intensity: 305.241cd

Beam Angle(10%): Left: -51.3 Right:55.1

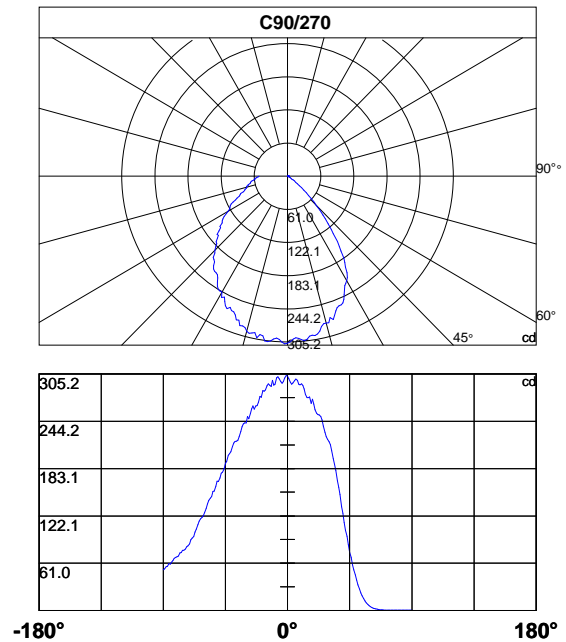
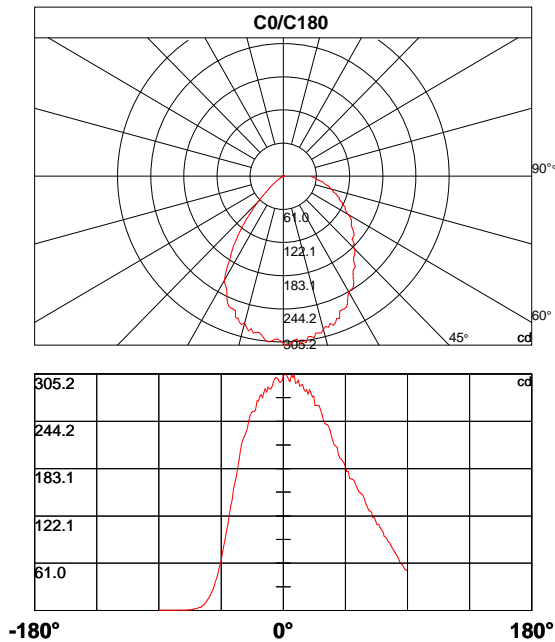
Angle of maximum intensity: C:0.0 G:1.0

Half Peak Side Angle(50%): Left: -37.2 Right:54.2

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%



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	302.2	305.2	305.0	301.6	297.4	295.6	304.6	300.6	303.6	293.1
45.0	302.2	299.2	294.6	292.2	293.7	296.7	298.7	297.1	292.2	291.1
90.0	302.2	299.2	294.6	292.2	293.7	296.7	298.7	297.1	292.2	291.1
135.0	302.2	297.1	294.4	295.6	298.8	300.9	299.6	294.9	289.3	286.0
180.0	302.2	297.1	294.4	295.6	298.8	300.9	299.6	294.9	289.3	286.0
225.0	302.2	303.1	299.9	295.6	293.5	295.5	299.1	301.6	300.5	292.2
270.0	302.2	303.1	299.9	295.6	293.5	295.5	299.1	301.6	300.5	292.2
315.0	302.2	305.2	305.0	301.6	297.4	295.6	304.6	300.6	303.6	293.1
360.0	302.2	305.2	305.0	301.6	297.4	295.6	304.6	300.6	303.6	293.1

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	294.3	297.3	289.7	290.9	291.7	286.0	282.6	285.2	279.3	284.9
45.0	292.4	290.4	286.0	278.9	274.9	274.5	275.7	267.2	272.5	266.2
90.0	292.4	290.4	286.0	278.9	274.9	274.5	275.7	267.2	272.5	266.2
135.0	286.4	288.4	282.0	286.5	280.8	274.4	278.9	276.0	270.1	270.4
180.0	286.4	288.4	282.0	286.5	280.8	274.4	278.9	276.0	270.1	270.4
225.0	290.9	297.2	289.0	290.9	292.6	290.0	284.5	283.1	283.7	275.1
270.0	290.9	297.2	289.0	290.9	292.6	290.0	284.5	283.1	283.7	275.1
315.0	294.3	297.3	289.7	290.9	291.7	286.0	282.6	285.2	279.3	284.9
360.0	294.3	297.3	289.7	290.9	291.7	286.0	282.6	285.2	279.3	284.9

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	281.5	275.3	276.8	265.0	264.5	264.9	263.8	259.5	252.7	245.9
45.0	259.3	254.4	252.9	252.4	250.5	245.5	238.0	230.2	224.3	221.2
90.0	259.3	254.4	252.9	252.4	250.5	245.5	238.0	230.2	224.3	221.2
135.0	258.6	257.1	257.0	255.7	251.2	245.1	235.8	229.4	225.4	221.7
180.0	258.6	257.1	257.0	255.7	251.2	245.1	235.8	229.4	225.4	221.7
225.0	276.3	268.6	264.4	263.8	259.8	263.9	260.3	254.1	247.6	250.4
270.0	276.3	268.6	264.4	263.8	259.8	263.9	260.3	254.1	247.6	250.4
315.0	281.5	275.3	276.8	265.0	264.5	264.9	263.8	259.5	252.7	245.9
360.0	281.5	275.3	276.8	265.0	264.5	264.9	263.8	259.5	252.7	245.9

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	241.6	240.3	239.6	237.5	232.5	224.0	218.5	213.9	212.1	210.6
45.0	217.5	214.1	206.1	195.8	188.3	180.6	167.0	158.9	149.5	133.9
90.0	217.5	214.1	206.1	195.8	188.3	180.6	167.0	158.9	149.5	133.9
135.0	215.9	206.8	195.1	183.1	172.6	164.0	155.7	142.3	135.5	123.2
180.0	215.9	206.8	195.1	183.1	172.6	164.0	155.7	142.3	135.5	123.2
225.0	242.0	242.1	241.0	237.0	230.7	224.3	220.0	218.5	218.0	216.1
270.0	242.0	242.1	241.0	237.0	230.7	224.3	220.0	218.5	218.0	216.1
315.0	241.6	240.3	239.6	237.5	232.5	224.0	218.5	213.9	212.1	210.6
360.0	241.6	240.3	239.6	237.5	232.5	224.0	218.5	213.9	212.1	210.6

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	201.6	196.7	195.3	193.0	190.2	185.5	179.3	179.3	170.6	169.7
45.0	125.6	113.8	103.5	96.0	85.1	75.1	68.6	59.2	52.5	45.9
90.0	125.6	113.8	103.5	96.0	85.1	75.1	68.6	59.2	52.5	45.9
135.0	111.3	103.8	92.2	84.0	75.4	64.5	57.3	50.7	43.1	37.5
180.0	111.3	103.8	92.2	84.0	75.4	64.5	57.3	50.7	43.1	37.5
225.0	211.6	205.0	202.6	200.4	192.5	189.5	183.2	178.5	177.2	170.9
270.0	211.6	205.0	202.6	200.4	192.5	189.5	183.2	178.5	177.2	170.9
315.0	201.6	196.7	195.3	193.0	190.2	185.5	179.3	179.3	170.6	169.7
360.0	201.6	196.7	195.3	193.0	190.2	185.5	179.3	179.3	170.6	169.7

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	169.4	168.1	164.8	160.3	156.1	153.0	151.4	150.0	147.3	142.9
45.0	39.4	33.0	27.4	22.8	18.9	15.5	12.4	9.8	7.6	5.9
90.0	39.4	33.0	27.4	22.8	18.9	15.5	12.4	9.8	7.6	5.9
135.0	32.0	26.7	22.5	19.1	16.0	13.2	10.6	8.3	6.6	5.2
180.0	32.0	26.7	22.5	19.1	16.0	13.2	10.6	8.3	6.6	5.2
225.0	166.6	166.9	160.4	154.2	153.9	147.2	145.1	142.1	137.4	131.7
270.0	166.6	166.9	160.4	154.2	153.9	147.2	145.1	142.1	137.4	131.7
315.0	169.4	168.1	164.8	160.3	156.1	153.0	151.4	150.0	147.3	142.9
360.0	169.4	168.1	164.8	160.3	156.1	153.0	151.4	150.0	147.3	142.9

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	137.5	132.8	129.6	128.1	126.5	120.0	119.7	114.9	110.6	110.9
45.0	4.7	3.8	3.0	2.4	1.8	1.5	1.2	0.9	0.8	0.6
90.0	4.7	3.8	3.0	2.4	1.8	1.5	1.2	0.9	0.8	0.6
135.0	4.2	3.5	2.9	2.3	1.9	1.5	1.2	0.9	0.8	0.6
180.0	4.2	3.5	2.9	2.3	1.9	1.5	1.2	0.9	0.8	0.6
225.0	126.3	122.4	120.2	118.2	115.3	110.7	105.0	101.4	95.5	93.3
270.0	126.3	122.4	120.2	118.2	115.3	110.7	105.0	101.4	95.5	93.3
315.0	137.5	132.8	129.6	128.1	126.5	120.0	119.7	114.9	110.6	110.9
360.0	137.5	132.8	129.6	128.1	126.5	120.0	119.7	114.9	110.6	110.9

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	107.1	104.5	101.9	96.0	94.6	93.1	88.4	87.6	83.8	80.2
45.0	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
90.0	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
135.0	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
180.0	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
225.0	91.4	86.1	83.4	82.1	79.3	77.7	77.6	74.7	74.4	70.4
270.0	91.4	86.1	83.4	82.1	79.3	77.7	77.6	74.7	74.4	70.4
315.0	107.1	104.5	101.9	96.0	94.6	93.1	88.4	87.6	83.8	80.2
360.0	107.1	104.5	101.9	96.0	94.6	93.1	88.4	87.6	83.8	80.2

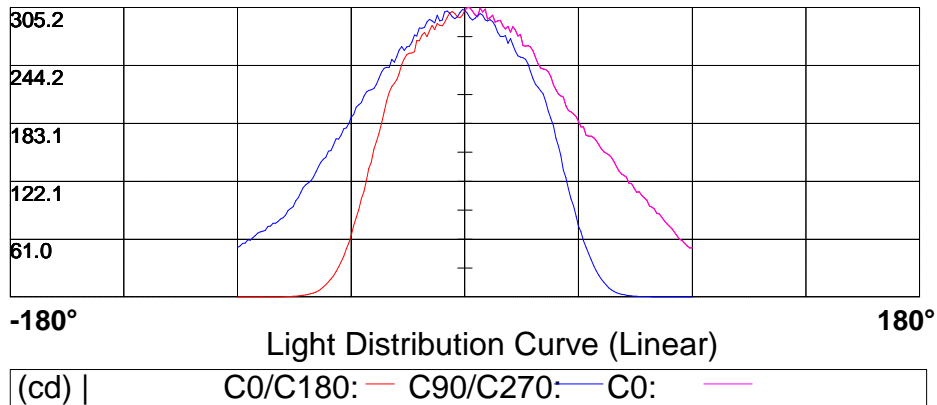
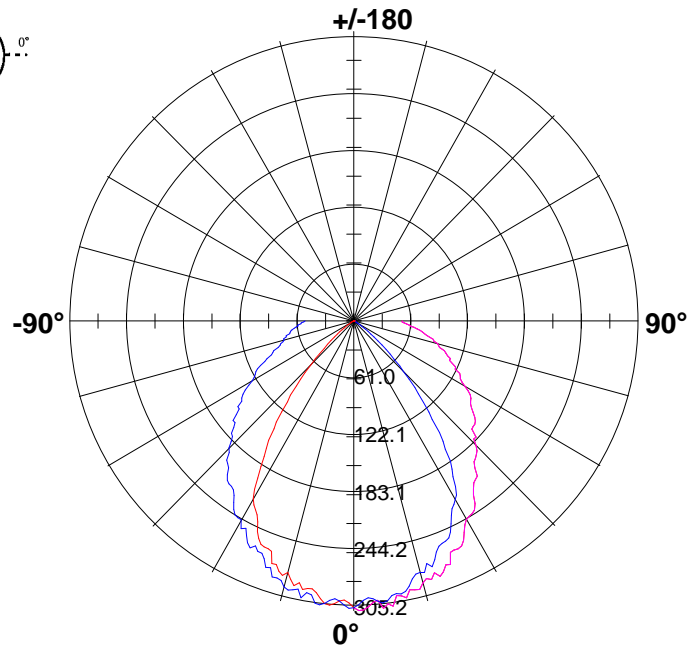
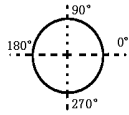
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	77.1	74.6	71.8	68.5	64.7	60.9	59.5	56.4	53.7	51.9
45.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
90.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
180.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
225.0	69.5	68.7	67.2	64.6	62.4	60.1	60.3	57.0	56.6	53.9
270.0	69.5	68.7	67.2	64.6	62.4	60.1	60.3	57.0	56.6	53.9
315.0	77.1	74.6	71.8	68.5	64.7	60.9	59.5	56.4	53.7	51.9
360.0	77.1	74.6	71.8	68.5	64.7	60.9	59.5	56.4	53.7	51.9

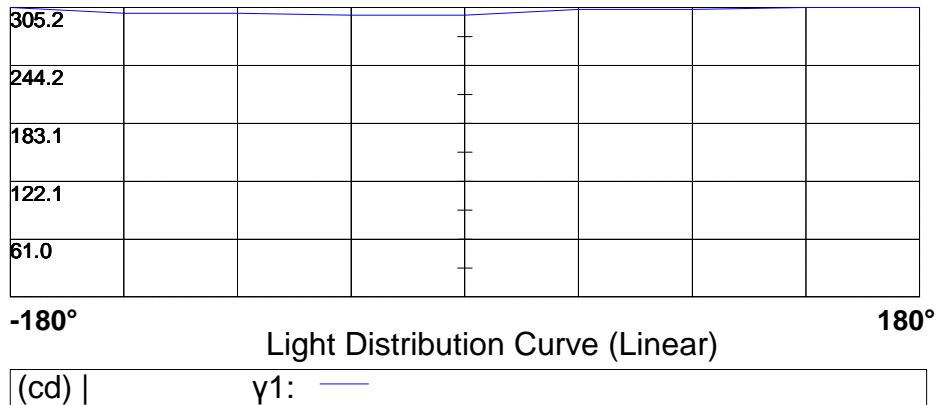
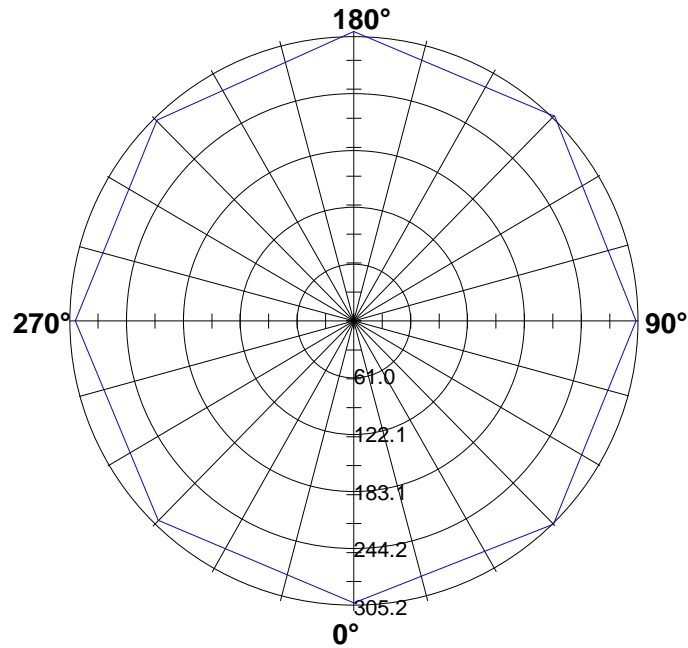
C\G	90.0
0.0	51.9
45.0	0.3
90.0	0.3
135.0	0.3
180.0	0.3
225.0	52.2
270.0	52.2
315.0	51.9
360.0	51.9

Light Distribution Curve [Unit: cd]

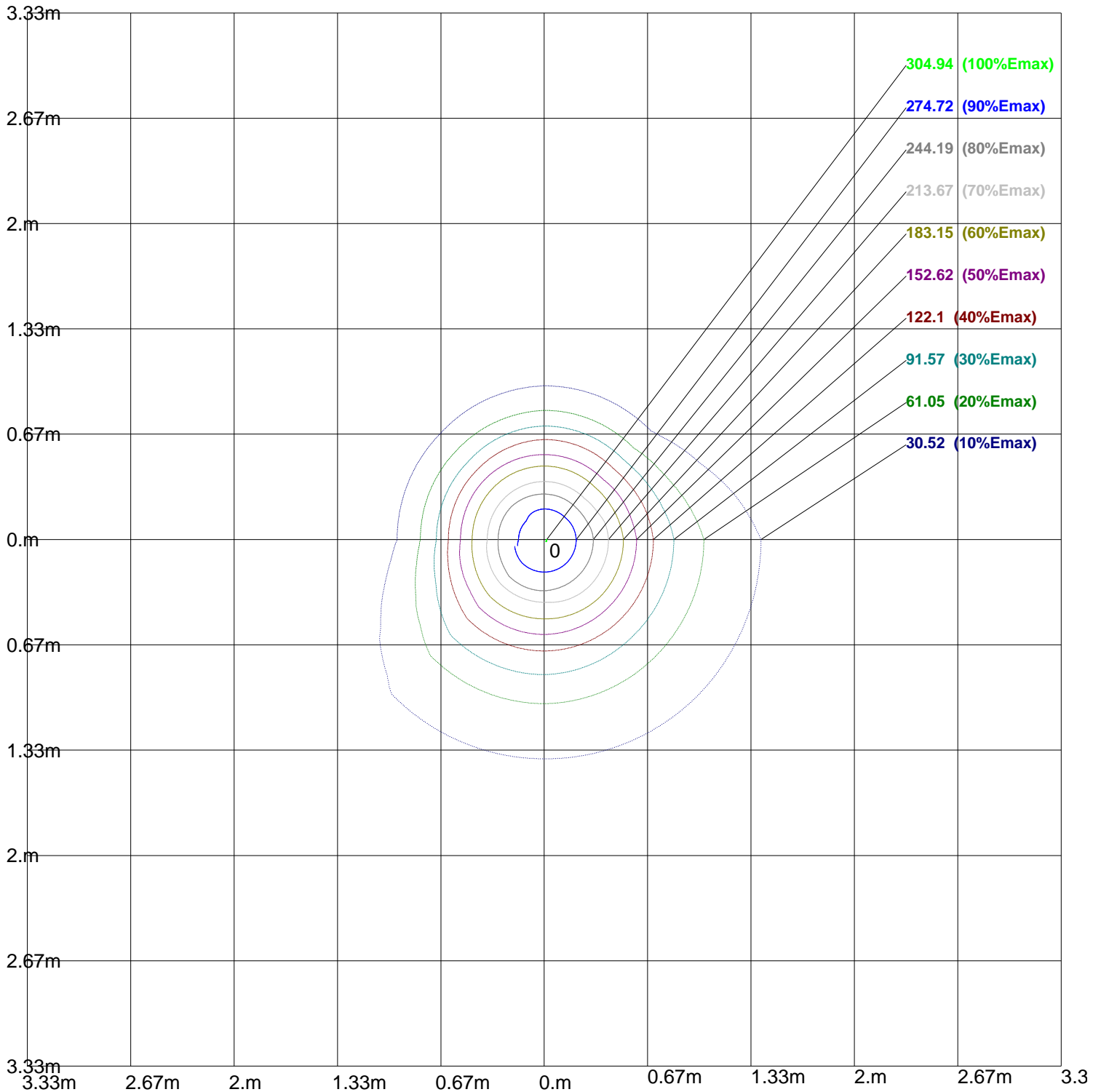
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 305.24lx

Luminance Limiting Curve

Diameter: 460mm

Length: 0mm

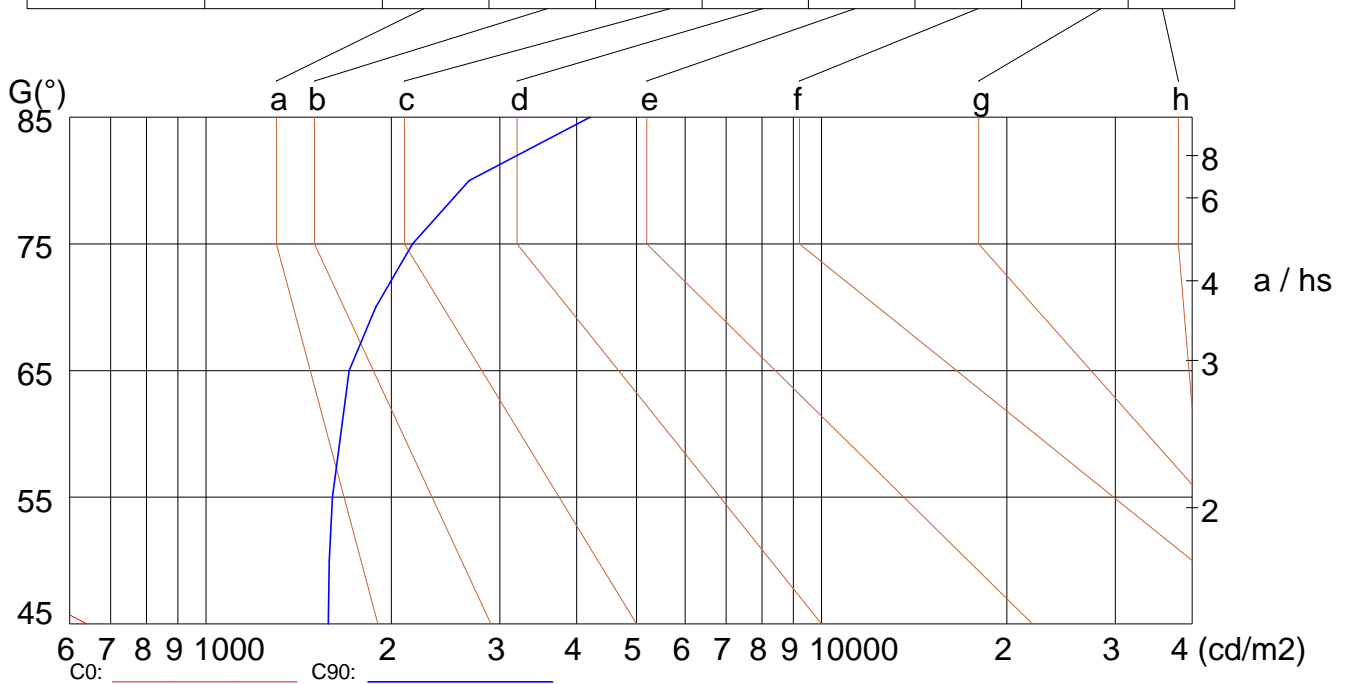
Width: 460mm

Height: 580mm

(cd/m²)

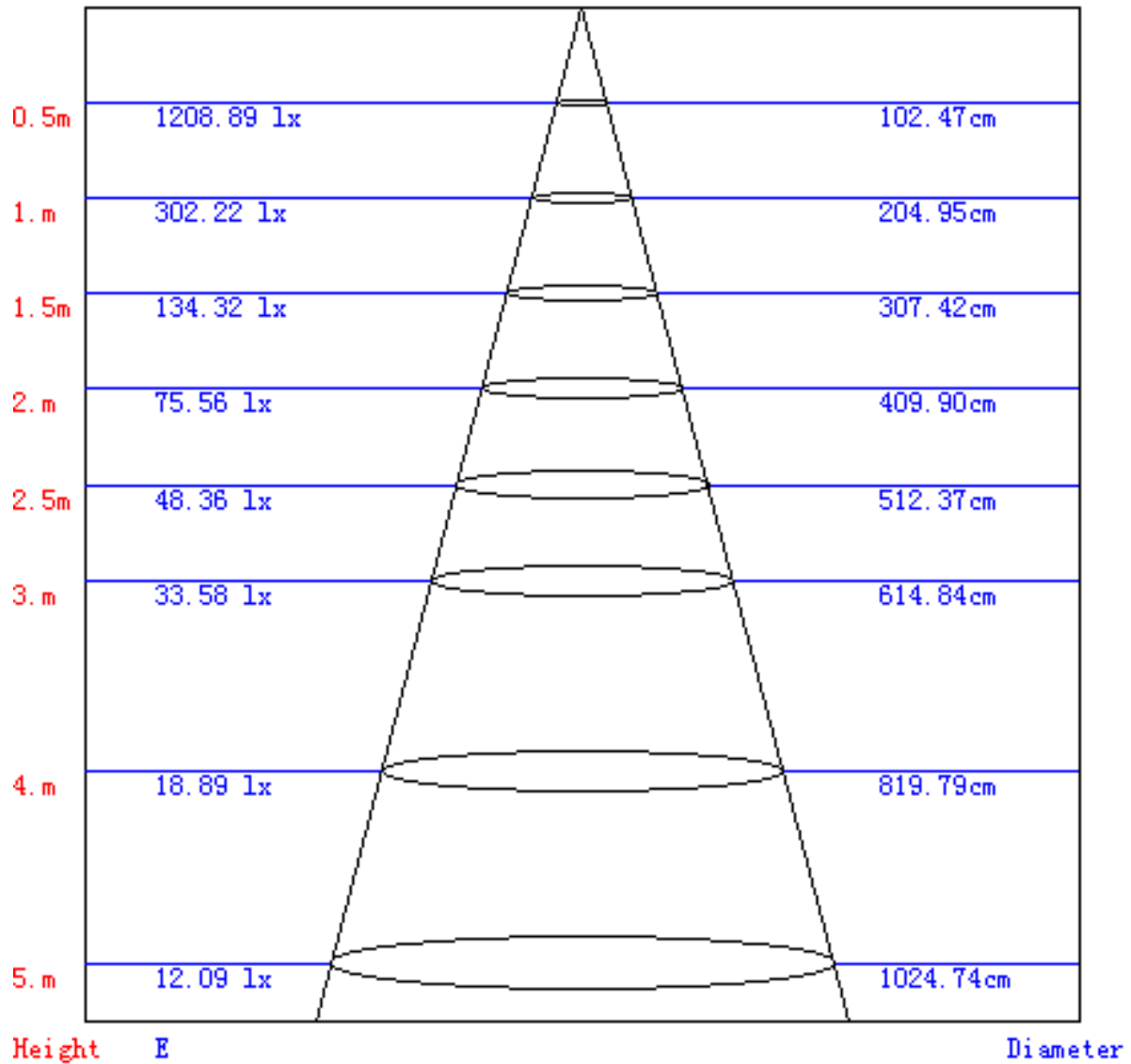
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	639	368	162	57	21	9	9	11	21
C90	1578	1586	1605	1655	1708	1885	2164	2673	4206

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:91.40°

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	1.03	1.01	1.00	1.02	1.00	0.98	0.98	0.96	0.94	0.94	0.91	0.89	0.87	0.85	0.83	0.77
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	0.77	0.74	0.72	0.77	0.74	0.71	0.76	0.71	0.68	0.74	0.69	0.65	0.70	0.65	0.61	0.56
4	0.68	0.65	0.63	0.68	0.65	0.62	0.68	0.63	0.59	0.66	0.61	0.57	0.64	0.58	0.53	0.49
5	0.60	0.58	0.56	0.61	0.57	0.55	0.61	0.56	0.52	0.60	0.54	0.50	0.58	0.52	0.47	0.43
6	0.54	0.51	0.50	0.55	0.51	0.49	0.55	0.50	0.47	0.55	0.49	0.45	0.54	0.47	0.42	0.39
7	0.49	0.46	0.45	0.49	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.50	0.43	0.38	0.35
8	0.44	0.42	0.40	0.45	0.42	0.40	0.46	0.41	0.38	0.46	0.41	0.36	0.46	0.40	0.35	0.31
9	0.41	0.38	0.37	0.41	0.38	0.36	0.42	0.38	0.35	0.43	0.37	0.33	0.43	0.36	0.32	0.29
10	0.37	0.35	0.34	0.38	0.35	0.33	0.39	0.35	0.32	0.40	0.34	0.30	0.40	0.34	0.29	0.26

