

Luminaire Property

Luminaire: VMCF41429AL

Report NO.: 20150724002

Test NO.:

Lamp: 2835

Sum Lumens: 1844.94 lm

Number of Lamps: 1

Diameter: 0mm

Length: 480mm

Photometric Type: Type C

Voltage: 120.6 V

Current: 0.408 A

Power: 47.4 W

Power Factor: 0.963

Ballast Type:

Width: 285mm

Height: 115mm

Remark:

Photometric Results

Lumens: 1844.94 lm

Efficiency: 38.9228 lm/W

Central Intensity: 756.466cd

Maximum Intensity: 771.843cd

Angle of maximum intensity: C:135.0 G:1.0

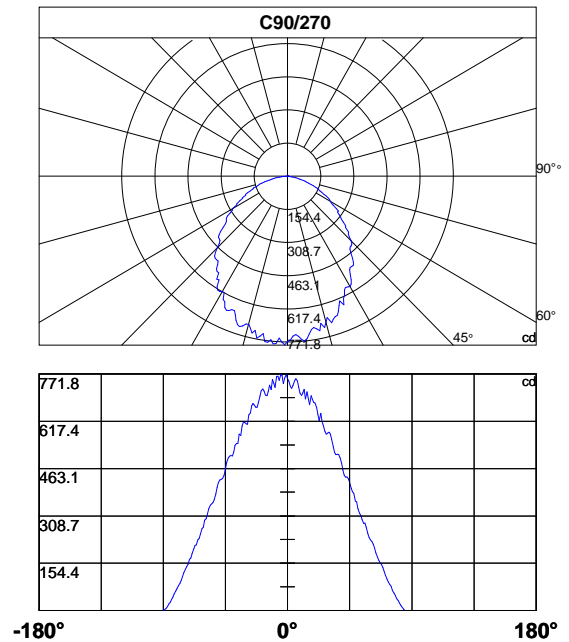
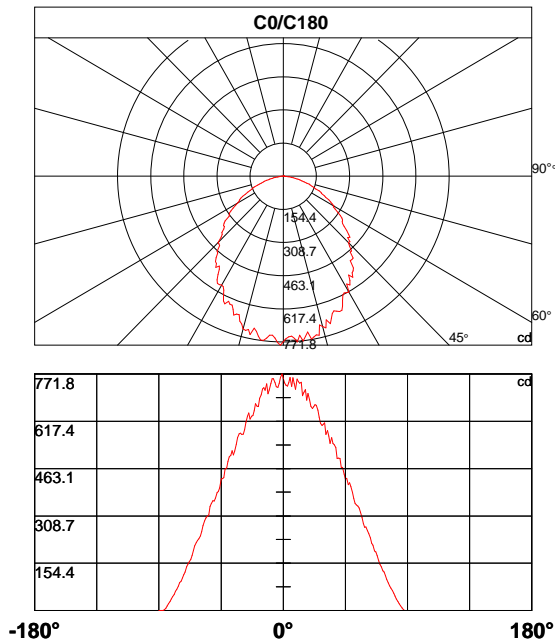
Half Peak Side Angle(50%): Left: -51.0 Right:46.7

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -78.4 Right:75.2



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	756.5	742.9	735.5	732.0	743.9	760.4	731.1	759.2	740.2	721.9
45.0	756.5	749.6	731.2	724.9	734.6	749.2	756.7	748.7	728.5	709.2
90.0	756.5	749.6	731.2	724.9	734.6	749.2	756.7	748.7	728.5	709.2
135.0	756.5	771.8	760.3	740.6	727.8	730.4	744.5	756.5	755.9	740.7
180.0	756.5	771.8	760.3	740.6	727.8	730.4	744.5	756.5	755.9	740.7
225.0	756.5	770.0	758.3	740.7	766.6	769.6	751.4	764.5	764.0	727.8
270.0	756.5	770.0	758.3	740.7	766.6	769.6	751.4	764.5	764.0	727.8
315.0	756.5	742.9	735.5	732.0	743.9	760.4	731.1	759.2	740.2	721.9
360.0	756.5	742.9	735.5	732.0	743.9	760.4	731.1	759.2	740.2	721.9

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	755.8	747.1	741.3	745.0	701.2	711.3	720.8	686.2	708.8	687.2
45.0	702.4	710.6	722.1	690.6	713.3	691.4	672.2	700.8	688.2	678.7
90.0	702.4	710.6	722.1	690.6	713.3	691.4	672.2	700.8	688.2	678.7
135.0	719.5	707.7	739.5	718.9	726.7	722.8	703.7	692.8	665.6	666.7
180.0	719.5	707.7	739.5	718.9	726.7	722.8	703.7	692.8	665.6	666.7
225.0	742.1	753.9	721.4	735.8	715.0	701.1	703.6	715.4	723.5	718.1
270.0	742.1	753.9	721.4	735.8	715.0	701.1	703.6	715.4	723.5	718.1
315.0	755.8	747.1	741.3	745.0	701.2	711.3	720.8	686.2	708.8	687.2
360.0	755.8	747.1	741.3	745.0	701.2	711.3	720.8	686.2	708.8	687.2

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	666.9	659.5	664.9	672.2	670.1	654.4	630.9	610.8	603.9	608.0
45.0	676.9	661.8	639.0	619.6	643.2	616.2	604.2	584.0	576.0	578.6
90.0	676.9	661.8	639.0	619.6	643.2	616.2	604.2	584.0	576.0	578.6
135.0	674.9	651.7	635.8	634.4	625.2	644.1	634.7	613.9	590.0	575.8
180.0	674.9	651.7	635.8	634.4	625.2	644.1	634.7	613.9	590.0	575.8
225.0	700.4	678.1	662.9	663.1	671.4	675.5	667.4	645.2	638.4	608.5
270.0	700.4	678.1	662.9	663.1	671.4	675.5	667.4	645.2	638.4	608.5
315.0	666.9	659.5	664.9	672.2	670.1	654.4	630.9	610.8	603.9	608.0
360.0	666.9	659.5	664.9	672.2	670.1	654.4	630.9	610.8	603.9	608.0

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	611.9	574.6	586.9	568.7	545.0	564.3	545.9	541.1	531.7	496.8
45.0	581.7	575.6	558.1	534.4	515.8	508.8	509.8	509.2	499.8	480.8
90.0	581.7	575.6	558.1	534.4	515.8	508.8	509.8	509.2	499.8	480.8
135.0	574.2	578.5	577.1	564.2	542.3	519.9	507.3	521.1	506.7	501.7
180.0	574.2	578.5	577.1	564.2	542.3	519.9	507.3	521.1	506.7	501.7
225.0	609.0	614.4	614.5	601.7	571.7	575.6	545.0	545.0	539.1	517.5
270.0	609.0	614.4	614.5	601.7	571.7	575.6	545.0	545.0	539.1	517.5
315.0	611.9	574.6	586.9	568.7	545.0	564.3	545.9	541.1	531.7	496.8
360.0	611.9	574.6	586.9	568.7	545.0	564.3	545.9	541.1	531.7	496.8

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	497.3	496.2	466.7	466.9	445.0	428.3	431.3	410.3	416.6	404.4
45.0	458.1	441.7	435.1	435.4	430.5	418.4	399.2	387.3	382.5	357.3
90.0	458.1	441.7	435.1	435.4	430.5	418.4	399.2	387.3	382.5	357.3
135.0	486.6	464.8	461.5	433.3	430.3	429.4	400.3	388.8	384.6	366.3
180.0	486.6	464.8	461.5	433.3	430.3	429.4	400.3	388.8	384.6	366.3
225.0	504.6	505.5	504.0	498.9	483.6	461.7	441.7	430.2	427.7	425.9
270.0	504.6	505.5	504.0	498.9	483.6	461.7	441.7	430.2	427.7	425.9
315.0	497.3	496.2	466.7	466.9	445.0	428.3	431.3	410.3	416.6	404.4
360.0	497.3	496.2	466.7	466.9	445.0	428.3	431.3	410.3	416.6	404.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	385.1	365.1	350.5	344.2	340.9	334.2	320.7	302.3	284.6	271.7
45.0	354.3	332.2	317.8	310.5	296.8	284.0	285.5	272.1	250.7	238.2
90.0	354.3	332.2	317.8	310.5	296.8	284.0	285.5	272.1	250.7	238.2
135.0	356.9	358.8	349.2	339.4	311.7	306.6	301.9	291.9	276.3	258.6
180.0	356.9	358.8	349.2	339.4	311.7	306.6	301.9	291.9	276.3	258.6
225.0	417.7	401.0	379.8	361.8	351.5	348.0	343.2	332.6	315.8	300.0
270.0	417.7	401.0	379.8	361.8	351.5	348.0	343.2	332.6	315.8	300.0
315.0	385.1	365.1	350.5	344.2	340.9	334.2	320.7	302.3	284.6	271.7
360.0	385.1	365.1	350.5	344.2	340.9	334.2	320.7	302.3	284.6	271.7

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	273.0	259.9	251.3	237.5	219.4	213.2	194.3	191.2	180.0	161.4
45.0	230.7	225.0	216.5	203.6	188.2	173.9	163.6	156.3	149.0	139.7
90.0	230.7	225.0	216.5	203.6	188.2	173.9	163.6	156.3	149.0	139.7
135.0	243.4	234.2	228.4	221.6	210.5	195.5	180.1	167.3	158.6	151.5
180.0	243.4	234.2	228.4	221.6	210.5	195.5	180.1	167.3	158.6	151.5
225.0	294.2	271.3	267.4	249.2	234.5	231.2	214.6	211.8	200.9	186.3
270.0	294.2	271.3	267.4	249.2	234.5	231.2	214.6	211.8	200.9	186.3
315.0	273.0	259.9	251.3	237.5	219.4	213.2	194.3	191.2	180.0	161.4
360.0	273.0	259.9	251.3	237.5	219.4	213.2	194.3	191.2	180.0	161.4

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	150.5	142.8	129.6	125.7	113.6	100.8	89.5	80.3	72.8	65.2
45.0	127.6	114.4	102.2	93.1	85.5	77.6	64.5	56.0	48.6	39.2
90.0	127.6	114.4	102.2	93.1	85.5	77.6	64.5	56.0	48.6	39.2
135.0	143.5	125.5	116.7	106.5	96.1	90.9	79.5	68.7	63.0	52.0
180.0	143.5	125.5	116.7	106.5	96.1	90.9	79.5	68.7	63.0	52.0
225.0	171.3	167.4	150.3	143.3	134.8	123.6	110.7	98.3	88.0	79.9
270.0	171.3	167.4	150.3	143.3	134.8	123.6	110.7	98.3	88.0	79.9
315.0	150.5	142.8	129.6	125.7	113.6	100.8	89.5	80.3	72.8	65.2
360.0	150.5	142.8	129.6	125.7	113.6	100.8	89.5	80.3	72.8	65.2

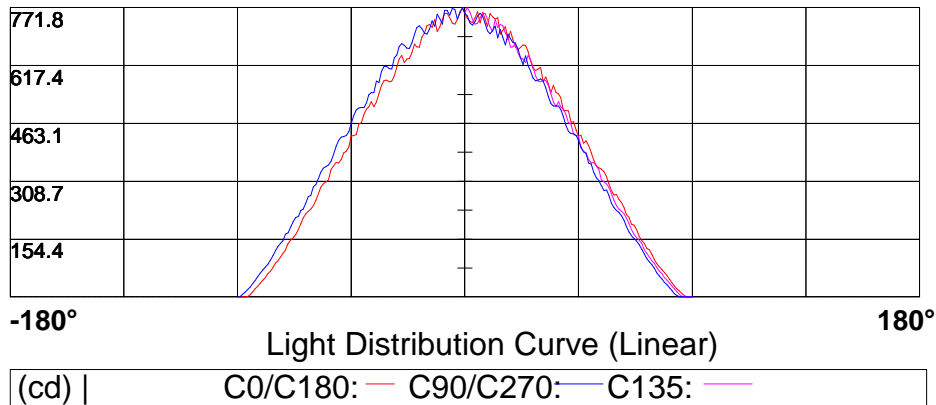
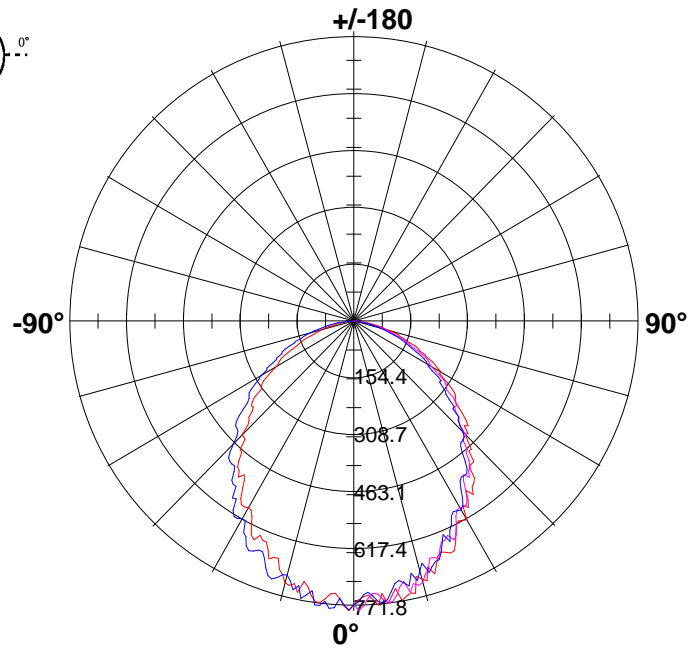
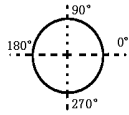
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	56.6	47.0	37.6	29.3	22.2	15.6	8.6	3.0	0.0	0.0
45.0	32.6	24.3	16.4	9.5	3.9	0.0	0.0	0.0	0.0	0.0
90.0	32.6	24.3	16.4	9.5	3.9	0.0	0.0	0.0	0.0	0.0
135.0	44.9	37.2	29.0	21.5	14.4	6.8	1.4	0.0	0.0	0.0
180.0	44.9	37.2	29.0	21.5	14.4	6.8	1.4	0.0	0.0	0.0
225.0	72.3	63.8	54.0	44.0	36.1	27.1	20.5	12.8	7.1	1.4
270.0	72.3	63.8	54.0	44.0	36.1	27.1	20.5	12.8	7.1	1.4
315.0	56.6	47.0	37.6	29.3	22.2	15.6	8.6	3.0	0.0	0.0
360.0	56.6	47.0	37.6	29.3	22.2	15.6	8.6	3.0	0.0	0.0

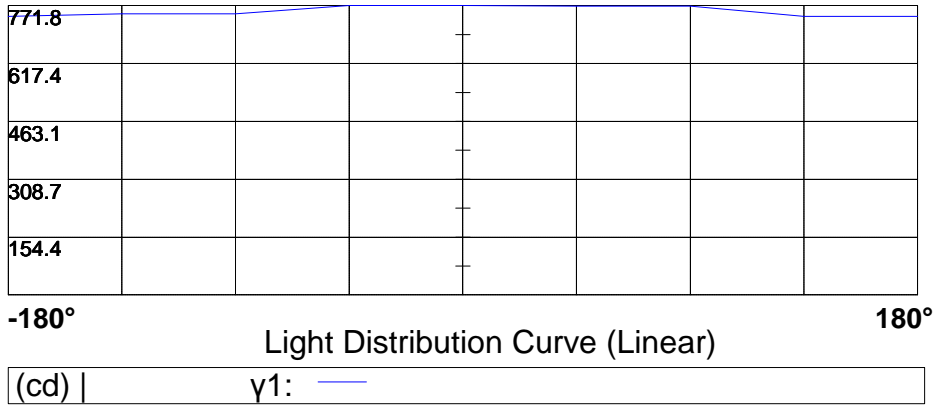
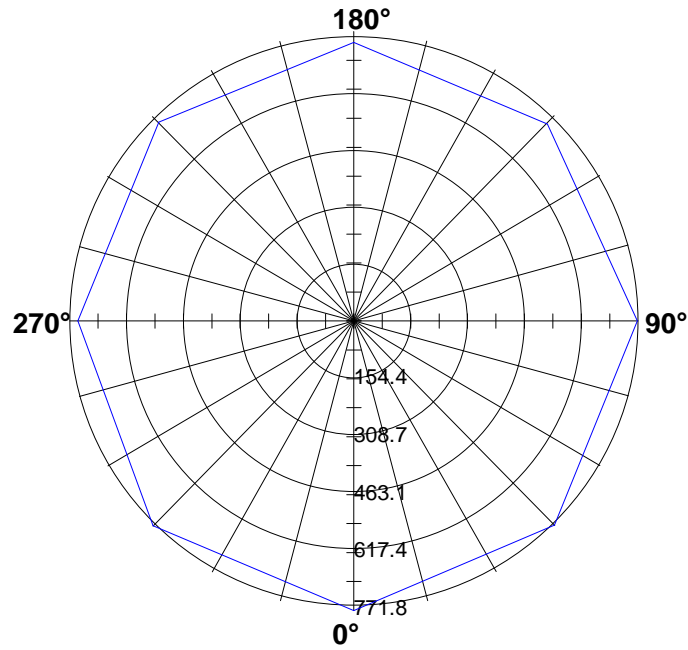
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

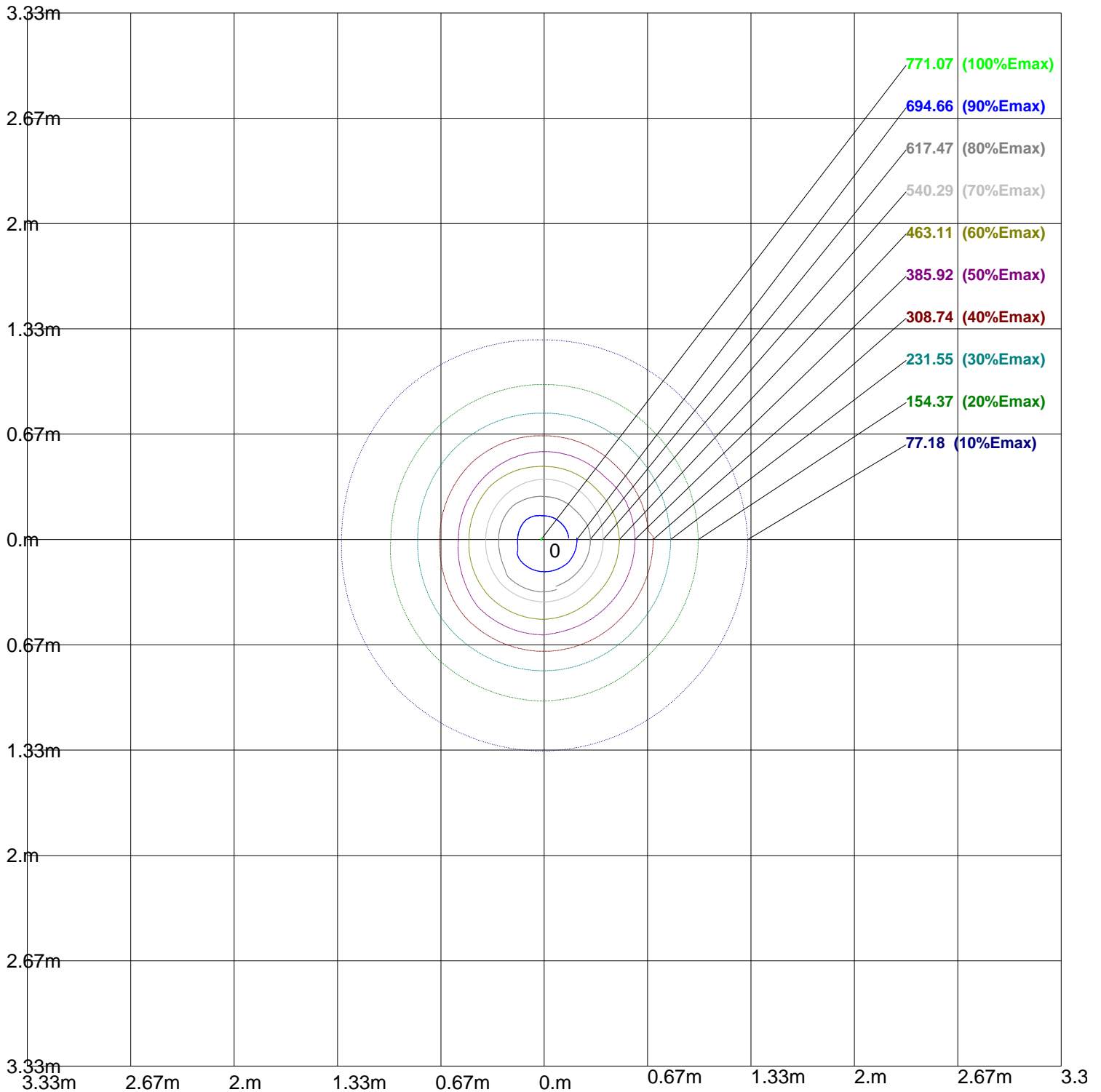
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 771.84lx

Luminance Limiting Curve

Diameter: 0mm

Length: 480mm

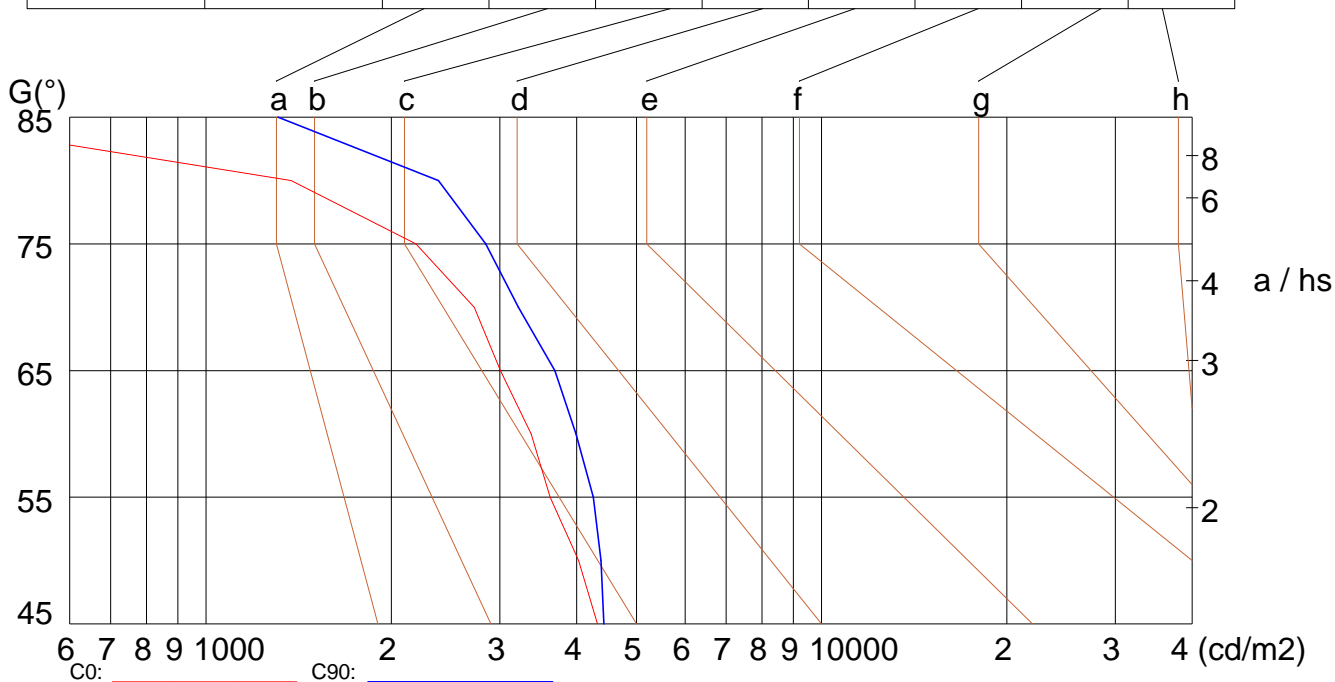
Width: 285mm

Height: 115mm

(cd/m²)

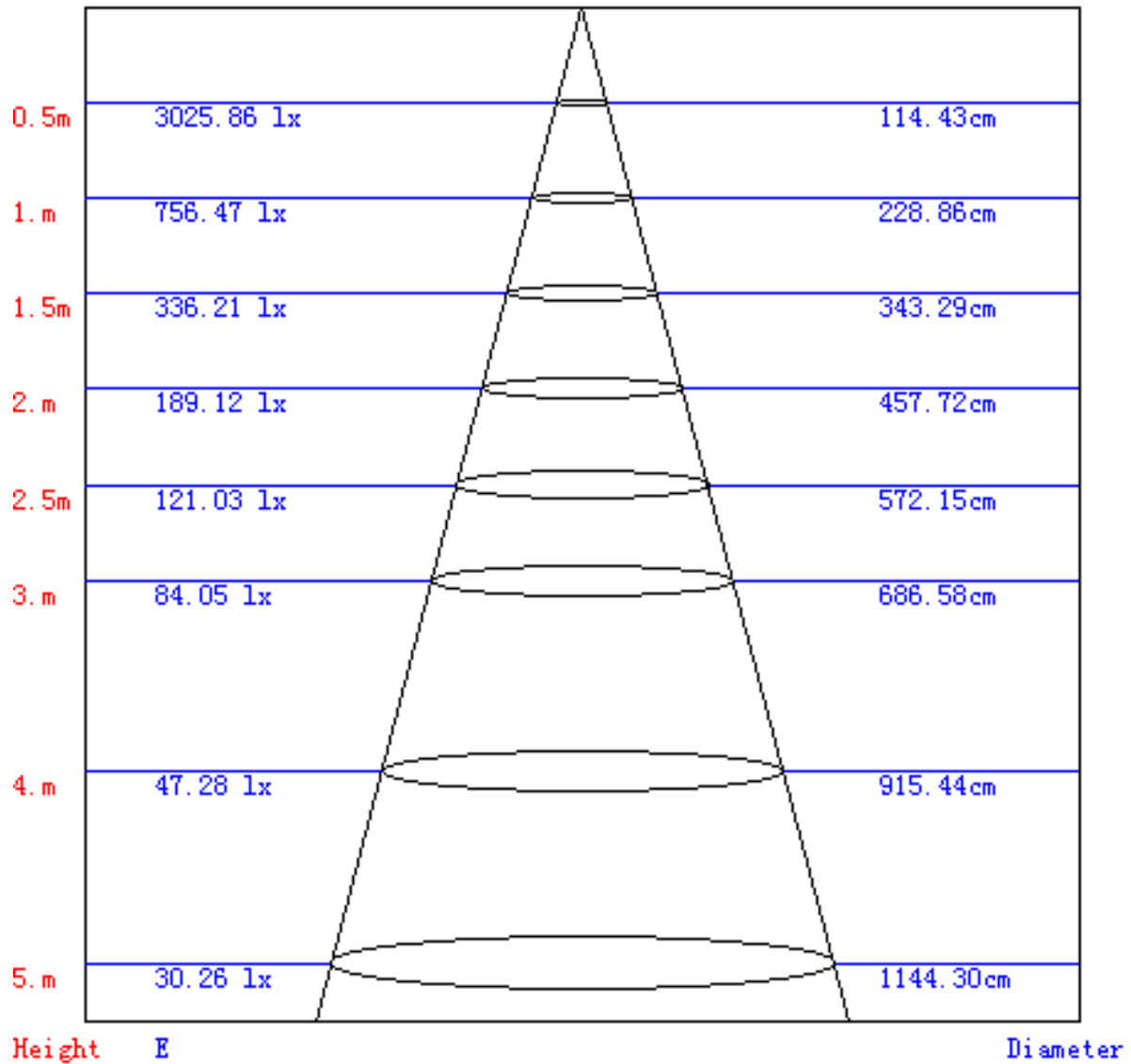
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4325	4029	3619	3373	3008	2726	2193	1374	0
C90	4428	4380	4259	3992	3687	3217	2847	2383	1309

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:97.70°

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	1.06	1.04	1.03	1.04	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	0.91	0.88	0.87	0.90	0.87	0.85	0.88	0.84	0.81	0.84	0.81	0.77	0.80	0.76	0.72	0.67
3	0.78	0.76	0.74	0.78	0.75	0.72	0.77	0.73	0.69	0.74	0.70	0.66	0.71	0.66	0.62	0.57
4	0.68	0.65	0.63	0.68	0.65	0.62	0.68	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.49
5	0.60	0.57	0.55	0.60	0.57	0.54	0.60	0.56	0.52	0.60	0.54	0.50	0.58	0.52	0.47	0.43
6	0.53	0.50	0.49	0.54	0.50	0.48	0.54	0.49	0.46	0.54	0.48	0.44	0.53	0.47	0.41	0.38
7	0.47	0.45	0.43	0.48	0.45	0.42	0.49	0.44	0.41	0.49	0.43	0.39	0.49	0.42	0.37	0.34
8	0.43	0.40	0.39	0.44	0.40	0.38	0.45	0.40	0.37	0.45	0.39	0.35	0.45	0.38	0.33	0.30
9	0.39	0.36	0.35	0.40	0.36	0.34	0.41	0.36	0.33	0.42	0.36	0.32	0.42	0.35	0.30	0.27
10	0.35	0.33	0.32	0.36	0.33	0.31	0.38	0.33	0.30	0.38	0.33	0.29	0.39	0.32	0.28	0.25

