

Penn (Medium)

Report No	:	Voltage	:	120.07 V
Test No	:	Current	:	1.3951 A
LumCAT	:	Power	:	94.970 W
Luminaire	:	PF	:	0.567
LampCAT	:	Ballast type	:	
Lamp flux	:	Width	:	0 mm
Number of Lamps	:	Length	:	0 mm
Phm Type	:	Height	:	0 mm

Photometric Results

Lumens(lm)	:	3421.16	Central intensity(cd)	:	3335.734
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	3375.797
Luminous Efficacy(lm/W)	:	36.02	Angle of maximum intensity	:	C=270.0 γ =5.0
Beam Angle(50%Imax)	:	[C0/180]Total=61.0 [C90/270]Total=62.0			
Field angle(10%Imax)	:	[C0/180]Total=88.8 [C90/270]Total=89.9			
Maximum s/h(1/2)	:	C0_180=0.97 C90_270=0.99			
Maximum s/h(1/4)	:	C0_180=0.92 C90_270=0.93			
Up flux rate of lamp(%)	:	0.07%			
Down flux rate of lamp(%)	:	99.93%			
Up flux rate of LUM(%)	:	0.07%			
Down flux rate of LUM(%)	:	99.93%			
CIE Type	:	Direct lighting			
Output flux ratio in π solid angle :	:	95.721%			

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 59%

Operator: jarvis

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3335.734	0.000	0	0.00%	0.00%
5.0	3299.150	79.318	79.318	2.32%	2.32%
10.0	3192.483	232.226	311.544	6.79%	9.11%
15.0	2945.318	364.090	675.634	10.64%	19.75%
20.0	2670.709	462.839	1138.474	13.53%	33.28%
25.0	2341.075	525.644	1664.118	15.36%	48.64%
30.0	1772.755	520.609	2184.726	15.22%	63.86%
35.0	1038.880	414.033	2598.759	12.10%	75.96%
40.0	549.273	264.971	2863.73	7.75%	83.71%
45.0	315.790	160.173	3023.904	4.68%	88.39%
50.0	209.150	106.072	3129.976	3.10%	91.49%
55.0	158.070	79.846	3209.821	2.33%	93.82%
60.0	122.872	64.939	3274.76	1.90%	95.72%
65.0	92.395	52.332	3327.092	1.53%	97.25%
70.0	63.904	39.576	3366.668	1.16%	98.41%
75.0	41.610	27.580	3394.247	0.81%	99.21%
80.0	20.228	16.546	3410.794	0.48%	99.70%
85.0	4.319	6.670	3417.464	0.19%	99.89%
90.0	0.000	1.183	3418.646	0.03%	99.93%
95.0	0.000	0.000	3418.646	0.00%	99.93%
100.0	0.000	0.000	3418.646	0.00%	99.93%
105.0	0.000	0.000	3418.646	0.00%	99.93%
110.0	0.000	0.000	3418.646	0.00%	99.93%
115.0	0.000	0.000	3418.646	0.00%	99.93%
120.0	0.000	0.000	3418.646	0.00%	99.93%
125.0	0.027	0.006	3418.653	0.00%	99.93%
130.0	0.107	0.029	3418.682	0.00%	99.93%
135.0	0.241	0.070	3418.752	0.00%	99.93%
140.0	0.483	0.134	3418.886	0.00%	99.93%
145.0	0.805	0.215	3419.101	0.01%	99.94%
150.0	1.207	0.296	3419.398	0.01%	99.95%
155.0	1.744	0.373	3419.771	0.01%	99.96%
160.0	2.227	0.416	3420.187	0.01%	99.97%
165.0	2.522	0.391	3420.579	0.01%	99.98%
170.0	2.710	0.310	3420.889	0.01%	99.99%
175.0	2.817	0.198	3421.087	0.01%	100.00%
180.0	3.053	0.070	3421.157	0.00%	100.00%

Equipment: GMS-3000
 Temperature($^{\circ}$ C): 25

Date:
 Humidity(%): 59%

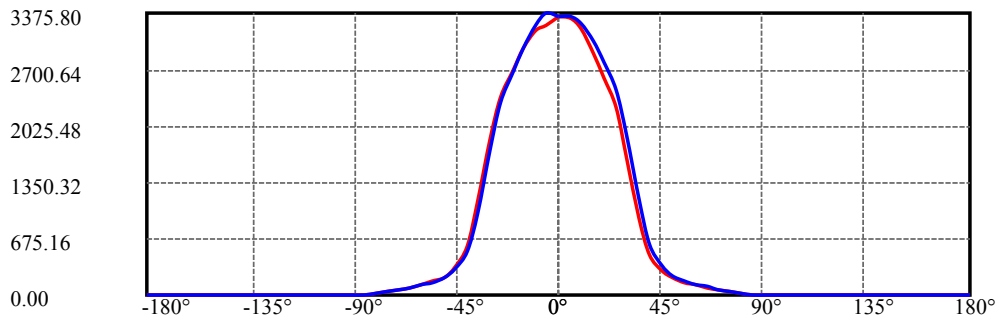
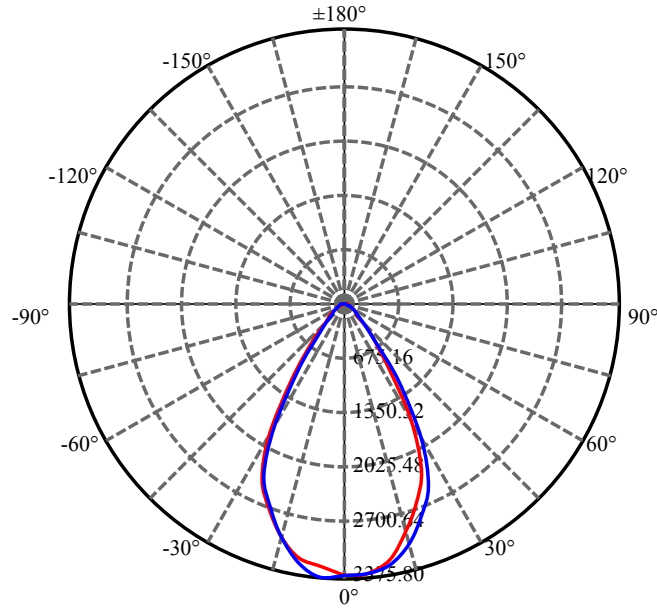
Operator: jarvis

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2184.73	63.86%	63.86%
0-40	2863.73	83.71%	83.71%
0-60	3274.76	95.72%	95.72%
0-90	3418.65	99.93%	99.93%
0-120	3418.65	99.93%	99.93%
0-180	3421.16	100.00%	100.00%
60-90	143.89	4.21%	4.21%
90-120	0.00	0.00%	0.00%
90-130	0.04	0.00%	0.00%
90-150	0.75	0.02%	0.02%
90-180	2.44	0.07%	0.07%
0-37.61	2736.93	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	311.54
10-20	826.93
20-30	1046.25
30-40	679.00
40-50	266.25
50-60	144.78
60-70	91.91
70-80	44.13
80-90	7.85
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.04
130-140	0.20
140-150	0.51
150-160	0.79
160-170	0.70
170-180	0.20



C0/C180: —

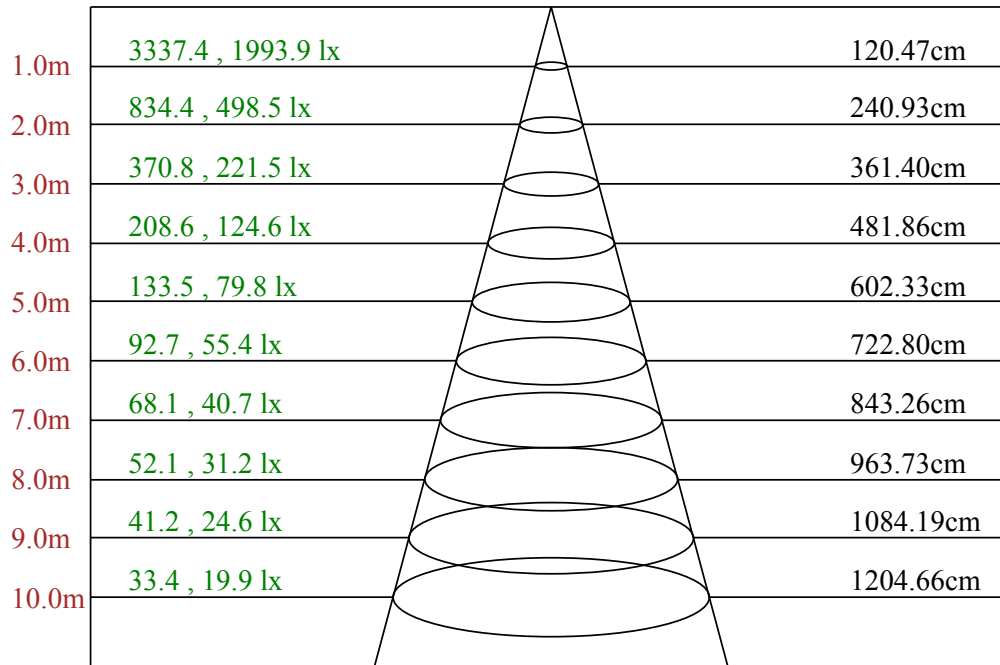
C90/C270: —

Field angle(10%Imax):C0/180Left:44.9 Right:43.9

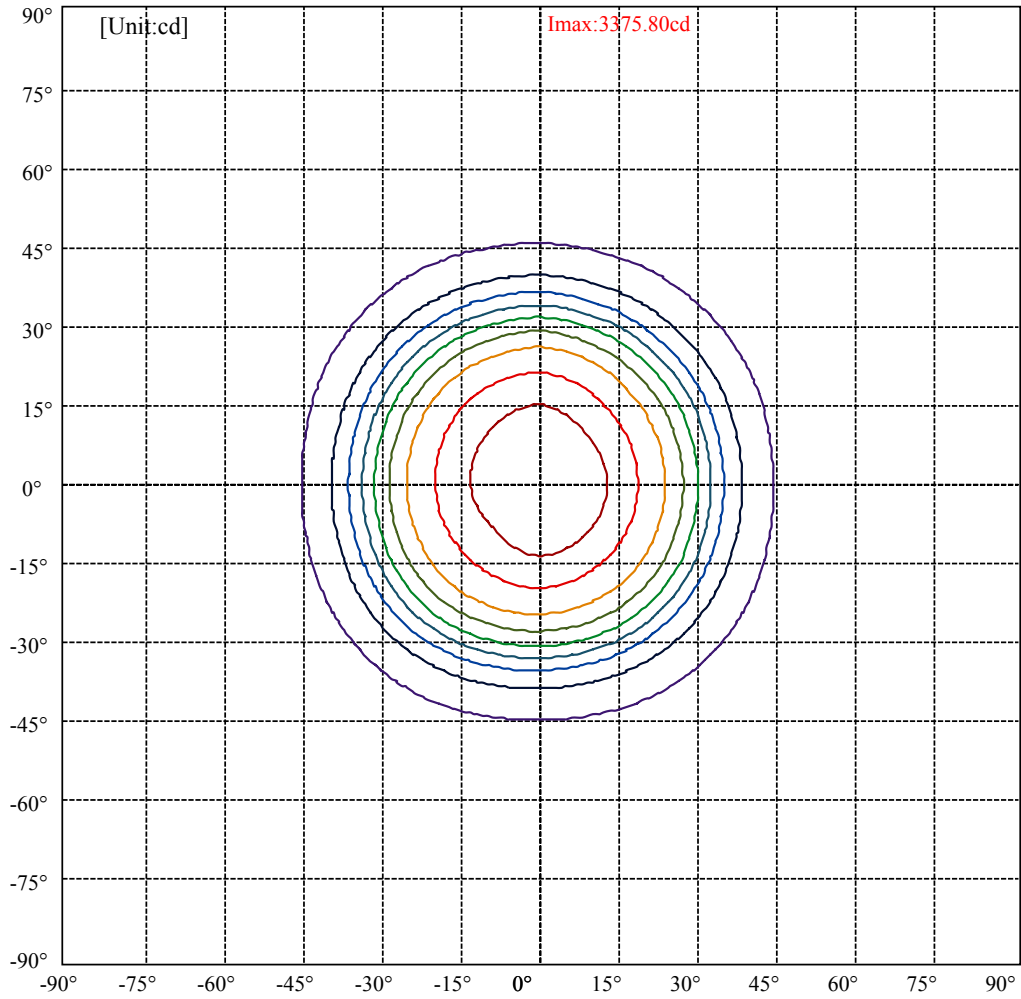
:C90/270Left:44.3 Right:45.6

Beam Angle(50%Imax):C0/180Left:31.3 Right:29.7

:C90/270Left:30.4 Right:31.6



Max , Ave Beam angle of C270 plane 62.12



(10%Imax) 337.58	—
(20%Imax) 675.159	—
(30%Imax) 1012.74	—
(40%Imax) 1350.32	—
(50%Imax) 1687.9	—
(60%Imax) 2025.48	—
(70%Imax) 2363.06	—
(80%Imax) 2700.64	—
(90%Imax) 3038.22	—

Intensity data(cd)

C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3335.73	3320.21	3185.64	2893.33	2600.15	2252.89	1636.07	931.89	490.84
45.0	3335.73	3310.34	3189.72	2922.09	2629.98	2281.01	1664.61	943.48	494.49
90.0	3335.73	3326.86	3250.89	3047.21	2778.93	2458.29	1913.57	1154.67	608.03
135.0	3335.73	3275.78	3197.02	2993.77	2734.93	2414.29	1857.56	1120.12	605.24
180.0	3335.73	3238.44	3162.89	2958.36	2687.72	2378.66	1860.99	1123.76	595.58
225.0	3335.73	3205.82	3124.47	2906.42	2655.74	2356.98	1842.53	1112.39	580.98
270.0	3335.73	3375.80	3235.22	2949.77	2666.47	2315.13	1735.01	982.54	514.02
315.0	3335.73	3339.96	3194.01	2891.61	2611.74	2271.35	1671.70	942.19	505.01
360.0	3335.73	3320.21	3185.64	2893.33	2600.15	2252.89	1636.07	931.89	490.84
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	290.17	204.54	156.03	121.26	89.07	61.81	39.71	17.60	3.86
45.0	291.89	201.96	154.74	121.26	88.85	62.03	39.92	18.03	3.43
90.0	348.76	221.92	165.26	128.99	99.59	68.47	45.07	24.04	5.80
135.0	339.96	218.92	164.62	126.63	97.22	66.53	44.21	22.75	4.72
180.0	328.16	210.55	161.40	123.84	93.79	64.82	41.64	21.25	4.72
225.0	323.01	208.61	157.75	122.34	94.01	64.17	42.71	21.25	4.94
270.0	305.41	205.18	152.81	120.19	88.85	62.67	40.56	18.46	3.43
315.0	298.97	201.53	151.95	118.47	87.78	60.74	39.06	18.46	3.65
360.0	290.17	204.54	156.03	121.26	89.07	61.81	39.71	17.60	3.86
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.64
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.43	0.64	0.86	1.29	1.72	2.36	2.58	2.79	2.58
45.0	0.22	0.64	0.86	1.29	1.72	2.36	2.58	2.79	2.79
90.0	0.00	0.22	0.86	1.29	1.72	2.15	2.58	2.79	3.01
135.0	0.00	0.22	0.64	0.86	1.50	1.93	2.36	2.58	2.58
180.0	0.00	0.22	0.43	0.86	1.50	1.72	2.36	2.36	2.36
225.0	0.00	0.22	0.64	0.86	1.29	1.93	2.15	2.36	2.79
270.0	0.86	1.07	1.29	1.93	2.58	3.01	3.22	3.43	3.43
315.0	0.43	0.64	0.86	1.29	1.93	2.36	2.36	2.58	3.01
360.0	0.43	0.64	0.86	1.29	1.72	2.36	2.58	2.79	2.58
C/ γ (°)	180.0								
0.0	3.05								
45.0	3.05								
90.0	3.05								
135.0	3.05								
180.0	3.05								
225.0	3.05								
270.0	3.05								
315.0	3.05								
360.0	3.05								