

Penn (Medium)

Report No	:	Voltage	:	120.05 V
Test No	:	Current	:	1.3934 A
LumCAT	:	Power	:	95.360 W
Luminaire	:	PF	:	0.5701
LampCAT	:	Ballast type	:	
Lamp flux	:	Width	:	0 mm
Number of Lamps	:	Length	:	0 mm
Phm Type	:	Height	:	0 mm

Photometric Results

Lumens(lm)	:	3384.80	Central intensity(cd)	:	6273.893
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	6385.019
Luminous Efficacy(lm/W)	:	35.49	Angle of maximum intensity	:	C=90.0 γ =5.0
Beam Angle(50%Imax)	:	[C0/180]Total=37.9 [C90/270]Total=38.8			
Field angle(10%Imax)	:	[C0/180]Total=64.1 [C90/270]Total=65.7			
Maximum s/h(1/2)	:	C0_180=0.67 C90_270=0.68			
Maximum s/h(1/4)	:	C0_180=0.63 C90_270=0.64			
Up flux rate of lamp(%)	:	0.08%			
Down flux rate of lamp(%)	:	99.92%			
Up flux rate of LUM(%)	:	0.08%			
Down flux rate of LUM(%)	:	99.92%			
CIE Type	:	Direct lighting			
Output flux ratio in π solid angle :	:	94.867%			

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	6273.893	0.000	0	0.00%	0.00%
5.0	6173.884	148.810	148.81	4.40%	4.40%
10.0	5559.795	419.751	568.56	12.40%	16.80%
15.0	4353.993	588.079	1156.639	17.37%	34.17%
20.0	2847.155	593.476	1750.115	17.53%	51.71%
25.0	1525.268	458.586	2208.702	13.55%	65.25%
30.0	821.065	296.930	2505.632	8.77%	74.03%
35.0	482.257	191.923	2697.555	5.67%	79.70%
40.0	352.062	139.200	2836.755	4.11%	83.81%
45.0	271.980	115.546	2952.302	3.41%	87.22%
50.0	219.559	99.323	3051.624	2.93%	90.16%
55.0	176.983	86.221	3137.846	2.55%	92.70%
60.0	139.746	73.211	3211.057	2.16%	94.87%
65.0	105.514	59.623	3270.68	1.76%	96.63%
70.0	74.313	45.533	3316.213	1.35%	97.97%
75.0	51.241	32.818	3349.031	0.97%	98.94%
80.0	28.303	21.284	3370.315	0.63%	99.57%
85.0	7.217	9.652	3379.967	0.29%	99.86%
90.0	0.000	1.976	3381.942	0.06%	99.92%
95.0	0.000	0.000	3381.942	0.00%	99.92%
100.0	0.000	0.000	3381.942	0.00%	99.92%
105.0	0.000	0.000	3381.942	0.00%	99.92%
110.0	0.000	0.000	3381.942	0.00%	99.92%
115.0	0.027	0.007	3381.949	0.00%	99.92%
120.0	0.000	0.007	3381.956	0.00%	99.92%
125.0	0.027	0.006	3381.962	0.00%	99.92%
130.0	0.081	0.023	3381.985	0.00%	99.92%
135.0	0.188	0.054	3382.04	0.00%	99.92%
140.0	0.349	0.099	3382.139	0.00%	99.92%
145.0	0.885	0.206	3382.345	0.01%	99.93%
150.0	1.476	0.348	3382.693	0.01%	99.94%
155.0	2.012	0.441	3383.134	0.01%	99.95%
160.0	2.576	0.481	3383.615	0.01%	99.97%
165.0	3.112	0.469	3384.084	0.01%	99.98%
170.0	3.380	0.385	3384.469	0.01%	99.99%
175.0	3.434	0.244	3384.713	0.01%	100.00%
180.0	3.529	0.083	3384.796	0.00%	100.00%

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

Date:
 Humidity(%): 59%

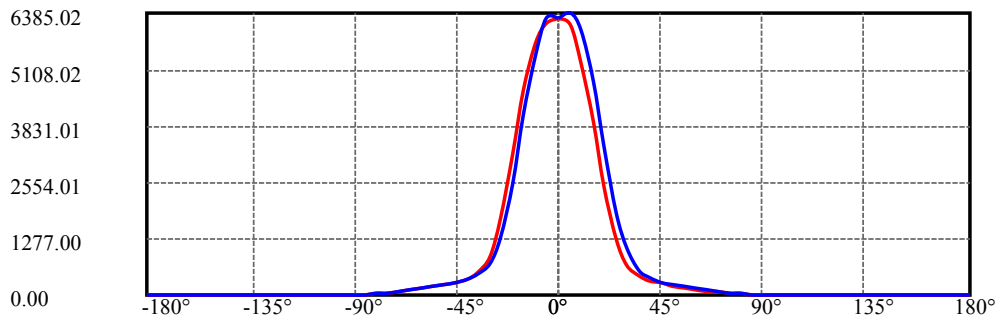
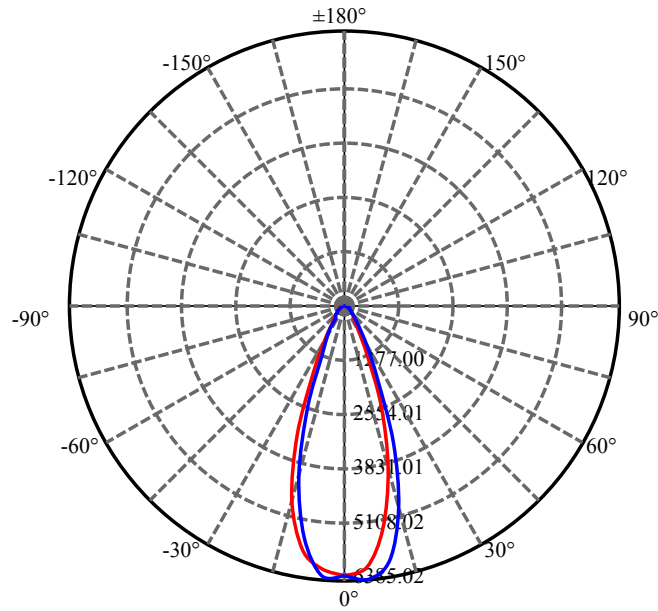
Operator: jarvis

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2505.63	74.03%	74.03%
0-40	2836.76	83.81%	83.81%
0-60	3211.06	94.87%	94.87%
0-90	3381.94	99.92%	99.92%
0-120	3381.96	99.92%	99.92%
0-180	3384.80	100.00%	100.00%
60-90	170.89	5.05%	5.05%
90-120	0.01	0.00%	0.00%
90-130	0.04	0.00%	0.00%
90-150	0.75	0.02%	0.02%
90-180	2.77	0.08%	0.08%
0-35.37	2707.84	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	568.56
10-20	1181.55
20-30	755.52
30-40	331.12
40-50	214.87
50-60	159.43
60-70	105.16
70-80	54.10
80-90	11.63
90-100	0.00
100-110	0.00
110-120	0.01
120-130	0.03
130-140	0.15
140-150	0.55
150-160	0.92
160-170	0.85
170-180	0.24



C0/C180: —

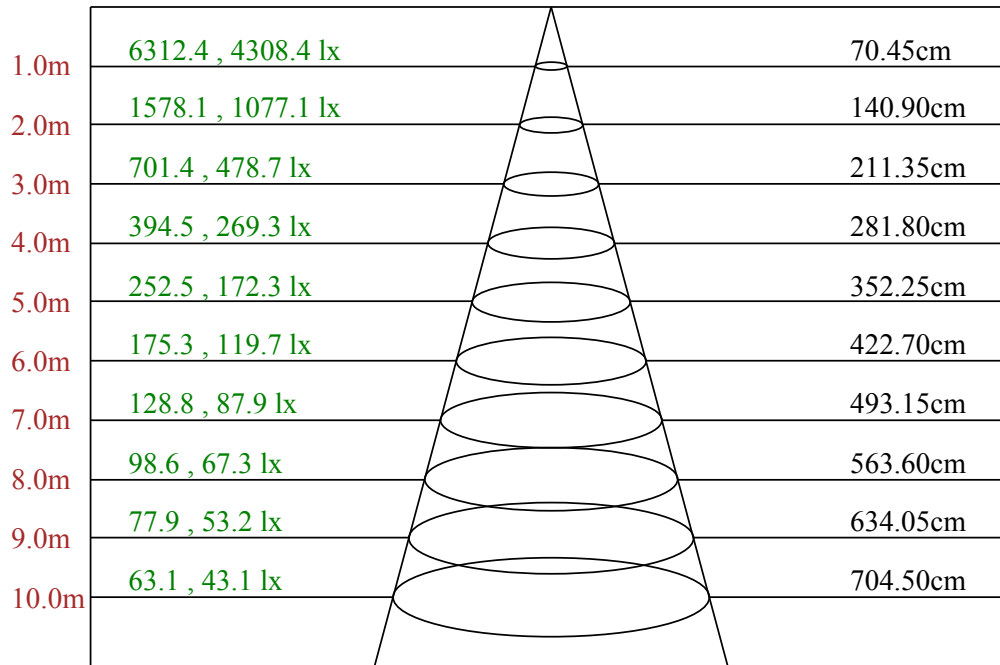
C90/C270: —

Field angle(10%Imax):C0/180Left:33.4 Right:30.7

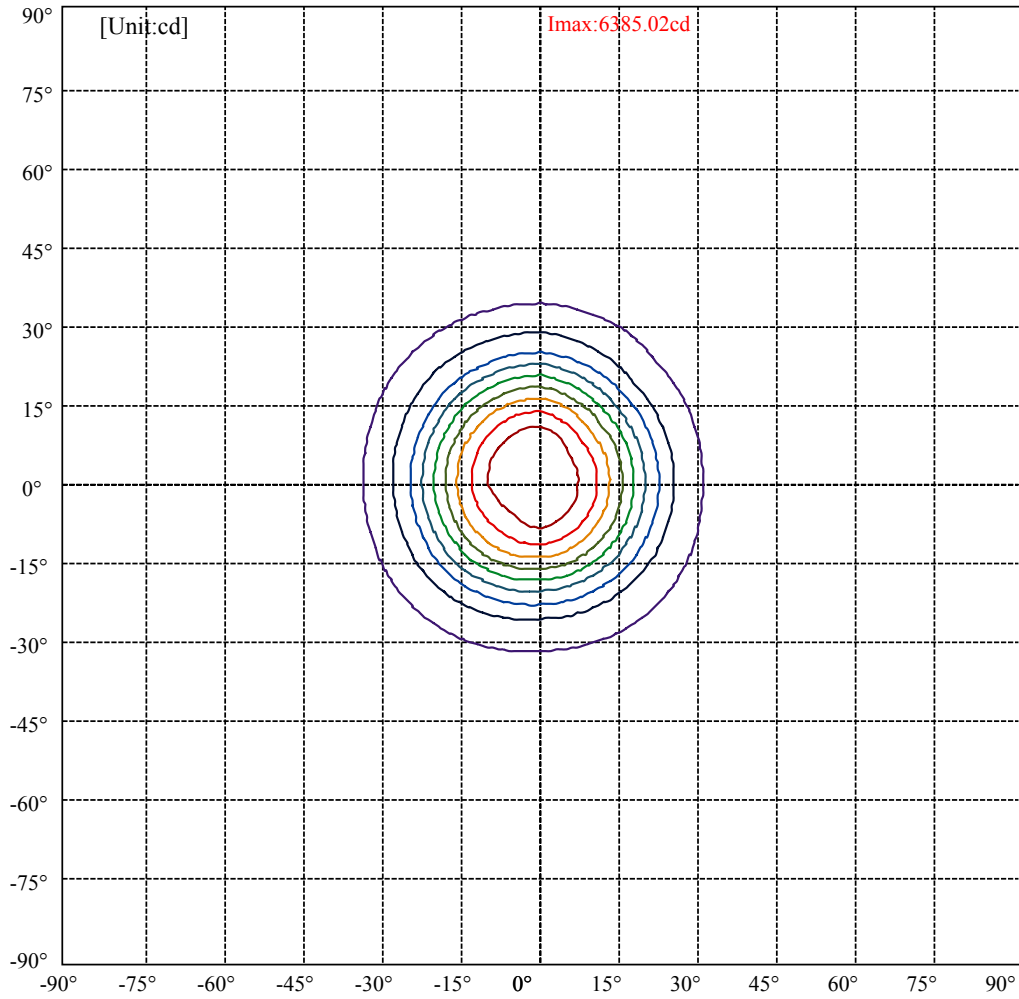
:C90/270Left:31.5 Right:34.2

Beam Angle(50%Imax):C0/180Left:20.2 Right:17.7

:C90/270Left:18.0 Right:20.8



Max , Ave Beam angle of C90 plane 38.81



(10%Imax) 638.502	—
(20%Imax) 1277	—
(30%Imax) 1915.51	—
(40%Imax) 2554.01	—
(50%Imax) 3192.51	—
(60%Imax) 3831.01	—
(70%Imax) 4469.51	—
(80%Imax) 5108.02	—
(90%Imax) 5746.52	—

Intensity data(cd)

C/ γ ($^{\circ}$)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	6273.89	6093.13	5251.81	3932.74	2456.14	1269.28	660.61	432.25	326.87
45.0	6273.89	6125.33	5449.27	4147.58	2605.52	1356.84	705.46	441.26	323.65
90.0	6273.89	6385.02	5979.38	4835.45	3367.43	1873.65	1068.82	540.42	382.67
135.0	6273.89	6245.51	5878.51	4818.28	3311.63	1841.46	1075.26	535.70	378.81
180.0	6273.89	6129.62	5726.13	4657.31	3197.88	1757.76	871.58	512.95	368.51
225.0	6273.89	6030.89	5464.29	4419.08	2910.28	1556.01	800.97	490.20	351.98
270.0	6273.89	6275.56	5449.27	4082.12	2529.54	1298.25	697.31	458.86	346.62
315.0	6273.89	6106.01	5279.71	3939.40	2398.84	1248.89	688.51	446.42	337.39
360.0	6273.89	6093.13	5251.81	3932.74	2456.14	1269.28	660.61	432.25	326.87
C/ γ ($^{\circ}$)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	258.84	210.33	168.69	132.21	96.15	67.61	45.50	22.75	3.01
45.0	254.11	201.10	160.32	127.06	92.72	65.25	45.50	22.75	4.72
90.0	288.45	229.65	187.80	148.95	115.47	81.13	56.66	33.91	11.16
135.0	282.87	225.78	180.93	143.15	112.89	81.13	55.80	34.34	12.23
180.0	276.86	224.71	185.43	146.16	113.11	79.41	55.59	33.48	11.38
225.0	269.57	219.34	179.64	141.65	108.81	76.19	53.87	31.76	9.44
270.0	279.44	229.86	182.64	143.80	107.10	74.90	50.22	25.33	3.43
315.0	265.70	215.70	170.41	135.00	97.87	68.89	46.79	22.11	2.36
360.0	258.84	210.33	168.69	132.21	96.15	67.61	45.50	22.75	3.01
C/ γ ($^{\circ}$)	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	0.22	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	0.22	0.00	0.00	0.43
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 ($^{\circ}$)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.22	0.64	1.07	1.72	2.15	2.79	3.01	3.22	3.43
45.0	0.22	0.43	1.07	1.72	1.93	2.79	3.22	3.22	3.22
90.0	0.00	0.22	0.86	1.29	1.72	2.36	3.22	3.43	3.43
135.0	0.00	0.22	0.86	1.29	1.93	2.36	3.01	3.43	3.22
180.0	0.00	0.22	0.43	1.07	1.72	2.15	2.79	3.22	3.22
225.0	0.00	0.00	0.43	1.07	1.72	2.36	2.79	3.01	3.22
270.0	0.64	0.64	1.29	1.93	2.58	3.01	3.65	4.08	4.08
315.0	0.43	0.43	1.07	1.72	2.36	2.79	3.22	3.43	3.65
360.0	0.22	0.64	1.07	1.72	2.15	2.79	3.01	3.22	3.43
C/ γ ($^{\circ}$)	180.0								
0.0	3.53								
45.0	3.53								
90.0	3.53								
135.0	3.53								
180.0	3.53								
225.0	3.53								
270.0	3.53								
315.0	3.53								
360.0	3.53								