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Report No	:	Voltage	: 120.09 V
Test No	:	Current	: 0.2804 A
LumCAT	:	Power	: 33.326 W
Luminaire	:	PF	: 0.9898
LampCAT	:	Ballast type	:
Lamp flux	: 2947.1 lm	Width	: 0 mm
Number of Lamps	: 1	Length	: 0 mm
Phm Type	: C	Height	: 0 mm

Photometric Results

Lumens(lm)	: 2947.08	Central intensity(cd)	: 919.264
Efficiency(%)	: 100.00%	Maximum intensity(cd)	: 931.245
Luminous Efficacy(lm/W)	: 88.43	Angle of maximum intensity	: C=90.0 γ=0.0

Beam Angle(50%Imax)	: [C0/180]Total=115.0 [C90/270]Total=115.0
Field angle(10%Imax)	: [C0/180]Total=176.0 [C90/270]Total=176.2
Maximum s/h(1/2)	: C0_180=1.27 C90_270=1.27
Maximum s/h(1/4)	: C0_180=1.39 C90_270=1.39
Up flux rate of lamp(%)	: 4.36%
Down flux rate of lamp(%)	: 95.64%
Up flux rate of LUM(%)	: 4.36%
Down flux rate of LUM(%)	: 95.64%
CIE Type	: Direct lighting
Output flux ratio in π solid angle :	: 71.133%

Zonal flux distribution table

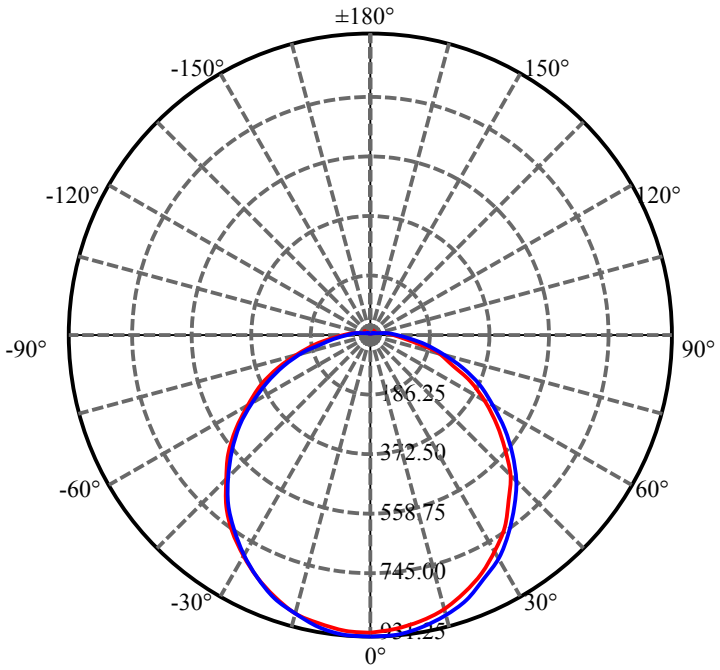
γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	922.412	0.000	0	0.00%	0.00%
5.0	918.426	22.007	22.007	0.75%	0.75%
10.0	906.014	65.266	87.273	2.21%	2.96%
15.0	885.352	106.263	193.535	3.61%	6.57%
20.0	857.558	143.640	337.176	4.87%	11.44%
25.0	821.845	176.138	513.314	5.98%	17.42%
30.0	780.191	202.739	716.053	6.88%	24.30%
35.0	732.345	222.732	938.785	7.56%	31.85%
40.0	679.853	235.615	1174.399	7.99%	39.85%
45.0	621.980	241.045	1415.444	8.18%	48.03%
50.0	559.564	238.748	1654.192	8.10%	56.13%
55.0	494.559	229.201	1883.394	7.78%	63.91%
60.0	426.711	212.949	2096.343	7.23%	71.13%
65.0	357.745	190.703	2287.045	6.47%	77.60%
70.0	288.933	163.743	2450.788	5.56%	83.16%
75.0	224.054	134.086	2584.875	4.55%	87.71%
80.0	165.217	104.158	2689.033	3.53%	91.24%
85.0	116.583	76.572	2765.605	2.60%	93.84%
90.0	77.392	53.112	2818.717	1.80%	95.64%
95.0	49.750	34.813	2853.529	1.18%	96.83%
100.0	32.490	22.347	2875.876	0.76%	97.58%
105.0	23.099	14.874	2890.75	0.50%	98.09%
110.0	17.616	10.642	2901.392	0.36%	98.45%
115.0	15.230	8.317	2909.709	0.28%	98.73%
120.0	15.078	7.368	2917.076	0.25%	98.98%
125.0	14.443	6.824	2923.9	0.23%	99.21%
130.0	12.920	5.950	2929.85	0.20%	99.42%
135.0	11.143	4.862	2934.712	0.16%	99.58%
140.0	9.366	3.797	2938.509	0.13%	99.71%
145.0	7.716	2.850	2941.359	0.10%	99.81%
150.0	6.168	2.045	2943.404	0.07%	99.88%
155.0	5.026	1.417	2944.821	0.05%	99.92%
160.0	4.315	0.980	2945.8	0.03%	99.96%
165.0	3.579	0.651	2946.451	0.02%	99.98%
170.0	2.970	0.388	2946.839	0.01%	99.99%
175.0	2.386	0.192	2947.031	0.01%	100.00%
180.0	2.082	0.053	2947.084	0.00%	100.00%

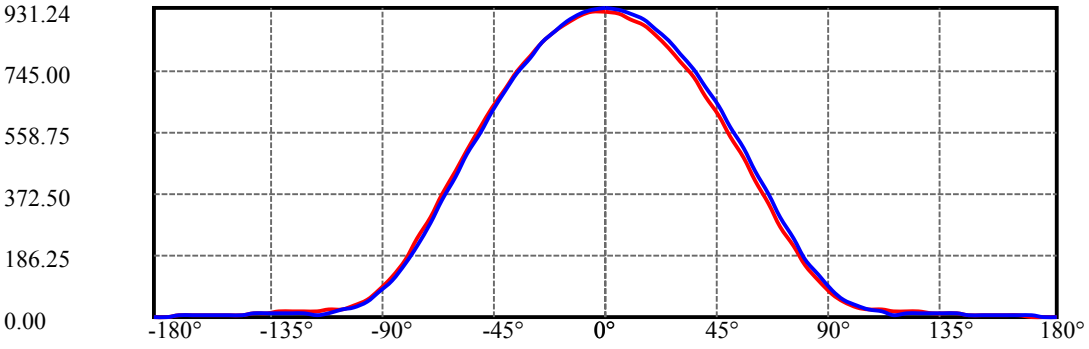
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	716.05	24.30%	24.30%
0-40	1174.40	39.85%	39.85%
0-60	2096.34	71.13%	71.13%
0-90	2818.72	95.64%	95.64%
0-120	2917.08	98.98%	98.98%
0-180	2947.08	100.00%	100.00%
60-90	722.37	24.51%	24.51%
90-120	98.36	3.34%	3.34%
90-130	111.13	3.77%	3.77%
90-150	124.69	4.23%	4.23%
90-180	128.31	4.35%	4.35%
0-67.16	2357.67	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	87.27
10-20	249.90
20-30	378.88
30-40	458.35
40-50	479.79
50-60	442.15
60-70	354.45
70-80	238.24
80-90	129.68
90-100	57.16
100-110	25.52
110-120	15.68
120-130	12.77
130-140	8.66
140-150	4.89
150-160	2.40
160-170	1.04
170-180	0.19



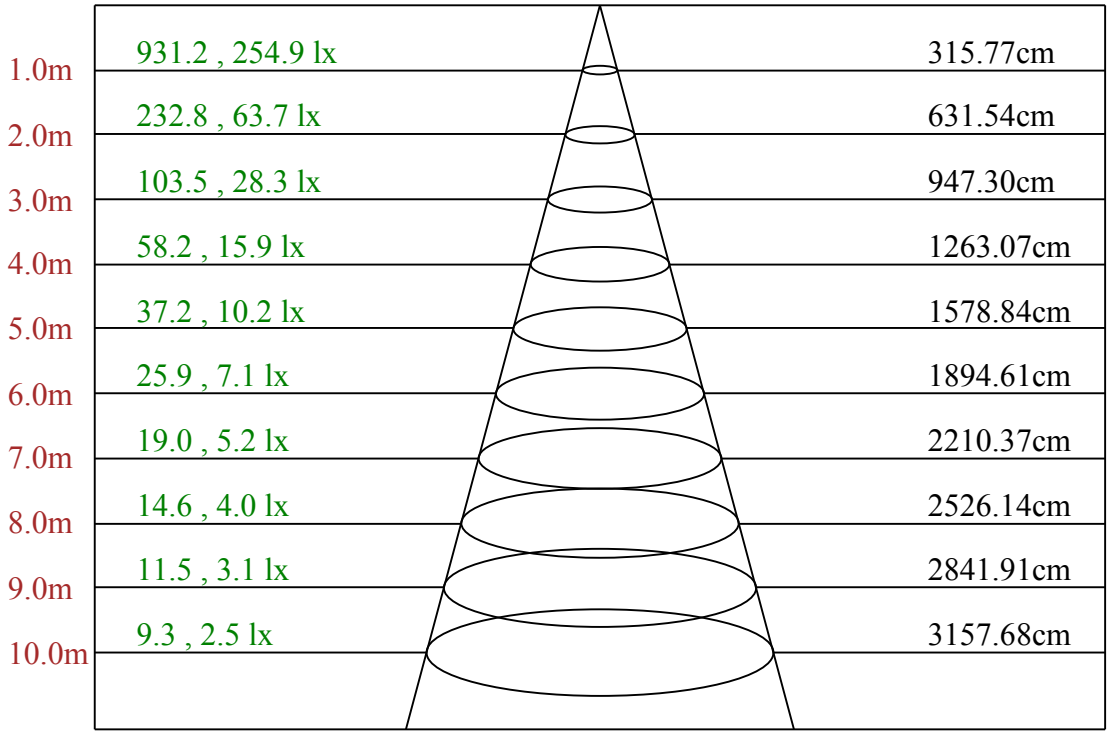


C0/C180:

C90/C270:

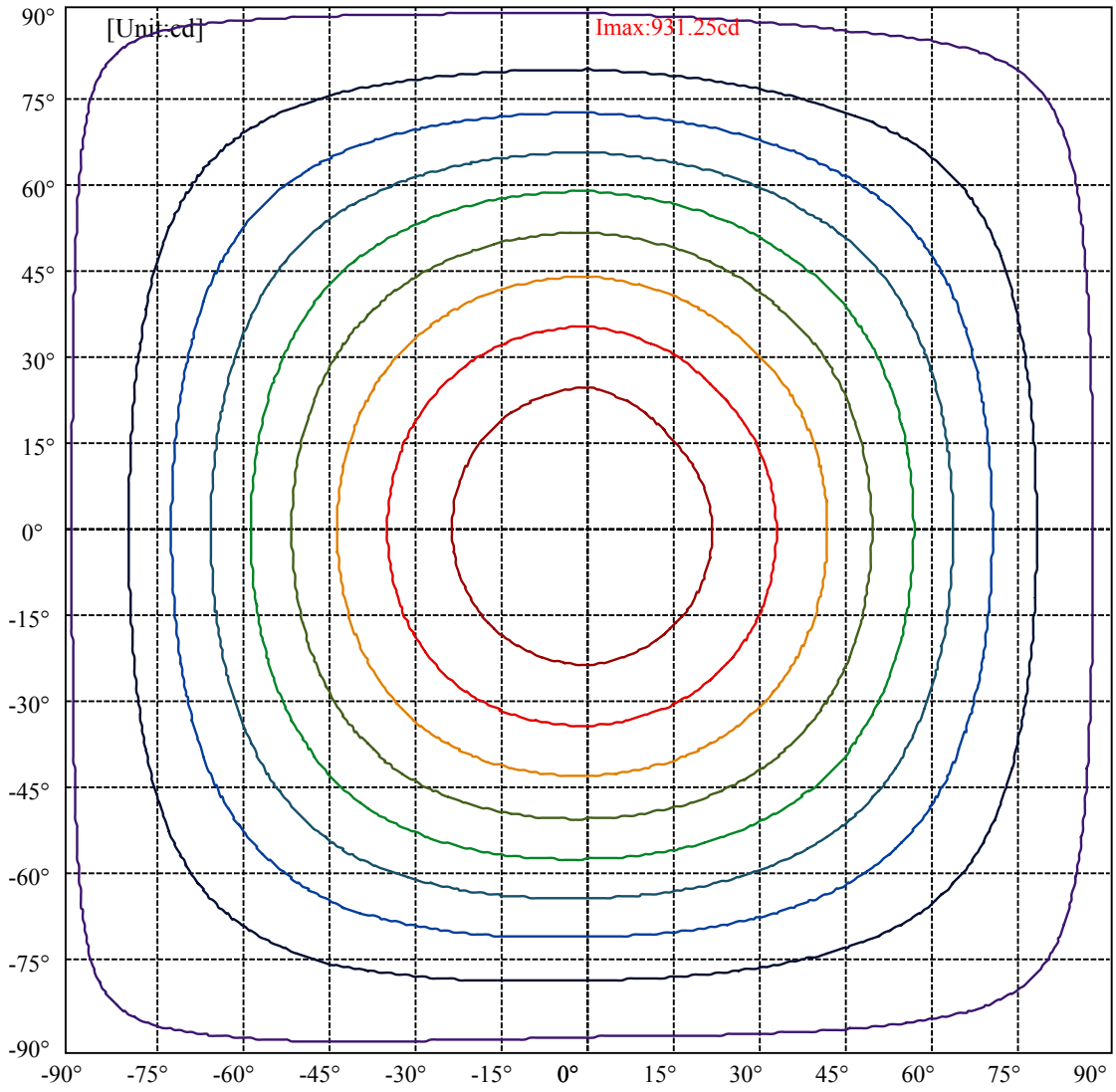
Field angle(10%Imax):C0/180Left:88.9 Right:87.1
:C90/270Left:87.4 Right:88.8

Beam Angle(50%Imax):C0/180Left:58.4 Right:56.6
:C90/270Left:56.8 Right:58.2



Max , Ave

Beam angle of C90 plane 115.30



(10%Imax) 93.1245
(20%Imax) 186.249
(30%Imax) 279.374
(40%Imax) 372.498
(50%Imax) 465.622
(60%Imax) 558.747
(70%Imax) 651.872
(80%Imax) 744.996
(90%Imax) 838.12

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	919.26	913.78	899.36	878.25	848.80	810.42	768.39	721.08	666.86
45.0	915.81	909.72	895.91	872.15	844.33	807.58	764.53	716.20	663.61
90.0	931.25	928.20	916.02	895.91	869.31	833.98	792.15	744.43	692.85
135.0	923.33	920.69	909.31	890.02	862.61	828.29	786.46	740.37	687.98
180.0	919.26	917.03	906.27	887.38	860.78	826.67	786.87	740.37	687.57
225.0	915.81	914.19	903.63	885.15	858.95	826.67	786.66	740.16	690.01
270.0	931.25	926.37	912.97	891.24	863.02	825.86	782.81	733.46	680.26
315.0	923.33	917.44	904.64	882.71	852.66	815.30	773.67	722.70	669.70
360.0	919.26	913.78	899.36	878.25	848.80	810.42	768.39	721.08	666.86

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	608.17	545.02	481.06	412.42	343.18	274.54	212.20	155.14	107.83
45.0	605.33	541.57	476.18	408.16	341.35	273.12	208.95	151.08	107.42
90.0	634.98	572.64	509.28	440.85	370.59	301.14	236.37	175.85	125.49
135.0	630.92	568.78	505.63	438.01	368.36	301.35	235.15	174.84	123.26
180.0	630.31	571.01	505.83	437.80	370.39	300.94	234.54	173.82	124.07
225.0	632.95	571.82	506.84	440.85	371.00	301.75	236.97	176.26	124.27
270.0	620.76	556.59	489.18	421.96	351.10	281.24	215.86	159.40	111.08
315.0	612.44	549.08	482.48	413.64	346.02	277.38	212.40	155.34	109.25
360.0	608.17	545.02	481.06	412.42	343.18	274.54	212.20	155.14	107.83

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	70.67	44.88	29.85	22.54	20.51	19.09	17.46	15.64	13.61
45.0	70.67	44.88	29.65	21.32	16.25	16.25	14.82	13.61	11.98
90.0	83.05	54.02	34.72	24.16	15.43	8.12	9.34	13.00	12.39
135.0	83.46	54.22	34.93	24.57	19.29	17.06	16.85	14.82	13.20
180.0	82.85	52.80	34.32	24.98	21.32	19.90	18.48	17.06	15.03
225.0	82.85	53.61	34.52	23.76	18.07	16.45	15.64	13.81	12.18
270.0	73.31	47.11	31.07	21.73	12.39	7.92	12.39	13.61	12.59
315.0	72.29	46.50	30.87	21.73	17.67	17.06	15.64	14.01	12.39
360.0	70.67	44.88	29.85	22.54	20.51	19.09	17.46	15.64	13.61

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	11.78	9.54	7.51	5.69	4.67	4.06	3.25	2.84	2.23
45.0	9.95	8.53	7.11	5.69	4.67	4.06	3.25	2.84	1.83
90.0	10.97	9.14	7.51	6.29	5.28	4.47	3.86	3.05	2.64
135.0	11.37	9.95	8.12	6.50	5.08	4.47	3.66	3.05	2.64
180.0	12.59	10.76	8.33	6.90	5.08	4.67	3.66	3.05	2.64
225.0	10.97	9.34	8.12	6.29	5.28	4.26	3.66	2.84	2.64
270.0	10.97	8.94	7.72	6.30	5.28	4.67	4.06	3.45	2.64
315.0	10.56	8.73	7.31	5.69	4.87	3.86	3.25	2.64	1.83
360.0	11.78	9.54	7.51	5.69	4.67	4.06	3.25	2.84	2.23

C/γ(°)	180.0
0.0	1.83
45.0	2.03
90.0	2.44
135.0	2.03
180.0	1.83
225.0	2.03
270.0	2.44
315.0	2.03
360.0	1.83