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NATA

Client:
LumCAT:2-1120-A3
Luminaire: 92.76.365.00

Report No: NT2017122301	Voltage(V): 220.3000
Test No: GC2017122301	Current(A): 0.1490
LampCAT: PrevaLED Core G7 L15-H1	Power (W): 31.8800
Lamp flux(lm): 3636.0	PF: 0.9670
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3301.24, Efficiency(%): 90.79% , Luminous Efficacy(lm/W): 103.55
Central intensity(cd): 17732.480, Maximum intensity(cd): 17732.480
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.8
[C90/270]Total=17.8
Field angle(10%Imax): [C0/180]Total=39.4
[C90/270]Total=39.4
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.590%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	17732.480	4.242	4.242	.117%	.129%
1.0	17650.695	33.781	38.023	.929%	1.152%
2.0	17389.096	66.550	104.573	1.830%	3.168%
3.0	16904.182	97.017	201.59	2.668%	6.106%
4.0	16206.391	123.972	325.561	3.410%	9.862%
5.0	15077.050	144.100	469.661	3.963%	14.227%
6.0	13702.931	157.072	626.734	4.320%	18.985%
7.0	11780.533	157.439	784.172	4.330%	23.754%
8.0	10017.415	152.884	937.057	4.205%	28.385%
9.0	8698.806	149.226	1086.282	4.104%	32.905%
10.0	7208.098	137.260	1223.542	3.775%	37.063%
11.0	5890.591	123.256	1346.798	3.390%	40.797%
12.0	4728.130	107.800	1454.599	2.965%	44.062%
13.0	3930.514	96.959	1551.558	2.667%	46.999%
14.0	3297.340	87.476	1639.034	2.406%	49.649%
15.0	2841.022	80.635	1719.669	2.218%	52.092%
16.0	2474.609	74.799	1794.468	2.057%	54.357%
17.0	2264.170	72.593	1867.061	1.997%	56.556%
18.0	2095.888	71.024	1938.085	1.953%	58.708%
19.0	1899.463	67.815	2005.9	1.865%	60.762%
20.0	1730.369	64.900	2070.799	1.785%	62.728%
21.0	1647.597	64.749	2135.548	1.781%	64.689%
22.0	1586.345	65.167	2200.715	1.792%	66.663%
23.0	1537.041	65.859	2266.574	1.811%	68.658%
24.0	1492.204	66.557	2333.131	1.830%	70.674%
25.0	1457.169	67.532	2400.663	1.857%	72.720%
26.0	1422.889	68.401	2469.064	1.881%	74.792%
27.0	1388.840	69.143	2538.207	1.902%	76.886%
28.0	1353.516	69.683	2607.89	1.916%	78.997%
29.0	1313.087	69.810	2677.7	1.920%	81.112%
30.0	1271.788	69.733	2747.433	1.918%	83.224%
31.0	1231.243	69.540	2816.973	1.913%	85.331%
32.0	1179.329	68.532	2885.505	1.885%	87.407%
33.0	1074.005	64.146	2949.651	1.764%	89.350%
34.0	968.710	59.403	3009.054	1.634%	91.149%
35.0	888.572	55.890	3064.944	1.537%	92.842%
36.0	779.988	50.276	3115.219	1.383%	94.365%
37.0	660.499	43.590	3158.809	1.199%	95.686%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	538.656	36.367	3195.176	1.000%	96.787%
39.0	419.330	28.939	3224.115	.796%	97.664%
40.0	313.379	22.090	3246.205	.608%	98.333%
41.0	227.951	16.400	3262.604	.451%	98.830%
42.0	171.321	12.571	3275.175	.346%	99.210%
43.0	94.251	7.049	3282.224	.194%	99.424%
44.0	26.421	2.013	3284.237	.055%	99.485%
45.0	15.986	1.240	3285.477	.034%	99.522%
46.0	12.471	0.984	3286.46	.027%	99.552%
47.0	9.681	0.776	3287.237	.021%	99.576%
48.0	7.030	0.573	3287.81	.016%	99.593%
49.0	5.191	0.430	3288.239	.012%	99.606%
50.0	4.501	0.378	3288.617	.010%	99.618%
51.0	4.194	0.357	3288.975	.010%	99.628%
52.0	4.008	0.346	3289.321	.010%	99.639%
53.0	3.817	0.334	3289.655	.009%	99.649%
54.0	3.683	0.327	3289.982	.009%	99.659%
55.0	3.538	0.318	3290.3	.009%	99.669%
56.0	3.434	0.312	3290.612	.009%	99.678%
57.0	3.312	0.305	3290.917	.008%	99.687%
58.0	3.208	0.298	3291.215	.008%	99.696%
59.0	3.121	0.293	3291.508	.008%	99.705%
60.0	3.057	0.290	3291.799	.008%	99.714%
61.0	3.010	0.289	3292.087	.008%	99.723%
62.0	2.981	0.289	3292.376	.008%	99.731%
63.0	2.970	0.290	3292.666	.008%	99.740%
64.0	2.952	0.291	3292.957	.008%	99.749%
65.0	2.929	0.291	3293.248	.008%	99.758%
66.0	2.918	0.292	3293.541	.008%	99.767%
67.0	2.865	0.289	3293.83	.008%	99.775%
68.0	2.860	0.291	3294.121	.008%	99.784%
69.0	2.831	0.290	3294.411	.008%	99.793%
70.0	2.813	0.290	3294.7	.008%	99.802%
71.0	2.796	0.290	3294.99	.008%	99.811%
72.0	2.773	0.289	3295.279	.008%	99.819%
73.0	2.755	0.289	3295.568	.008%	99.828%
74.0	2.738	0.289	3295.857	.008%	99.837%
75.0	2.773	0.294	3296.151	.008%	99.846%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.906	0.309	3296.46	.009%	99.855%
77.0	3.115	0.333	3296.793	.009%	99.865%
78.0	3.347	0.359	3297.152	.010%	99.876%
79.0	3.840	0.413	3297.565	.011%	99.889%
80.0	4.379	0.473	3298.038	.013%	99.903%
81.0	4.872	0.528	3298.566	.015%	99.919%
82.0	5.110	0.555	3299.121	.015%	99.936%
83.0	4.542	0.494	3299.615	.014%	99.951%
84.0	3.022	0.330	3299.945	.009%	99.961%
85.0	2.413	0.264	3300.208	.007%	99.969%
86.0	2.274	0.249	3300.457	.007%	99.976%
87.0	2.164	0.237	3300.694	.007%	99.983%
88.0	2.048	0.224	3300.918	.006%	99.990%
89.0	1.990	0.218	3301.136	.006%	99.997%
90.0	1.914	0.105	3301.241	.003%	100.000%

Zonal flux distribution table

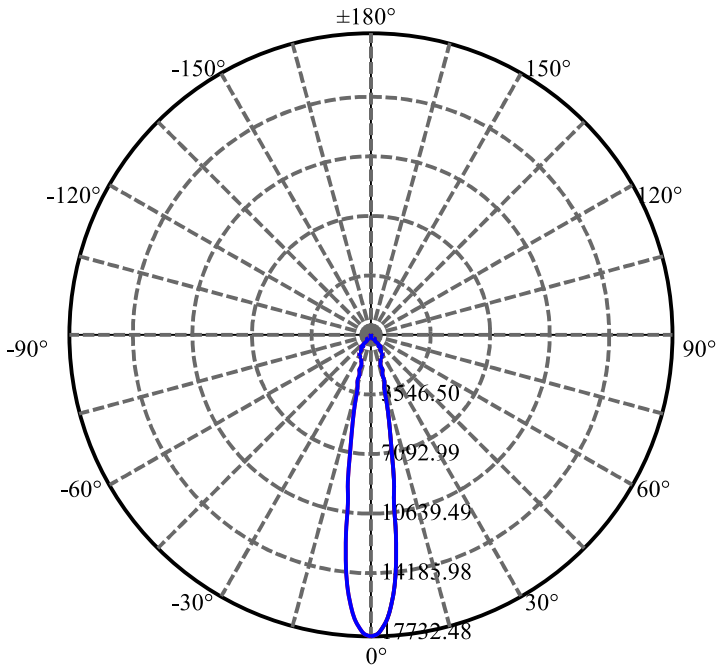
ZONAL LUMEN SUMMARY

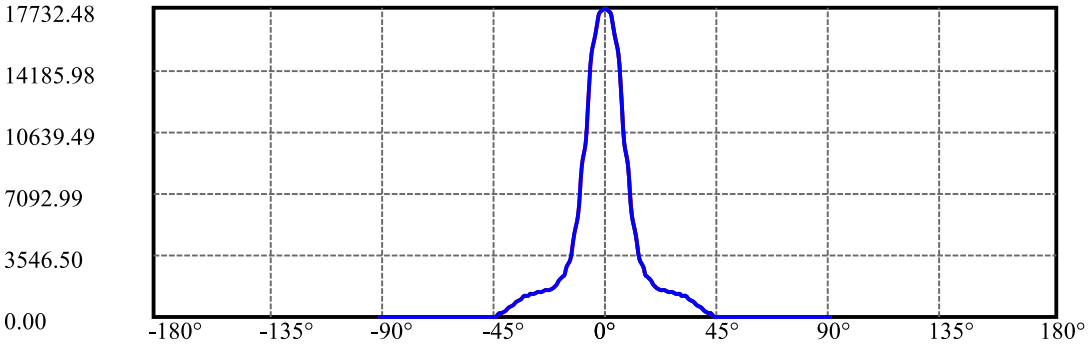
Zone	Lumens	%Lamp	%Fixt
0-30	2747.43	75.56%	83.22%
0-40	3246.20	89.28%	98.33%
0-60	3291.80	90.53%	99.71%
0-90	3301.14	90.79%	100.00%
0-120	3301.14	90.79%	100.00%
0-180	3301.24	90.79%	100.00%
60-90	9.63	0.26%	0.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.47	2640.99	72.63%	80.00%

ZONAL LUMEN SUMMARY

0-10	1223.54
10-20	847.26
20-30	676.63
30-40	498.77
40-50	42.41
50-60	3.18
60-70	2.90
70-80	3.34
80-90	3.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C0(Max):

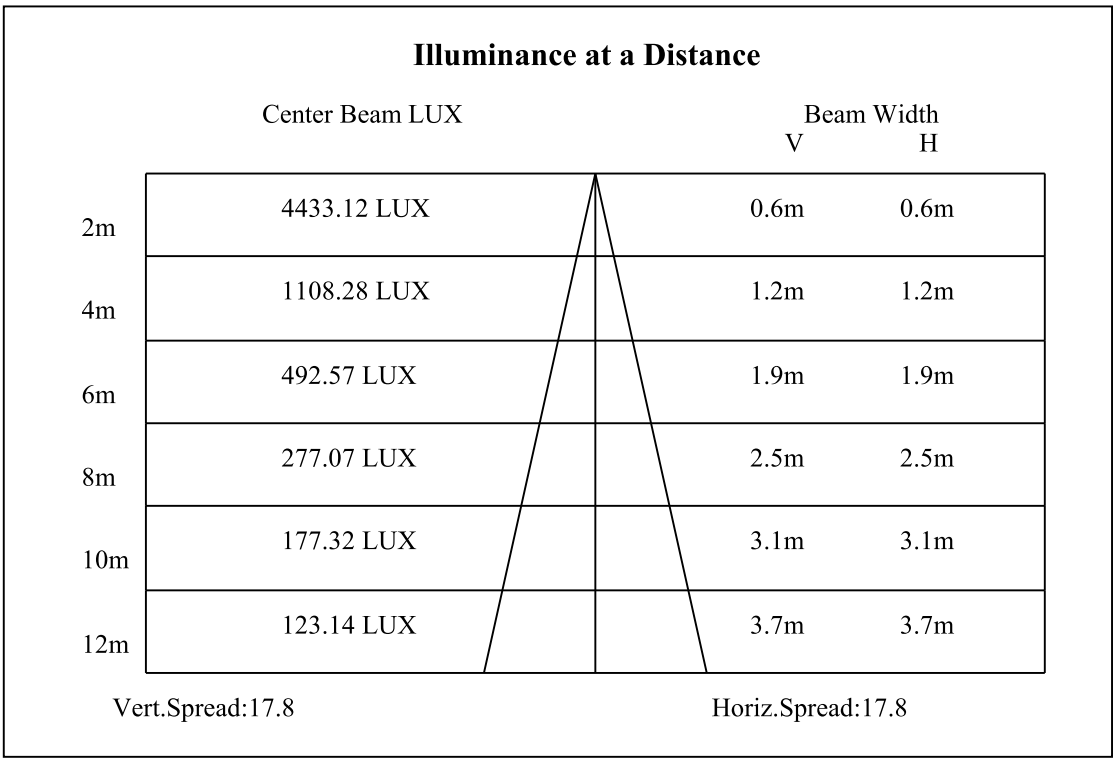
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:19.7 Right:19.7
:C90/270Left:19.7 Right:19.7

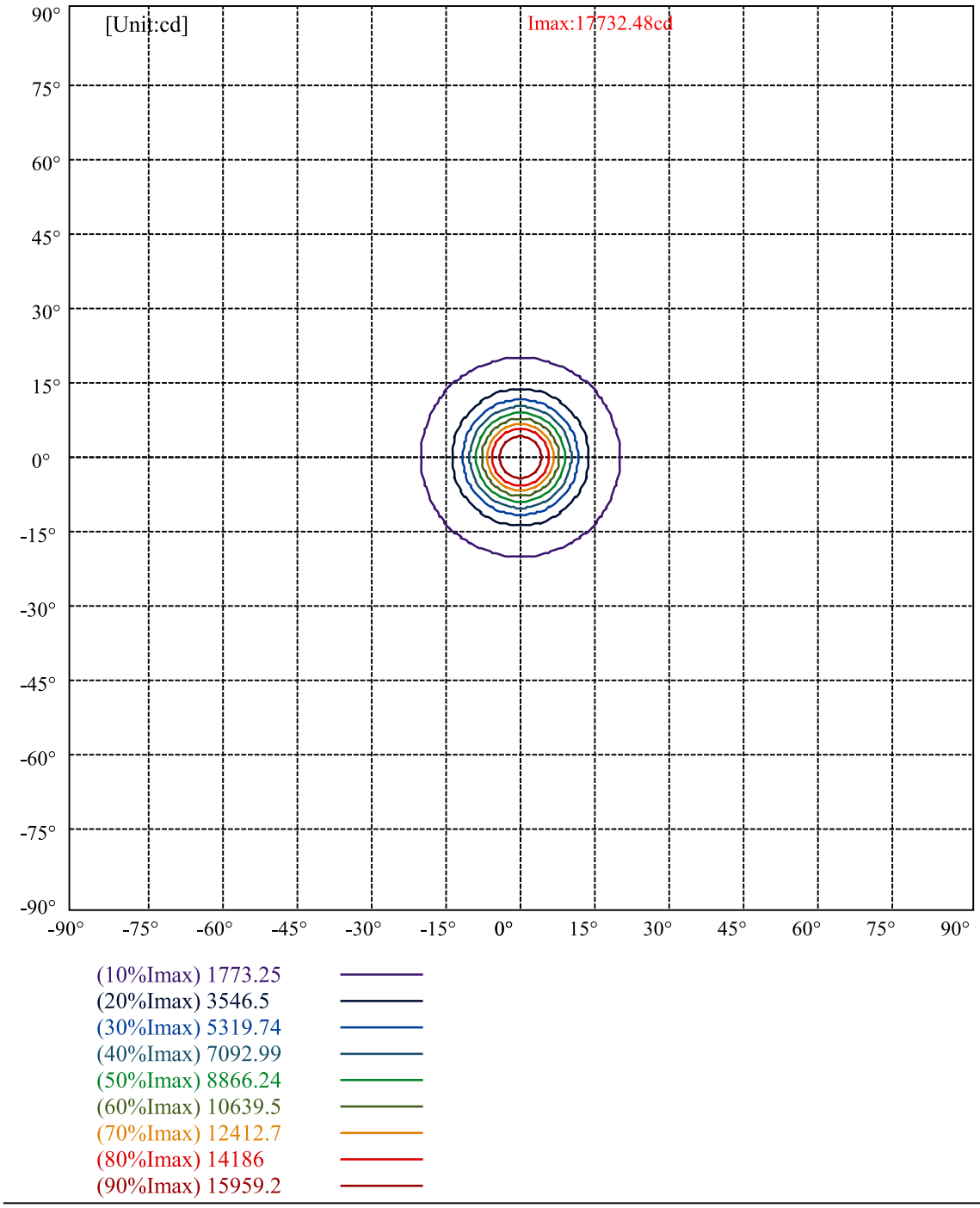
Beam Angle(50%Imax):C0/180Left:8.9 Right:8.9
:C90/270Left:8.9 Right:8.9

Lux distance Curve



Equipment: GMS 1800 Date: 2017/12/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 6.81

ISO-Intensity(V-H)



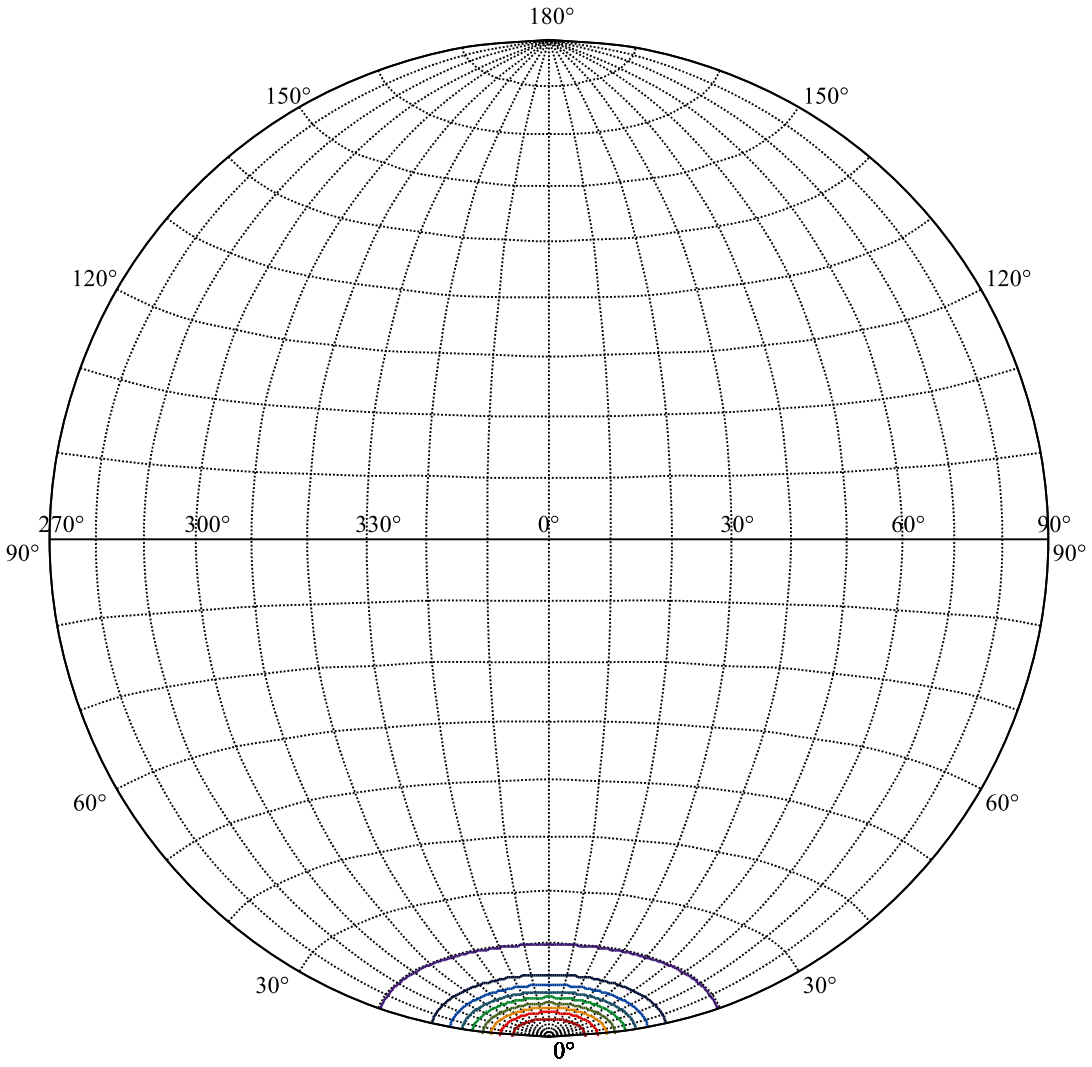
(10%Imax) 1773.25
(20%Imax) 3546.5
(30%Imax) 5319.74
(40%Imax) 7092.99
(50%Imax) 8866.24
(60%Imax) 10639.5
(70%Imax) 12412.7
(80%Imax) 14186
(90%Imax) 15959.2

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2017/12/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 6.81

ISO candela diagram on circular web

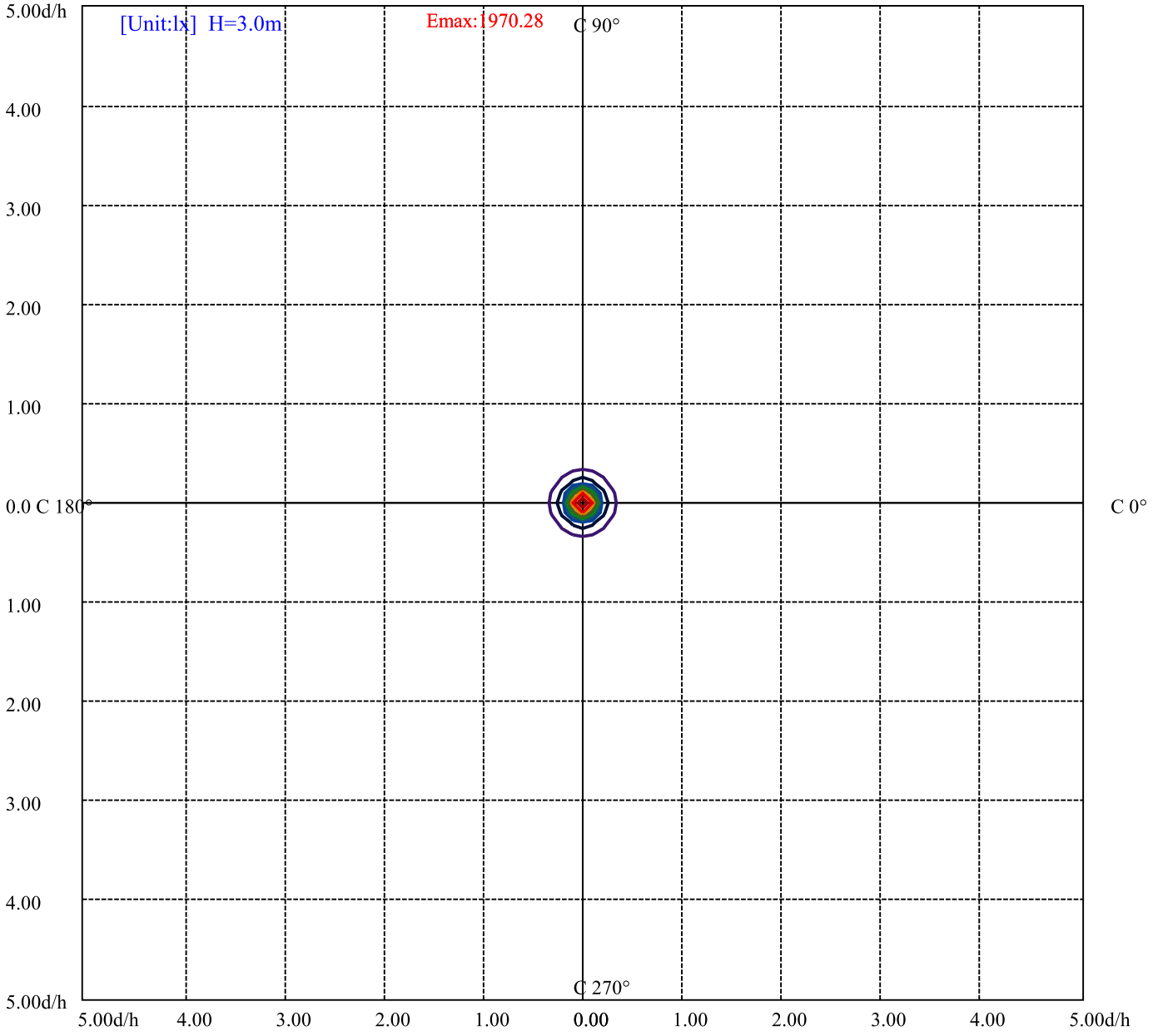


House [Unit:cd] Road

Imax:17732.48

(10%Imax) 1773.25
(20%Imax) 3546.5
(30%Imax) 5319.74
(40%Imax) 7092.99
(50%Imax) 8866.24
(60%Imax) 10639.5
(70%Imax) 12412.7
(80%Imax) 14186
(90%Imax) 15959.2

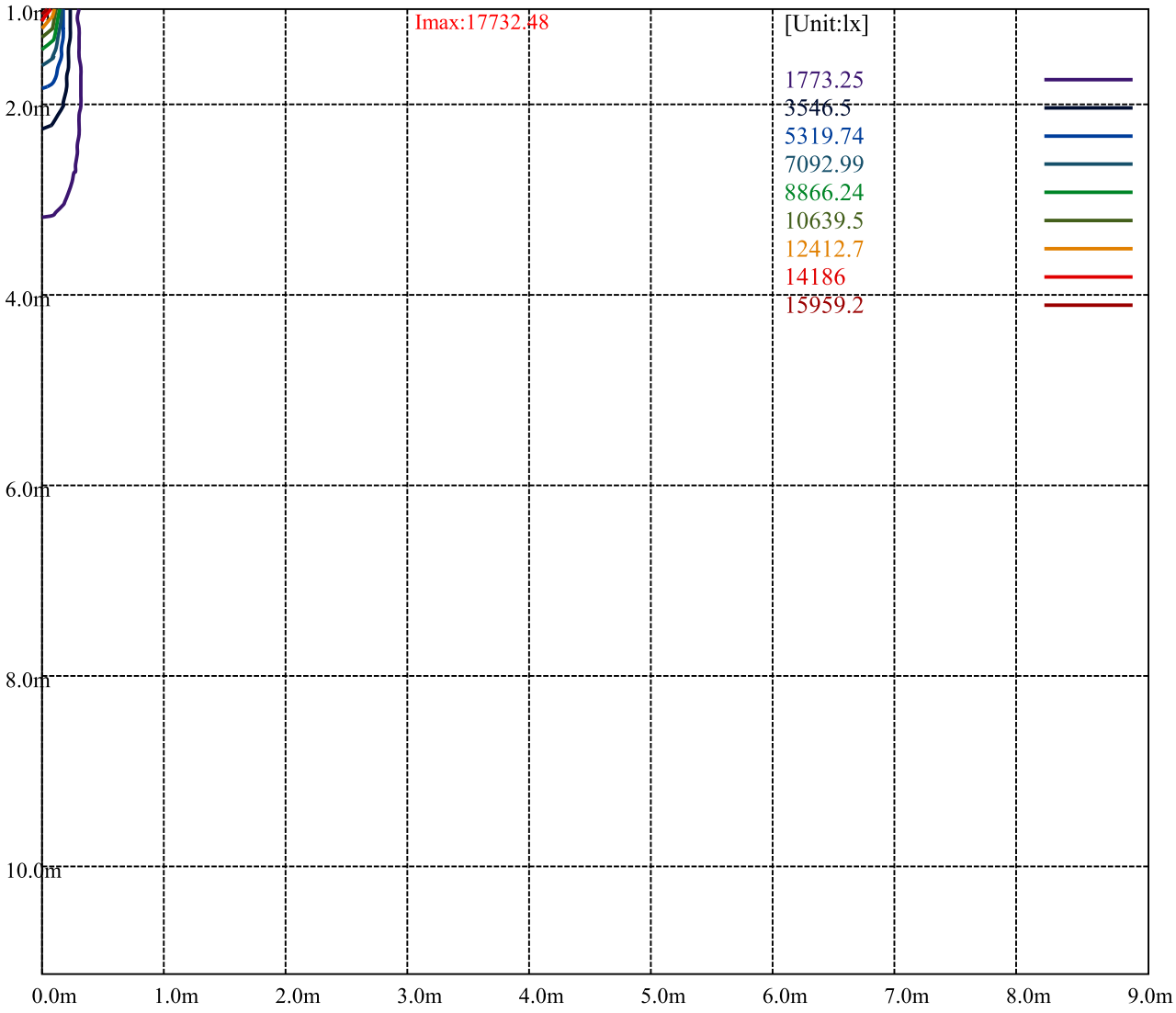
ISO illuminance diagram



(10%Emax) 197.0278
(20%Emax) 394.0544
(30%Emax) 591.0823
(40%Emax) 788.11
(50%Emax) 985.1367
(60%Emax) 1182.167
(70%Emax) 1379.189
(80%Emax) 1576.222
(90%Emax) 1773.245

Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2017/12/22
Humidity(%): 60.0%
Operator: NT07
Distance(m): 6.81

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2017/12/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 6.81

Luminance Limitting Curve(no luminous side)

Luminance Table

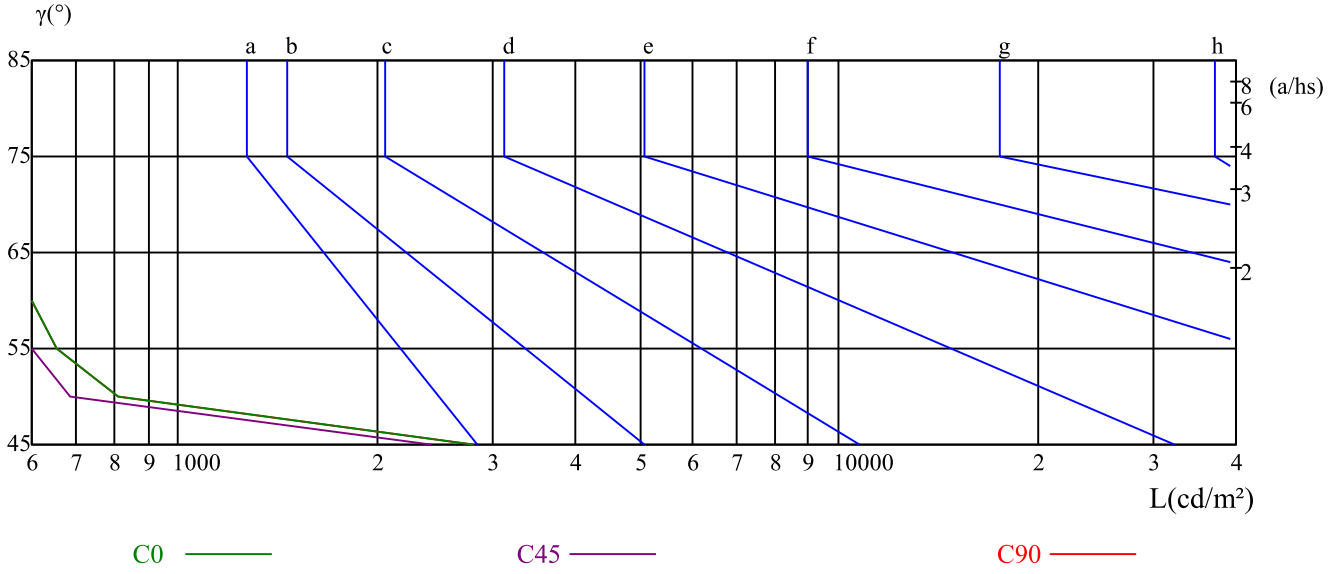
γ	45	50	55	60	65	70	75	80	85
C0	2808	809	656	590	595	607	643	1108	677
C45	2417	686	548	485	480	480	498	836	496
C90	2808	809	656	590	595	607	643	1108	677

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1415	1415	1415	2186	2186	2186	5650	5650	5650

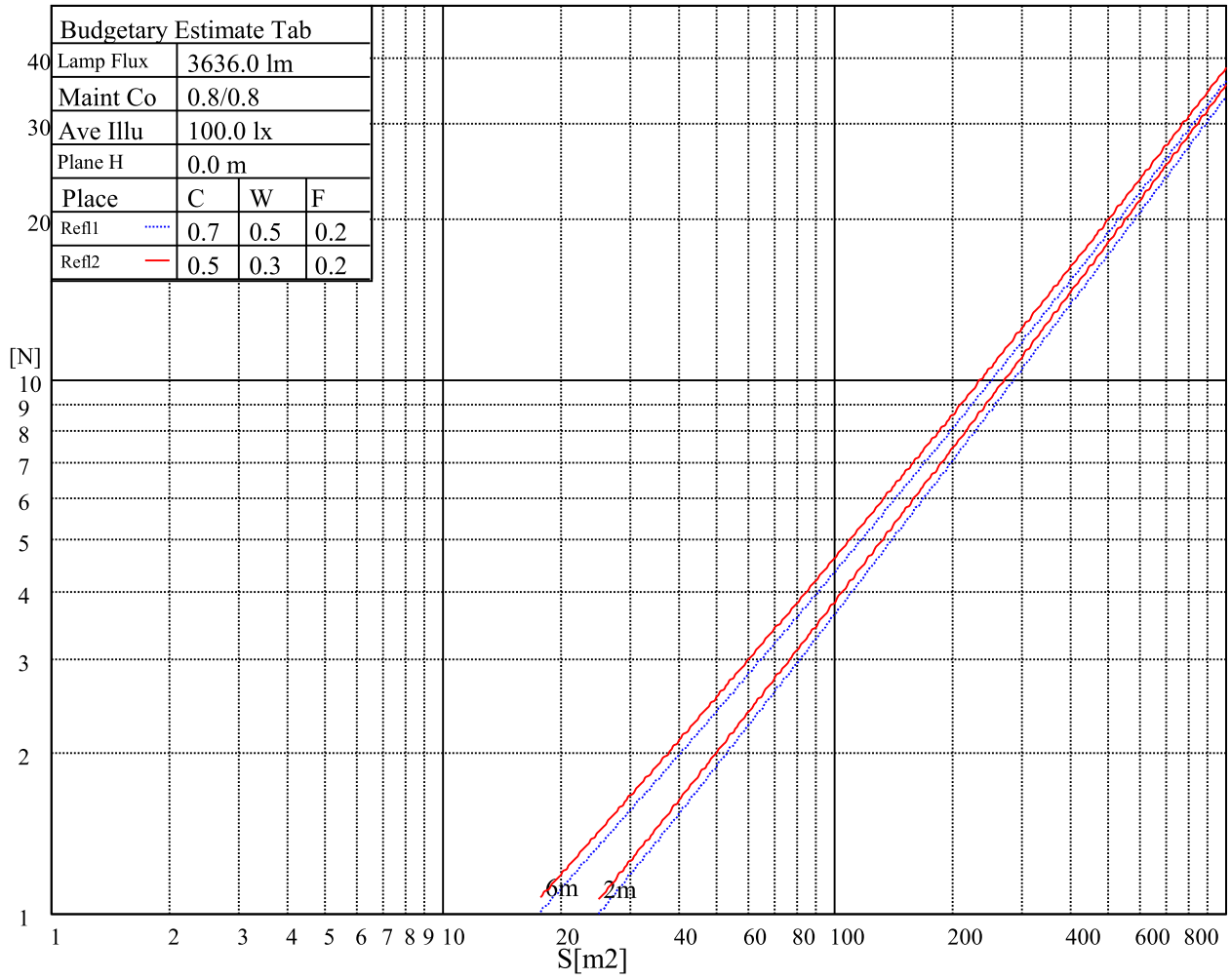
Glare Table

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
		a	b	c	d	e	f	g	h

Luminance Limitting Curve



Budgetary Estimate Table

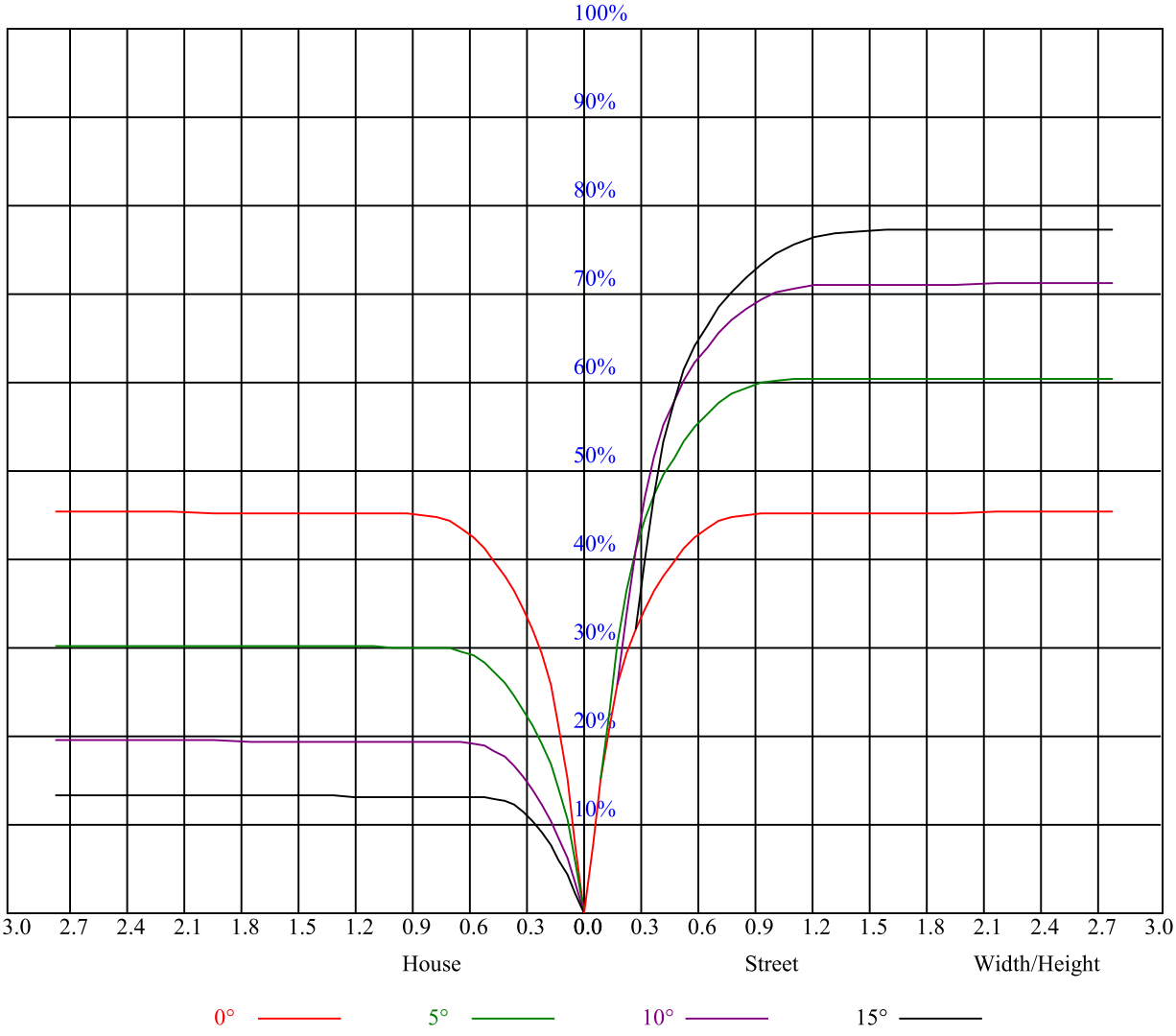


Equipment: GMS 1800 Date: 2017/12/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 6.81

Utilization factor table for indoor luminaire

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.97	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.85	0.83
3	0.92	0.88	0.85	0.91	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.81	0.78	0.82	0.79	0.78	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.71
7	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62

Coefficient Utilization Curve

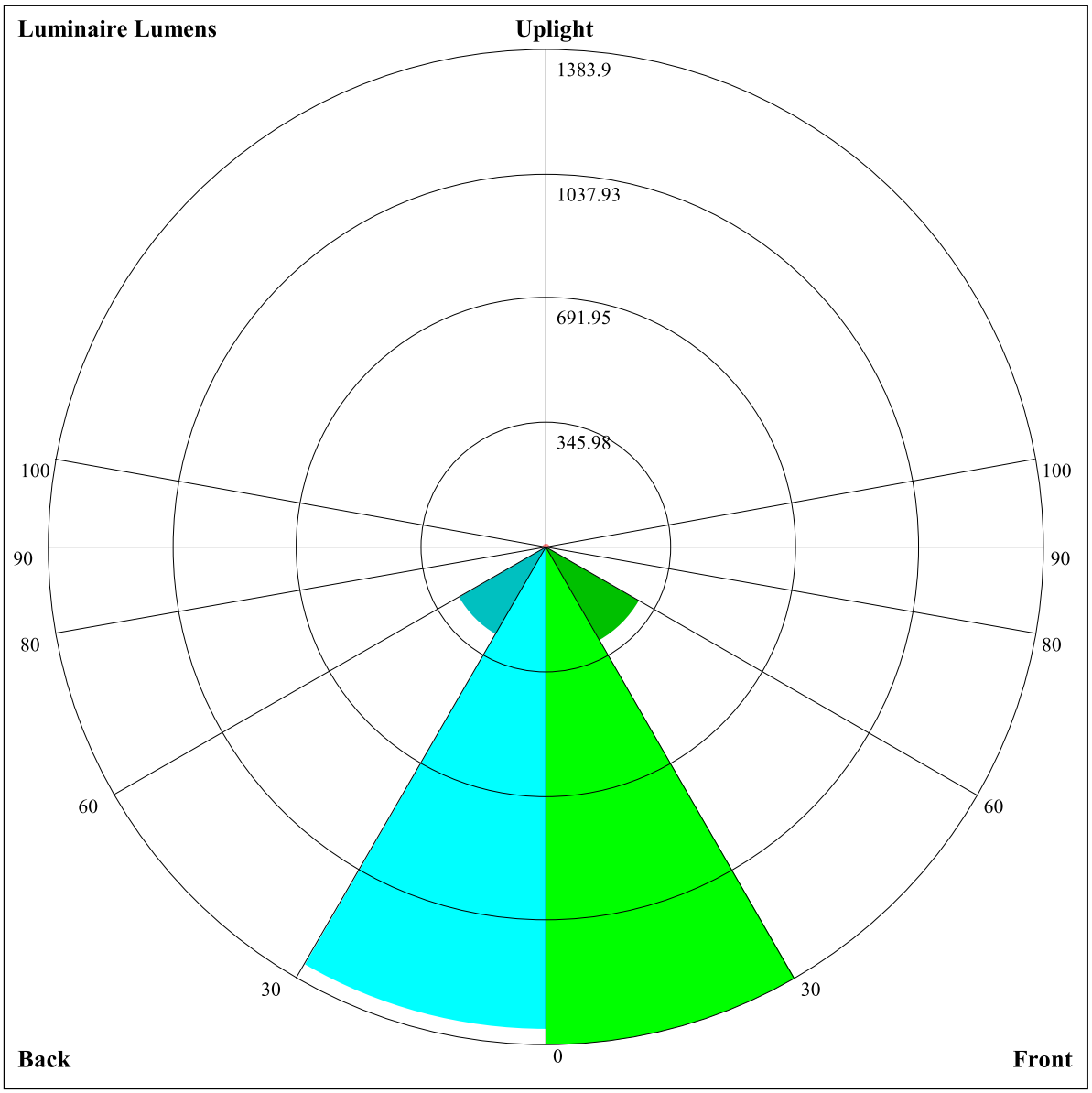


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2017/12/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 6.81

LCS Graph



Luminaire Lumens:

FL=1383.9,FM=301.31,FH=2.77,FVH=1.42

BL=1340.5,BM=282.57,BH=3.35,BVH=1.92

UL=2.09,UH=9.94

BUG Rating:B3-U1-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	17800.93	17796.29	17536.43	17067.75	16325.30	15276.58	13995.85	12432.06	8894.64
45.0	17731.32	17749.88	17633.87	17262.65	16701.17	15800.94	14603.74	13174.51	11564.32
90.0	17671.00	17364.73	16840.38	16000.48	14858.95	13434.37	10993.56	9010.18	9010.18
135.0	17726.68	17647.79	17466.82	16840.38	16385.62	15387.95	14046.90	12450.62	10761.54
180.0	17800.93	17684.92	17374.02	16831.10	16162.89	15058.49	13610.70	11977.31	10237.18
225.0	17731.32	17480.74	17109.52	16733.65	15842.70	14005.13	13072.43	8864.48	8864.48
270.0	17671.00	17763.80	17689.56	17462.18	17067.75	16380.98	15322.99	13958.73	12339.25
315.0	17726.68	17717.40	17462.18	17035.27	16306.74	15271.94	13977.29	12376.38	8467.73
360.0	17800.93	17796.29	17536.43	17067.75	16325.30	15276.58	13995.85	12432.06	8894.64

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8894.64	7271.45	6395.36	4754.53	3918.34	3310.00	3018.12	2622.30	2311.40
45.0	9847.39	8153.67	6603.80	5341.63	4385.72	3647.91	3095.71	2673.44	2478.54
90.0	6755.45	5941.07	4831.56	3976.35	3329.49	2855.24	2496.55	2223.69	2016.74
135.0	9035.33	7369.45	5944.87	4821.91	3977.37	3346.28	2863.69	2497.10	2376.45
180.0	8515.62	6900.78	5550.44	4520.29	3731.43	3128.19	2668.80	2334.69	2334.69
225.0	7489.08	5997.68	4839.92	3980.06	3334.59	2829.72	2447.36	2169.87	1966.62
270.0	10585.21	9165.26	7457.62	5981.99	4812.63	3958.81	3327.72	2835.85	2464.62
315.0	8467.73	6865.42	5501.16	4448.27	3954.54	3302.57	2810.23	2439.93	2164.30
360.0	8894.64	7271.45	6395.36	4754.53	3918.34	3310.00	3018.12	2622.30	2311.40

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2075.20	1904.90	1780.08	1684.02	1610.24	1553.17	1507.23	1467.78	1433.45
45.0	2362.53	2101.65	1831.12	1723.47	1641.80	1576.37	1524.86	1482.17	1444.58
90.0	1862.68	1746.67	1659.89	1592.61	1538.78	1494.23	1456.18	1421.38	1387.04
135.0	2320.77	1852.47	1732.75	1644.58	1591.68	1539.25	1497.02	1458.97	1425.09
180.0	1909.54	1778.69	1683.10	1610.71	1575.90	1528.57	1488.67	1452.94	1418.60
225.0	1873.81	1709.08	1629.73	1592.61	1542.49	1500.73	1465.00	1431.59	1397.72
270.0	2399.66	2288.29	1822.31	1710.01	1628.80	1590.75	1525.32	1502.12	1467.32
315.0	1962.91	1813.95	1703.98	1622.77	1561.05	1513.26	1473.35	1440.41	1409.32
360.0	2075.20	1904.90	1780.08	1684.02	1610.24	1553.17	1507.23	1467.78	1433.45

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1400.04	1365.23	1326.72	1292.84	1246.44	1207.46	1156.88	885.70	885.70
45.0	1410.71	1376.37	1341.57	1299.34	1259.90	1220.92	1171.27	1116.97	969.88
90.0	1351.78	1317.90	1275.67	1229.27	1197.25	1118.83	859.48	859.48	786.07
135.0	1392.15	1356.42	1314.65	1269.64	1228.81	1186.12	1101.66	1000.97	886.35
180.0	1382.40	1345.28	1303.05	1260.36	1221.38	1175.44	1082.64	976.84	865.93
225.0	1361.52	1323.01	1277.53	1237.16	1193.54	1112.33	902.64	902.64	807.33
270.0	1435.30	1402.36	1367.55	1328.11	1284.03	1241.80	1197.25	1114.19	1014.42
315.0	1376.83	1341.57	1297.95	1257.58	1218.60	1171.73	1120.22	892.89	892.89
360.0	1400.04	1365.23	1326.72	1292.84	1246.44	1207.46	1156.88	885.70	885.70

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	833.64	712.71	589.42	464.92	346.08	236.01	140.00	64.73	24.36
45.0	902.13	779.16	658.51	538.33	417.68	304.45	257.58	237.17	42.23
90.0	666.21	542.04	420.00	308.63	244.87	114.34	46.77	25.85	14.43
135.0	763.38	640.41	518.84	399.58	291.92	267.33	267.33	59.26	22.46
180.0	744.36	620.92	495.17	378.70	272.43	272.43	231.60	41.44	19.54
225.0	660.92	563.94	445.05	330.48	225.52	133.60	61.86	22.69	16.89
270.0	897.49	776.37	655.73	532.29	416.28	306.77	264.08	264.08	52.62
315.0	771.78	648.44	526.54	401.71	292.25	188.68	101.34	38.79	18.84
360.0	833.64	712.71	589.42	464.92	346.08	236.01	140.00	64.73	24.36

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	17.08	13.22	11.28	7.52	5.06	4.55	4.08	3.94	3.81
45.0	19.49	15.03	11.46	8.63	5.94	4.78	4.50	4.32	4.04
90.0	10.95	9.33	7.15	4.87	4.73	4.45	4.27	4.08	3.90
135.0	15.82	12.20	9.42	7.15	5.06	4.50	4.27	4.08	3.94
180.0	15.50	12.06	9.23	6.82	4.83	4.41	4.13	3.99	3.85
225.0	13.22	10.26	7.80	5.66	4.36	4.04	3.85	3.71	3.57
270.0	21.07	16.29	12.48	9.42	6.91	5.06	4.41	3.99	3.85
315.0	14.76	11.37	8.63	6.17	4.64	4.22	4.04	3.94	3.57
360.0	17.08	13.22	11.28	7.52	5.06	4.55	4.08	3.94	3.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.67	3.48	3.39	3.25	3.11	3.02	2.92	2.83	2.83
45.0	3.81	3.71	3.53	3.43	3.29	3.16	3.06	2.97	2.88
90.0	3.76	3.57	3.48	3.39	3.29	3.20	3.11	3.11	3.06
135.0	3.85	3.71	3.62	3.48	3.39	3.29	3.25	3.20	3.20
180.0	3.71	3.53	3.48	3.39	3.34	3.25	3.25	3.25	3.29
225.0	3.48	3.39	3.29	3.16	3.11	3.06	3.06	3.06	3.06
270.0	3.71	3.62	3.43	3.29	3.16	3.11	2.97	2.92	2.83
315.0	3.48	3.29	3.25	3.11	2.97	2.88	2.83	2.74	2.69
360.0	3.67	3.48	3.39	3.25	3.11	3.02	2.92	2.83	2.83

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.78	2.74	2.74	2.69	2.60	2.60	2.55	2.55	2.46
45.0	2.88	2.83	2.78	2.78	2.74	2.74	2.64	2.64	2.64
90.0	3.02	2.97	2.92	2.88	2.83	2.83	2.78	2.78	2.78
135.0	3.20	3.20	3.20	3.20	3.16	3.11	3.11	3.06	3.02
180.0	3.29	3.29	3.29	3.34	3.29	3.29	3.29	3.29	3.29
225.0	3.06	3.06	3.06	3.02	3.02	3.02	3.02	2.97	2.97
270.0	2.88	2.88	2.83	2.78	2.74	2.74	2.69	2.64	2.69
315.0	2.64	2.64	2.60	2.64	2.55	2.55	2.55	2.55	2.51
360.0	2.78	2.74	2.74	2.69	2.60	2.60	2.55	2.55	2.46

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.41	2.41	2.37	2.37	2.32	2.32	2.23	2.23	2.32
45.0	2.64	2.60	2.55	2.60	2.60	2.55	2.51	2.46	2.46
90.0	2.74	2.74	2.78	2.74	2.69	2.64	3.02	4.45	5.52
135.0	2.97	2.92	2.92	2.97	3.39	3.94	5.01	5.06	5.75
180.0	3.25	3.25	3.20	3.48	4.27	5.57	6.08	7.47	9.19
225.0	2.97	2.97	2.92	2.92	2.88	2.88	3.02	4.18	4.97
270.0	2.69	2.64	2.64	2.64	2.64	2.60	2.55	2.55	2.46
315.0	2.51	2.51	2.51	2.46	2.46	2.41	2.37	2.32	2.37
360.0	2.41	2.41	2.37	2.37	2.32	2.32	2.23	2.23	2.32

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.78	3.81	4.13	2.51	2.23	2.13	2.00	1.90	1.81
45.0	2.46	2.74	3.39	3.11	2.46	2.27	2.09	1.95	1.86
90.0	6.08	6.13	3.99	2.55	2.32	2.18	1.95	1.86	1.86
135.0	6.77	6.68	7.01	4.87	2.64	2.46	2.37	2.18	2.09
180.0	9.98	10.44	7.52	3.48	2.88	2.64	2.64	2.41	2.23
225.0	5.99	5.34	3.11	2.46	2.32	2.23	2.18	2.23	2.23
270.0	2.41	2.55	3.67	2.97	2.23	2.09	2.04	2.00	2.04
315.0	2.51	3.20	3.53	2.23	2.23	2.18	2.04	1.86	1.81
360.0	2.78	3.81	4.13	2.51	2.23	2.13	2.00	1.90	1.81

Intensity data(cd)

C/γ(°)	90.0
0.0	1.76
45.0	1.81
90.0	1.81
135.0	2.00
180.0	2.09
225.0	2.09
270.0	2.00
315.0	1.76
360.0	1.76