NATA LIGHTING CO.,LTD.
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Tel:+86 571 85021543 Fax:+86 571 87977635
Address:Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,ChinaNata

Nata

Client: NT
LumCAT: 62-0106
Luminaire: 92.70.427.00
Report No:
Ballast type: DC
Test No: 20251028-C0005
LampCAT: CITIZEN CLU028
Lamp flux(lm): 1736.0
Number of Lamps: 1
Length(mm): 55
Phm Type: C

Voltage(V): 35.200
Current(A): 0.365
Power (W): 12.840
PF: 0.000
Width(mm): 55
Height(mm): 25

Photometric Results

Lumens(lm): 1597.21, Efficiency(%): 92.01% , Luminous Efficacy(lm/W): 124.39
Central intensity(cd): 1634.871, Maximum intensity(cd): 1635.474
Angle of maximum intensity: C=45.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=57.6
[C90/270]Total=57.5
Field angle(10%Imax): [C0/180]Total=90.0
[C90/270]Total=91.1
Maximum s/h(1/2): C0_180=0.90 C90_270=0.89
Maximum s/h(1/4): C0_180=0.86 C90_270=0.87
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.97%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.064%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1631.255	0.000	0	0.00%	0.00%
1.0	1629.565	1.560	1.56	0.09%	0.10%
2.0	1627.745	4.675	6.235	0.27%	0.39%
3.0	1621.459	7.771	14.006	0.45%	0.88%
4.0	1614.806	10.833	24.839	0.62%	1.56%
5.0	1606.065	13.856	38.695	0.80%	2.42%
6.0	1596.603	16.831	55.526	0.97%	3.48%
7.0	1584.471	19.745	75.271	1.14%	4.71%
8.0	1569.120	22.570	97.841	1.30%	6.13%
9.0	1555.654	25.325	123.165	1.46%	7.71%
10.0	1538.441	28.000	151.166	1.61%	9.46%
11.0	1518.257	30.543	181.708	1.76%	11.38%
12.0	1498.234	32.975	214.683	1.90%	13.44%
13.0	1476.565	35.303	249.986	2.03%	15.65%
14.0	1450.600	37.467	287.454	2.16%	18.00%
15.0	1426.874	39.503	326.957	2.28%	20.47%
16.0	1398.294	41.397	368.354	2.38%	23.06%
17.0	1371.242	43.129	411.483	2.48%	25.76%
18.0	1339.507	44.694	456.177	2.57%	28.56%
19.0	1303.919	45.990	502.167	2.65%	31.44%
20.0	1267.760	47.069	549.236	2.71%	34.39%
21.0	1228.802	47.939	597.175	2.76%	37.39%
22.0	1186.335	48.533	645.708	2.80%	40.43%
23.0	1138.797	48.788	694.496	2.81%	43.48%
24.0	1088.752	48.702	743.198	2.81%	46.53%
25.0	1036.661	48.327	791.525	2.78%	49.56%
26.0	978.779	47.575	839.1	2.74%	52.54%
27.0	918.582	46.419	885.519	2.67%	55.44%
28.0	858.148	44.983	930.502	2.59%	58.26%
29.0	802.150	43.438	973.94	2.50%	60.98%
30.0	742.642	41.709	1015.65	2.40%	63.59%
31.0	685.276	39.737	1055.386	2.29%	66.08%
32.0	631.582	37.726	1093.113	2.17%	68.44%
33.0	581.073	35.725	1128.838	2.06%	70.68%
34.0	531.953	33.683	1162.522	1.94%	72.78%
35.0	484.567	31.569	1194.091	1.82%	74.76%
36.0	440.668	29.460	1223.551	1.70%	76.61%
37.0	397.232	27.328	1250.878	1.57%	78.32%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	358.888	25.238	1276.116	1.45%	79.90%
39.0	324.580	23.329	1299.445	1.34%	81.36%
40.0	291.220	21.477	1320.922	1.24%	82.70%
41.0	259.733	19.619	1340.541	1.13%	83.93%
42.0	234.468	17.955	1358.496	1.03%	85.05%
43.0	210.689	16.490	1374.986	0.95%	86.09%
44.0	188.825	15.079	1390.065	0.87%	87.03%
45.0	168.308	13.725	1403.79	0.79%	87.89%
46.0	152.064	12.529	1416.319	0.72%	88.67%
47.0	137.391	11.512	1427.831	0.66%	89.40%
48.0	123.849	10.561	1438.392	0.61%	90.06%
49.0	111.932	9.682	1448.075	0.56%	90.66%
50.0	102.083	8.923	1456.998	0.51%	91.22%
51.0	92.868	8.248	1465.246	0.48%	91.74%
52.0	84.450	7.609	1472.855	0.44%	92.21%
53.0	77.216	7.032	1479.887	0.41%	92.65%
54.0	71.091	6.537	1486.424	0.38%	93.06%
55.0	65.450	6.095	1492.519	0.35%	93.45%
56.0	60.261	5.681	1498.199	0.33%	93.80%
57.0	55.945	5.313	1503.512	0.31%	94.13%
58.0	52.209	5.001	1508.514	0.29%	94.45%
59.0	49.023	4.733	1513.247	0.27%	94.74%
60.0	46.084	4.493	1517.74	0.26%	95.02%
61.0	43.619	4.281	1522.021	0.25%	95.29%
62.0	41.606	4.107	1526.127	0.24%	95.55%
63.0	39.819	3.960	1530.087	0.23%	95.80%
64.0	38.172	3.827	1533.914	0.22%	96.04%
65.0	36.643	3.703	1537.617	0.21%	96.27%
66.0	35.244	3.587	1541.204	0.21%	96.49%
67.0	33.888	3.476	1544.68	0.20%	96.71%
68.0	32.553	3.366	1548.045	0.19%	96.92%
69.0	31.100	3.247	1551.293	0.19%	97.12%
70.0	29.689	3.122	1554.415	0.18%	97.32%
71.0	28.462	3.006	1557.42	0.17%	97.51%
72.0	27.396	2.904	1560.325	0.17%	97.69%
73.0	26.417	2.814	1563.139	0.16%	97.87%
74.0	25.459	2.727	1565.866	0.16%	98.04%
75.0	25.050	2.669	1568.535	0.15%	98.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	25.534	2.685	1571.22	0.15%	98.37%
77.0	25.717	2.732	1573.952	0.16%	98.54%
78.0	24.318	2.678	1576.631	0.15%	98.71%
79.0	22.111	2.495	1579.125	0.14%	98.87%
80.0	20.485	2.296	1581.422	0.13%	99.01%
81.0	19.517	2.163	1583.585	0.12%	99.15%
82.0	18.623	2.068	1585.653	0.12%	99.28%
83.0	17.364	1.956	1587.609	0.11%	99.40%
84.0	15.878	1.811	1589.42	0.10%	99.51%
85.0	14.403	1.653	1591.073	0.10%	99.62%
86.0	13.015	1.499	1592.572	0.09%	99.71%
87.0	11.852	1.361	1593.933	0.08%	99.79%
88.0	10.388	1.218	1595.151	0.07%	99.87%
89.0	9.225	1.075	1596.226	0.06%	99.94%
90.0	8.784	0.987	1597.213	0.06%	100.00%

Zonal flux distribution table

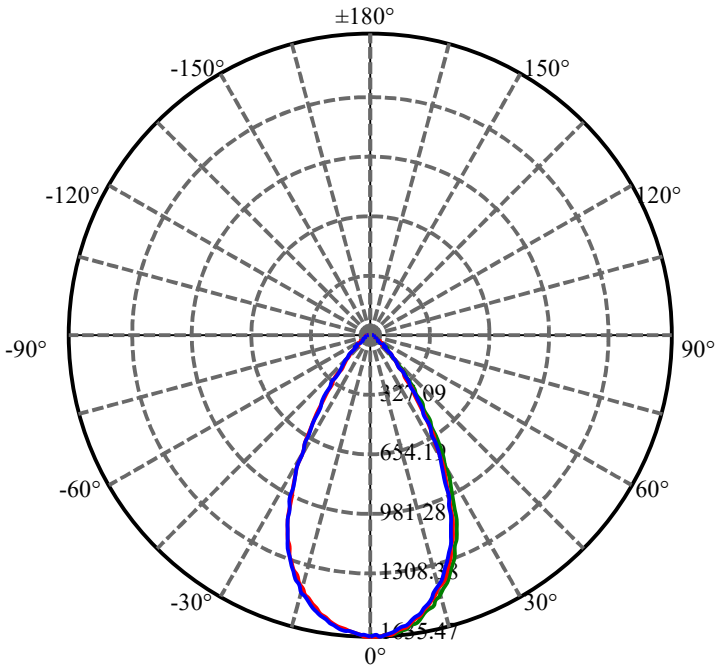
ZONAL LUMEN SUMMARY

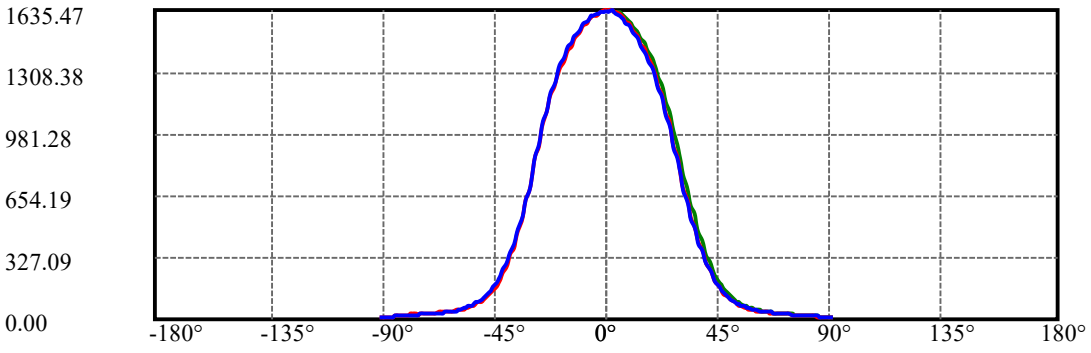
Zone	Lumens	%Lamp	%Fixt
0-30	1015.65	58.51%	63.59%
0-40	1320.92	76.09%	82.70%
0-60	1517.74	87.43%	95.02%
0-90	1596.23	91.95%	99.94%
0-120	1596.23	91.95%	99.94%
0-180	1597.21	92.01%	100.00%
60-90	78.49	4.52%	4.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-38.07	1277.77	73.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	151.17
10-20	398.07
20-30	466.41
30-40	305.27
40-50	136.08
50-60	60.74
60-70	36.67
70-80	27.01
80-90	14.80
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]





C45(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:46.5 Right:43.5

:C90/270Left:45.5 Right:45.5

Beam Angle(50%Imax):C0/180Left:30.8 Right:26.8

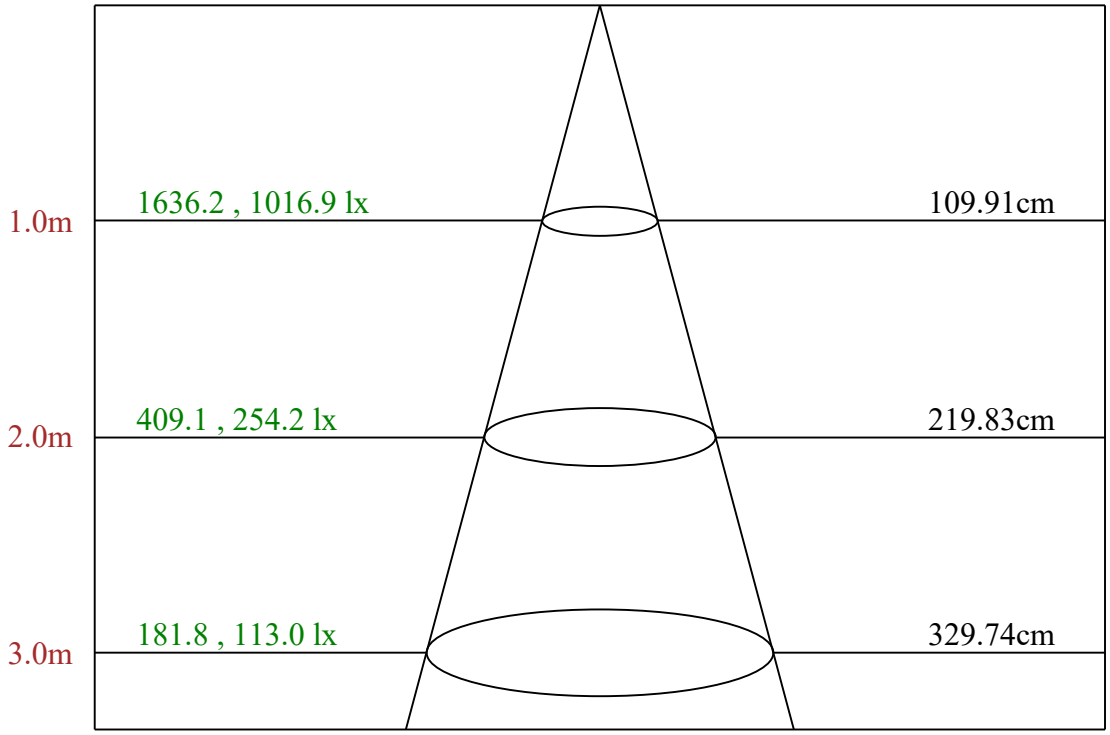
:C90/270Left:28.8 Right:28.7

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/28
Humidity(%): 60.0%

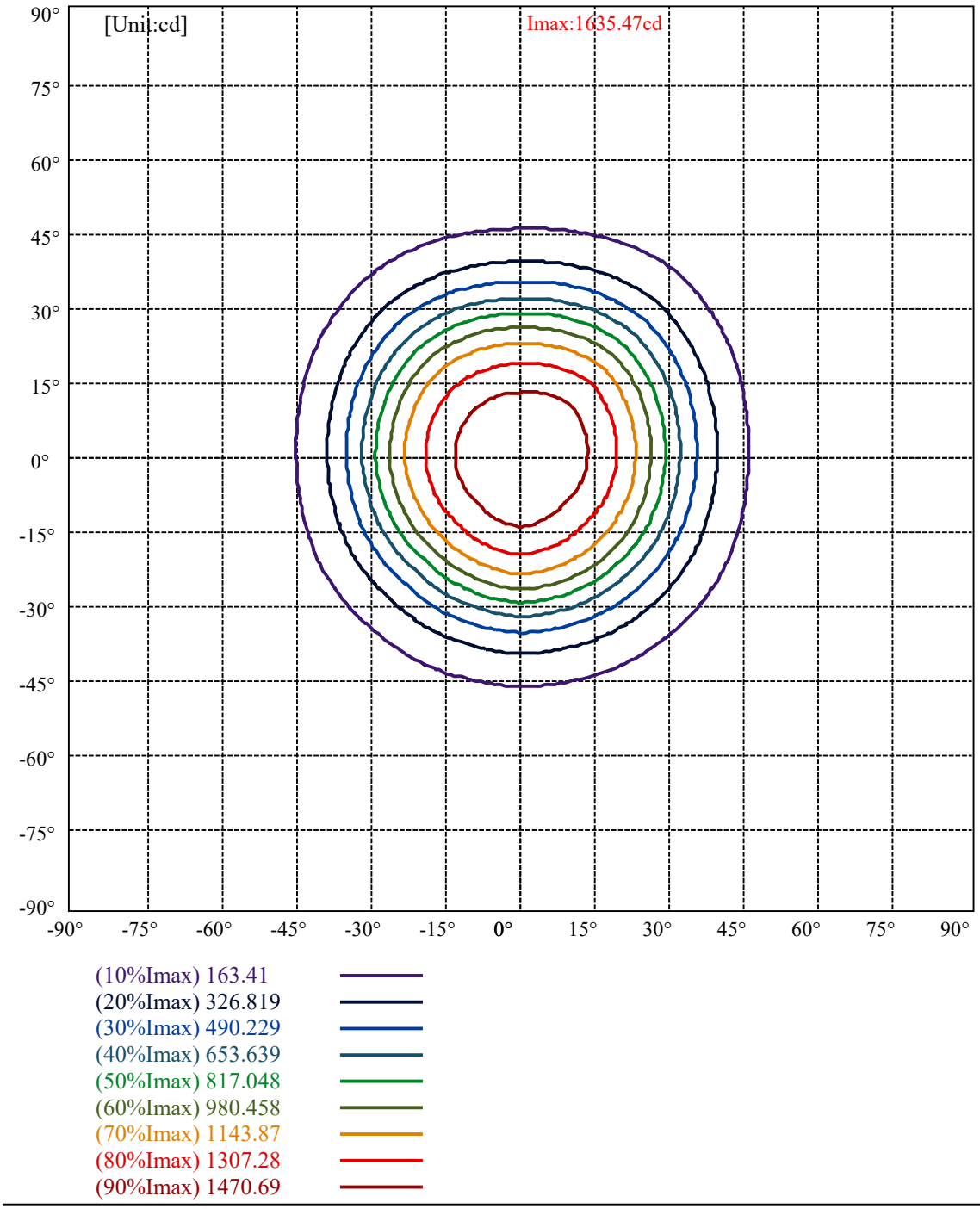
Operator: 杨泽全
Distance(m): 9.28

Lux distance Curve



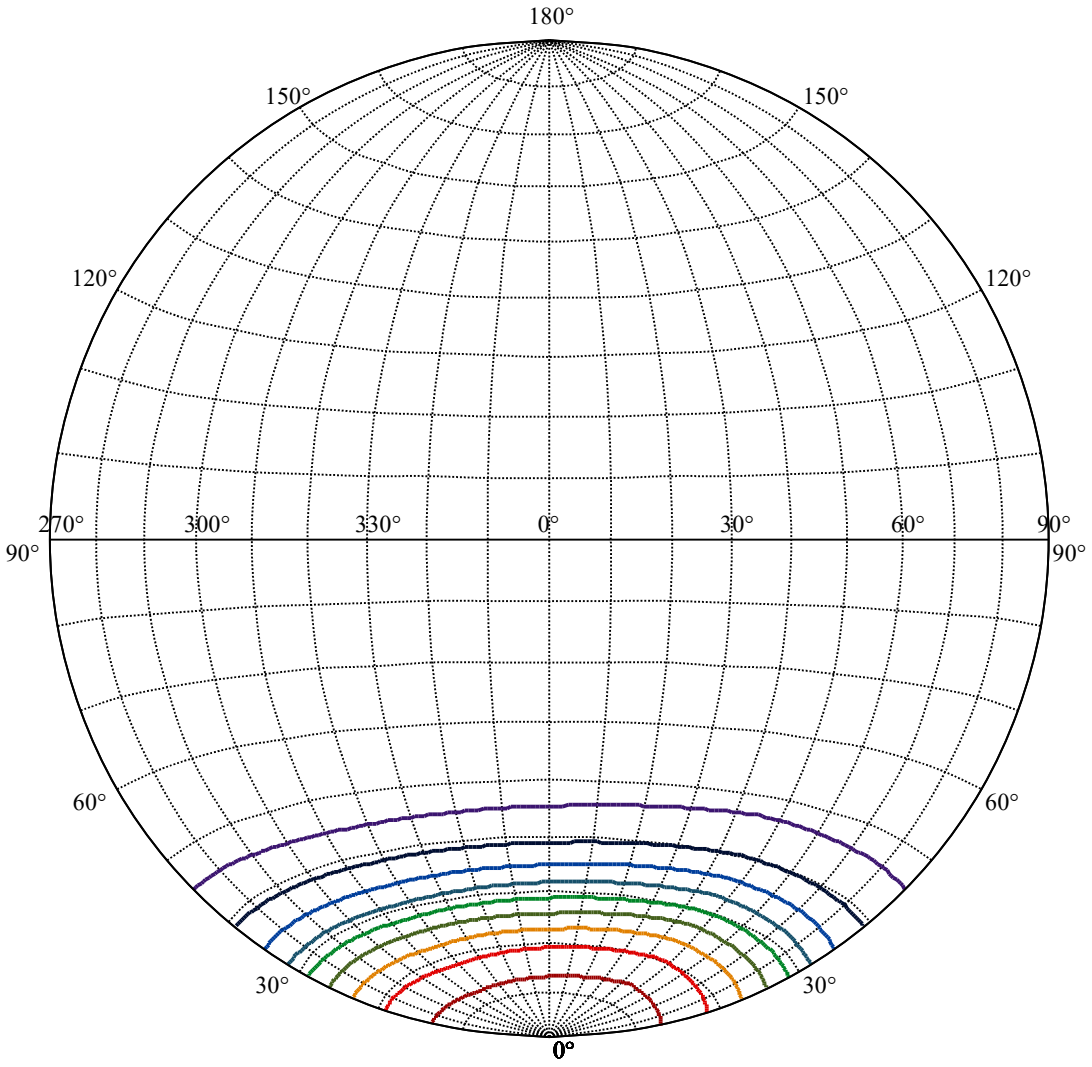
Max , Ave

Beam angle of C45 plane 57.58



Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/10/28
Humidity(%): 60.0%
Operator: 杨泽全
Distance(m): 9.28

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1635.47

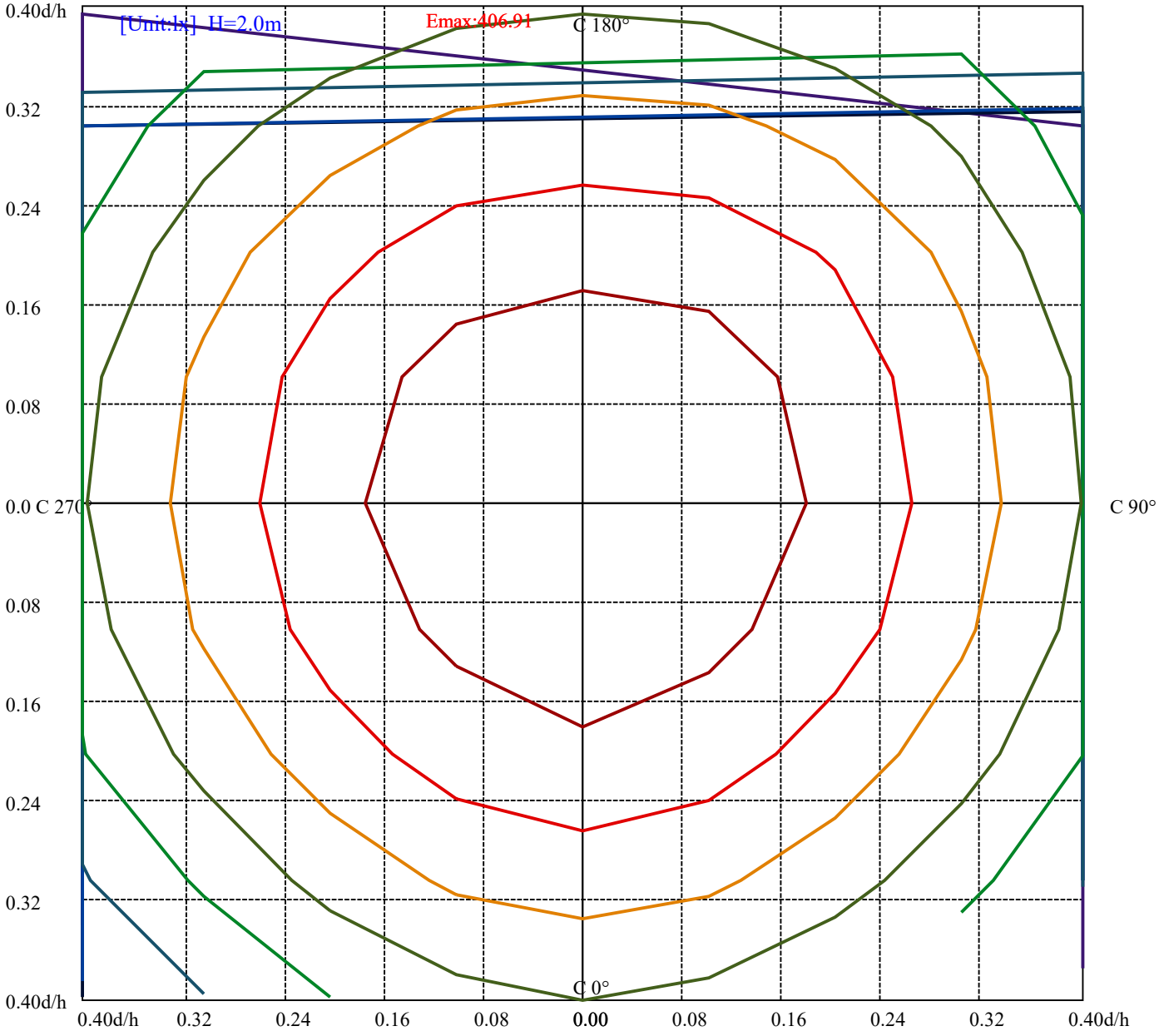
(10%Imax) 163.625
(20%Imax) 327.25
(30%Imax) 490.875
(40%Imax) 654.5
(50%Imax) 818.125
(60%Imax) 981.75
(70%Imax) 1145.37
(80%Imax) 1309
(90%Imax) 1472.62

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

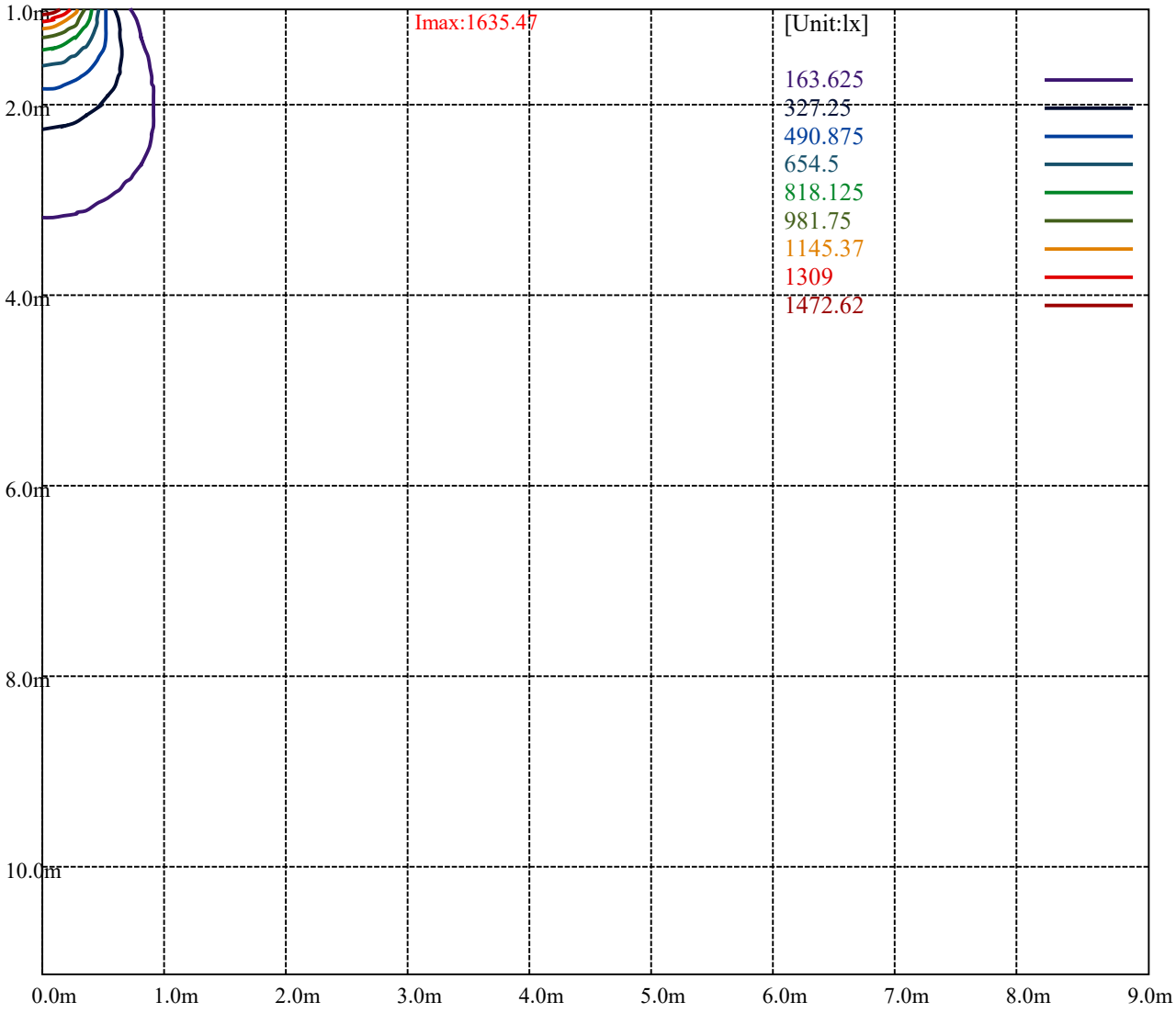
ISO illuminance diagram



(10%Emax) 40.691
(20%Emax) 81.382
(30%Emax) 122.073
(40%Emax) 162.764
(50%Emax) 203.455
(60%Emax) 244.146
(70%Emax) 284.8375
(80%Emax) 325.5275
(90%Emax) 366.22

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/10/28
Humidity(%): 60.0%
Operator: 杨泽全
Distance(m): 9.28

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

Luminance Limitting Curve(no luminous side)

Luminance Table

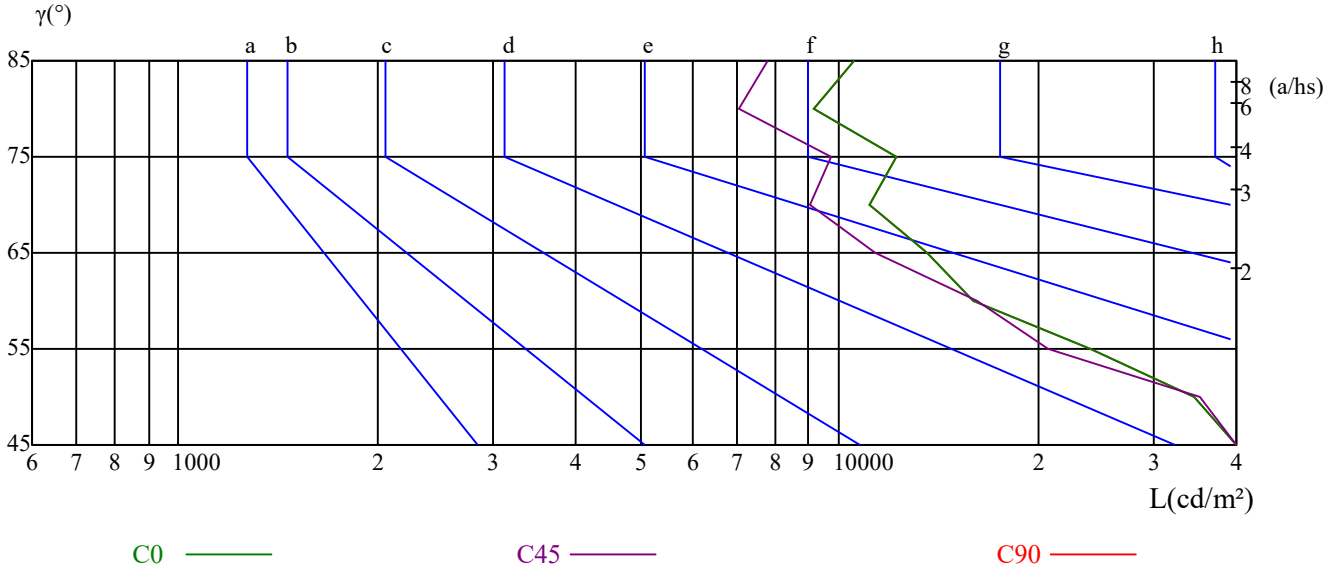
γ	45	50	55	60	65	70	75	80	85
C0	55359	34473	24077	15928	13645	11104	12238	9164	10545
C45	56367	35109	20702	16165	11328	9027	9708	7058	7826
C90	55359	34473	24077	15928	13645	11104	12238	9164	10545

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
26945	26945	28629	32999	32999	32999	65329	65329	65329

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



Equipment: GMS1980
Temperature(°C): 25.0

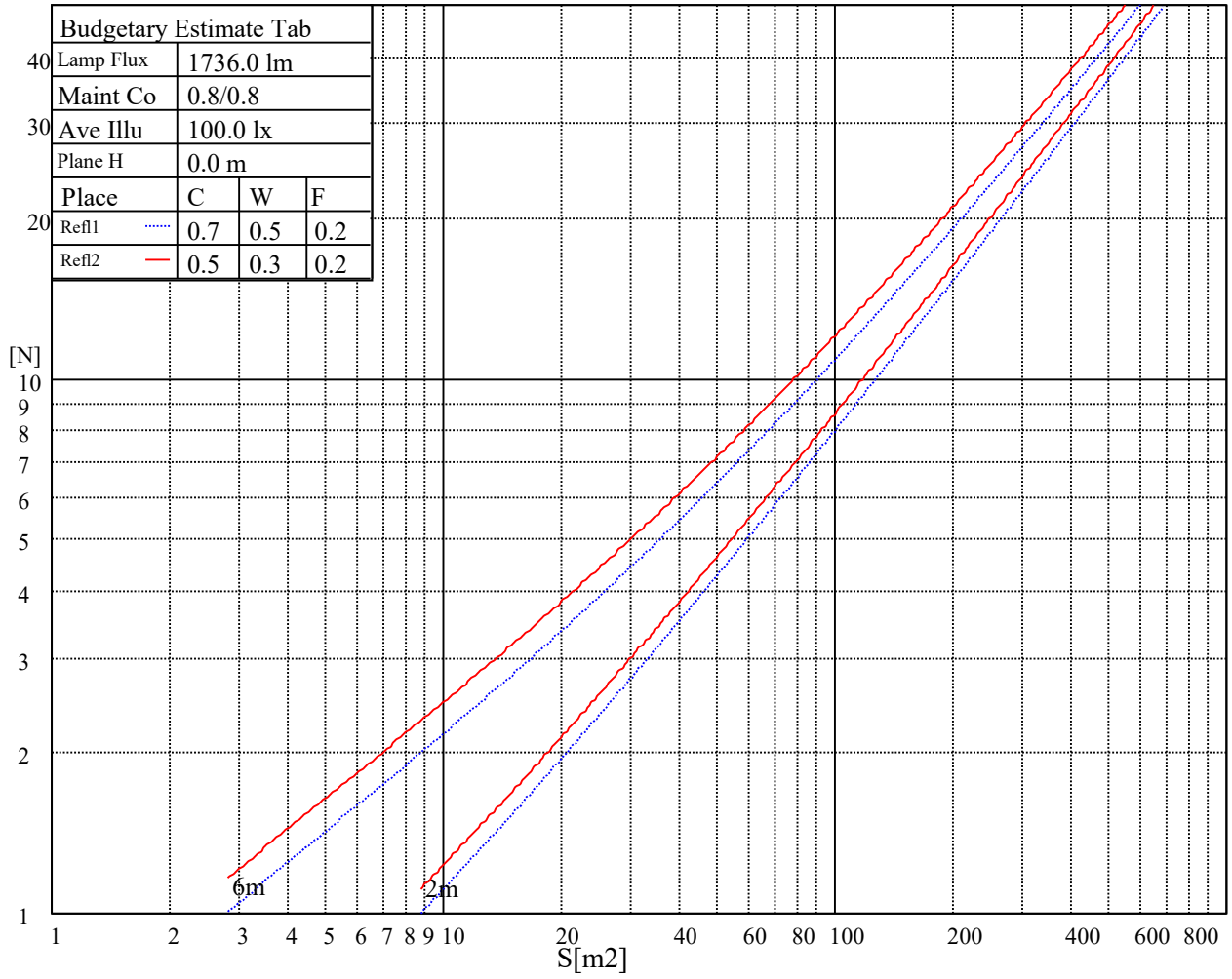
Date: 2025/10/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	22.03	23.16	22.39	23.47	23.79	22.04	23.18	22.40	23.49	23.80
	3H	22.27	23.28	22.65	23.62	23.96	22.31	23.32	22.69	23.65	24.00
	4H	22.43	23.37	22.83	23.72	24.09	22.47	23.41	22.87	23.76	24.13
	6H	22.63	23.49	23.04	23.87	24.27	22.71	23.57	23.12	23.95	24.34
	8H	22.70	23.53	23.12	23.92	24.32	22.80	23.63	23.22	24.01	24.42
	12H	22.77	23.55	23.19	23.95	24.36	22.88	23.66	23.30	24.06	24.47
4H	2H	21.97	22.91	22.37	23.27	23.63	21.99	22.93	22.39	23.28	23.65
	3H	22.33	23.12	22.75	23.51	23.93	22.37	23.16	22.79	23.55	23.97
	4H	22.64	23.33	23.08	23.75	24.19	22.68	23.37	23.12	23.79	24.24
	6H	22.93	23.54	23.40	23.99	24.44	23.02	23.63	23.49	24.08	24.53
	8H	23.09	23.66	23.58	24.12	24.59	23.21	23.78	23.69	24.23	24.70
	12H	23.24	23.77	23.73	24.22	24.73	23.38	23.90	23.86	24.35	24.87
8H	4H	22.66	23.22	23.14	23.68	24.15	22.70	23.26	23.18	23.72	24.19
	6H	23.06	23.53	23.57	24.01	24.52	23.15	23.62	23.66	24.10	24.61
	8H	23.36	23.76	23.89	24.28	24.78	23.48	23.88	24.01	24.40	24.89
	12H	23.60	23.92	24.14	24.44	24.96	23.74	24.06	24.28	24.58	25.10
12H	4H	22.65	23.17	23.14	23.62	24.14	22.69	23.21	23.17	23.66	24.18
	6H	23.14	23.54	23.66	24.06	24.55	23.22	23.62	23.75	24.14	24.64
	8H	23.43	23.76	23.97	24.27	24.79	23.55	23.87	24.08	24.39	24.91
Variation with the observer position at spacings:											
S = 1.0H		2.2/-2.7					2.3/-2.7				
S = 1.5H		3.9/-2.8					4.0/-2.8				
S = 2.0H		5.4/-2.5					5.6/-2.7				
Standard tables:		BK2					BK2				
Uncorrected UGR		5.2					5.1				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

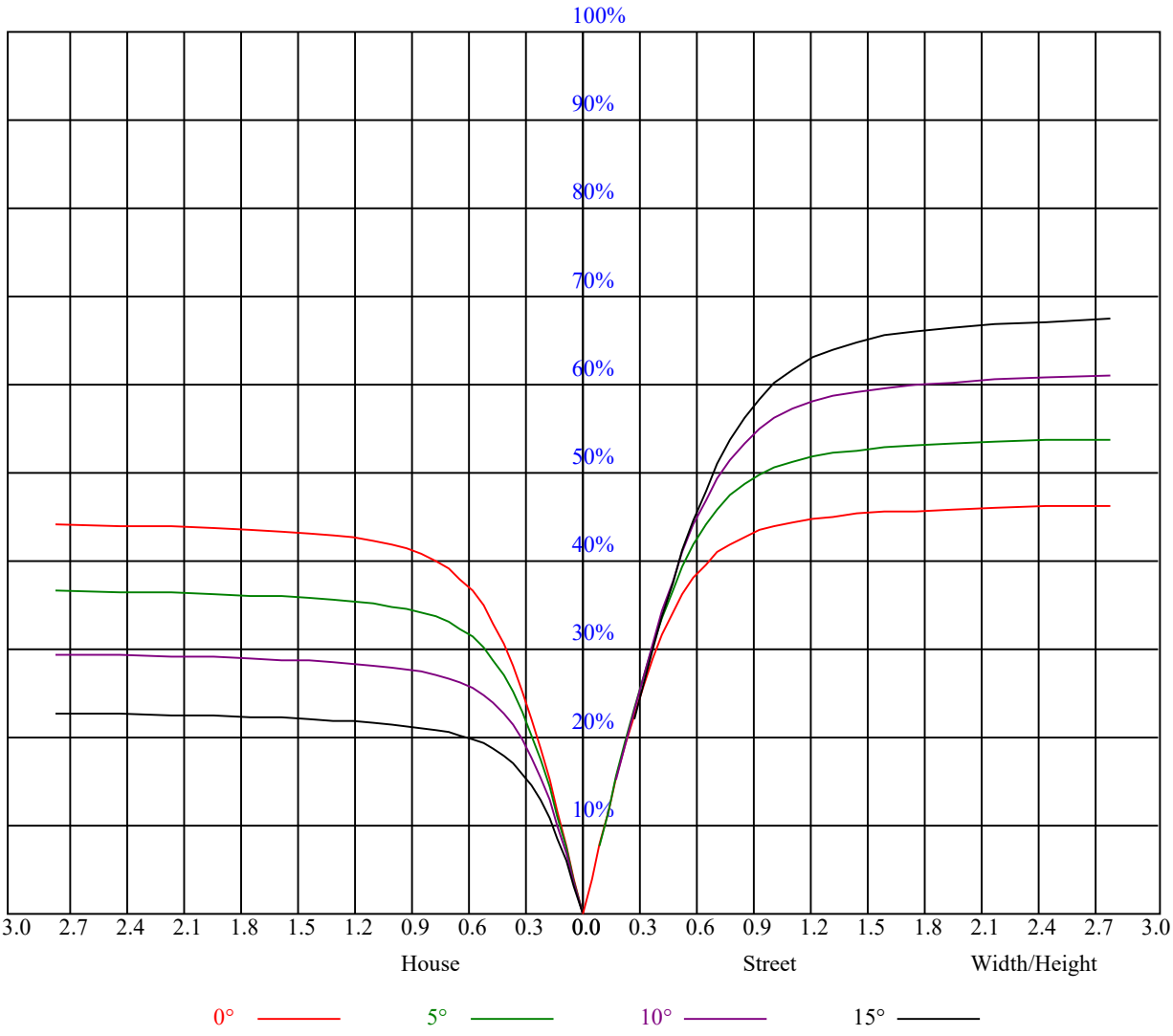


Equipment: GMS1980 Date: 2025/10/28 Operator: 杨泽全
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.28

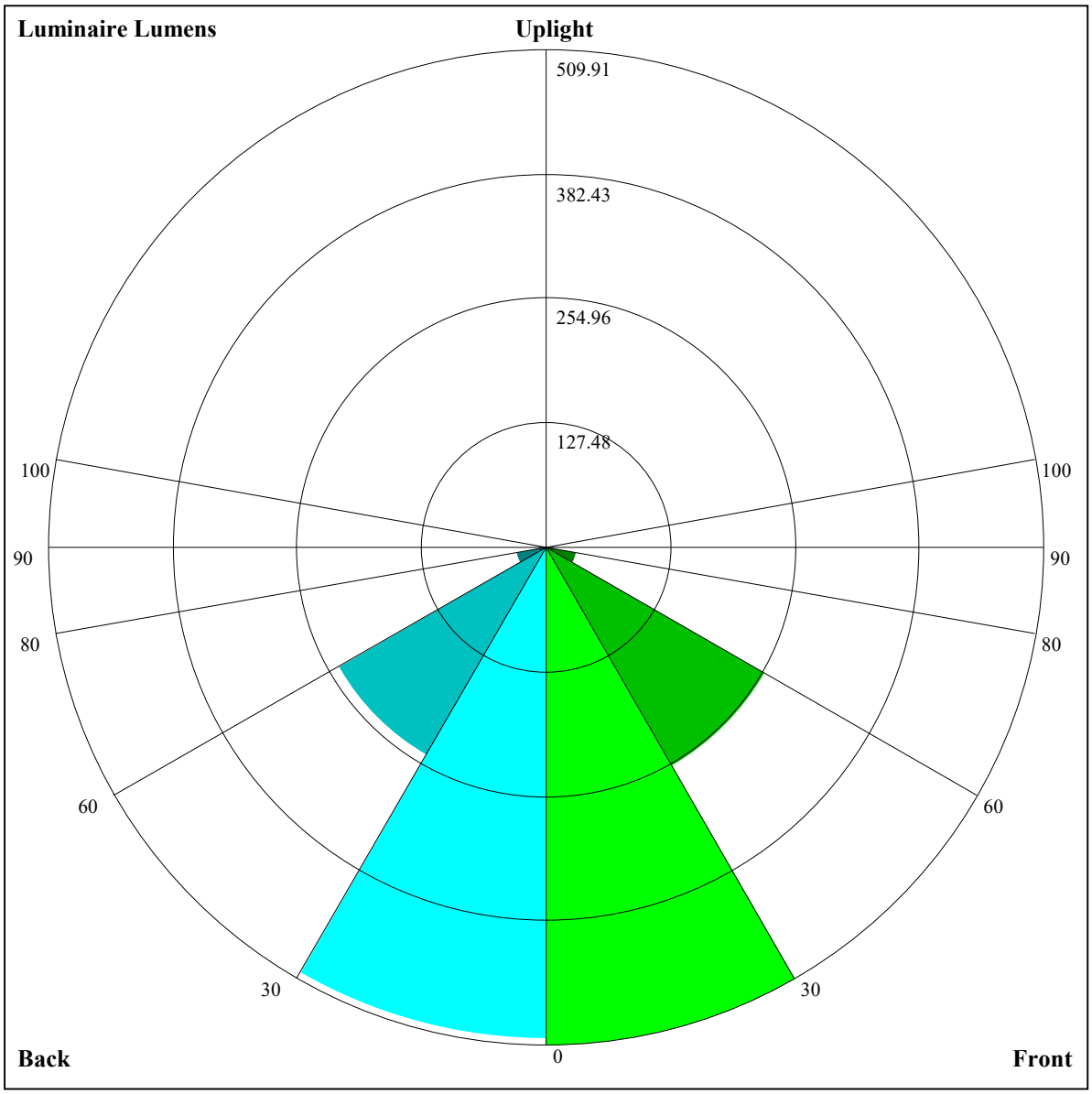
Utilization factor table for indoor luminaire

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.00	0.98	0.95	0.98	0.96	0.94	0.95	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.84
2	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.84	0.82	0.85	0.82	0.80	0.82	0.80	0.78	0.77
3	0.85	0.80	0.76	0.84	0.79	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.70
4	0.79	0.73	0.69	0.78	0.73	0.69	0.76	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.65
5	0.74	0.68	0.63	0.73	0.67	0.63	0.71	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.60
6	0.69	0.63	0.58	0.68	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.55
7	0.64	0.58	0.54	0.64	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.60	0.56	0.53	0.52
8	0.60	0.54	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.48
9	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.55	0.50	0.47	0.54	0.50	0.46	0.45
10	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.47	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.42

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2025/10/28	Operator: 杨泽全
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 9.28



Luminaire Lumens:
FL=509.91,FM=257.67,FH=32.21,FVH=7.95
BL=504.35,BM=246.66,BH=31.36,BVH=7.97
UL=0,UH=0

BUG Rating:B2-U0-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	1634.87	1632.80	1634.10	1629.36	1624.02	1614.46	1603.70	1592.07	1578.21
45.0	1627.38	1632.37	1635.47	1630.22	1627.98	1621.35	1614.38	1605.76	1589.92
90.0	1632.63	1629.02	1631.69	1625.83	1617.56	1608.43	1593.19	1582.43	1564.43
135.0	1630.14	1634.10	1632.46	1626.35	1619.03	1609.98	1606.37	1592.59	1572.26
180.0	1634.87	1631.43	1623.76	1620.06	1609.55	1600.34	1590.87	1579.76	1564.17
225.0	1627.38	1625.23	1619.89	1606.19	1599.05	1590.26	1576.83	1565.80	1553.75
270.0	1632.63	1625.92	1622.47	1618.60	1613.34	1606.80	1602.75	1584.58	1574.67
315.0	1630.14	1625.66	1622.13	1615.06	1607.92	1596.89	1584.75	1572.78	1555.56
360.0	1634.87	1632.80	1634.10	1629.36	1624.02	1614.46	1603.70	1592.07	1578.21

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1563.05	1540.23	1520.76	1499.49	1479.77	1451.27	1428.53	1404.59	1379.36
45.0	1578.89	1565.03	1543.67	1526.45	1505.09	1485.28	1462.12	1435.51	1410.62
90.0	1555.04	1530.84	1510.34	1493.72	1469.52	1441.62	1416.13	1389.00	1364.29
135.0	1557.19	1542.38	1525.16	1500.01	1478.83	1454.54	1431.46	1402.18	1377.64
180.0	1550.30	1533.17	1511.98	1494.76	1468.84	1447.22	1423.36	1393.40	1362.91
225.0	1538.07	1521.71	1500.18	1478.14	1458.59	1434.04	1400.54	1374.28	1342.93
270.0	1562.19	1547.29	1527.22	1507.42	1488.56	1461.69	1442.31	1407.17	1379.01
315.0	1540.49	1526.88	1506.73	1485.89	1463.32	1429.13	1410.53	1380.22	1353.18
360.0	1563.05	1540.23	1520.76	1499.49	1479.77	1451.27	1428.53	1404.59	1379.36

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1345.08	1314.51	1279.98	1232.70	1193.08	1137.71	1090.95	1041.26	973.74
45.0	1382.03	1346.38	1317.78	1284.71	1236.75	1201.61	1147.18	1101.97	1050.30
90.0	1329.50	1295.65	1256.04	1215.99	1177.58	1123.93	1074.59	1022.66	974.00
135.0	1351.03	1311.32	1280.75	1245.01	1201.09	1160.53	1115.06	1060.89	1009.57
180.0	1333.89	1304.26	1272.05	1227.88	1187.23	1145.12	1097.32	1036.78	984.33
225.0	1310.72	1261.29	1222.54	1182.23	1134.87	1076.65	1024.81	969.52	899.25
270.0	1350.34	1317.27	1272.14	1237.18	1196.01	1152.09	1094.39	1043.58	989.41
315.0	1313.48	1280.67	1240.79	1204.71	1164.06	1112.74	1065.72	1016.63	949.63
360.0	1345.08	1314.51	1279.98	1232.70	1193.08	1137.71	1090.95	1041.26	973.74

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	918.71	862.48	809.43	743.46	691.79	642.18	594.91	537.12	492.43
45.0	996.22	926.81	872.72	819.16	765.42	699.80	650.80	604.03	556.84
90.0	906.05	850.25	799.09	748.02	683.78	634.43	587.24	530.66	486.40
135.0	953.24	885.56	835.26	780.23	729.34	663.97	616.09	569.16	523.51
180.0	917.59	863.25	807.27	735.11	679.90	628.75	568.04	519.12	470.72
225.0	841.55	787.73	717.28	664.15	600.50	551.33	505.69	462.11	412.42
270.0	920.35	863.68	806.58	736.05	682.06	632.80	573.89	526.70	479.68
315.0	894.94	825.44	769.55	714.95	649.42	599.38	551.93	506.72	454.53
360.0	918.71	862.48	809.43	743.46	691.79	642.18	594.91	537.12	492.43

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	450.14	402.09	365.57	331.21	292.80	264.90	239.32	209.96	189.37
45.0	502.24	461.34	412.33	374.10	339.82	300.90	273.86	247.85	224.68
90.0	444.20	396.92	361.27	327.94	290.74	264.73	239.06	216.24	191.18
135.0	467.97	426.98	379.09	343.27	309.42	272.91	246.82	223.74	201.60
180.0	428.09	377.03	341.03	307.87	276.53	242.08	218.22	196.78	173.27
225.0	375.65	340.68	309.42	279.54	245.95	221.58	195.49	177.06	160.96
270.0	441.18	394.08	357.05	326.22	298.31	261.11	237.34	215.64	190.32
315.0	415.87	378.75	345.33	306.50	276.18	249.66	225.63	198.24	179.21
360.0	450.14	402.09	365.57	331.21	292.80	264.90	239.32	209.96	189.37

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	170.69	153.64	135.64	123.06	111.78	101.88	91.46	84.31	76.13
45.0	196.35	178.27	161.47	145.28	129.09	117.98	106.36	95.42	87.67
90.0	173.10	156.74	141.92	126.08	114.80	104.81	93.87	86.12	77.68
135.0	176.37	159.41	144.51	130.99	116.60	106.27	97.06	87.07	80.18
180.0	157.17	139.51	127.20	116.17	106.36	95.68	87.93	81.30	75.27
225.0	142.78	130.04	118.76	106.27	97.49	89.56	82.42	74.49	68.81
270.0	171.81	155.27	138.82	126.25	112.38	102.74	94.30	86.46	77.76
315.0	158.20	143.65	130.81	116.69	106.96	97.74	89.56	80.43	74.23
360.0	170.69	153.64	135.64	123.06	111.78	101.88	91.46	84.31	76.13

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	70.44	65.28	59.51	55.46	51.84	48.66	45.30	42.80	40.73
45.0	80.26	72.43	66.83	61.06	56.67	52.88	49.52	45.99	43.49
90.0	71.65	66.31	60.46	56.24	52.79	49.78	46.59	44.26	42.28
135.0	73.72	66.74	61.83	57.61	52.88	49.60	46.68	44.09	41.16
180.0	68.55	63.64	59.42	55.55	51.50	48.83	46.07	44.35	42.97
225.0	63.81	59.16	54.25	50.72	47.71	44.44	42.03	39.44	37.72
270.0	71.48	66.31	61.23	55.98	52.27	49.00	45.47	42.97	40.82
315.0	68.81	63.73	58.56	54.94	52.02	49.00	47.02	45.04	43.66
360.0	70.44	65.28	59.51	55.46	51.84	48.66	45.30	42.80	40.73

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	38.93	36.86	35.31	34.02	32.47	31.35	30.31	29.11	28.16
45.0	41.42	39.36	37.20	35.65	34.19	32.90	31.26	30.14	28.76
90.0	40.56	38.67	37.20	35.91	34.28	32.98	31.61	29.80	28.51
135.0	39.27	37.63	36.00	34.28	32.98	31.86	30.57	29.62	28.51
180.0	41.25	39.87	38.58	37.12	36.00	34.53	32.64	30.66	29.02
225.0	36.08	34.79	33.07	31.95	30.92	29.97	28.85	28.07	27.30
270.0	38.41	36.77	35.31	33.67	32.55	31.43	30.49	29.28	28.51
315.0	42.63	41.42	40.48	39.36	37.72	35.39	33.07	30.83	28.94
360.0	38.93	36.86	35.31	34.02	32.47	31.35	30.31	29.11	28.16

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	27.04	26.18	25.23	24.46	23.25	22.39	21.44	20.58	19.38
45.0	27.82	26.78	25.66	24.89	23.94	23.08	22.05	21.44	20.75
90.0	27.39	26.18	25.32	24.46	24.54	24.46	23.42	22.13	21.10
135.0	27.73	26.96	26.18	25.32	24.37	23.51	22.30	21.44	20.50
180.0	27.82	26.70	25.40	24.46	26.96	28.76	27.30	23.25	20.93
225.0	26.52	25.58	24.72	23.60	22.65	21.79	20.75	19.89	19.12
270.0	27.73	27.04	26.09	25.32	24.54	23.51	22.65	21.70	20.84
315.0	27.13	25.92	25.06	27.90	34.02	38.24	34.62	26.44	21.27
360.0	27.04	26.18	25.23	24.46	23.25	22.39	21.44	20.58	19.38

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	18.52	17.83	16.36	15.16	14.04	12.66	11.20	9.73	8.61
45.0	19.55	18.69	17.91	16.53	15.16	13.95	12.57	11.02	9.30
90.0	20.15	19.29	17.83	16.28	14.90	13.43	12.31	11.02	9.30
135.0	19.81	18.95	18.26	16.97	15.59	14.38	13.09	11.71	10.94
180.0	19.72	18.52	17.48	15.85	14.04	12.66	11.88	11.20	9.13
225.0	18.43	17.40	15.85	14.30	12.92	11.54	10.25	9.30	8.87
270.0	19.98	19.20	17.91	16.45	14.90	13.18	11.37	10.16	9.21
315.0	19.98	19.12	17.31	15.50	13.69	12.31	12.14	8.96	8.44
360.0	18.52	17.83	16.36	15.16	14.04	12.66	11.20	9.73	8.61

Intensity data(cd)

C/γ(°)	90.0
0.0	8.27
45.0	8.61
90.0	9.04
135.0	10.42
180.0	8.44
225.0	8.61
270.0	8.70
315.0	8.18
360.0	8.27