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Nata

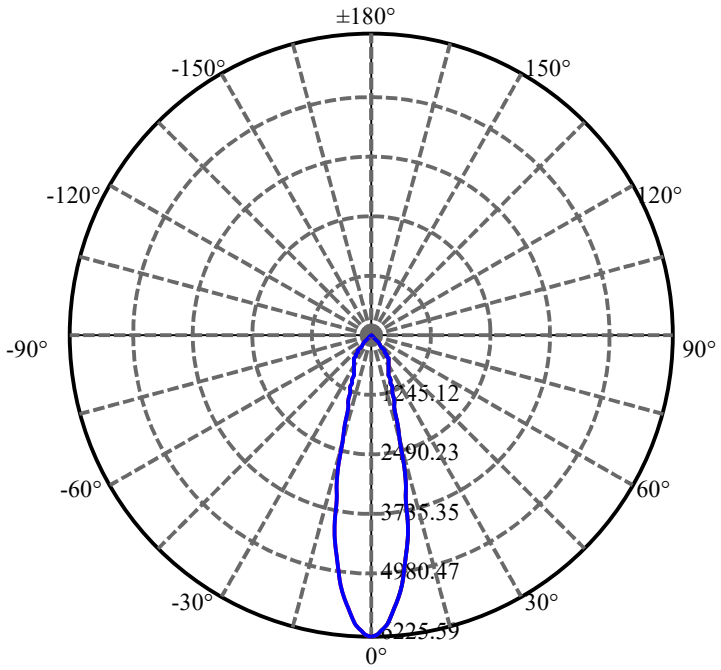
Client: NT
LumCAT: 1-1767-LM
Luminaire: 92.70.494.00 LED HOLDER
Report No: 20260120-B012
Ballast type: DC

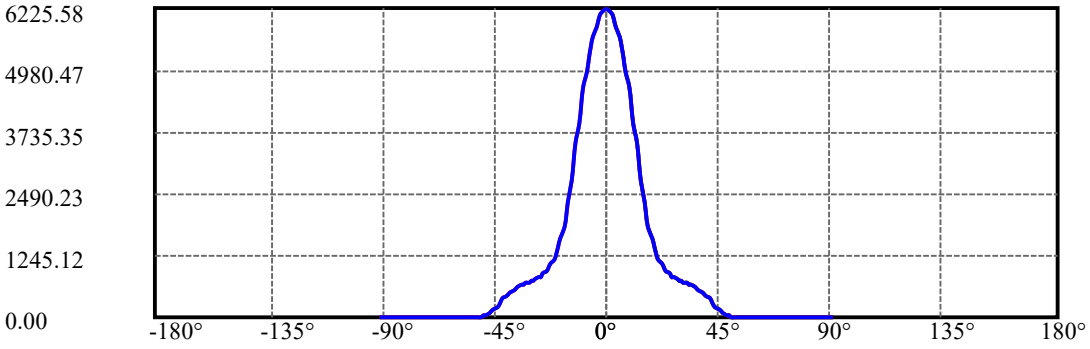
Test No: 20260120-C012	Voltage(V): 34.600
LampCAT: LUMINUS CXM-11（TC）	Current(A): 0.454
Lamp flux(lm): 2195.5	Power (W): 15.700
Number of Lamps: 1	PF: 0.000
Length(mm): 50	Width(mm): 50
Phm Type: C	Height(mm): 22

Photometric Results

Lumens(lm): 2098.80, Efficiency(%): 95.59% , Luminous Efficacy(lm/W): 133.68
Central intensity(cd): 6225.585, Maximum intensity(cd): 6225.585
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.0
[C90/270]Total=26.0
Field angle(10%Imax): [C0/180]Total=70.2
[C90/270]Total=70.2
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.59%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.321%

Light Distribution Curve [Unit:cd]





C0(Max):

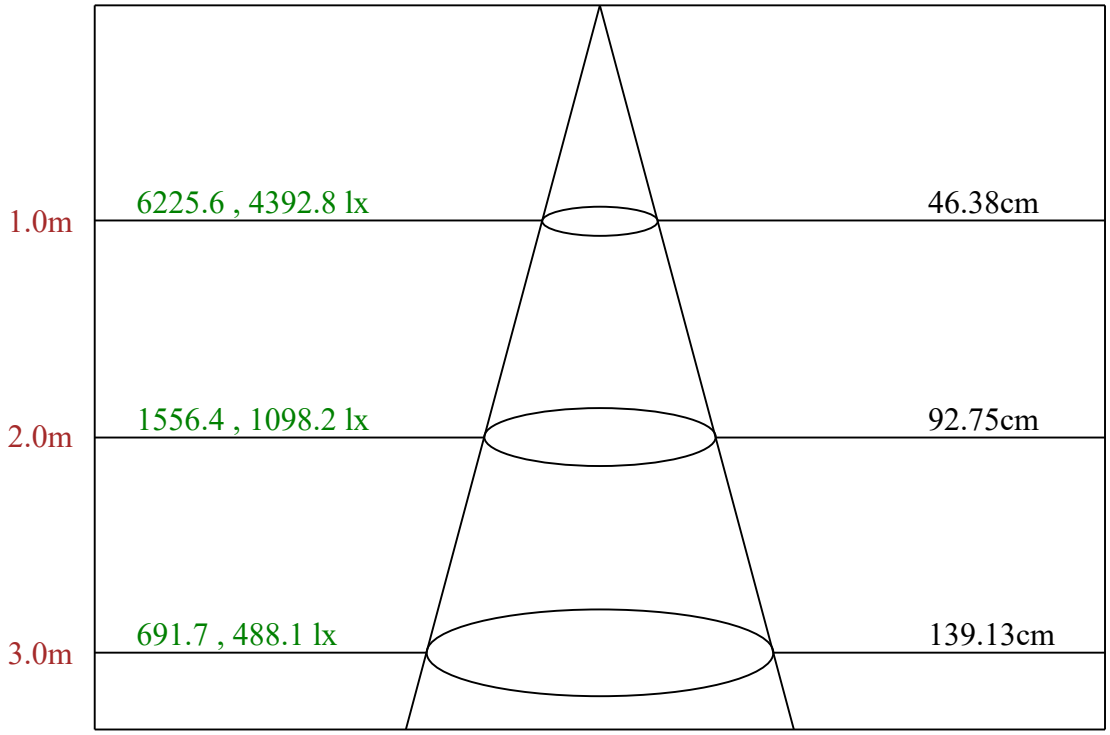
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:35.1 Right:35.1
:C90/270Left:35.1 Right:35.1

Beam Angle(50%Imax):C0/180Left:13.0 Right:13.0
:C90/270Left:13.0 Right:13.0

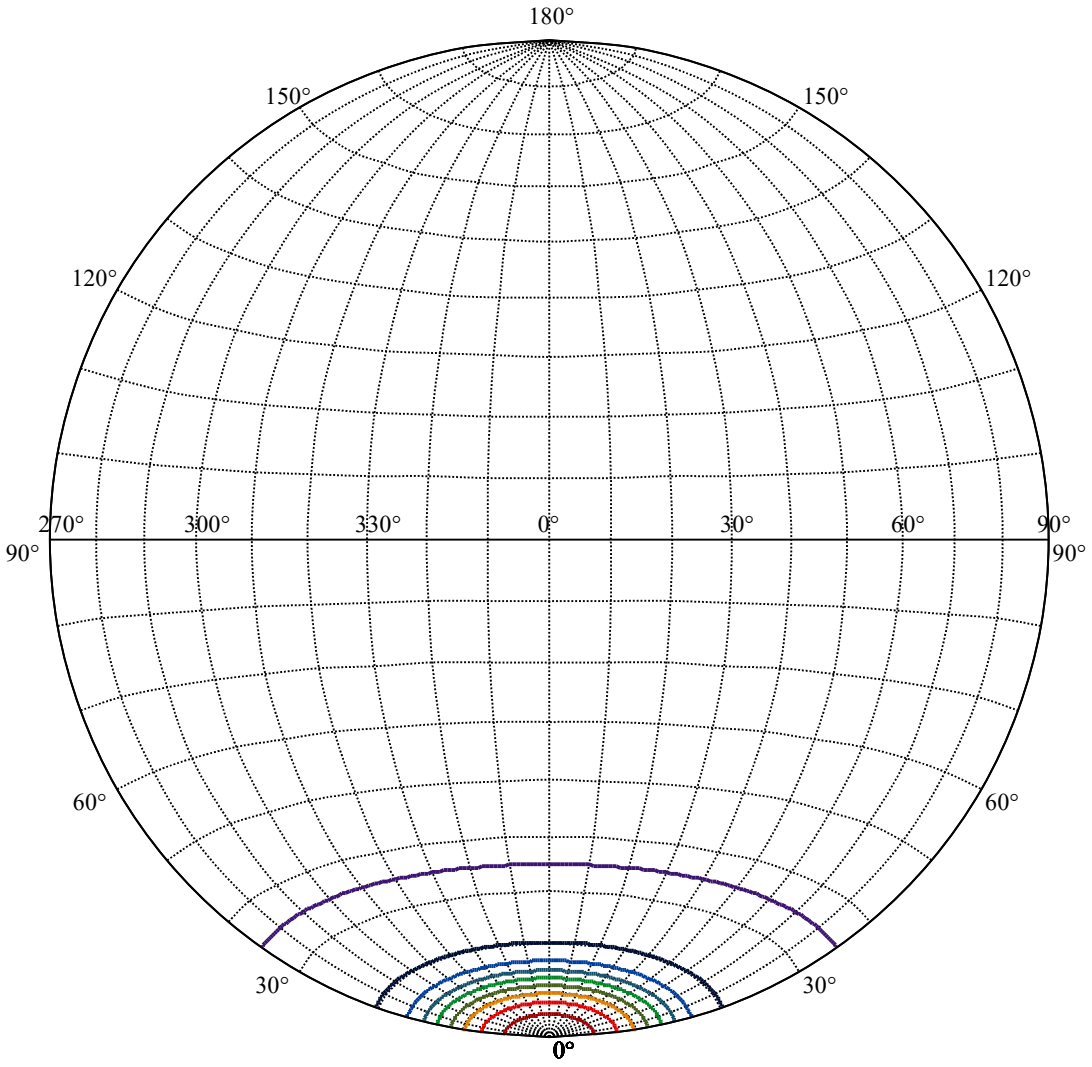
Lux distance Curve



Max , Ave

Beam angle of C0 plane 26.11

ISO candela diagram on circular web



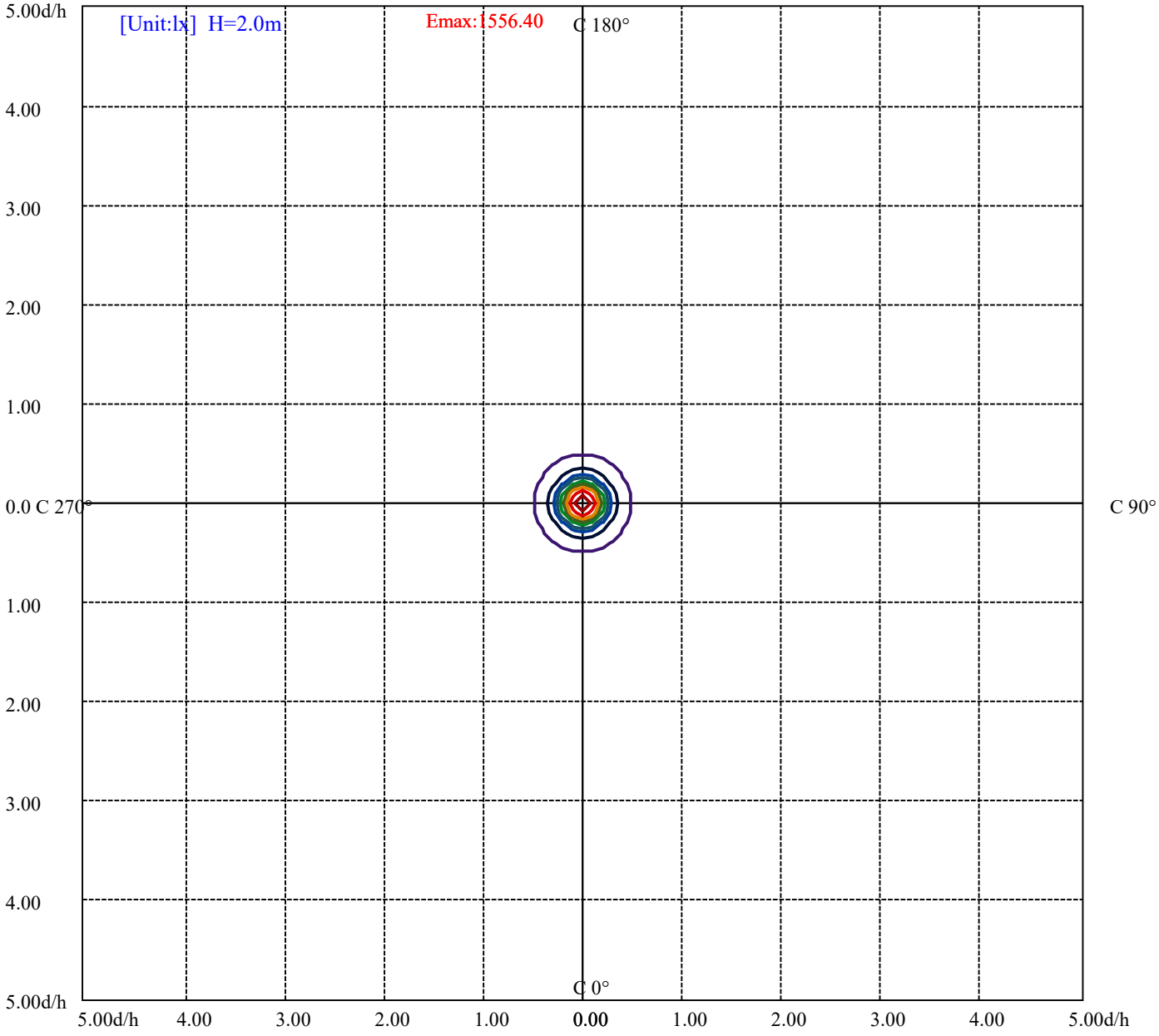
House [Unit:cd] Road

Imax:6225.59

(10%Imax) 622.558
(20%Imax) 1245.12
(30%Imax) 1867.68
(40%Imax) 2490.23
(50%Imax) 3112.79
(60%Imax) 3735.35
(70%Imax) 4357.91
(80%Imax) 4980.47
(90%Imax) 5603.03

NT Nata 1-1767-LM

ISO illuminance diagram

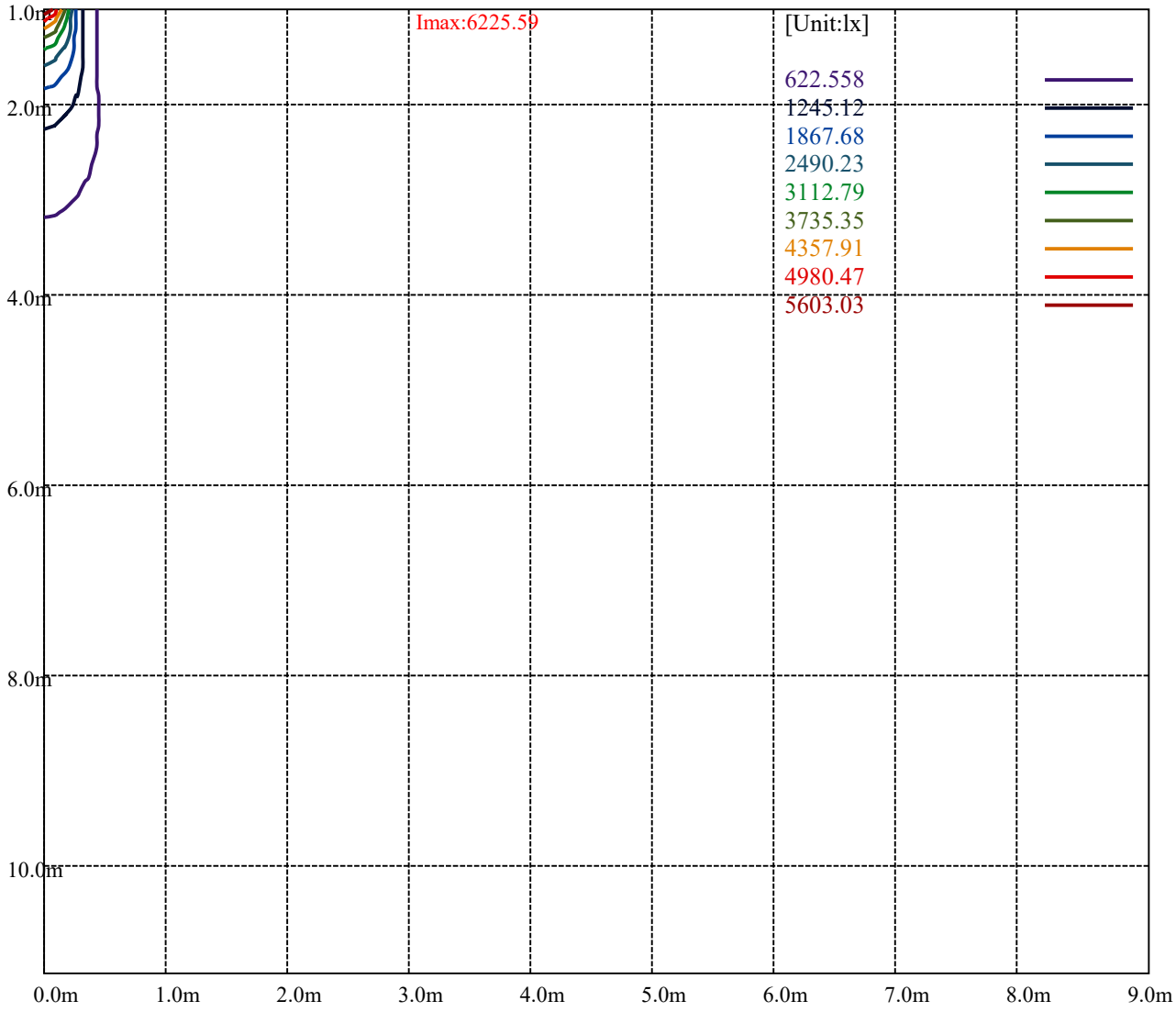


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/1/20
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/1/20
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

NT Nata 1-1767-LM

Luminance Limitting Curve(no luminous side)

Luminance Table

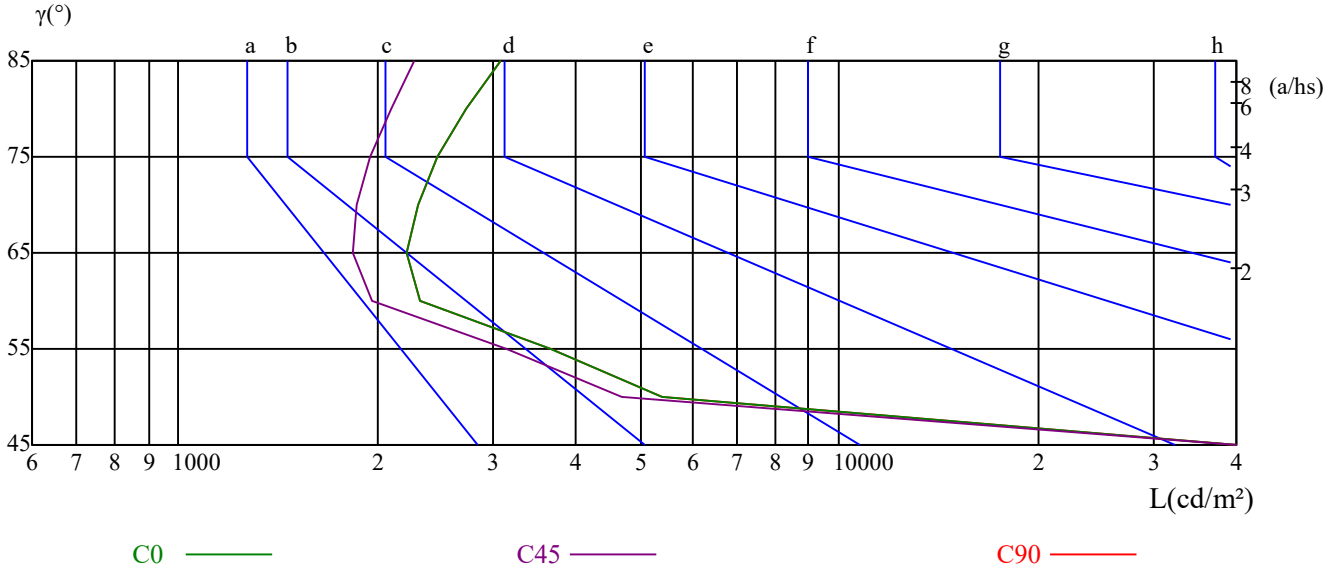
γ	45	50	55	60	65	70	75	80	85
C0	54357	5412	3670	2328	2219	2302	2473	2731	3070
C45	47919	4703	3141	1959	1834	1863	1954	2096	2273
C90	54357	5412	3670	2328	2219	2302	2473	2731	3070

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4503	4503	4503	6904	6904	6904	19910	19910	19910

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: 2026/1/20
Humidity(%): 60.0%

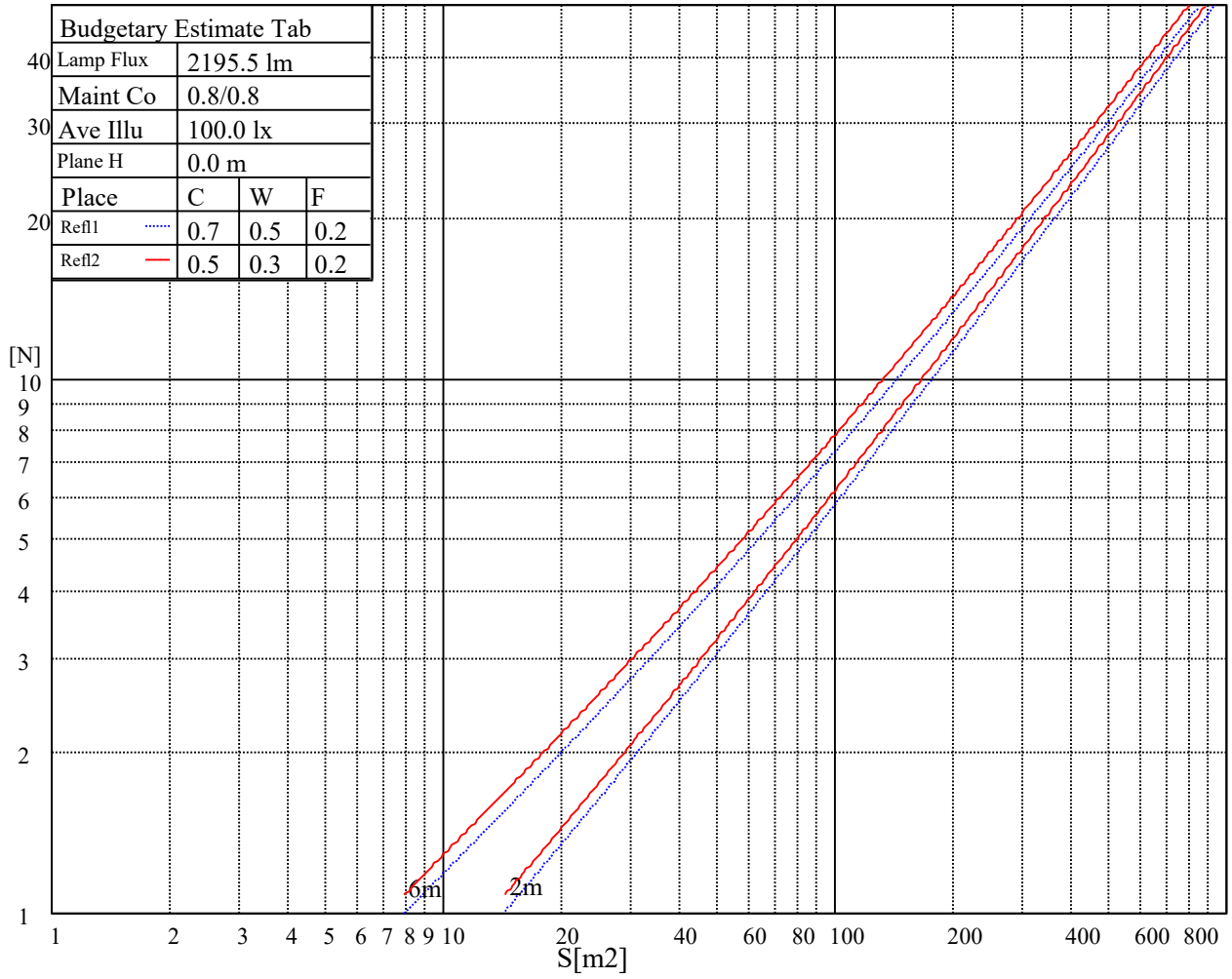
Operator: YZQ
Distance(m): 9.28

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	22.02	23.00	22.38	23.31	23.62	21.88	22.86	22.24	23.17	23.48
	3H	21.82	22.69	22.21	23.02	23.37	21.68	22.55	22.07	22.88	23.23
	4H	21.73	22.52	22.13	22.88	23.25	21.59	22.38	21.99	22.74	23.11
	6H	21.65	22.38	22.07	22.76	23.16	21.51	22.24	21.93	22.62	23.01
	8H	21.58	22.28	22.01	22.67	23.07	21.44	22.14	21.87	22.53	22.93
	12H	21.53	22.18	21.95	22.58	23.00	21.39	22.04	21.81	22.44	22.86
4H	2H	21.71	22.51	22.11	22.86	23.23	21.57	22.37	21.97	22.72	23.09
	3H	21.48	22.14	21.90	22.54	22.96	21.34	22.00	21.76	22.40	22.81
	4H	21.41	21.99	21.85	22.41	22.86	21.27	21.85	21.71	22.27	22.72
	6H	21.29	21.80	21.77	22.25	22.70	21.15	21.66	21.63	22.11	22.57
	8H	21.25	21.72	21.74	22.18	22.65	21.11	21.58	21.60	22.04	22.51
	12H	21.22	21.66	21.71	22.11	22.63	21.08	21.52	21.57	21.97	22.49
8H	4H	21.21	21.68	21.70	22.14	22.62	21.07	21.54	21.56	22.00	22.48
	6H	21.09	21.47	21.60	21.95	22.47	20.95	21.34	21.46	21.81	22.33
	8H	21.10	21.43	21.64	21.95	22.45	20.97	21.29	21.50	21.81	22.31
	12H	21.09	21.34	21.63	21.86	22.38	20.95	21.20	21.49	21.72	22.24
12H	4H	21.16	21.59	21.65	22.05	22.57	21.02	21.45	21.51	21.91	22.43
	6H	21.08	21.40	21.61	21.92	22.42	20.94	21.26	21.47	21.78	22.28
	8H	21.06	21.31	21.60	21.82	22.35	20.92	21.17	21.46	21.69	22.21

Variation with the observer position at spacings:		
S = 1.0H	3.6/-14.6	3.6/-14.6
S = 1.5H	6.1/-13.1	6.1/-13.1
S = 2.0H	8.1/-11.9	8.1/-11.9
Standard tables:	BK0	BK0
Uncorrected UGR	2.4	2.4

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

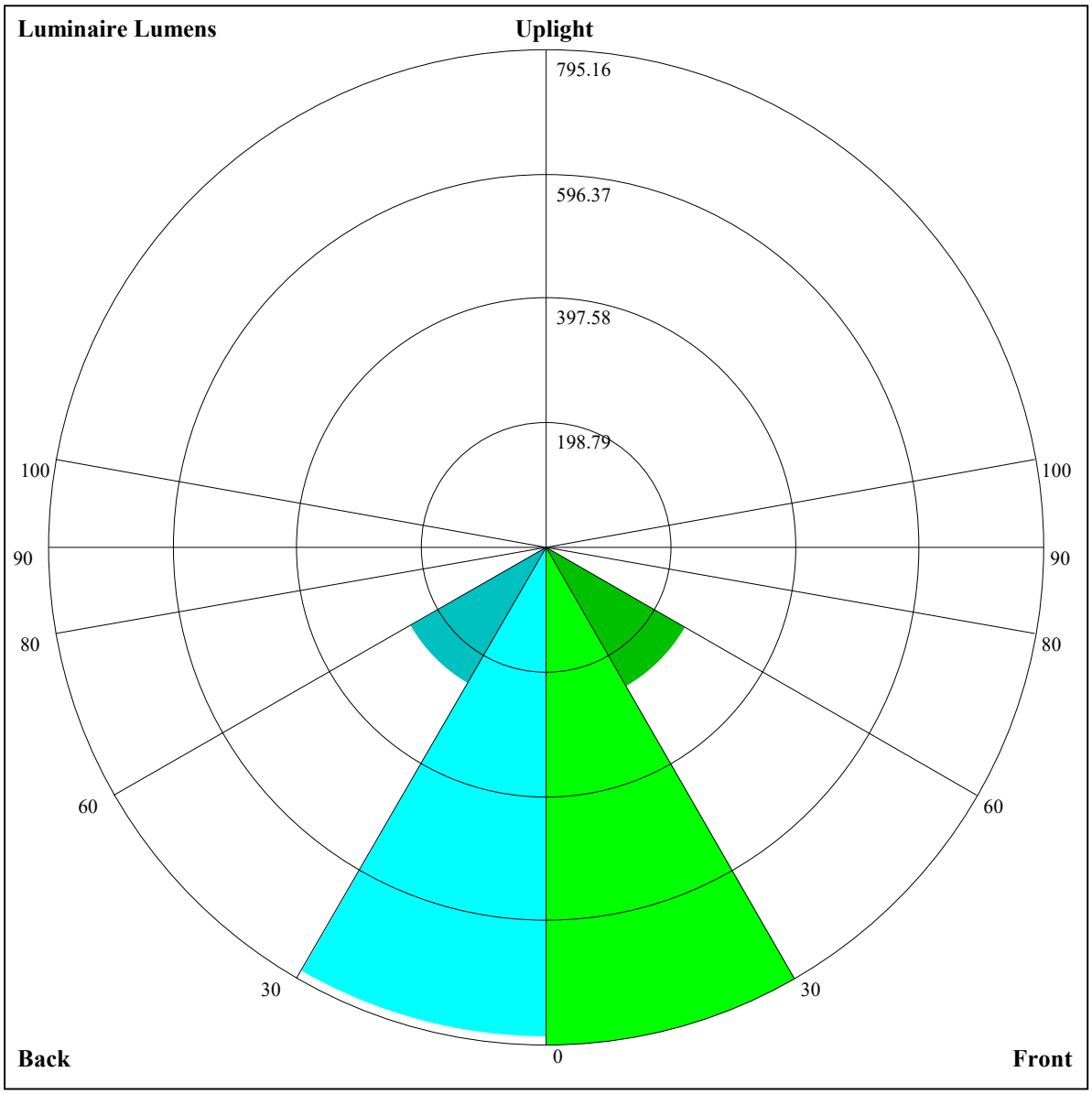
Budgetary Estimate Table



Equipment: GMS1980 Date: 2026/1/20 Operator: YZQ
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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.04	1.02	1.04	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.90	0.93	0.90	0.89	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.89	0.84	0.81	0.88	0.84	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.72
6	0.80	0.75	0.71	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.69
7	0.76	0.71	0.68	0.76	0.71	0.67	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
8	0.73	0.68	0.64	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.63	0.62
9	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.60
10	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.57



Luminaire Lumens:
FL=795.16,FM=257.07,FH=4.76,FVH=2.37
BL=781.38,BM=251.05,BH=4.74,BVH=2.36
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	6247.98	6223.86	6147.22	6031.82	5900.06	5703.71	5526.30	5276.56	5037.15
45.0	6202.33	6250.56	6246.25	6160.14	6049.04	5905.22	5701.99	5521.14	5264.50
90.0	6250.56	6222.14	6141.19	5981.87	5825.13	5655.48	5410.91	5180.97	4924.34
135.0	6201.47	6244.53	6229.89	6137.74	6019.76	5866.47	5691.65	5457.41	5240.39
180.0	6247.98	6199.75	6105.88	5978.43	5791.55	5622.76	5430.71	5205.08	4887.31
225.0	6202.33	6107.60	5938.81	5788.96	5623.62	5432.43	5158.58	4899.36	4597.09
270.0	6250.56	6208.36	6111.91	5949.15	5799.30	5637.40	5457.41	5193.03	4950.17
315.0	6201.47	6105.88	5951.73	5805.33	5639.12	5407.46	5189.58	4941.56	4580.72
360.0	6247.98	6223.86	6147.22	6031.82	5900.06	5703.71	5526.30	5276.56	5037.15

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4767.60	4378.35	4025.26	3657.53	3271.72	2809.27	2466.52	1959.28	1688.18
45.0	5018.21	4738.32	4426.57	3996.84	3629.12	3254.50	2882.47	2446.71	2136.68
90.0	4627.23	4213.00	3850.44	3479.27	3102.93	2653.39	2330.45	1686.28	1686.28
135.0	4988.06	4633.26	4311.17	3865.94	3493.91	3120.16	2754.15	2327.87	2031.62
180.0	4590.20	4173.38	3812.55	3440.52	2972.89	2610.33	2279.64	1992.87	1704.37
225.0	4174.24	3819.44	3449.99	2986.67	2631.86	2309.78	1679.22	1679.22	1541.61
270.0	4668.56	4348.20	3900.39	3520.61	3142.55	2701.62	2380.40	2095.35	1797.38
315.0	4252.61	3896.08	3430.18	3061.60	2707.65	2386.43	1694.90	1694.90	1601.37
360.0	4767.60	4378.35	4025.26	3657.53	3271.72	2809.27	2466.52	1959.28	1688.18

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1640.47	1472.80	1333.89	1193.69	1102.75	1025.84	946.27	895.11	850.68
45.0	1875.74	1617.39	1449.46	1310.81	1172.16	1083.46	992.17	933.61	883.66
90.0	1547.20	1391.93	1232.01	1129.62	1044.87	960.39	905.88	861.01	821.57
135.0	1784.46	1585.53	1385.73	1258.28	1152.35	1066.23	979.25	921.55	865.58
180.0	1512.33	1365.06	1242.77	1118.76	1038.67	969.78	900.88	855.24	807.88
225.0	1351.54	1230.37	1130.56	1049.01	980.89	910.44	862.99	822.09	780.92
270.0	1600.17	1443.43	1283.25	1175.60	1086.04	1011.12	935.33	884.52	841.46
315.0	1400.63	1273.00	1166.82	1079.67	990.53	931.97	882.37	827.60	792.55
360.0	1640.47	1472.80	1333.89	1193.69	1102.75	1025.84	946.27	895.11	850.68

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	805.81	776.79	751.99	725.98	708.75	693.60	679.90	662.77	643.13
45.0	841.46	798.40	770.85	748.46	729.51	707.98	693.34	679.56	666.64
90.0	782.82	758.36	738.03	720.21	700.83	686.02	672.15	654.76	630.73
135.0	825.10	792.38	759.65	738.98	721.76	706.26	687.31	674.39	660.61
180.0	777.74	751.90	723.48	706.26	689.89	676.98	659.75	642.53	615.83
225.0	754.22	730.89	705.65	688.86	673.96	656.65	640.98	616.44	575.53
270.0	805.29	767.40	742.43	720.90	697.65	681.28	665.78	648.56	628.75
315.0	756.89	732.95	711.85	693.34	673.53	659.67	645.89	626.51	587.93
360.0	805.81	776.79	751.99	725.98	708.75	693.60	679.90	662.77	643.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	613.51	577.25	523.51	477.10	416.21	367.73	316.92	256.03	207.29
45.0	639.95	608.08	562.44	518.52	471.15	445.32	445.32	304.17	251.90
90.0	586.98	546.51	501.98	453.76	393.22	344.22	294.44	245.27	186.10
135.0	639.08	597.75	558.13	513.35	453.93	441.87	441.87	284.19	235.71
180.0	583.97	529.71	486.66	439.29	439.29	325.44	275.92	217.54	171.12
225.0	536.60	492.68	448.16	398.30	336.55	286.95	239.06	179.73	136.24
270.0	588.27	549.52	505.60	459.96	436.71	436.71	299.69	251.21	205.22
315.0	550.99	509.13	465.04	408.55	359.97	298.83	249.49	201.17	146.14
360.0	613.51	577.25	523.51	477.10	416.21	367.73	316.92	256.03	207.29

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	160.52	116.17	68.21	38.41	19.81	13.26	11.97	11.20	10.33
45.0	192.04	147.18	104.81	67.78	33.33	17.31	12.40	11.28	10.51
90.0	140.80	99.29	62.69	28.68	16.36	12.66	11.97	11.11	10.08
135.0	176.03	133.48	92.92	58.04	26.96	15.85	13.26	12.49	11.54
180.0	126.68	78.02	45.73	24.11	14.90	12.66	12.06	11.37	10.85
225.0	87.84	55.29	30.23	14.55	12.31	11.54	10.68	9.65	8.96
270.0	148.64	107.56	70.27	33.50	18.17	13.26	12.49	11.71	10.51
315.0	105.15	68.38	40.05	18.17	13.69	12.83	11.88	10.68	9.82
360.0	160.52	116.17	68.21	38.41	19.81	13.26	11.97	11.20	10.33

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.47	8.87	8.10	7.15	5.94	5.77	5.43	5.25	5.17
45.0	9.65	8.87	8.27	7.66	6.72	5.86	5.68	5.43	5.25
90.0	9.30	8.53	7.49	6.54	5.68	5.51	5.25	5.08	4.91
135.0	10.68	9.99	9.30	8.53	7.58	5.68	5.43	5.34	5.08
180.0	10.51	10.33	9.99	7.32	5.68	5.60	5.34	5.25	5.08
225.0	8.35	7.75	6.72	5.68	5.60	5.25	5.08	4.99	4.82
270.0	9.65	8.78	8.01	6.72	5.68	5.51	5.25	5.08	4.99
315.0	8.96	7.84	6.89	5.68	5.51	5.34	5.17	4.99	4.82
360.0	9.47	8.87	8.10	7.15	5.94	5.77	5.43	5.25	5.17

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.99	4.91	4.82	4.74	4.74	4.74	4.65	4.65	4.56
45.0	4.99	4.91	4.91	4.74	4.74	4.65	4.65	4.56	4.56
90.0	4.91	4.82	4.65	4.65	4.65	4.56	4.56	4.48	4.48
135.0	4.99	4.82	4.82	4.74	4.74	4.65	4.65	4.65	4.56
180.0	4.91	4.82	4.82	4.74	4.65	4.65	4.65	4.56	4.56
225.0	4.82	4.74	4.74	4.56	4.65	4.56	4.56	4.48	4.48
270.0	4.82	4.82	4.65	4.65	4.65	4.65	4.56	4.56	4.48
315.0	4.82	4.82	4.65	4.65	4.56	4.56	4.56	4.56	4.48
360.0	4.99	4.91	4.82	4.74	4.74	4.74	4.65	4.65	4.56

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.56	4.56	4.48	4.48	4.56	4.48	4.48	4.48	4.48
45.0	4.56	4.56	4.56	4.48	4.48	4.48	4.48	4.39	4.48
90.0	4.48	4.48	4.48	4.48	4.48	4.39	4.39	4.39	4.39
135.0	4.56	4.48	4.56	4.48	4.48	4.48	4.39	4.39	4.39
180.0	4.56	4.48	4.48	4.48	4.48	4.48	4.39	4.48	4.39
225.0	4.48	4.48	4.48	4.48	4.39	4.48	4.39	4.39	4.39
270.0	4.48	4.48	4.39	4.39	4.39	4.39	4.39	4.39	4.39
315.0	4.48	4.48	4.48	4.48	4.39	4.39	4.39	4.39	4.39
360.0	4.56	4.56	4.48	4.48	4.56	4.48	4.48	4.48	4.48

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.48	4.39	4.48	4.48	4.39	4.31	4.31	4.31	4.22
45.0	4.39	4.48	4.39	4.39	4.39	4.31	4.31	4.31	4.31
90.0	4.39	4.39	4.39	4.31	4.22	4.22	4.31	4.22	4.31
135.0	4.48	4.39	4.39	4.39	4.39	4.31	4.22	4.31	4.31
180.0	4.48	4.39	4.39	4.39	4.31	4.31	4.22	4.31	4.22
225.0	4.39	4.39	4.39	4.31	4.39	4.22	4.22	4.31	4.31
270.0	4.39	4.39	4.39	4.31	4.31	4.31	4.31	4.31	4.22
315.0	4.39	4.39	4.31	4.31	4.31	4.31	4.22	4.31	4.22
360.0	4.48	4.39	4.48	4.48	4.39	4.31	4.31	4.31	4.22

Intensity data(cd)

C/γ(°)	90.0
0.0	4.31
45.0	4.31
90.0	4.22
135.0	4.22
180.0	4.31
225.0	4.22
270.0	4.22
315.0	4.31
360.0	4.31