NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 2-2689-L
Luminaire: 92.70.412.00
Report No: 2024322-B024
Ballast type: AC

Test No: 2024322-C024	Voltage(V): 34.760
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.577
Lamp flux(lm): 3486.0	Power (W): 20.056
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2884.43, Efficiency(%): 82.74% , Luminous Efficacy(lm/W): 143.82
Central intensity(cd): 5237.968, Maximum intensity(cd): 5237.968
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=44.2
[C90/270]Total=44.2
Field angle(10%Imax): [C0/180]Total=65.8
[C90/270]Total=65.8
Maximum s/h(1/2): C0_180=0.71 C90_270=0.71
Maximum s/h(1/4): C0_180=0.70 C90_270=0.70
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.74%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.839%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5237.969	0.000	0	0.00%	0.00%
1.0	5236.506	5.012	5.012	0.14%	0.17%
2.0	5229.190	15.021	20.033	0.43%	0.69%
3.0	5211.195	24.970	45.003	0.72%	1.56%
4.0	5182.372	34.791	79.794	1.00%	2.77%
5.0	5139.358	44.404	124.197	1.27%	4.31%
6.0	5082.738	53.720	177.917	1.54%	6.17%
7.0	5012.072	62.658	240.575	1.80%	8.34%
8.0	4922.898	71.103	311.678	2.04%	10.81%
9.0	4824.141	78.994	390.673	2.27%	13.54%
10.0	4706.584	86.250	476.922	2.47%	16.53%
11.0	4574.470	92.737	569.659	2.66%	19.75%
12.0	4428.090	98.411	668.07	2.82%	23.16%
13.0	4268.982	103.212	771.282	2.96%	26.74%
14.0	4100.364	107.127	878.409	3.07%	30.45%
15.0	3932.990	110.285	988.695	3.16%	34.28%
16.0	3751.424	112.598	1101.293	3.23%	38.18%
17.0	3584.342	114.238	1215.53	3.28%	42.14%
18.0	3396.631	115.101	1330.631	3.30%	46.13%
19.0	3213.236	114.998	1445.63	3.30%	50.12%
20.0	3029.988	114.268	1559.898	3.28%	54.08%
21.0	2842.716	112.768	1672.666	3.23%	57.99%
22.0	2639.935	110.176	1782.842	3.16%	61.81%
23.0	2457.345	106.955	1889.797	3.07%	65.52%
24.0	2269.854	103.354	1993.15	2.96%	69.10%
25.0	2089.751	99.128	2092.278	2.84%	72.54%
26.0	1899.040	94.156	2186.434	2.70%	75.80%
27.0	1615.206	85.977	2272.411	2.47%	78.78%
28.0	1380.816	75.853	2348.264	2.18%	81.41%
29.0	1236.061	68.465	2416.729	1.96%	83.79%
30.0	1056.119	61.888	2478.617	1.78%	85.93%
31.0	851.744	53.093	2531.71	1.52%	87.77%
32.0	665.240	43.460	2575.17	1.25%	89.28%
33.0	501.333	34.368	2609.538	0.99%	90.47%
34.0	372.057	26.431	2635.969	0.76%	91.39%
35.0	275.934	20.124	2656.093	0.58%	92.08%
36.0	237.784	16.357	2672.45	0.47%	92.65%
37.0	199.635	14.266	2686.716	0.41%	93.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	147.491	11.587	2698.303	0.33%	93.55%
39.0	132.532	9.558	2707.861	0.27%	93.88%
40.0	121.354	8.855	2716.715	0.25%	94.19%
41.0	111.873	8.305	2725.02	0.24%	94.47%
42.0	103.190	7.814	2732.834	0.22%	94.74%
43.0	95.874	7.374	2740.208	0.21%	95.00%
44.0	88.727	6.967	2747.175	0.20%	95.24%
45.0	82.846	6.594	2753.769	0.19%	95.47%
46.0	77.089	6.255	2760.024	0.18%	95.69%
47.0	72.275	5.941	2765.964	0.17%	95.89%
48.0	67.476	5.649	2771.614	0.16%	96.09%
49.0	63.329	5.372	2776.986	0.15%	96.28%
50.0	59.386	5.116	2782.102	0.15%	96.45%
51.0	55.904	4.878	2786.98	0.14%	96.62%
52.0	52.597	4.656	2791.635	0.13%	96.78%
53.0	49.364	4.435	2796.071	0.13%	96.94%
54.0	46.628	4.231	2800.302	0.12%	97.08%
55.0	43.848	4.039	2804.34	0.12%	97.22%
56.0	41.544	3.859	2808.199	0.11%	97.36%
57.0	39.305	3.697	2811.896	0.11%	97.49%
58.0	37.242	3.540	2815.435	0.10%	97.61%
59.0	35.370	3.395	2818.83	0.10%	97.73%
60.0	33.599	3.258	2822.088	0.09%	97.84%
61.0	31.968	3.129	2825.217	0.09%	97.95%
62.0	30.154	2.993	2828.211	0.09%	98.05%
63.0	28.508	2.853	2831.064	0.08%	98.15%
64.0	26.818	2.715	2833.779	0.08%	98.24%
65.0	25.245	2.577	2836.355	0.07%	98.33%
66.0	23.599	2.437	2838.792	0.07%	98.42%
67.0	22.290	2.307	2841.1	0.07%	98.50%
68.0	21.478	2.217	2843.317	0.06%	98.57%
69.0	21.222	2.178	2845.495	0.06%	98.65%
70.0	21.112	2.174	2847.669	0.06%	98.73%
71.0	21.134	2.183	2849.853	0.06%	98.80%
72.0	20.929	2.187	2852.04	0.06%	98.88%
73.0	20.541	2.169	2854.208	0.06%	98.95%
74.0	20.110	2.137	2856.346	0.06%	99.03%
75.0	19.788	2.108	2858.454	0.06%	99.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.386	2.079	2860.533	0.06%	99.17%
77.0	18.859	2.039	2862.572	0.06%	99.24%
78.0	18.413	1.995	2864.567	0.06%	99.31%
79.0	17.974	1.955	2866.522	0.06%	99.38%
80.0	17.440	1.909	2868.432	0.05%	99.45%
81.0	16.876	1.856	2870.287	0.05%	99.51%
82.0	16.584	1.814	2872.102	0.05%	99.57%
83.0	16.247	1.785	2873.887	0.05%	99.63%
84.0	15.567	1.733	2875.62	0.05%	99.69%
85.0	14.528	1.643	2877.262	0.05%	99.75%
86.0	13.745	1.545	2878.808	0.04%	99.81%
87.0	13.314	1.481	2880.289	0.04%	99.86%
88.0	12.743	1.427	2881.716	0.04%	99.91%
89.0	12.253	1.370	2883.086	0.04%	99.95%
90.0	12.195	1.340	2884.427	0.04%	100.00%

Zonal flux distribution table

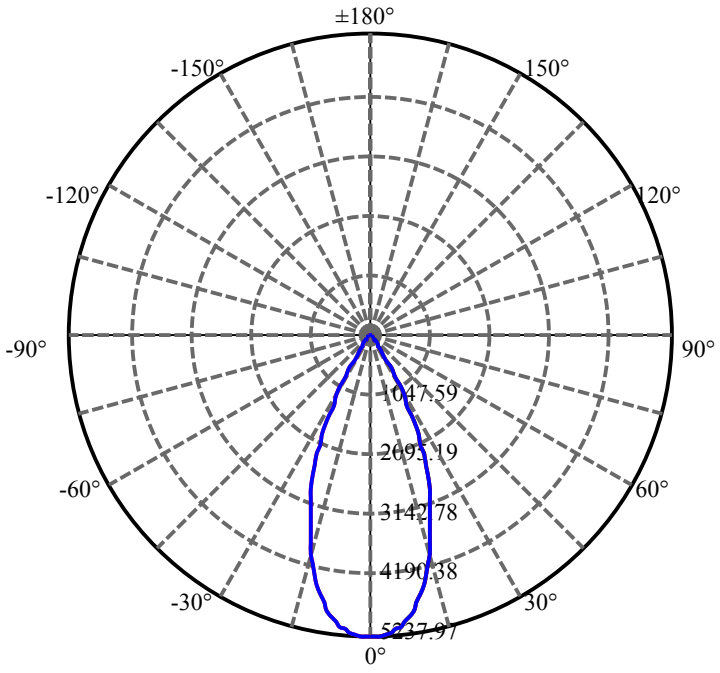
ZONAL LUMEN SUMMARY

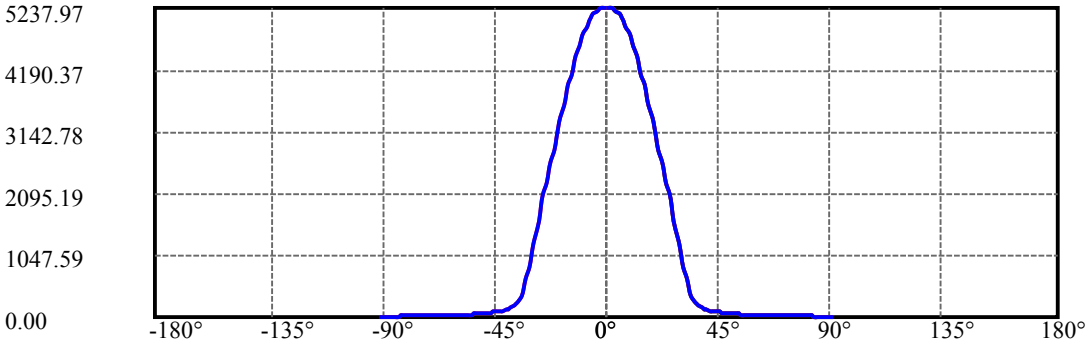
Zone	Lumens	%Lamp	%Fixt
0-30	2478.62	71.10%	85.93%
0-40	2716.72	77.93%	94.19%
0-60	2822.09	80.95%	97.84%
0-90	2883.09	82.70%	99.95%
0-120	2883.09	82.70%	99.95%
0-180	2884.43	82.74%	100.00%
60-90	61.00	1.75%	2.11%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.46	2307.54	66.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	476.92
10-20	1082.98
20-30	918.72
30-40	238.10
40-50	65.39
50-60	39.99
60-70	25.58
70-80	20.76
80-90	14.65
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):

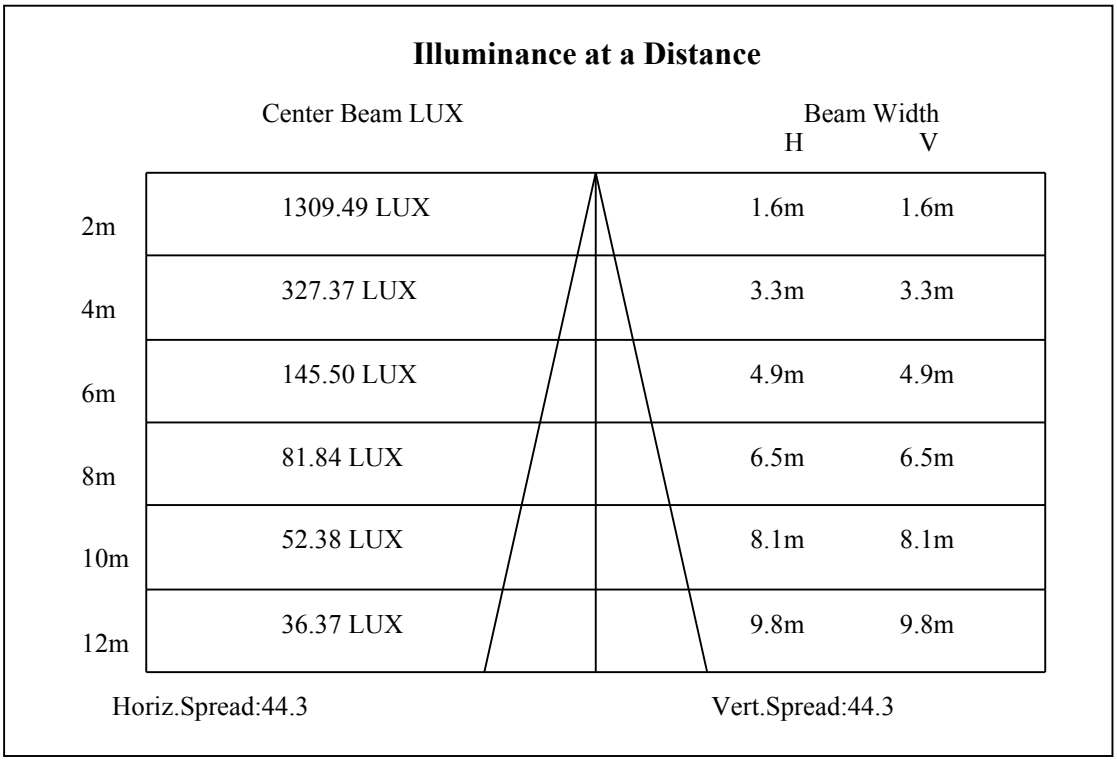
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.9 Right:32.9
:C90/270Left:32.9 Right:32.9

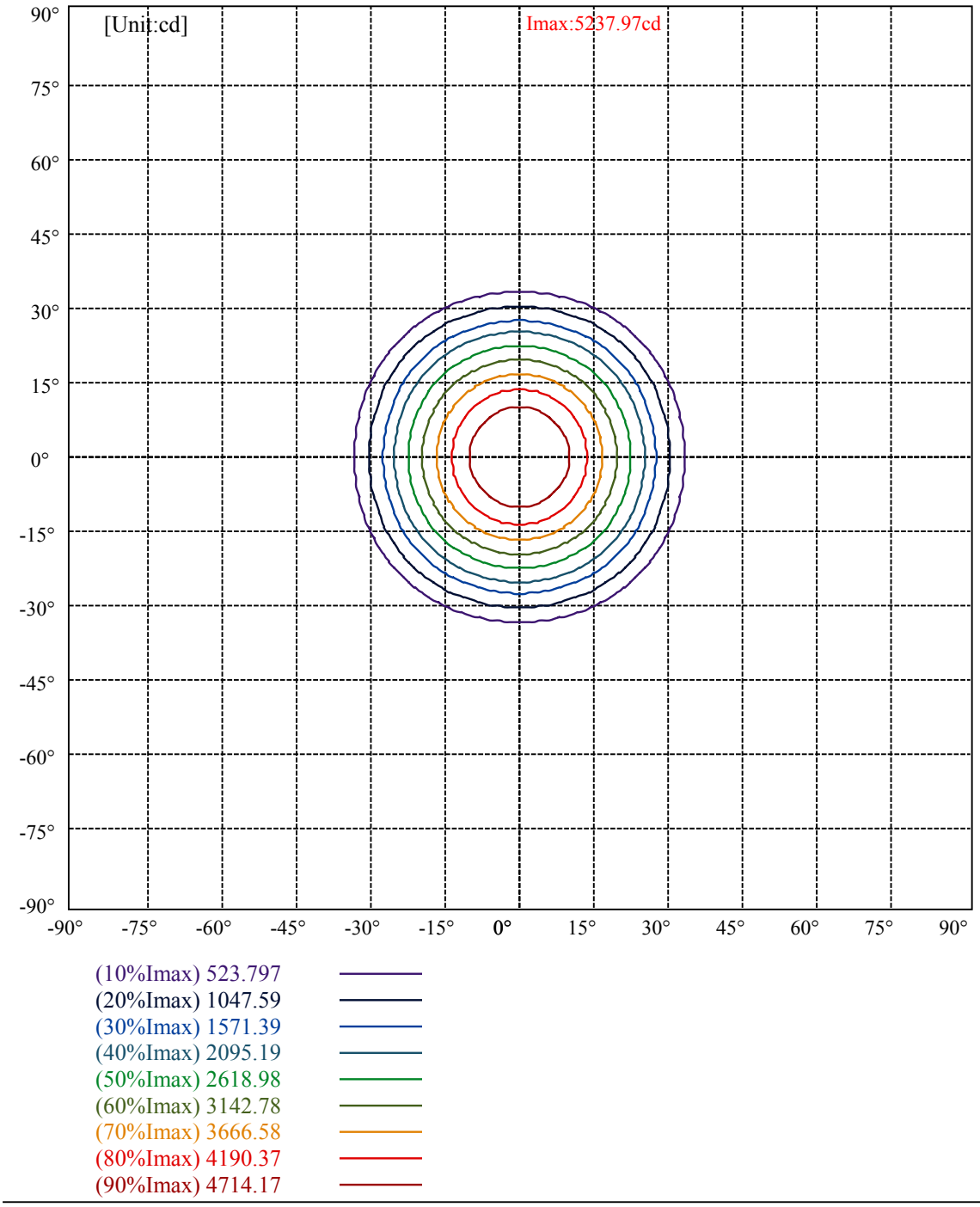
Beam Angle(50%Imax):C0/180Left:22.1 Right:22.1
:C90/270Left:22.1 Right:22.1

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

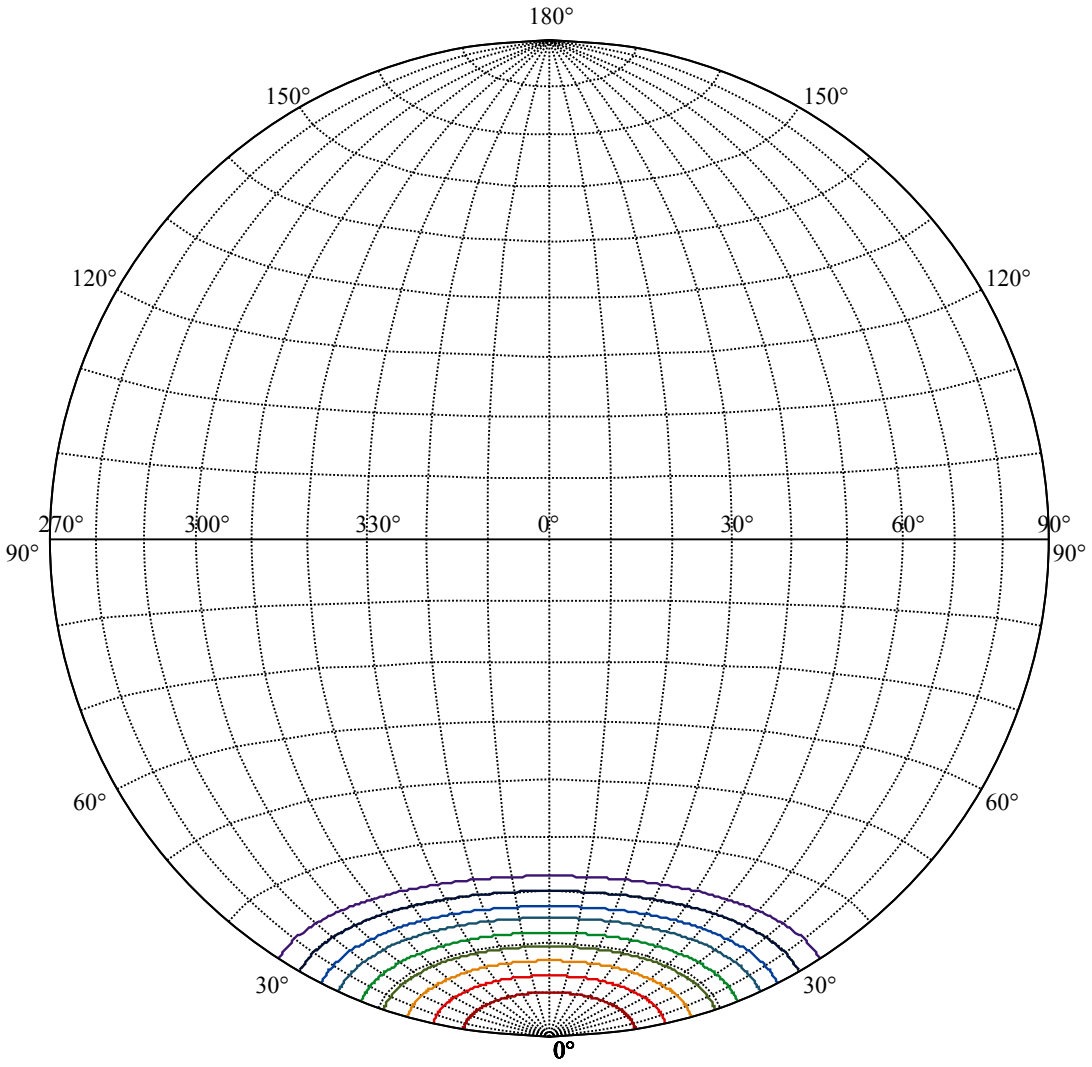


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5237.97

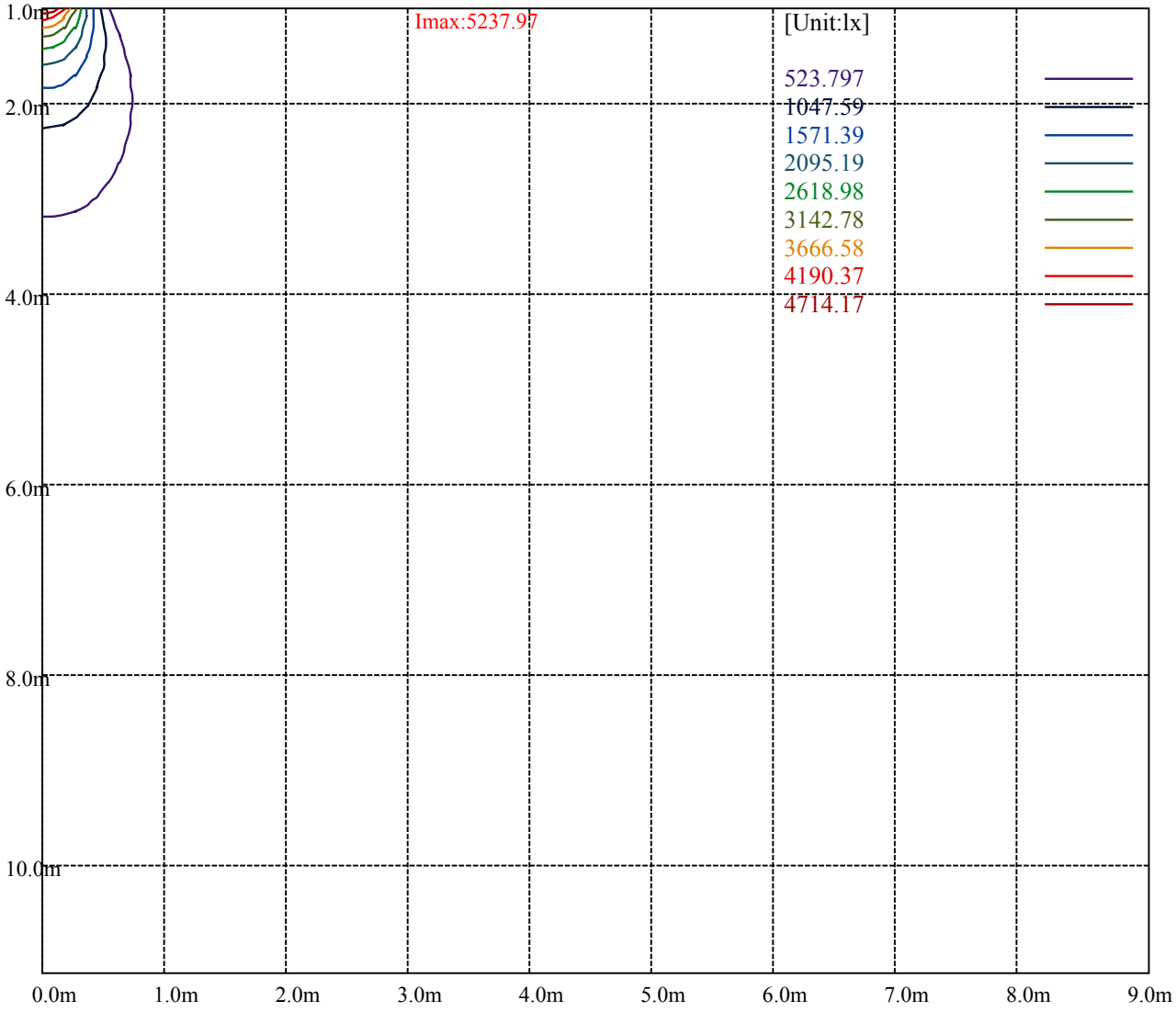
(10%Imax) 523.797
(20%Imax) 1047.59
(30%Imax) 1571.39
(40%Imax) 2095.19
(50%Imax) 2618.98
(60%Imax) 3142.78
(70%Imax) 3666.58
(80%Imax) 4190.37
(90%Imax) 4714.17

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2689-L

Luminance Limitting Curve(no luminous side)

Luminance Table

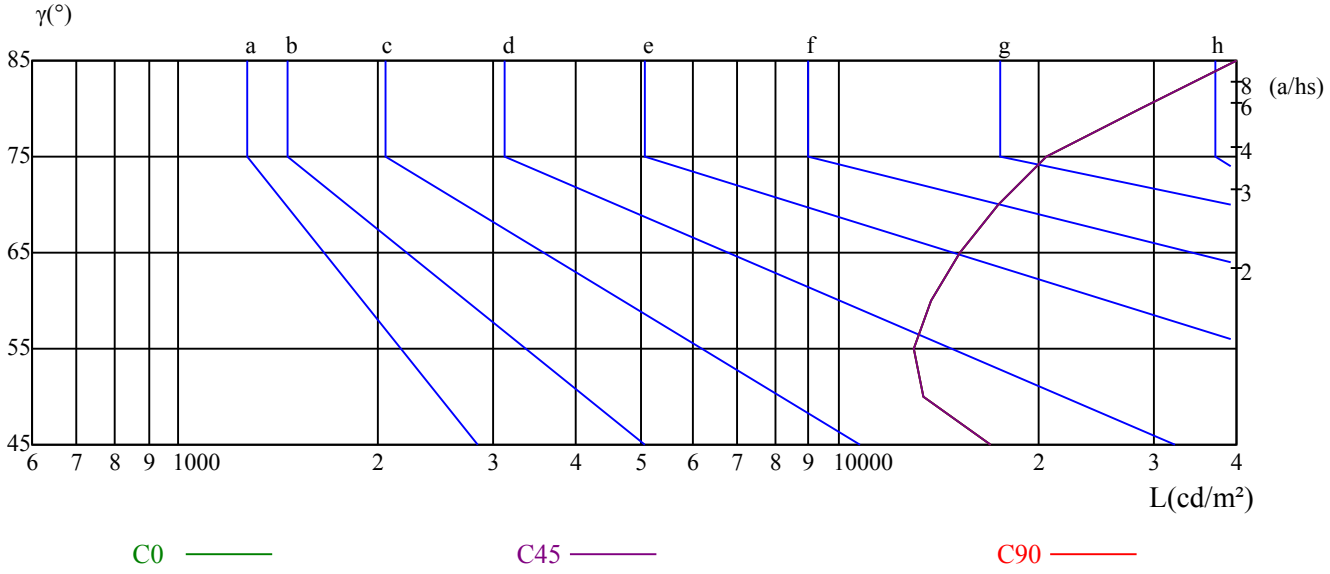
γ	45	50	55	60	65	70	75	80	85
C0	16916	13424	12973	13807	15255	17397	20571	28543	54228
C45	16916	13424	12973	13807	15255	17397	20571	28543	54228
C90	16916	13424	12973	13807	15255	17397	20571	28543	54228

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15255	15255	15255	20571	20571	20571	54228	54228	54228

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

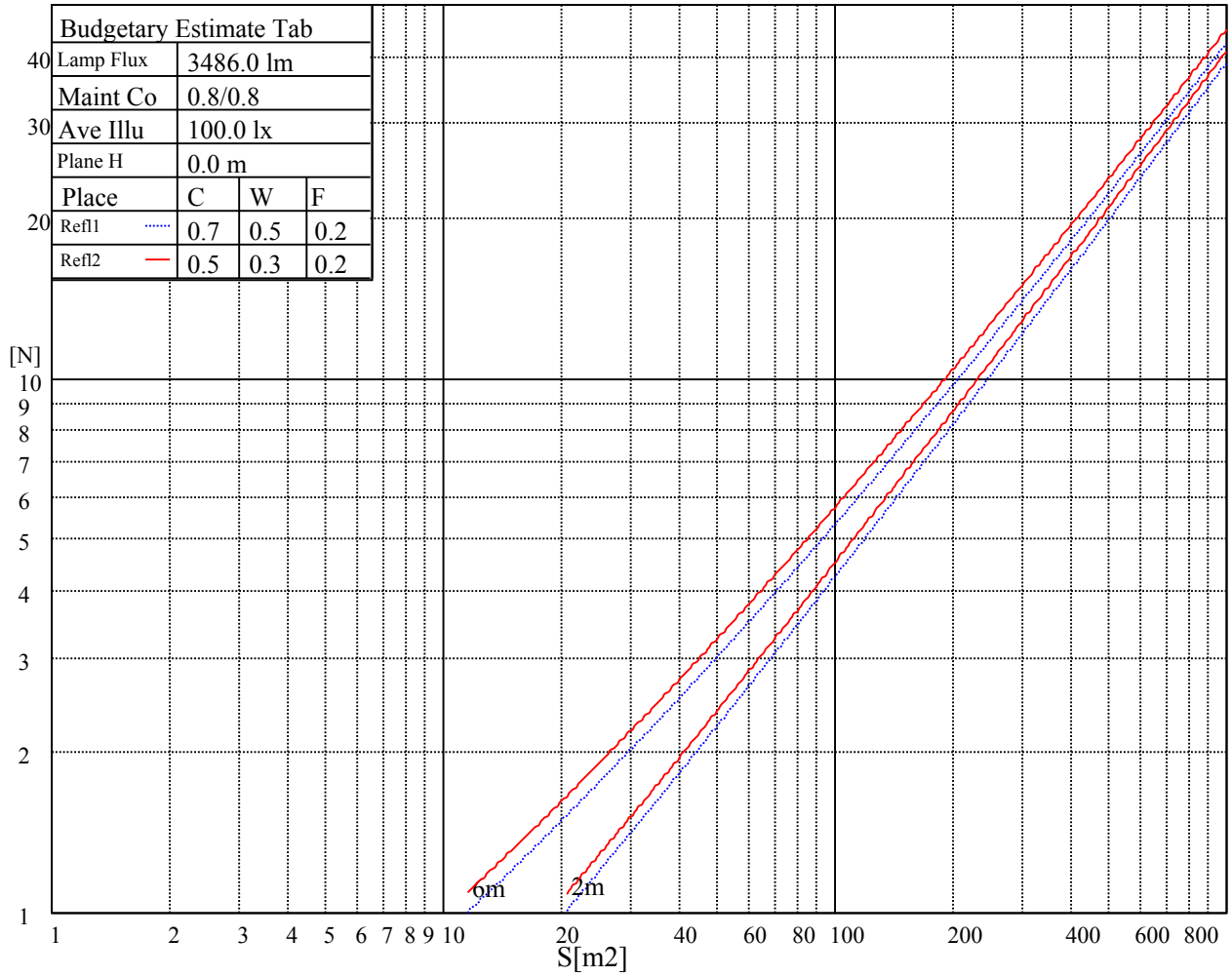
Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:										
S = 1.0H	非数字/非数字					非数字/非数字				
S = 1.5H	非数字/非数字					非数字/非数字				
S = 2.0H	非数字/非数字					非数字/非数字				
Standard tables:	BK0					BK0				
Uncorrected UGR	负无穷大					负无穷大				

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

Budgetary Estimate Table

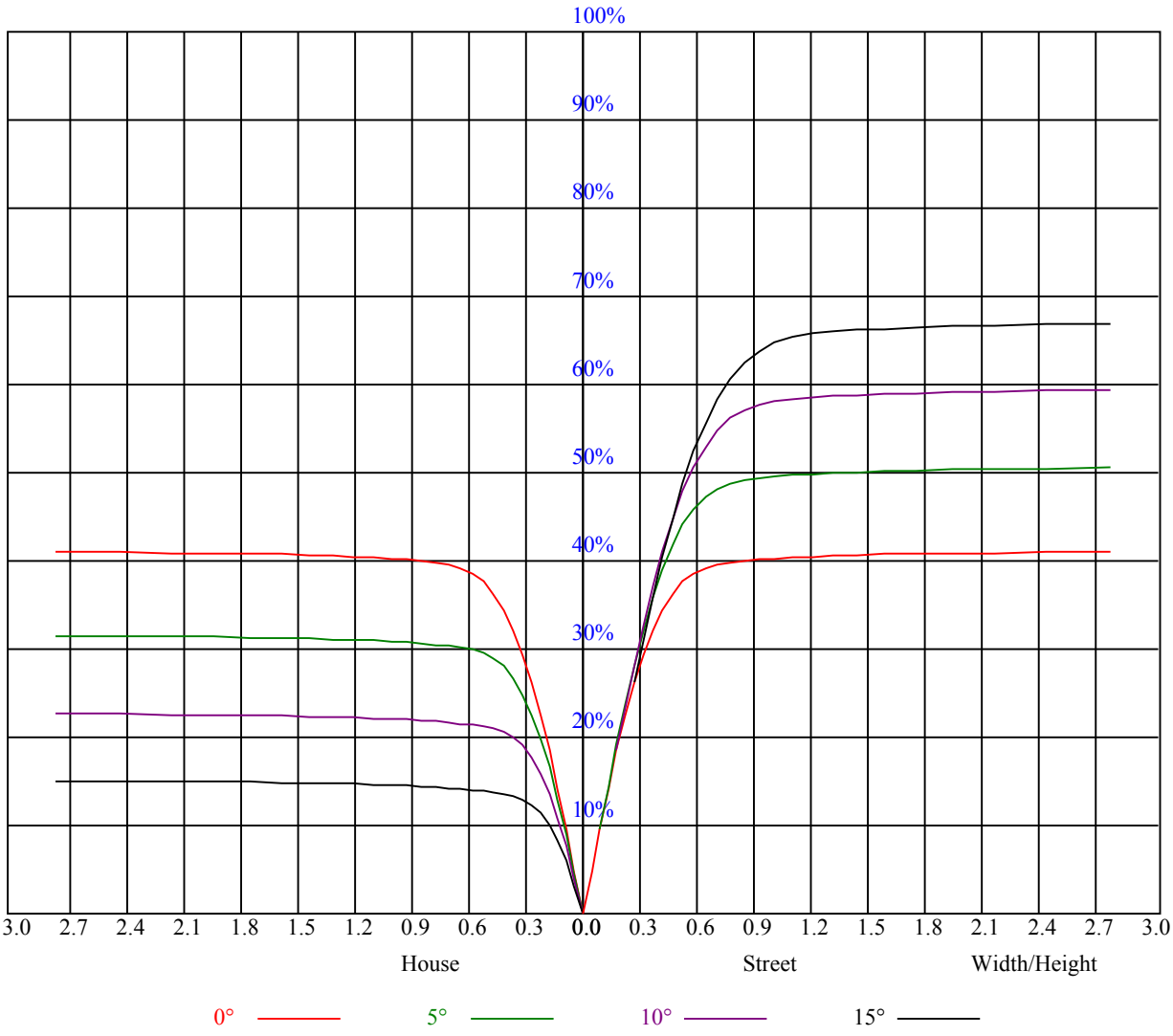


Equipment: GMS1980 Date: 2024/3/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

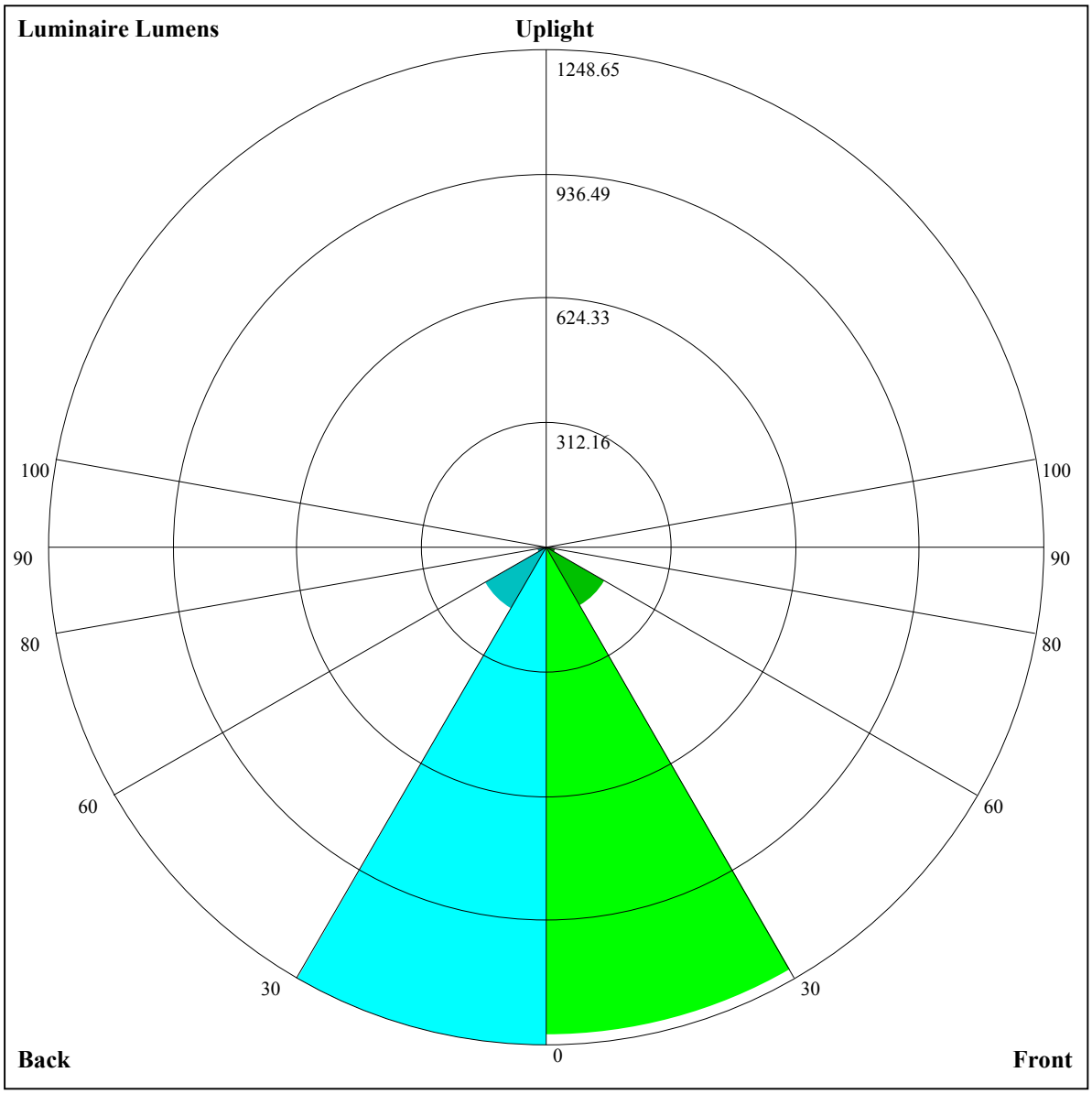
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.75	0.73
3	0.81	0.77	0.74	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.70	0.67	0.71	0.69	0.67	0.65
5	0.73	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.56	0.53	0.60	0.55	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/22	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1224.7,FM=169.03,FH=23.52,FVH=8.01
BL=1248.65,BM=178.32,BH=22.52,BVH=8.01
UL=0,UH=0

BUG Rating:B3-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	5243.67	5241.92	5224.36	5200.95	5161.74	5099.71	5036.50	4956.91	4842.21
45.0	5238.99	5241.33	5242.50	5231.97	5220.85	5187.49	5145.36	5088.59	5001.39
90.0	5238.99	5237.82	5239.58	5226.12	5198.61	5147.11	5093.86	5024.80	4948.14
135.0	5230.21	5231.97	5234.31	5230.21	5216.75	5192.76	5155.31	5095.61	5033.58
180.0	5243.67	5242.50	5242.50	5231.38	5205.63	5178.71	5140.09	5083.91	5004.32
225.0	5238.99	5236.07	5217.34	5193.35	5152.38	5099.71	5038.26	4944.04	4851.57
270.0	5238.99	5237.24	5229.63	5209.73	5181.06	5144.19	5077.47	5012.51	4912.44
315.0	5230.21	5223.19	5203.29	5165.84	5121.95	5065.18	4975.06	4890.20	4789.54
360.0	5243.67	5241.92	5224.36	5200.95	5161.74	5099.71	5036.50	4956.91	4842.21

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4732.19	4613.39	4479.96	4340.09	4153.40	3997.73	3844.40	3644.25	3483.32
45.0	4914.78	4822.90	4686.54	4558.96	4388.08	4240.01	4090.20	3891.80	3730.87
90.0	4826.99	4716.39	4587.05	4415.58	4265.76	4076.15	3921.07	3757.79	3598.61
135.0	4960.43	4870.30	4736.28	4610.46	4477.61	4330.14	4132.92	3973.15	3770.08
180.0	4922.97	4824.07	4707.61	4572.42	4392.76	4242.35	4041.04	3879.52	3716.24
225.0	4742.72	4588.22	4446.60	4298.54	4141.11	3942.13	3778.27	3610.90	3444.69
270.0	4815.88	4700.00	4574.18	4396.85	4249.96	4087.27	3927.50	3723.85	3565.25
315.0	4677.18	4517.41	4377.54	4231.82	4083.17	3887.12	3728.53	3530.14	3365.69
360.0	4732.19	4613.39	4479.96	4340.09	4153.40	3997.73	3844.40	3644.25	3483.32

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3274.98	3106.43	2933.79	2708.48	2531.16	2355.59	2184.70	2016.16	1787.92
45.0	3571.10	3410.75	3199.48	3030.35	2851.86	2675.12	2453.32	2278.92	2108.62
90.0	3401.39	3230.50	3060.79	2886.39	2661.08	2479.07	2303.50	2130.28	1916.67
135.0	3606.21	3441.77	3232.84	3061.37	2883.46	2700.29	2474.39	2301.75	2129.69
180.0	3501.46	3319.45	3146.81	2978.27	2726.62	2561.00	2367.88	2168.32	1985.14
225.0	3227.57	3052.01	2867.66	2638.25	2450.98	2237.96	2070.00	1890.34	1699.55
270.0	3396.70	3168.47	3005.77	2829.62	2584.41	2424.06	2241.47	2044.83	1865.76
315.0	3193.63	2976.51	2792.75	2608.99	2429.91	2225.67	2063.56	1887.41	1698.97
360.0	3274.98	3106.43	2933.79	2708.48	2531.16	2355.59	2184.70	2016.16	1787.92

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1590.70	1137.79	1137.79	943.79	762.78	558.83	418.96	305.55	226.54
45.0	1882.73	1688.43	1442.64	1241.32	1042.93	855.07	641.47	490.48	361.73
90.0	1727.06	1127.67	1127.67	1078.63	888.02	671.19	516.64	383.61	258.85
135.0	1948.86	1705.99	1504.67	1301.01	1055.22	870.29	695.31	503.94	373.43
180.0	1806.65	1611.18	1348.42	1143.59	944.61	721.64	561.87	424.93	295.01
225.0	1150.61	1150.61	1052.00	861.74	650.01	498.49	373.67	276.23	201.67
270.0	1666.78	1476.58	1226.69	1022.45	832.25	660.19	470.58	347.10	297.35
315.0	1148.27	1148.27	1048.61	856.42	638.13	486.20	332.17	244.62	192.89
360.0	1590.70	1137.79	1137.79	943.79	762.78	558.83	418.96	305.55	226.54

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	174.75	153.62	138.58	124.24	115.11	106.69	97.38	90.89	84.97
45.0	307.30	307.30	156.37	138.93	126.76	114.94	106.80	99.55	91.53
90.0	198.68	167.20	147.13	129.63	119.33	110.43	102.36	93.64	87.32
135.0	296.18	296.18	169.19	149.35	132.38	121.90	112.77	104.52	95.45
180.0	295.01	214.08	156.84	141.62	129.80	119.68	108.91	101.19	94.22
225.0	172.47	152.22	135.13	124.83	116.05	106.16	99.08	92.52	85.27
270.0	297.35	162.81	145.37	130.33	120.85	112.42	102.71	95.74	89.31
315.0	160.53	143.67	131.32	121.32	110.55	102.77	95.51	88.95	81.76
360.0	174.75	153.62	138.58	124.24	115.11	106.69	97.38	90.89	84.97

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	79.53	73.39	68.94	64.84	60.22	56.83	53.78	50.04	47.34
45.0	85.79	79.47	74.85	70.46	65.43	61.62	58.35	55.25	51.68
90.0	80.47	75.61	70.99	65.95	62.21	58.82	54.95	52.03	49.28
135.0	88.95	83.22	77.95	71.98	67.71	62.68	59.17	55.89	52.26
180.0	87.96	81.05	76.14	70.64	66.54	62.74	58.35	55.13	51.97
225.0	79.94	75.14	70.81	65.78	62.03	58.58	55.30	51.32	48.40
270.0	83.63	77.13	72.33	68.00	63.97	59.46	56.18	52.96	49.16
315.0	76.49	71.69	66.19	62.15	58.52	54.37	51.15	48.16	44.83
360.0	79.53	73.39	68.94	64.84	60.22	56.83	53.78	50.04	47.34

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	44.95	42.08	40.09	38.10	35.87	34.35	32.83	31.43	29.38
45.0	48.98	46.41	44.07	41.90	39.39	37.45	35.17	33.53	31.60
90.0	46.70	43.66	41.43	39.44	37.51	35.35	33.77	32.25	30.31
135.0	49.39	46.76	44.30	41.43	39.33	37.34	35.52	33.42	31.78
180.0	49.04	45.71	43.31	40.97	38.92	36.52	34.82	33.12	31.19
225.0	45.12	42.72	40.50	37.92	36.23	34.53	32.54	31.02	29.32
270.0	46.47	43.37	41.08	38.98	36.58	34.82	33.24	31.66	29.90
315.0	42.37	40.09	37.57	35.70	34.12	32.60	30.90	29.32	27.74
360.0	44.95	42.08	40.09	38.10	35.87	34.35	32.83	31.43	29.38

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.80	26.39	25.05	23.06	22.06	21.30	21.77	23.06	24.40
45.0	29.96	28.44	26.86	25.16	23.82	23.23	23.29	24.46	26.16
90.0	28.62	26.63	25.22	23.70	22.24	21.07	20.42	19.96	19.61
135.0	30.14	28.56	26.63	25.22	23.12	21.71	20.83	20.01	19.55
180.0	29.44	27.74	25.87	24.46	22.88	21.36	20.60	20.01	19.55
225.0	27.62	25.63	24.23	22.71	21.77	22.12	22.94	22.41	21.54
270.0	28.27	26.69	25.28	23.23	21.89	20.95	20.37	19.72	19.43
315.0	26.22	24.46	22.82	21.24	20.54	20.07	19.55	19.25	18.84
360.0	27.80	26.39	25.05	23.06	22.06	21.30	21.77	23.06	24.40

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.76	24.93	25.28	25.69	25.57	24.70	23.47	21.83	18.73
45.0	26.92	26.39	25.34	25.05	24.17	23.00	22.30	21.48	20.25
90.0	19.25	18.90	18.67	18.38	18.14	17.79	17.38	17.15	17.03
135.0	19.08	18.73	18.20	17.91	17.62	17.21	16.85	16.62	16.44
180.0	19.02	18.61	18.26	17.85	17.44	17.15	16.91	16.68	16.68
225.0	20.83	19.90	19.02	18.14	17.56	17.03	16.80	16.74	16.97
270.0	19.02	18.73	18.32	17.85	17.44	17.15	16.91	16.68	16.80
315.0	18.55	18.14	17.79	17.44	17.15	16.85	16.68	16.62	16.62
360.0	24.76	24.93	25.28	25.69	25.57	24.70	23.47	21.83	18.73

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.44	16.21	16.09	15.39	14.34	13.64	13.23	12.35	12.11
45.0	18.02	16.21	15.80	15.86	15.22	14.40	13.87	13.58	12.47
90.0	16.85	16.50	16.21	15.68	14.63	13.99	13.81	12.93	12.17
135.0	16.33	16.39	16.21	16.09	15.45	14.40	13.81	13.58	12.76
180.0	16.80	16.80	16.74	16.39	15.22	13.75	13.23	12.93	12.17
225.0	16.97	16.97	16.44	14.86	13.40	12.99	12.82	12.17	12.06
270.0	17.03	17.15	16.85	15.74	14.10	13.28	13.17	12.35	12.00
315.0	16.56	16.44	15.63	14.51	13.87	13.52	12.58	12.06	12.29
360.0	16.44	16.21	16.09	15.39	14.34	13.64	13.23	12.35	12.11

Intensity data(cd)

C/γ(°)	90.0
0.0	12.17
45.0	12.17
90.0	12.11
135.0	12.11
180.0	12.06
225.0	12.17
270.0	12.29
315.0	12.47
360.0	12.17