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NATA

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.412.00
Report No: 20231011-B009
Ballast type: AC

Test No: 20231011-C009	Voltage(V): 34.870
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.530
Lamp flux(lm): 3047.8	Power (W): 18.481
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2774.94, Efficiency(%): 91.05% , Luminous Efficacy(lm/W): 150.15
Central intensity(cd): 9494.111, Maximum intensity(cd): 9494.111
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.6
[C90/270]Total=25.6
Field angle(10%Imax): [C0/180]Total=56.4
[C90/270]Total=56.4
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.05%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.118%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9494.111	0.000	0	0.00%	0.00%
1.0	9453.426	9.066	9.066	0.30%	0.33%
2.0	9303.764	26.922	35.988	0.88%	1.30%
3.0	9074.116	43.954	79.942	1.44%	2.88%
4.0	8763.444	59.708	139.65	1.96%	5.03%
5.0	8420.320	73.924	213.574	2.43%	7.70%
6.0	8031.600	86.459	300.033	2.84%	10.81%
7.0	7600.257	97.027	397.06	3.18%	14.31%
8.0	7138.331	105.481	502.541	3.46%	18.11%
9.0	6599.948	111.341	613.882	3.65%	22.12%
10.0	6127.644	115.180	729.062	3.78%	26.27%
11.0	5626.347	117.447	846.509	3.85%	30.51%
12.0	5106.646	117.327	963.836	3.85%	34.73%
13.0	4653.370	115.827	1079.662	3.80%	38.91%
14.0	4233.028	113.745	1193.408	3.73%	43.01%
15.0	3865.826	111.185	1304.592	3.65%	47.01%
16.0	3506.305	108.022	1412.615	3.54%	50.91%
17.0	3191.481	104.303	1516.917	3.42%	54.66%
18.0	2895.962	100.369	1617.286	3.29%	58.28%
19.0	2644.034	96.385	1713.67	3.16%	61.76%
20.0	2387.816	92.097	1805.767	3.02%	65.07%
21.0	2164.464	87.413	1893.18	2.87%	68.22%
22.0	1950.730	82.697	1975.877	2.71%	71.20%
23.0	1755.955	77.776	2053.653	2.55%	74.01%
24.0	1563.262	72.570	2126.223	2.38%	76.62%
25.0	1373.503	66.776	2192.999	2.19%	79.03%
26.0	1214.541	61.091	2254.09	2.00%	81.23%
27.0	1110.594	56.885	2310.975	1.87%	83.28%
28.0	974.652	52.794	2363.769	1.73%	85.18%
29.0	838.531	47.438	2411.207	1.56%	86.89%
30.0	716.795	41.993	2453.2	1.38%	88.41%
31.0	605.499	36.798	2489.998	1.21%	89.73%
32.0	507.378	31.883	2521.88	1.05%	90.88%
33.0	421.068	27.352	2549.233	0.90%	91.87%
34.0	342.279	23.101	2572.334	0.76%	92.70%
35.0	284.642	19.470	2591.804	0.64%	93.40%
36.0	245.154	16.869	2608.672	0.55%	94.01%
37.0	205.064	14.684	2623.356	0.48%	94.54%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	156.831	12.080	2635.436	0.40%	94.97%
39.0	120.103	9.453	2644.888	0.31%	95.31%
40.0	99.726	7.667	2652.555	0.25%	95.59%
41.0	85.065	6.580	2659.135	0.22%	95.83%
42.0	72.575	5.727	2664.863	0.19%	96.03%
43.0	63.691	5.048	2669.91	0.17%	96.22%
44.0	57.166	4.562	2674.472	0.15%	96.38%
45.0	51.680	4.183	2678.655	0.14%	96.53%
46.0	47.258	3.869	2682.524	0.13%	96.67%
47.0	43.425	3.607	2686.131	0.12%	96.80%
48.0	40.498	3.393	2689.523	0.11%	96.92%
49.0	37.841	3.217	2692.741	0.11%	97.04%
50.0	35.703	3.066	2695.807	0.10%	97.15%
51.0	34.056	2.951	2698.758	0.10%	97.25%
52.0	32.624	2.861	2701.62	0.09%	97.36%
53.0	31.482	2.789	2704.408	0.09%	97.46%
54.0	30.569	2.735	2707.143	0.09%	97.56%
55.0	29.787	2.694	2709.837	0.09%	97.65%
56.0	29.012	2.657	2712.494	0.09%	97.75%
57.0	28.300	2.620	2715.115	0.09%	97.84%
58.0	27.573	2.584	2717.698	0.08%	97.94%
59.0	26.805	2.542	2720.241	0.08%	98.03%
60.0	25.905	2.490	2722.731	0.08%	98.12%
61.0	24.999	2.429	2725.16	0.08%	98.21%
62.0	24.148	2.368	2727.528	0.08%	98.29%
63.0	23.304	2.308	2729.836	0.08%	98.37%
64.0	22.550	2.250	2732.086	0.07%	98.46%
65.0	21.879	2.199	2734.285	0.07%	98.53%
66.0	21.117	2.145	2736.43	0.07%	98.61%
67.0	20.419	2.089	2738.519	0.07%	98.69%
68.0	19.678	2.031	2740.55	0.07%	98.76%
69.0	18.993	1.973	2742.523	0.06%	98.83%
70.0	18.364	1.919	2744.441	0.06%	98.90%
71.0	17.706	1.864	2746.306	0.06%	98.97%
72.0	17.084	1.809	2748.115	0.06%	99.03%
73.0	16.571	1.760	2749.874	0.06%	99.10%
74.0	16.142	1.720	2751.594	0.06%	99.16%
75.0	15.707	1.683	2753.277	0.06%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.354	1.649	2754.926	0.05%	99.28%
77.0	14.987	1.618	2756.544	0.05%	99.34%
78.0	14.696	1.589	2758.132	0.05%	99.39%
79.0	14.357	1.561	2759.694	0.05%	99.45%
80.0	14.074	1.533	2761.226	0.05%	99.51%
81.0	13.811	1.508	2762.734	0.05%	99.56%
82.0	13.486	1.480	2764.214	0.05%	99.61%
83.0	13.195	1.450	2765.665	0.05%	99.67%
84.0	12.939	1.424	2767.089	0.05%	99.72%
85.0	12.517	1.389	2768.478	0.05%	99.77%
86.0	12.053	1.343	2769.821	0.04%	99.82%
87.0	11.853	1.308	2771.129	0.04%	99.86%
88.0	11.645	1.287	2772.416	0.04%	99.91%
89.0	11.486	1.268	2773.684	0.04%	99.95%
90.0	11.437	1.257	2774.941	0.04%	100.00%

Zonal flux distribution table

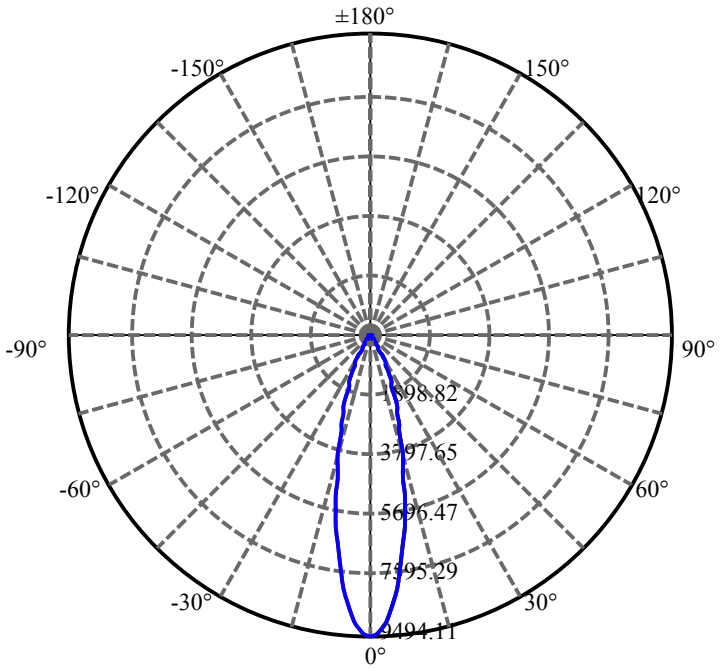
ZONAL LUMEN SUMMARY

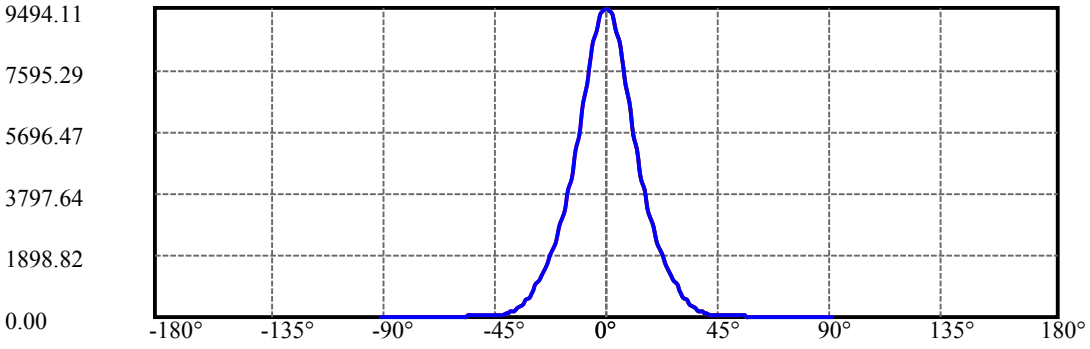
Zone	Lumens	%Lamp	%Fixt
0-30	2453.20	80.49%	88.41%
0-40	2652.55	87.03%	95.59%
0-60	2722.73	89.33%	98.12%
0-90	2773.68	91.01%	99.95%
0-120	2773.68	91.01%	99.95%
0-180	2774.94	91.05%	100.00%
60-90	50.95	1.67%	1.84%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.44	2219.95	72.84%	80.00%

ZONAL LUMEN SUMMARY

0-10	729.06
10-20	1076.71
20-30	647.43
30-40	199.35
40-50	43.25
50-60	26.92
60-70	21.71
70-80	16.79
80-90	12.46
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):

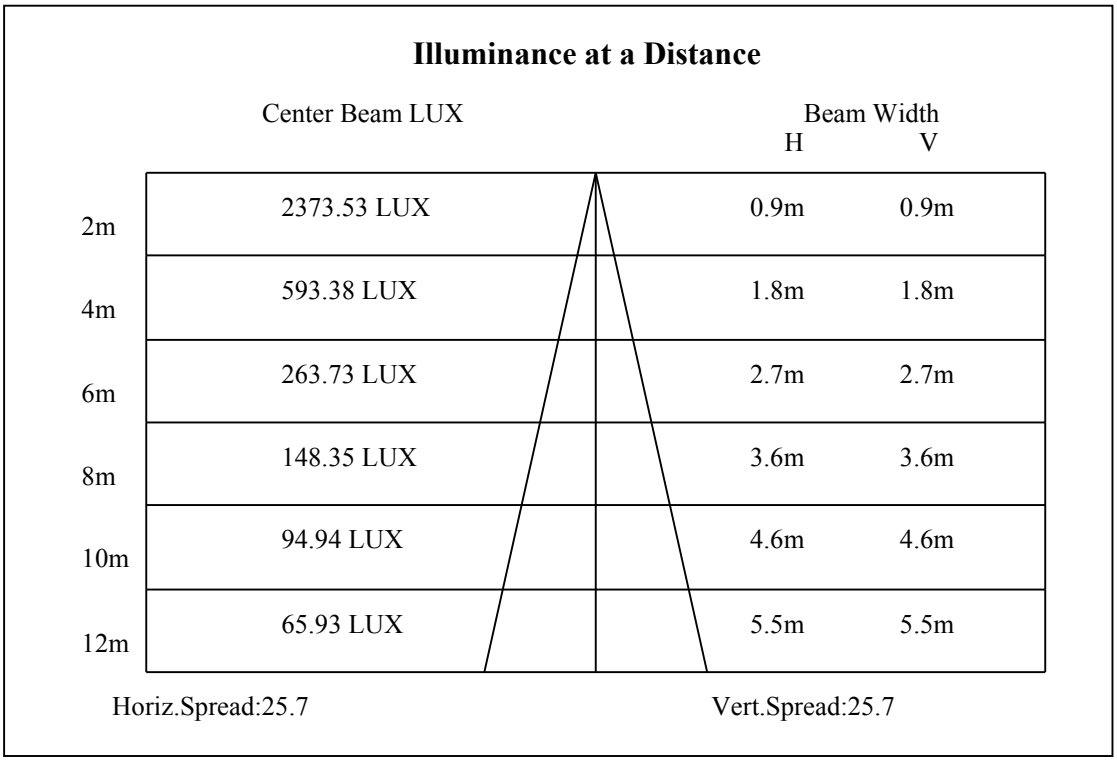
C0/C180:

C90/C270:

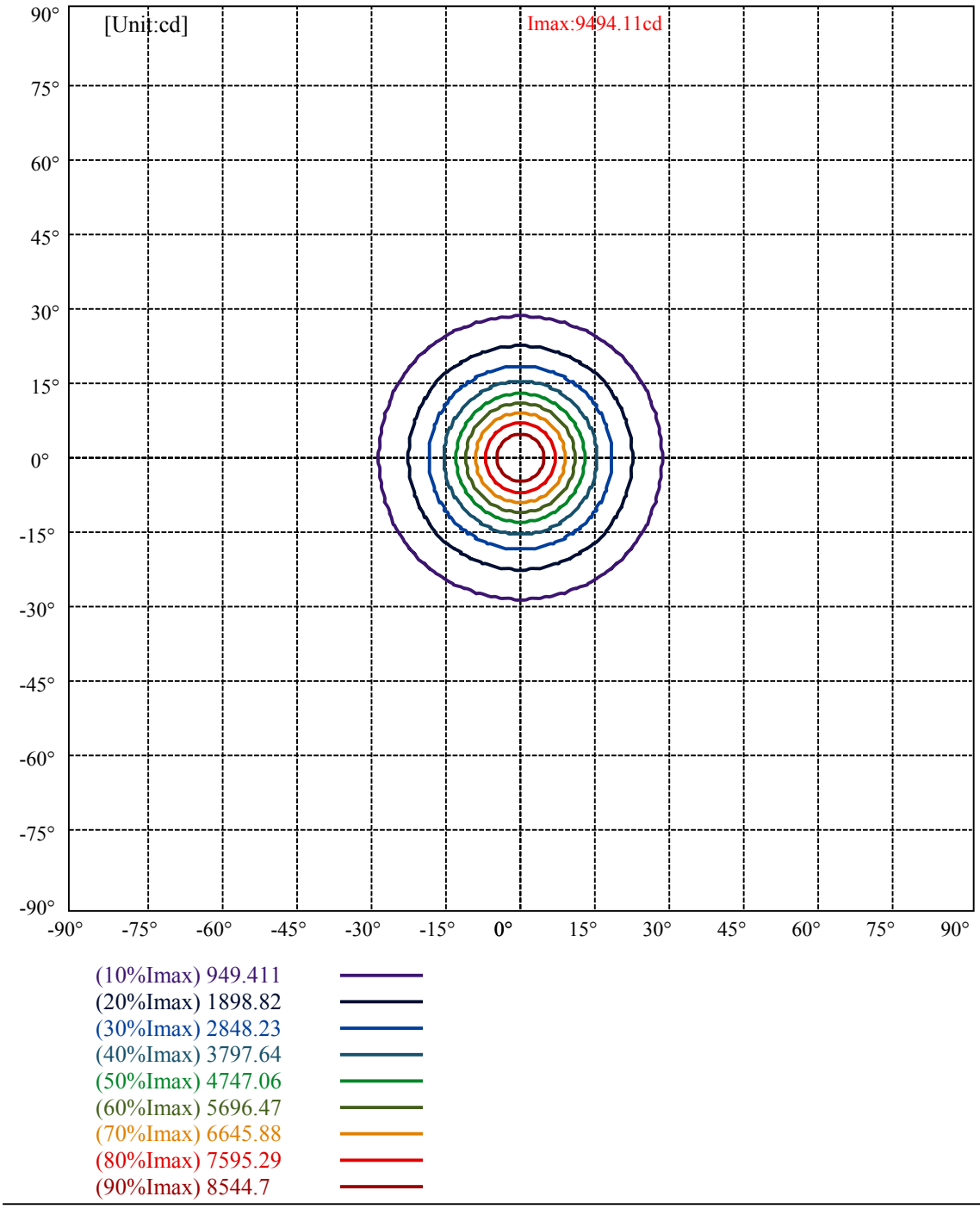
Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

Beam Angle(50%Imax):C0/180Left:12.8 Right:12.8
:C90/270Left:12.8 Right:12.8

Lux distance Curve



ISO-Intensity(V-H)

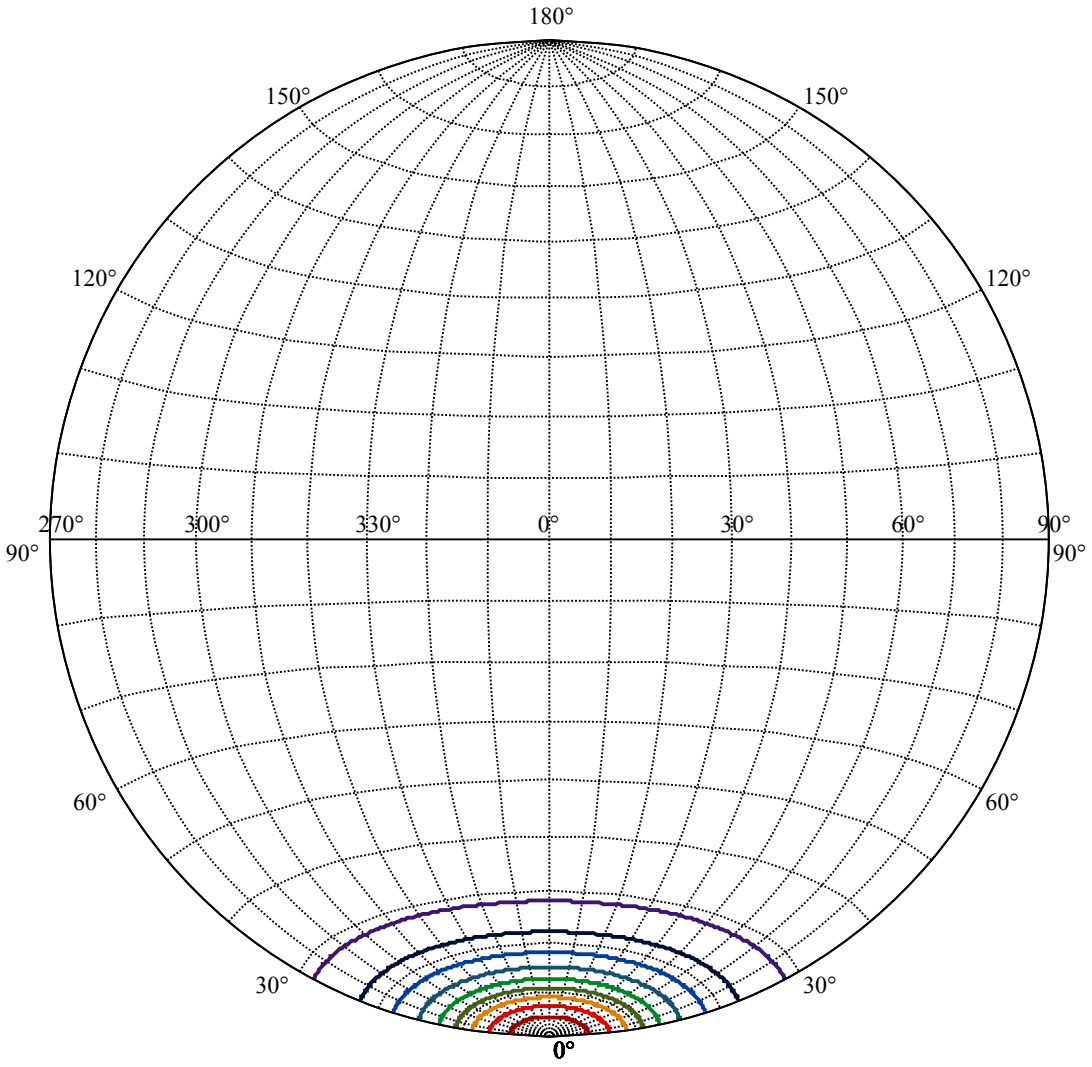


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/11
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web

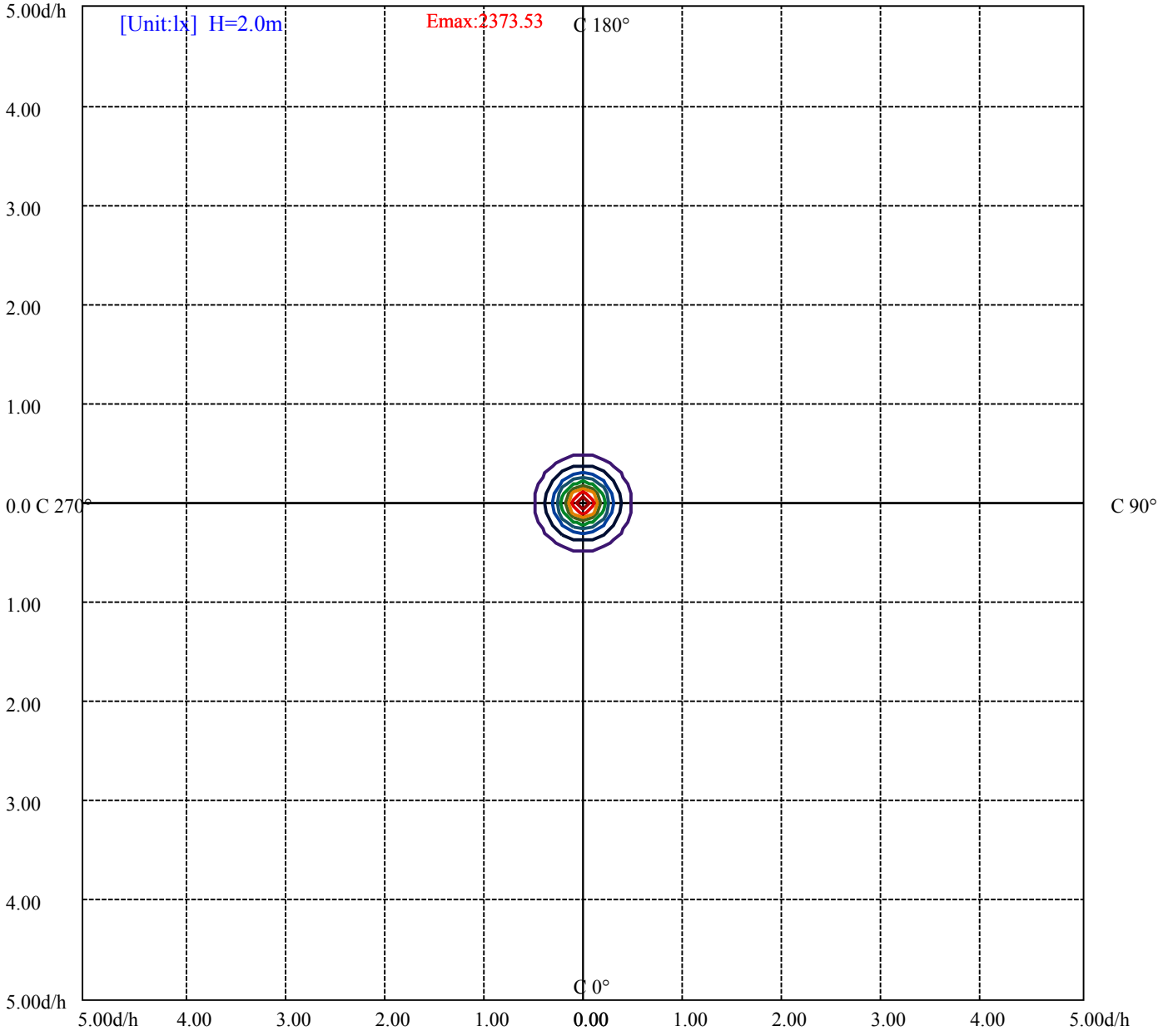


House [Unit:cd] Road

Imax:9494.11

(10%Imax) 949.411
(20%Imax) 1898.82
(30%Imax) 2848.23
(40%Imax) 3797.64
(50%Imax) 4747.06
(60%Imax) 5696.47
(70%Imax) 6645.88
(80%Imax) 7595.29
(90%Imax) 8544.7

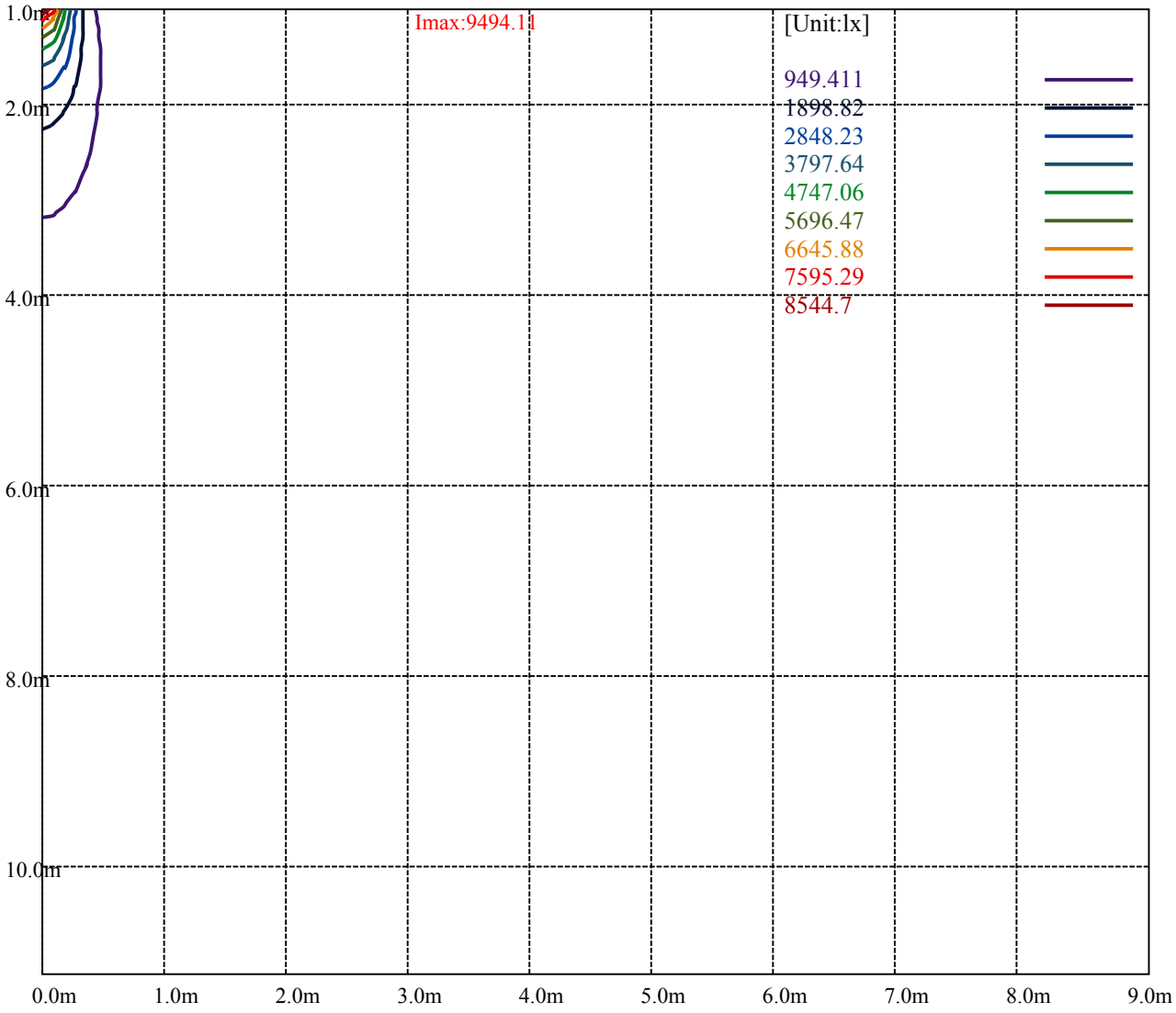
ISO illuminance diagram



(10%Emax) 237.3528
(20%Emax) 474.705
(30%Emax) 712.0575
(40%Emax) 949.41
(50%Emax) 1186.762
(60%Emax) 1424.115
(70%Emax) 1661.468
(80%Emax) 1898.82
(90%Emax) 2136.175

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/11
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/11
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

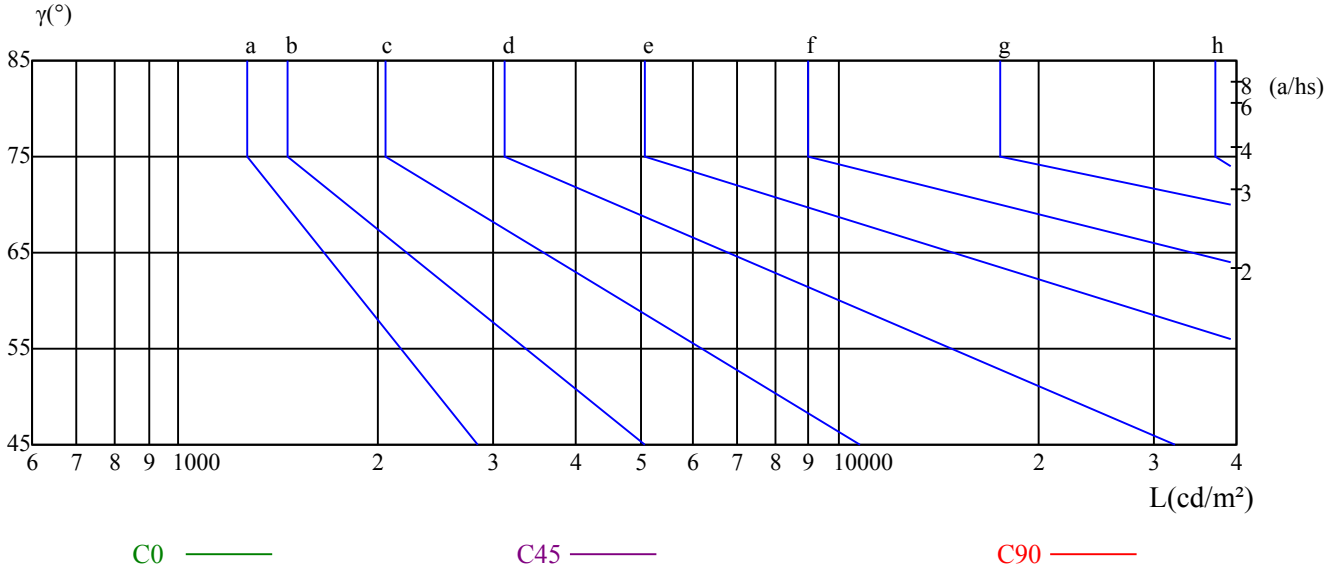
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

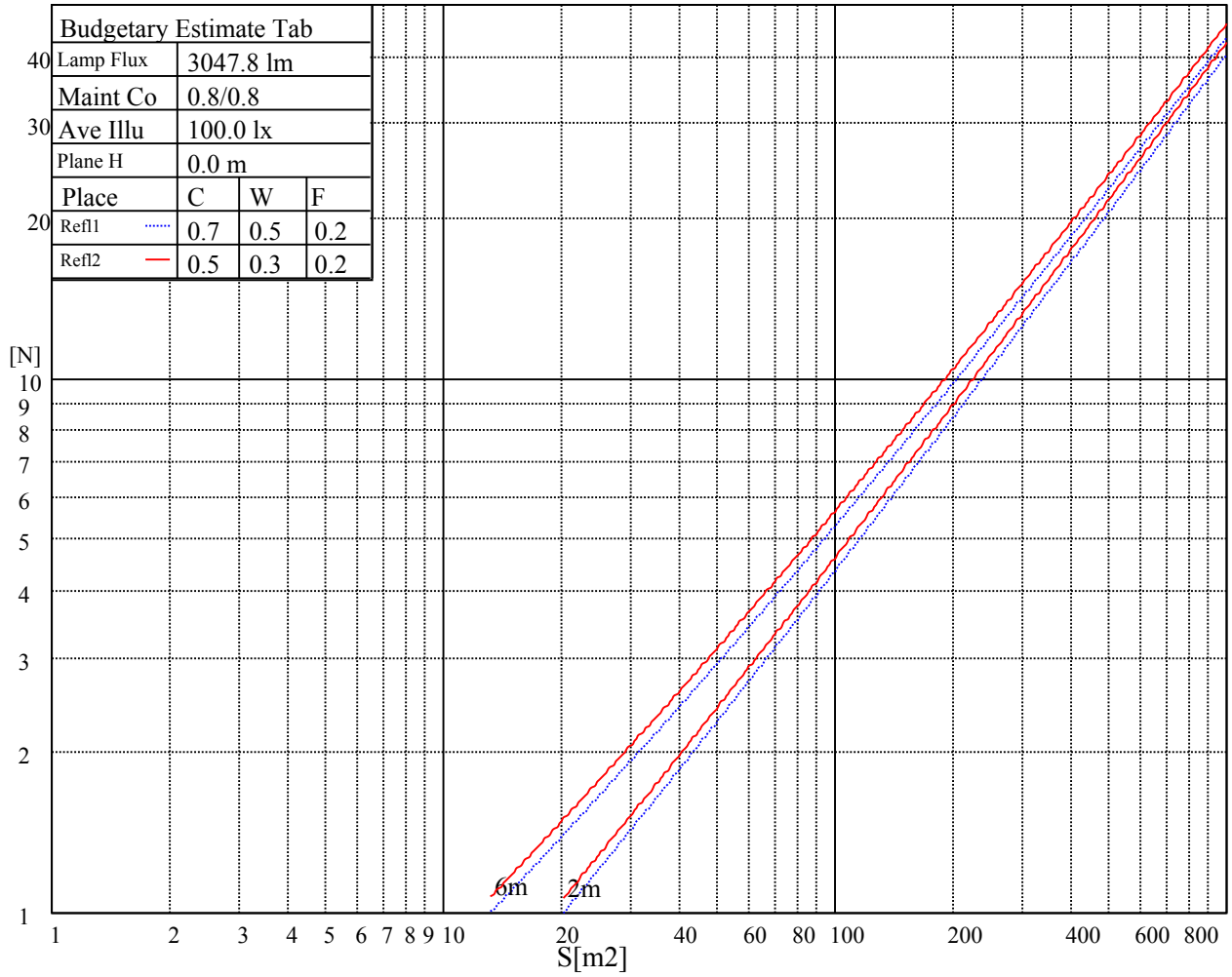


UGR Glare

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

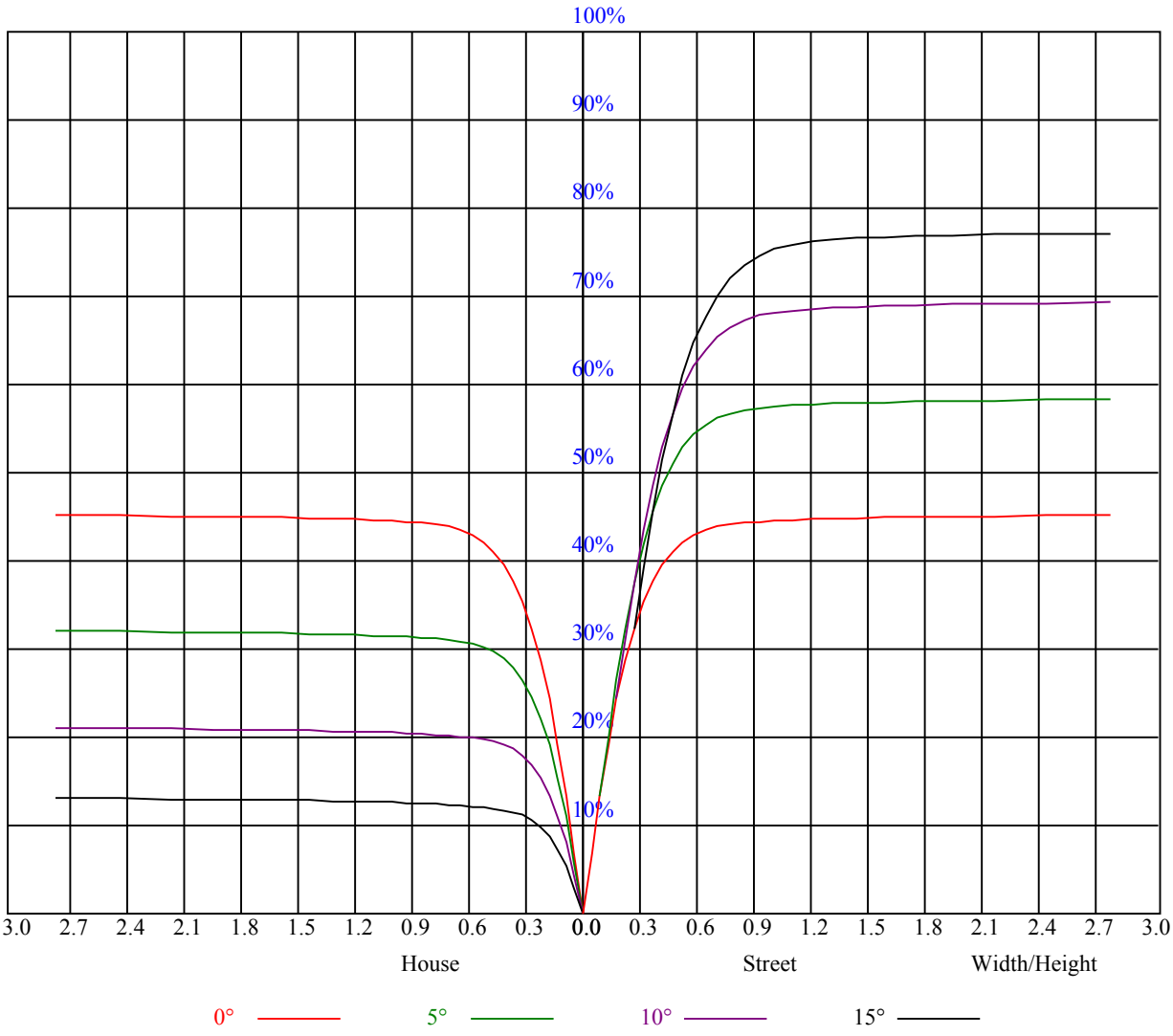
Budgetary Estimate Table



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	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.84	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/11	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	Distance(m): 7.44

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	9415.65	9220.80	8970.05	8645.13	8178.49	7792.13	7355.94	6900.93	6293.15
45.0	9537.98	9447.20	9276.16	9046.99	8761.92	8340.68	7950.99	7553.00	7111.83
90.0	9473.77	9339.26	9049.76	8777.42	8458.03	8105.98	7610.01	7174.38	6708.30
135.0	9549.05	9517.50	9376.90	9150.50	8802.33	8489.03	8124.80	7745.08	7233.05
180.0	9415.65	9531.89	9521.93	9385.20	9194.79	8934.07	8582.02	8238.28	7844.16
225.0	9537.98	9513.07	9370.81	9138.88	8805.10	8517.81	8159.67	7640.46	7225.31
270.0	9473.77	9542.41	9539.09	9381.88	9146.08	8869.86	8557.11	8078.86	7670.35
315.0	9549.05	9515.28	9325.42	9066.92	8760.81	8313.00	7912.24	7471.08	7020.50
360.0	9415.65	9220.80	8970.05	8645.13	8178.49	7792.13	7355.94	6900.93	6293.15

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5812.68	5345.50	4901.56	4366.29	3999.30	3579.72	3270.84	2979.68	2673.03
45.0	6542.24	6056.24	5467.83	4990.68	4560.03	4088.42	3742.46	3416.42	3119.73
90.0	6118.79	5635.00	5043.82	4619.26	4238.98	3796.70	3467.90	3173.42	2910.49
135.0	6782.48	6305.88	5827.63	5225.93	4794.73	4398.95	4033.06	3602.97	3292.99
180.0	7306.68	6859.42	6389.47	5902.91	5307.86	4865.03	4462.61	4085.65	3651.12
225.0	6667.34	6187.98	5710.83	5123.53	4687.34	4308.72	3950.59	3552.59	3254.24
270.0	7114.60	6656.27	6170.27	5579.64	5119.10	4682.91	4298.76	3849.29	3521.04
315.0	6454.78	5974.87	5499.38	5044.93	4519.62	4143.77	3700.39	3390.41	3109.21
360.0	5812.68	5345.50	4901.56	4366.29	3999.30	3579.72	3270.84	2979.68	2673.03

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2438.33	2223.55	2018.19	1795.12	1624.63	1467.42	1075.58	1075.58	1008.04
45.0	2794.80	2549.59	2320.98	2113.40	1874.27	1706.00	1541.60	1352.84	1208.92
90.0	2605.49	2375.22	2168.75	1976.68	1753.60	1594.74	1441.96	1086.87	1086.87
135.0	2970.27	2717.31	2477.63	2208.06	2012.10	1829.44	1662.27	1461.34	1313.54
180.0	3358.30	3080.98	2738.90	2495.34	2223.00	2019.85	1837.19	1671.68	1475.17
225.0	2975.26	2721.74	2425.04	2210.27	2011.55	1794.56	1629.61	1477.39	1090.74
270.0	3245.94	2952.56	2649.22	2425.59	2205.29	1953.43	1790.69	1595.84	1442.51
315.0	2779.30	2531.32	2303.82	2091.26	1901.40	1682.20	1527.21	1266.49	1090.52
360.0	2438.33	2223.55	2018.19	1795.12	1624.63	1467.42	1075.58	1075.58	1008.04

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	878.24	729.67	624.89	530.56	426.78	354.26	292.21	227.34	185.16
45.0	1069.99	907.80	786.02	676.97	556.30	468.29	390.80	308.32	293.93
90.0	987.12	832.02	715.17	613.26	497.08	414.99	343.14	281.64	218.04
135.0	1168.51	1027.92	864.07	746.72	640.99	526.97	444.49	354.26	293.37
180.0	1332.36	1190.10	1057.25	895.07	775.50	667.01	571.25	464.42	389.69
225.0	1090.74	1025.20	865.90	748.38	642.60	544.85	435.80	360.85	297.30
270.0	1299.15	1154.12	990.83	861.86	740.63	607.78	513.13	427.88	354.82
315.0	1058.64	930.38	804.12	661.53	564.11	474.88	377.73	313.52	244.83
360.0	878.24	729.67	624.89	530.56	426.78	354.26	292.21	227.34	185.16

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	151.56	124.66	98.47	83.31	72.07	63.66	55.96	51.15	47.05
45.0	293.93	165.01	128.92	107.83	91.67	76.89	67.92	60.67	53.64
90.0	178.13	146.08	120.95	97.87	84.36	74.06	64.43	58.12	53.08
135.0	279.54	279.54	153.16	127.76	107.94	92.39	76.78	67.14	59.78
180.0	322.16	279.54	279.54	157.04	128.81	106.67	89.34	73.95	65.32
225.0	244.00	189.36	155.05	127.42	101.30	86.13	72.35	64.32	57.90
270.0	291.71	291.71	182.33	150.01	118.40	99.80	82.42	72.57	64.93
315.0	200.21	164.62	136.23	109.60	93.27	80.93	71.41	61.61	55.63
360.0	151.56	124.66	98.47	83.31	72.07	63.66	55.96	51.15	47.05

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	42.79	39.85	36.92	34.98	33.38	31.88	30.89	30.11	29.45
45.0	49.04	45.22	41.18	38.53	36.20	34.37	32.55	31.27	30.39
90.0	47.94	44.45	41.57	38.53	36.53	34.93	33.54	32.22	31.33
135.0	54.14	48.55	44.89	41.79	38.58	36.53	34.87	33.16	32.11
180.0	58.56	53.31	48.05	44.56	41.57	38.42	36.31	34.54	32.82
225.0	52.64	47.33	43.73	40.74	38.19	35.59	33.93	32.60	31.39
270.0	57.40	52.42	48.32	44.84	41.18	38.69	36.64	34.98	33.27
315.0	50.93	46.94	42.73	40.02	37.09	35.20	33.71	32.11	31.11
360.0	42.79	39.85	36.92	34.98	33.38	31.88	30.89	30.11	29.45

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.78	28.17	27.62	27.01	26.24	25.30	24.52	23.58	22.86
45.0	29.61	28.84	28.23	27.62	26.90	26.24	25.13	24.30	23.64
90.0	30.61	29.89	28.84	28.12	27.23	26.29	25.24	24.24	23.53
135.0	31.11	30.44	29.78	28.89	28.06	27.46	26.57	25.52	24.47
180.0	31.55	30.67	29.84	29.17	28.56	27.68	27.01	26.35	25.35
225.0	30.39	29.61	28.73	28.01	27.40	26.79	25.91	24.96	24.19
270.0	32.16	31.22	30.22	29.45	28.73	27.84	27.12	26.18	25.02
315.0	30.33	29.45	28.84	28.12	27.46	26.85	25.74	24.85	24.13
360.0	28.78	28.17	27.62	27.01	26.24	25.30	24.52	23.58	22.86

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.03	21.42	20.76	20.09	19.26	18.71	18.10	17.49	16.77
45.0	22.92	22.03	21.42	20.81	20.15	19.43	18.76	18.21	17.55
90.0	22.69	21.86	21.20	20.54	19.87	19.04	18.32	17.77	17.10
135.0	23.75	23.03	22.31	21.53	20.81	19.93	19.32	18.71	17.93
180.0	24.30	23.64	22.92	22.09	21.37	20.76	19.93	19.26	18.65
225.0	23.30	22.47	21.86	21.03	20.37	19.65	18.93	18.27	17.71
270.0	24.19	23.47	22.69	21.81	21.15	20.48	19.71	18.93	18.32
315.0	23.25	22.47	21.86	21.03	20.37	19.43	18.88	18.27	17.60
360.0	22.03	21.42	20.76	20.09	19.26	18.71	18.10	17.49	16.77

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.38	16.05	15.72	15.39	15.11	14.78	14.50	14.23	13.84
45.0	16.83	16.44	16.05	15.61	15.33	15.00	14.72	14.34	14.00
90.0	16.50	16.16	15.72	15.28	15.00	14.61	14.34	14.06	13.84
135.0	17.38	16.83	16.44	16.00	15.67	15.33	15.11	14.72	14.56
180.0	17.93	17.38	16.83	16.38	16.00	15.61	15.33	15.06	14.83
225.0	17.10	16.44	16.00	15.61	15.22	14.78	14.56	14.17	13.89
270.0	17.71	16.88	16.44	15.83	15.44	15.06	14.61	14.28	13.95
315.0	16.83	16.38	15.94	15.55	15.06	14.72	14.39	14.00	13.67
360.0	16.38	16.05	15.72	15.39	15.11	14.78	14.50	14.23	13.84

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.56	13.23	13.01	12.68	12.40	11.85	11.68	11.46	11.51
45.0	13.73	13.40	13.01	12.84	12.57	11.96	11.79	11.57	11.35
90.0	13.51	13.17	13.01	12.79	12.12	11.85	11.73	11.51	11.35
135.0	14.28	13.95	13.62	13.34	12.45	12.18	11.96	11.73	11.51
180.0	14.61	14.39	14.06	13.78	13.40	12.34	12.12	11.85	11.73
225.0	13.67	13.28	13.01	12.73	12.40	12.01	11.85	11.68	11.46
270.0	13.67	13.34	13.01	12.73	12.45	12.23	11.90	11.73	11.57
315.0	13.45	13.12	12.84	12.62	12.34	12.01	11.79	11.62	11.40
360.0	13.56	13.23	13.01	12.68	12.40	11.85	11.68	11.46	11.51

Intensity data(cd)

C/γ(°)	90.0
0.0	11.51
45.0	11.35
90.0	11.35
135.0	11.46
180.0	11.57
225.0	11.40
270.0	11.40
315.0	11.46
360.0	11.51