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NATA

Client:
LumCAT: 2-2643-L
Luminaire: 92.70.412.00
Report No: 20231011-B005
Ballast type: AC

Test No: 20231011-C005	Voltage(V): 34.740
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.530
Lamp flux(lm): 3047.8	Power (W): 18.412
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2893.79, Efficiency(%): 94.95% , Luminous Efficacy(lm/W): 157.17
Central intensity(cd): 14697.760, Maximum intensity(cd): 14697.760
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.6
[C90/270]Total=18.6
Field angle(10%Imax): [C0/180]Total=47.4
[C90/270]Total=47.4
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.95%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.205%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14697.765	0.000	0	0.00%	0.00%
1.0	14542.775	13.991	13.991	0.46%	0.48%
2.0	14160.835	41.198	55.189	1.35%	1.91%
3.0	13360.698	65.822	121.012	2.16%	4.18%
4.0	12371.322	86.133	207.145	2.83%	7.16%
5.0	11616.437	103.194	310.339	3.39%	10.72%
6.0	10825.988	117.941	428.28	3.87%	14.80%
7.0	9767.489	127.823	556.103	4.19%	19.22%
8.0	8674.393	131.985	688.088	4.33%	23.78%
9.0	7643.779	132.250	820.338	4.34%	28.35%
10.0	6716.537	129.956	950.294	4.26%	32.84%
11.0	5857.103	125.636	1075.93	4.12%	37.18%
12.0	5106.300	119.846	1195.776	3.93%	41.32%
13.0	4485.579	113.831	1309.607	3.73%	45.26%
14.0	3983.660	108.406	1418.013	3.56%	49.00%
15.0	3547.820	103.396	1521.408	3.39%	52.57%
16.0	3188.160	98.701	1620.109	3.24%	55.99%
17.0	2899.560	94.802	1714.912	3.11%	59.26%
18.0	2667.905	91.795	1806.707	3.01%	62.43%
19.0	2459.845	89.212	1895.919	2.93%	65.52%
20.0	2248.048	86.168	1982.087	2.83%	68.49%
21.0	1966.575	80.929	2063.016	2.66%	71.29%
22.0	1773.875	75.166	2138.182	2.47%	73.89%
23.0	1613.350	71.073	2209.255	2.33%	76.34%
24.0	1420.553	66.332	2275.587	2.18%	78.64%
25.0	1276.793	61.332	2336.919	2.01%	80.76%
26.0	1165.200	57.644	2394.562	1.89%	82.75%
27.0	1057.053	54.368	2448.93	1.78%	84.63%
28.0	929.560	50.297	2499.227	1.65%	86.37%
29.0	800.019	45.251	2544.478	1.48%	87.93%
30.0	695.601	40.381	2584.859	1.32%	89.32%
31.0	593.321	35.869	2620.728	1.18%	90.56%
32.0	497.691	31.256	2651.984	1.03%	91.64%
33.0	411.416	26.783	2678.767	0.88%	92.57%
34.0	342.542	22.817	2701.584	0.75%	93.36%
35.0	282.075	19.398	2720.982	0.64%	94.03%
36.0	242.573	16.705	2737.687	0.55%	94.61%
37.0	197.529	14.354	2752.041	0.47%	95.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	157.695	11.857	2763.898	0.39%	95.51%
39.0	118.526	9.428	2773.326	0.31%	95.84%
40.0	97.415	7.531	2780.857	0.25%	96.10%
41.0	79.792	6.310	2787.167	0.21%	96.32%
42.0	66.466	5.314	2792.481	0.17%	96.50%
43.0	57.063	4.576	2797.057	0.15%	96.66%
44.0	49.659	4.028	2801.085	0.13%	96.80%
45.0	44.518	3.619	2804.704	0.12%	96.92%
46.0	40.131	3.310	2808.015	0.11%	97.04%
47.0	36.776	3.059	2811.074	0.10%	97.14%
48.0	33.994	2.861	2813.935	0.09%	97.24%
49.0	31.759	2.700	2816.635	0.09%	97.33%
50.0	29.808	2.567	2819.202	0.08%	97.42%
51.0	28.244	2.456	2821.658	0.08%	97.51%
52.0	27.013	2.371	2824.029	0.08%	97.59%
53.0	26.002	2.306	2826.335	0.08%	97.67%
54.0	25.186	2.256	2828.591	0.07%	97.75%
55.0	24.542	2.220	2830.811	0.07%	97.82%
56.0	24.079	2.197	2833.008	0.07%	97.90%
57.0	23.774	2.188	2835.196	0.07%	97.98%
58.0	23.657	2.193	2837.389	0.07%	98.05%
59.0	23.671	2.213	2839.602	0.07%	98.13%
60.0	23.761	2.241	2841.843	0.07%	98.20%
61.0	23.747	2.267	2844.11	0.07%	98.28%
62.0	23.712	2.287	2846.397	0.08%	98.36%
63.0	23.560	2.299	2848.696	0.08%	98.44%
64.0	23.034	2.286	2850.982	0.08%	98.52%
65.0	22.218	2.239	2853.222	0.07%	98.60%
66.0	21.318	2.172	2855.394	0.07%	98.67%
67.0	20.439	2.100	2857.494	0.07%	98.75%
68.0	19.360	2.016	2859.51	0.07%	98.82%
69.0	18.550	1.934	2861.444	0.06%	98.88%
70.0	17.796	1.867	2863.31	0.06%	98.95%
71.0	17.160	1.807	2865.117	0.06%	99.01%
72.0	16.634	1.757	2866.874	0.06%	99.07%
73.0	16.239	1.719	2868.593	0.06%	99.13%
74.0	15.873	1.688	2870.281	0.06%	99.19%
75.0	15.534	1.659	2871.941	0.05%	99.24%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.222	1.633	2873.573	0.05%	99.30%
77.0	14.918	1.607	2875.18	0.05%	99.36%
78.0	14.613	1.581	2876.761	0.05%	99.41%
79.0	14.302	1.554	2878.315	0.05%	99.47%
80.0	14.011	1.526	2879.841	0.05%	99.52%
81.0	13.728	1.500	2881.341	0.05%	99.57%
82.0	13.437	1.473	2882.814	0.05%	99.62%
83.0	13.167	1.446	2884.261	0.05%	99.67%
84.0	12.932	1.422	2885.683	0.05%	99.72%
85.0	12.704	1.399	2887.082	0.05%	99.77%
86.0	12.489	1.377	2888.459	0.05%	99.82%
87.0	12.302	1.357	2889.816	0.04%	99.86%
88.0	12.143	1.339	2891.155	0.04%	99.91%
89.0	11.991	1.323	2892.477	0.04%	99.95%
90.0	11.929	1.311	2893.789	0.04%	100.00%

Zonal flux distribution table

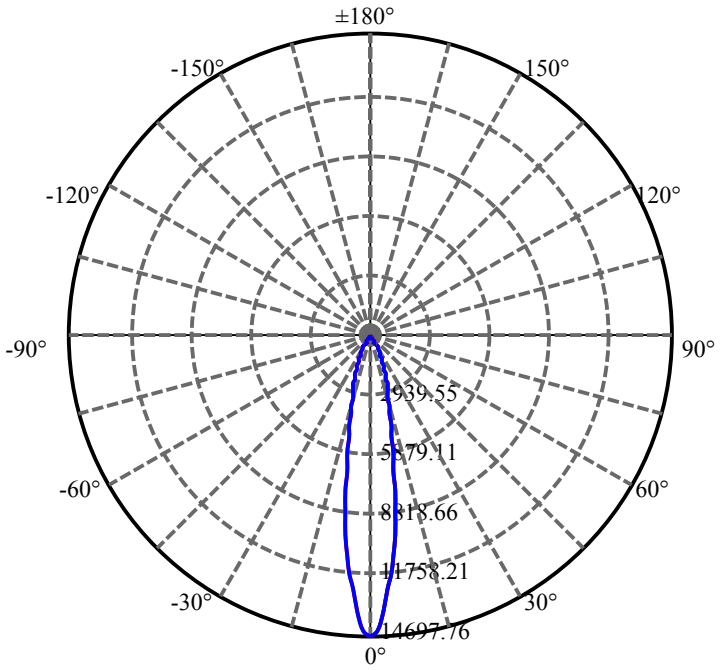
ZONAL LUMEN SUMMARY

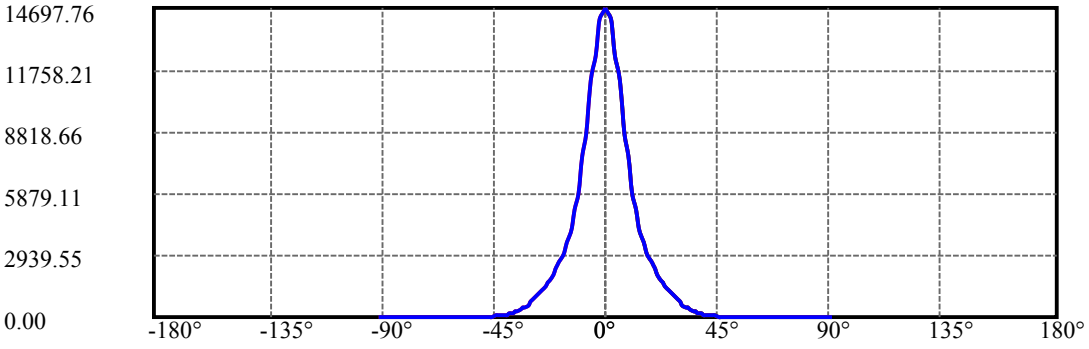
Zone	Lumens	%Lamp	%Fixt
0-30	2584.86	84.81%	89.32%
0-40	2780.86	91.24%	96.10%
0-60	2841.84	93.24%	98.20%
0-90	2892.48	94.90%	99.95%
0-120	2892.48	94.90%	99.95%
0-180	2893.79	94.95%	100.00%
60-90	50.63	1.66%	1.75%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.64	2315.03	75.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	950.29
10-20	1031.79
20-30	602.77
30-40	196.00
40-50	38.34
50-60	22.64
60-70	21.47
70-80	16.53
80-90	12.64
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):

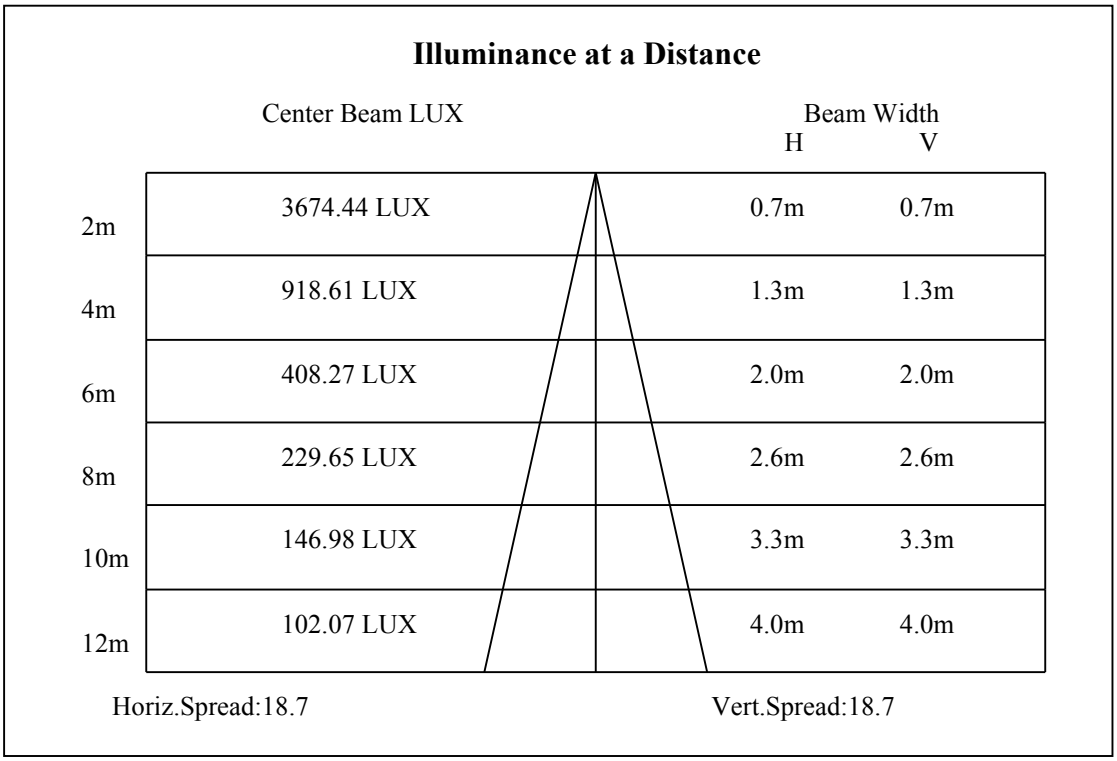
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.7 Right:23.7
:C90/270Left:23.7 Right:23.7

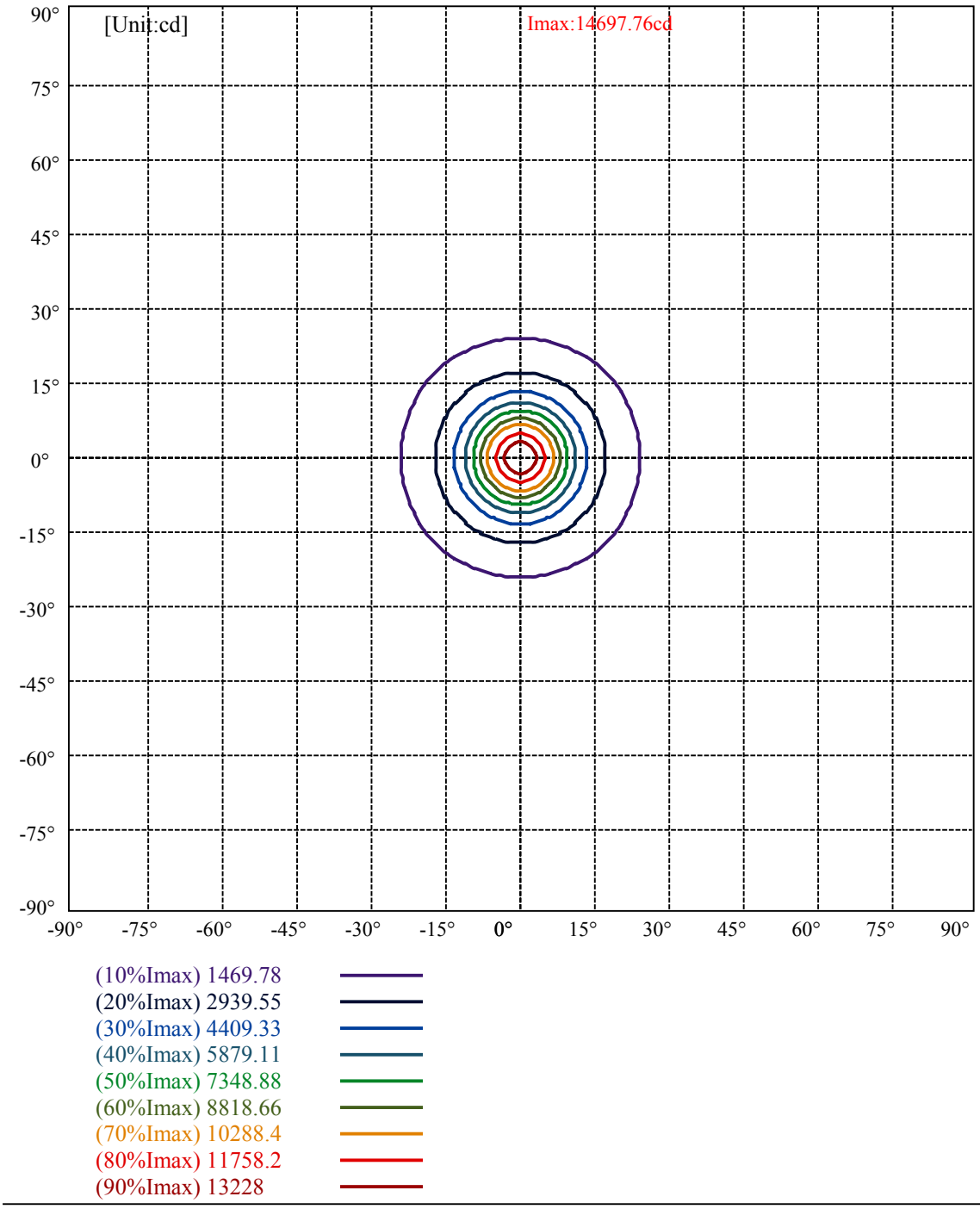
Beam Angle(50%Imax):C0/180Left:9.3 Right:9.3
:C90/270Left:9.3 Right:9.3

Lux distance Curve



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

ISO-Intensity(V-H)

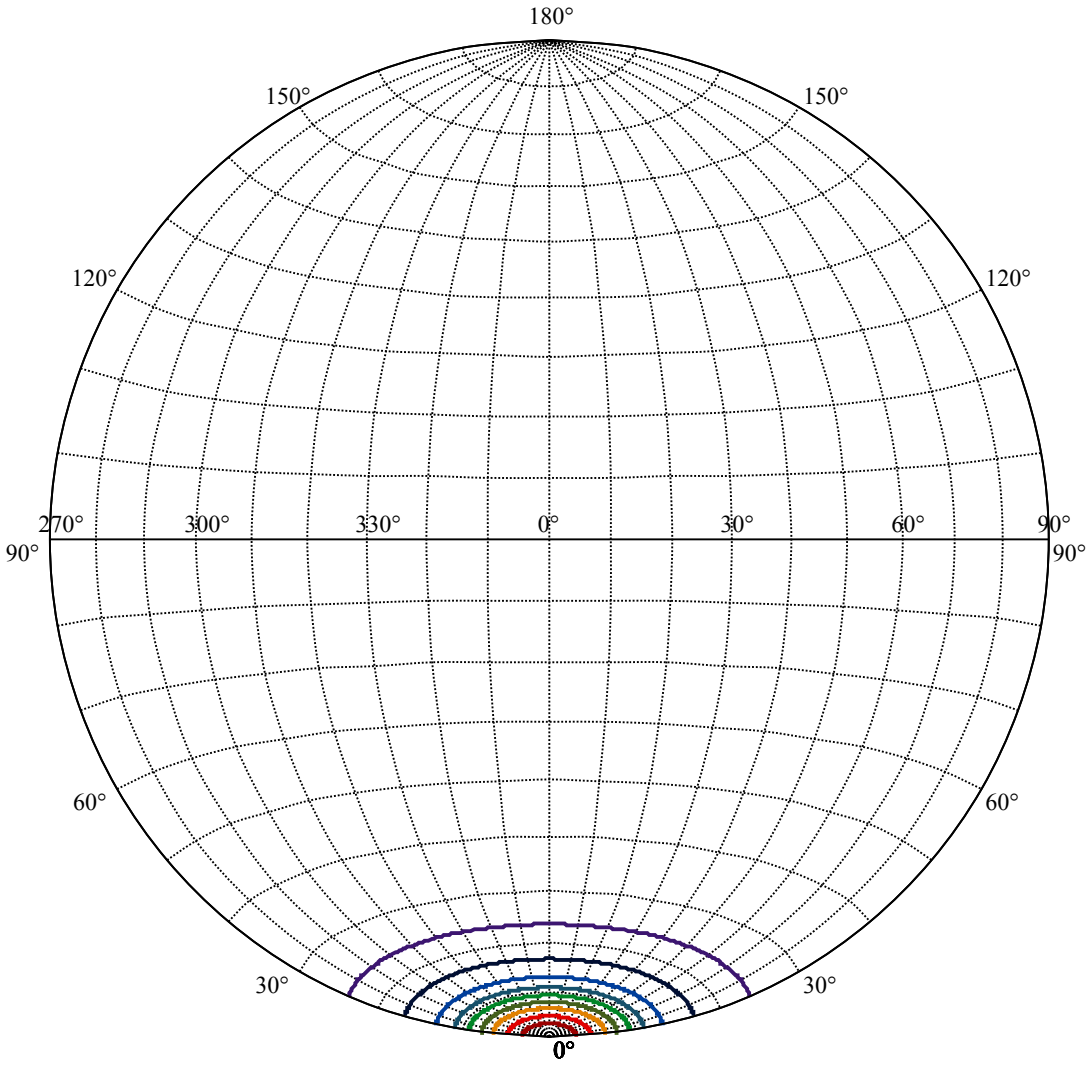


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:14697.76

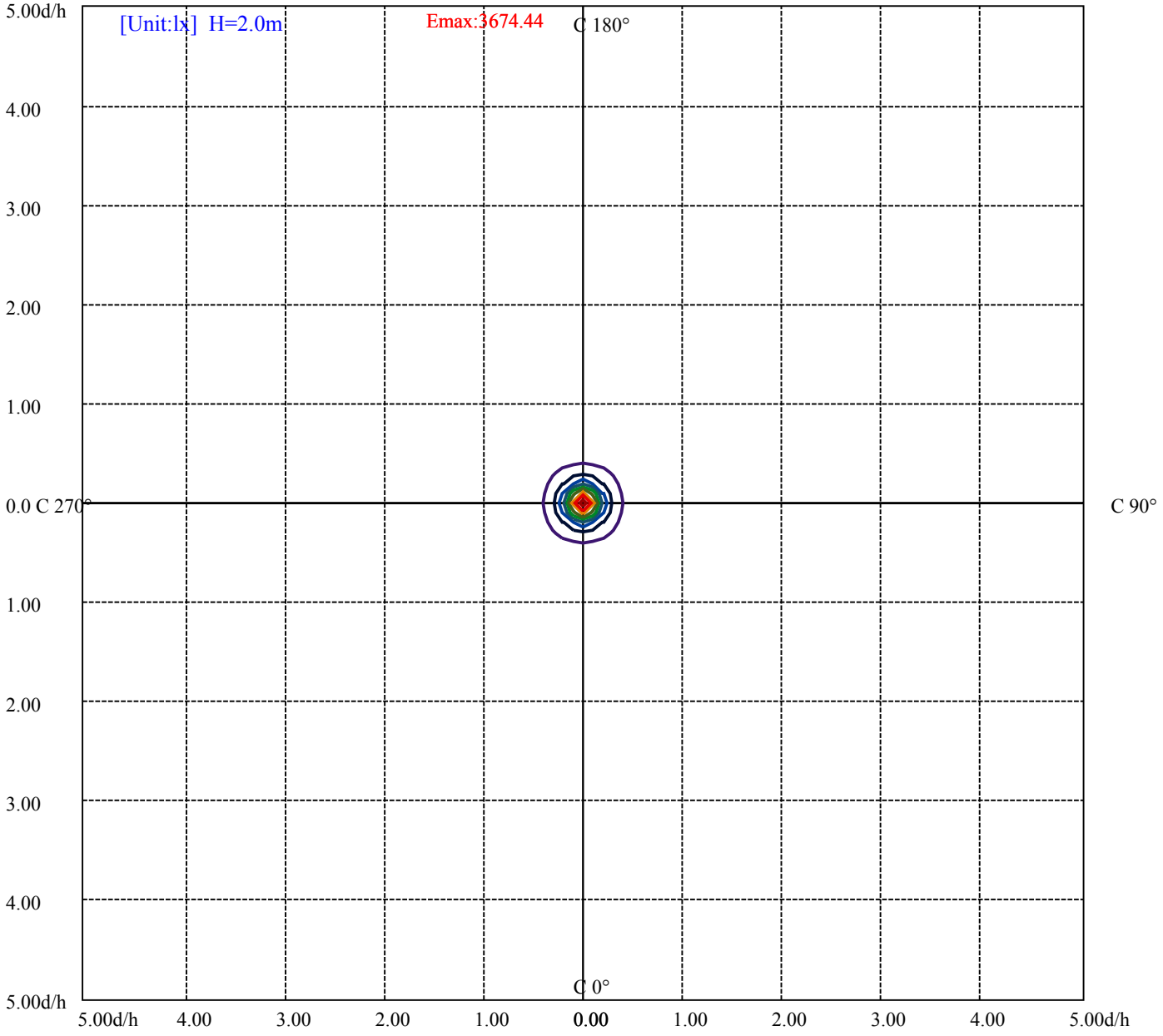
(10%Imax) 1469.78
(20%Imax) 2939.55
(30%Imax) 4409.33
(40%Imax) 5879.11
(50%Imax) 7348.88
(60%Imax) 8818.66
(70%Imax) 10288.4
(80%Imax) 11758.2
(90%Imax) 13228

Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

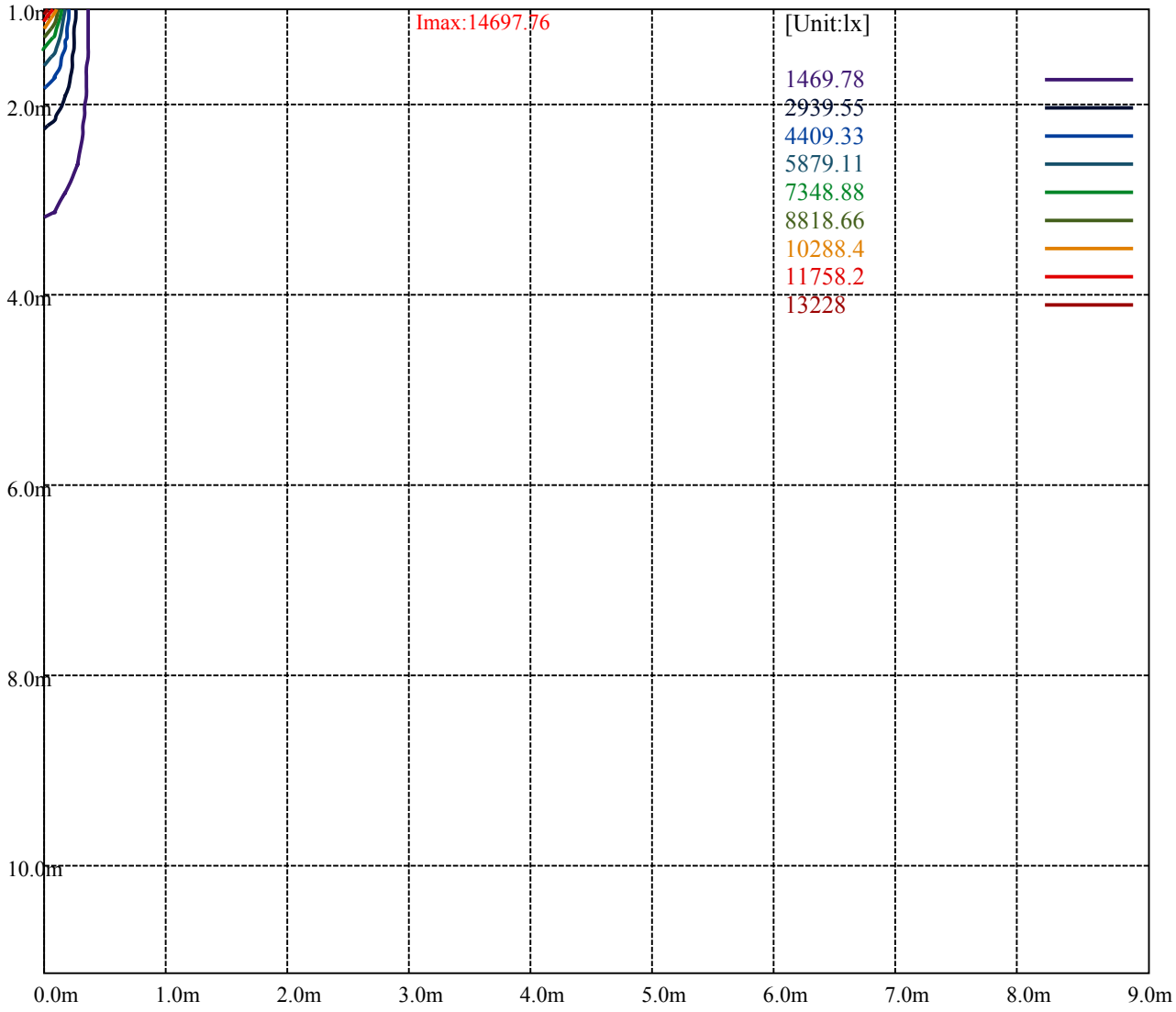
ISO illuminance diagram



(10%Emax) 367.4425
(20%Emax) 734.8875
(30%Emax) 1102.33
(40%Emax) 1469.775
(50%Emax) 1837.218
(60%Emax) 2204.66
(70%Emax) 2572.1
(80%Emax) 2939.55
(90%Emax) 3307

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

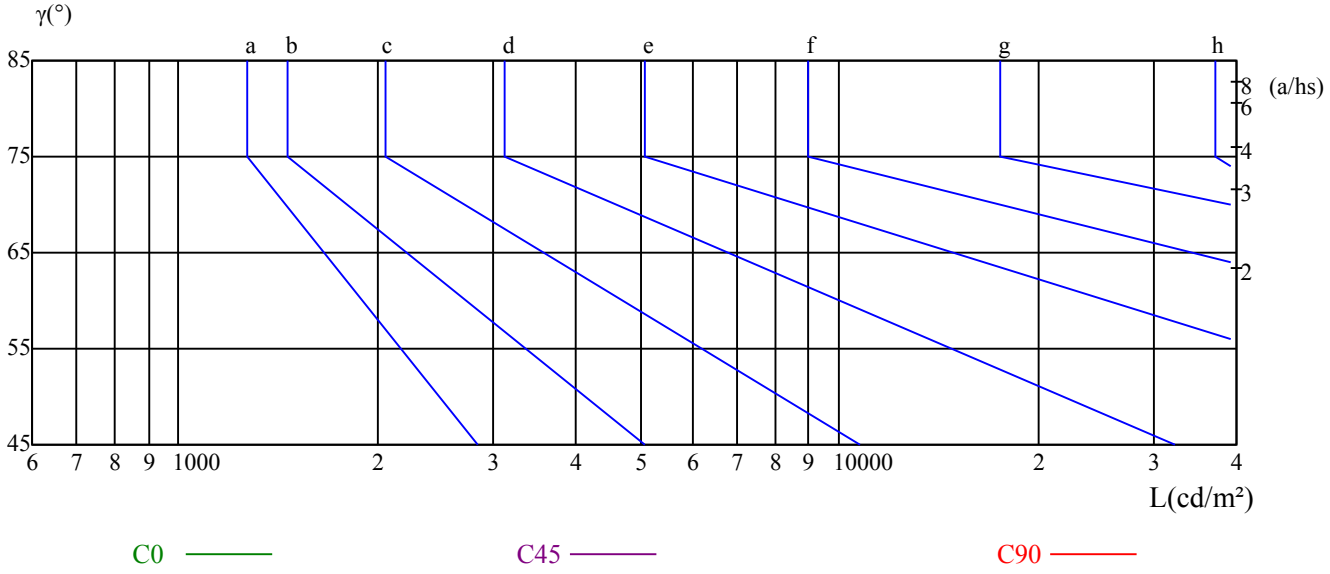
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

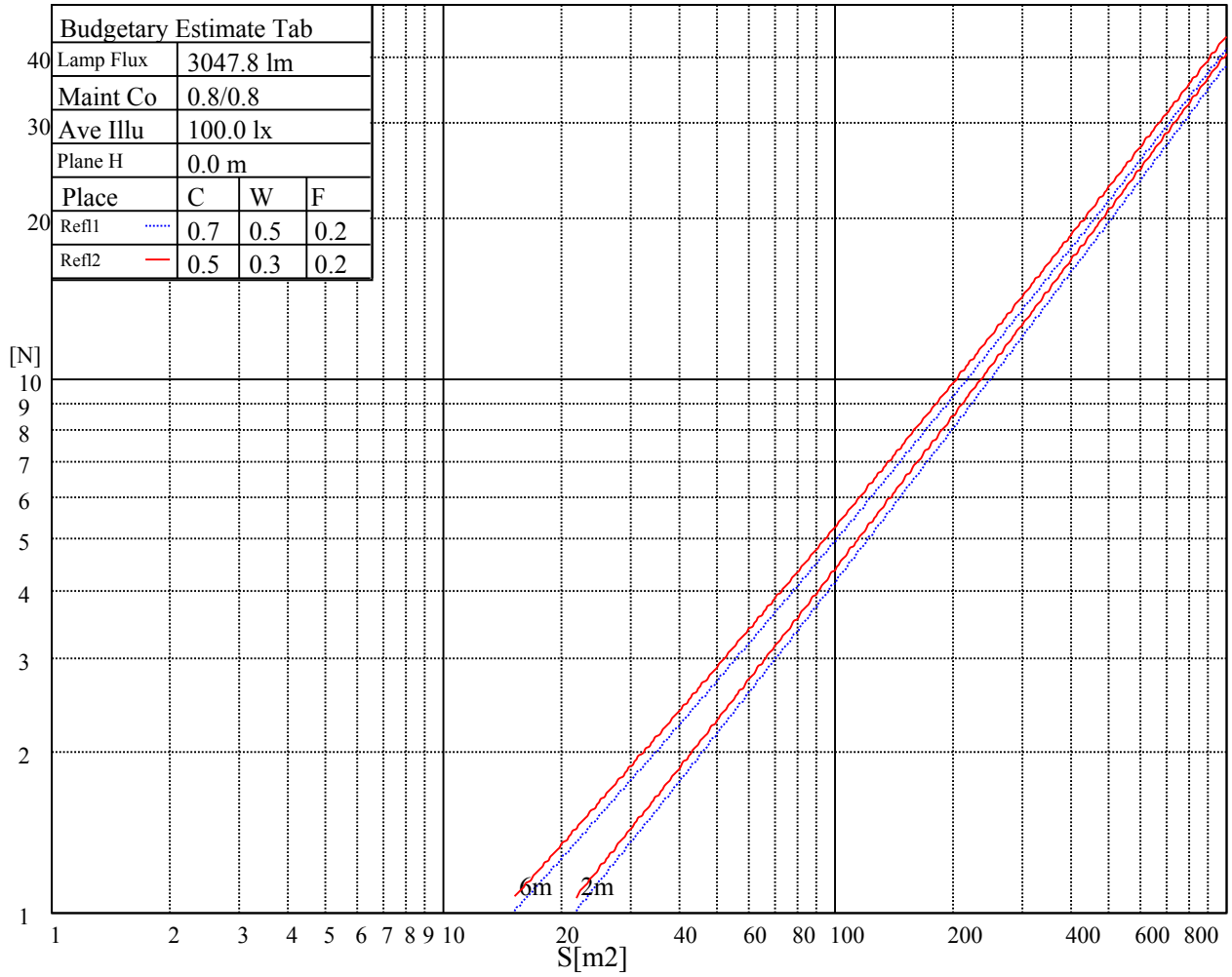


UGR Glare

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

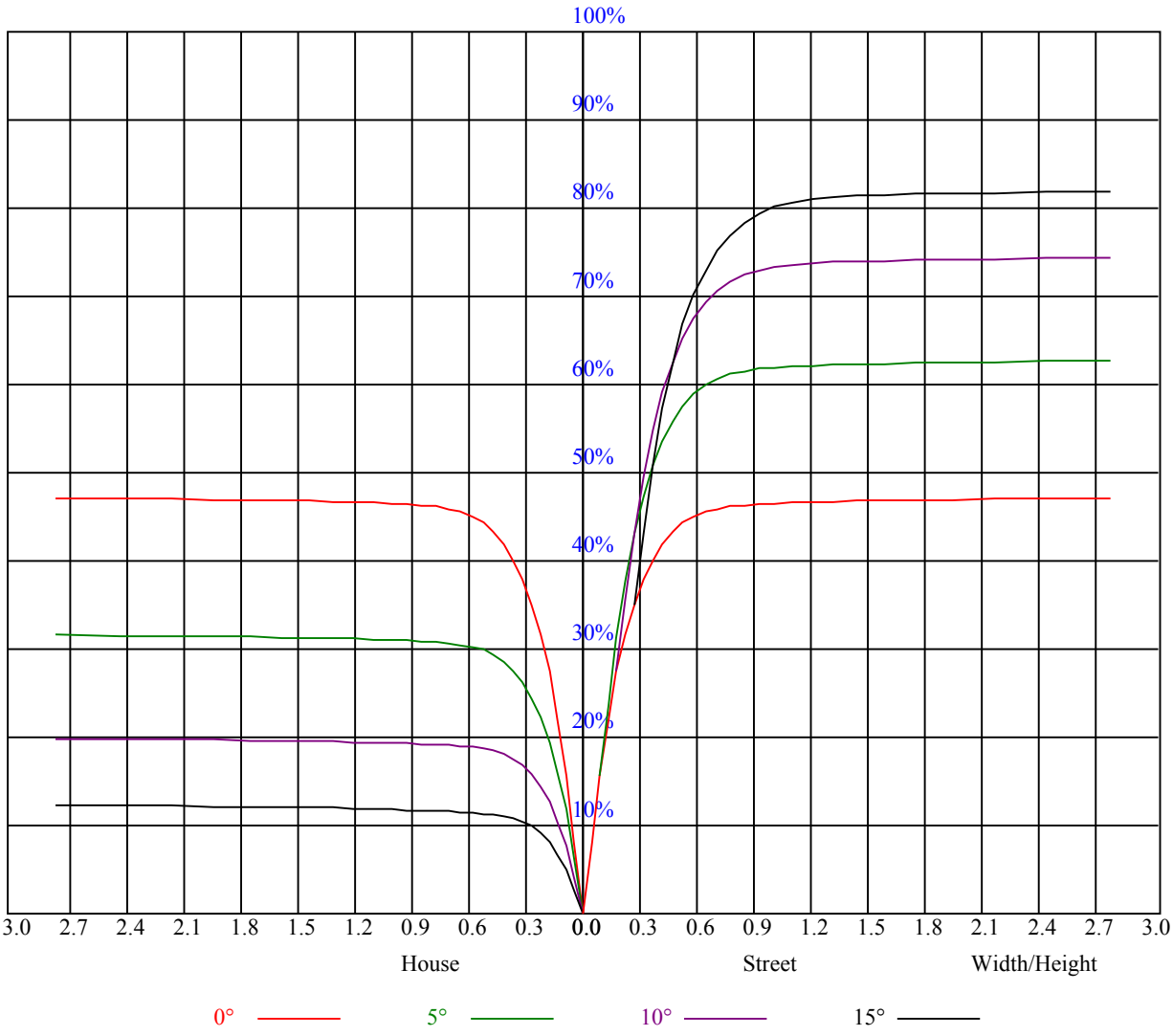
Budgetary Estimate Table



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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91
2	1.01	0.98	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.91	0.90	0.91	0.89	0.88	0.87
3	0.96	0.92	0.89	0.95	0.91	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.83
4	0.92	0.87	0.84	0.91	0.87	0.84	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.80
5	0.88	0.83	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.77
6	0.84	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
7	0.81	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.71
8	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.76	0.72	0.69	0.75	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65

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	14497.11	14004.46	13196.30	10924.59	10924.59	10167.35	9144.41	8128.68	6923.63
45.0	14784.95	14641.03	14259.09	13506.28	12725.79	11812.46	10849.31	9570.64	8546.60
90.0	14724.06	14308.91	13766.44	13057.91	11002.08	11002.08	9985.24	8968.94	7706.88
135.0	14784.95	14712.99	14447.29	13794.12	13085.59	12271.89	11137.14	10135.24	8911.93
180.0	14497.11	14729.59	14707.45	14403.01	13915.90	13102.20	12299.57	11380.70	10439.69
225.0	14784.95	14613.35	14259.09	13561.63	12825.43	10820.52	10820.52	9818.07	8795.69
270.0	14724.06	14807.09	14607.82	14220.34	13489.67	12753.47	11878.88	10694.32	9659.20
315.0	14784.95	14524.78	14043.21	13417.71	11001.53	11001.53	10492.83	9443.32	8411.53
360.0	14497.11	14004.46	13196.30	10924.59	10924.59	10167.35	9144.41	8128.68	6923.63

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6085.02	5351.03	4724.98	4059.63	3640.05	3301.84	3005.70	2738.34	2458.81
45.0	7539.16	6609.22	5618.39	4937.54	4350.79	3775.12	3404.25	3094.27	2834.10
90.0	6766.98	5905.12	5031.09	4438.81	3946.71	3464.58	3140.76	2862.89	2619.33
135.0	7915.56	6980.09	6160.86	5275.20	4660.77	4145.98	3719.76	3276.93	2983.56
180.0	9188.70	8225.54	7290.07	6398.88	5480.01	4848.98	4201.34	3764.04	3404.25
225.0	7800.43	6888.76	5892.39	5217.08	4627.56	4132.15	3624.55	3278.04	2982.45
270.0	8668.37	7450.59	6564.94	5607.32	4943.08	4395.08	3930.11	3431.92	3116.41
315.0	7186.00	6321.93	5574.11	4915.95	4235.66	3805.56	3356.09	3058.84	2797.57
360.0	6085.02	5351.03	4724.98	4059.63	3640.05	3301.84	3005.70	2738.34	2458.81

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2248.46	2012.66	1838.85	1683.86	1502.30	1367.23	1077.13	1077.13	954.96
45.0	2834.10	2323.74	2077.97	1894.75	1729.80	1578.68	1402.11	1264.28	1134.20
90.0	2348.65	2145.51	1958.41	1789.03	1599.17	1456.35	1099.16	1099.16	1040.20
135.0	2845.18	2845.18	2225.77	2032.58	1825.01	1674.45	1531.08	1366.68	1237.71
180.0	3033.38	2823.03	2823.03	2302.71	2058.60	1872.06	1721.50	1581.45	1419.82
225.0	2664.17	2438.88	2173.74	1987.19	1814.49	1620.20	1480.16	1257.63	1098.99
270.0	2872.85	2811.96	2811.96	2144.40	1965.61	1789.03	1637.91	1471.30	1339.00
315.0	2496.45	2277.80	2074.65	1898.07	1696.03	1548.79	1415.39	1096.72	1096.72
360.0	2248.46	2012.66	1838.85	1683.86	1502.30	1367.23	1077.13	1077.13	954.96

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	836.12	724.74	601.36	512.85	432.15	360.08	282.08	230.71	187.93
45.0	1008.54	859.64	747.27	644.87	537.48	457.77	369.21	308.32	281.20
90.0	919.15	780.43	675.48	583.04	476.15	399.76	332.95	261.38	213.89
135.0	1111.50	990.28	845.25	736.76	636.57	545.79	441.72	368.65	304.44
180.0	1293.06	1169.62	1022.93	908.91	789.90	655.39	561.84	474.93	380.83
225.0	1069.21	954.41	843.75	729.51	628.71	519.44	440.73	371.15	295.31
270.0	1213.90	1067.22	913.89	803.18	691.92	592.28	483.79	409.62	343.19
315.0	1004.94	890.14	750.21	645.70	553.70	451.02	379.01	315.57	249.81
360.0	836.12	724.74	601.36	512.85	432.15	360.08	282.08	230.71	187.93

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	146.74	120.28	95.26	80.48	68.03	58.07	49.04	43.95	40.08
45.0	281.20	161.85	133.01	109.82	91.55	73.56	62.49	54.52	48.71
90.0	174.25	143.09	117.40	93.66	79.32	64.99	56.57	50.21	44.12
135.0	290.05	224.96	153.05	118.90	98.97	83.53	68.42	58.90	51.42
180.0	313.85	283.96	283.96	156.93	126.76	103.07	81.65	69.14	59.73
225.0	243.33	190.97	157.37	129.75	102.51	85.41	72.07	61.33	51.98
270.0	285.07	285.07	181.89	149.73	122.77	95.54	78.77	66.09	54.52
315.0	206.08	170.05	139.60	108.94	89.40	74.17	62.72	52.36	46.72
360.0	146.74	120.28	95.26	80.48	68.03	58.07	49.04	43.95	40.08

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	36.81	33.54	31.39	29.56	28.06	26.46	25.46	24.47	23.86
45.0	43.23	39.74	36.75	33.65	31.44	29.28	27.79	26.57	25.46
90.0	40.41	37.42	34.21	32.05	30.22	28.73	27.18	26.18	25.35
135.0	45.89	40.74	37.53	34.82	32.44	30.11	28.62	27.34	26.13
180.0	52.75	46.83	41.24	38.03	34.82	32.71	30.89	29.06	27.84
225.0	46.55	42.29	39.02	35.59	33.27	31.44	29.56	28.34	27.23
270.0	48.32	42.57	39.08	36.26	33.82	31.33	29.67	28.40	27.29
315.0	42.18	37.92	34.98	31.99	30.00	28.40	26.79	25.74	24.85
360.0	36.81	33.54	31.39	29.56	28.06	26.46	25.46	24.47	23.86

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.36	22.97	22.75	22.75	22.92	23.03	23.14	23.19	23.14
45.0	24.69	24.13	23.75	23.47	23.41	23.53	23.80	23.80	23.86
90.0	24.69	24.13	23.80	23.69	23.75	23.91	23.86	23.86	23.75
135.0	25.35	24.74	24.08	23.75	23.58	23.64	23.75	23.75	23.69
180.0	26.85	25.79	25.08	24.52	24.08	23.75	23.64	23.69	23.64
225.0	26.13	25.52	24.96	24.58	24.41	24.41	24.52	24.30	24.24
270.0	26.18	25.52	24.96	24.47	24.13	24.08	24.13	24.13	24.08
315.0	24.24	23.53	23.25	22.97	22.97	23.03	23.25	23.25	23.30
360.0	23.36	22.97	22.75	22.75	22.92	23.03	23.14	23.19	23.14

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.53	21.64	20.92	19.76	18.82	18.10	17.33	16.72	16.22
45.0	23.86	23.25	22.25	21.53	20.48	19.37	18.60	17.82	17.16
90.0	23.36	22.25	21.48	20.65	19.71	18.54	17.93	17.33	16.72
135.0	23.58	23.25	22.47	21.48	20.76	19.76	18.82	17.99	17.33
180.0	23.53	23.47	23.25	22.42	21.64	20.65	19.71	18.82	18.10
225.0	24.24	23.86	22.58	21.81	20.98	19.54	18.76	17.93	17.27
270.0	24.13	23.91	23.14	22.09	21.31	20.20	19.21	18.32	17.66
315.0	23.25	22.64	21.64	20.81	19.82	18.71	18.05	17.44	16.83
360.0	22.53	21.64	20.92	19.76	18.82	18.10	17.33	16.72	16.22

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.89	15.61	15.33	14.95	14.72	14.45	14.17	13.84	13.56
45.0	16.66	16.27	15.94	15.67	15.39	15.06	14.72	14.45	14.17
90.0	16.33	16.05	15.61	15.33	15.00	14.67	14.39	14.12	13.78
135.0	16.66	16.33	16.00	15.61	15.28	15.06	14.72	14.39	14.12
180.0	17.38	16.83	16.33	16.00	15.61	15.28	15.00	14.61	14.34
225.0	16.77	16.33	15.94	15.61	15.33	14.95	14.61	14.34	14.06
270.0	17.05	16.50	16.16	15.83	15.44	15.17	14.83	14.56	14.23
315.0	16.33	16.00	15.67	15.28	15.00	14.72	14.45	14.12	13.84
360.0	15.89	15.61	15.33	14.95	14.72	14.45	14.17	13.84	13.56

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.34	13.06	12.90	12.68	12.45	12.23	12.12	11.90	11.96
45.0	13.84	13.56	13.23	12.95	12.73	12.57	12.29	12.12	11.90
90.0	13.51	13.28	13.01	12.79	12.57	12.40	12.23	12.18	11.90
135.0	13.84	13.51	13.28	12.95	12.73	12.51	12.40	12.18	12.01
180.0	14.06	13.73	13.40	13.23	12.95	12.68	12.45	12.29	12.12
225.0	13.73	13.40	13.12	12.90	12.68	12.45	12.29	12.12	11.96
270.0	13.95	13.62	13.34	13.06	12.84	12.62	12.40	12.29	12.18
315.0	13.56	13.34	13.06	12.90	12.68	12.45	12.23	12.07	11.90
360.0	13.34	13.06	12.90	12.68	12.45	12.23	12.12	11.90	11.96

Intensity data(cd)

C/γ(°)	90.0
0.0	11.96
45.0	11.90
90.0	11.96
135.0	11.96
180.0	11.96
225.0	11.85
270.0	11.90
315.0	11.96
360.0	11.96