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NATA

Client:
LumCAT: 2-2643-L
Luminaire: 92.70.411.00
Report No: 20231019-B008
Ballast type: AC

Test No: 20231019-C008	Voltage(V): 34.190
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.577
Lamp flux(lm): 2611.4	Power (W): 19.727
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2476.85, Efficiency(%): 94.85% , Luminous Efficacy(lm/W): 125.56
Central intensity(cd): 12938.900, Maximum intensity(cd): 12938.900
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.0
[C90/270]Total=18.0
Field angle(10%Imax): [C0/180]Total=46.2
[C90/270]Total=46.2
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.85%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.009%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12938.904	0.000	0	0.00%	0.00%
1.0	12808.823	12.320	12.32	0.47%	0.50%
2.0	12328.838	36.080	48.4	1.38%	1.95%
3.0	11854.112	57.838	106.237	2.21%	4.29%
4.0	11116.456	76.890	183.127	2.94%	7.39%
5.0	10370.428	92.435	275.563	3.54%	11.13%
6.0	9435.367	104.085	379.647	3.99%	15.33%
7.0	8496.778	111.305	490.952	4.26%	19.82%
8.0	7464.986	114.235	605.187	4.37%	24.43%
9.0	6498.443	113.166	718.353	4.33%	29.00%
10.0	5635.135	109.804	828.158	4.20%	33.44%
11.0	4910.971	105.377	933.535	4.04%	37.69%
12.0	4268.662	100.347	1033.881	3.84%	41.74%
13.0	3733.116	94.961	1128.842	3.64%	45.58%
14.0	3307.654	90.121	1218.964	3.45%	49.21%
15.0	2972.142	86.212	1305.176	3.30%	52.69%
16.0	2731.769	83.578	1388.754	3.20%	56.07%
17.0	2465.795	80.940	1469.694	3.10%	59.34%
18.0	2263.893	77.982	1547.676	2.99%	62.49%
19.0	1970.657	73.673	1621.349	2.82%	65.46%
20.0	1787.368	68.782	1690.131	2.63%	68.24%
21.0	1613.903	65.311	1755.442	2.50%	70.87%
22.0	1425.175	61.072	1816.514	2.34%	73.34%
23.0	1309.763	57.386	1873.9	2.20%	75.66%
24.0	1179.903	54.433	1928.333	2.08%	77.85%
25.0	1091.670	51.651	1979.984	1.98%	79.94%
26.0	1002.087	49.423	2029.407	1.89%	81.94%
27.0	907.183	46.711	2076.118	1.79%	83.82%
28.0	808.142	43.428	2119.546	1.66%	85.57%
29.0	711.723	39.764	2159.31	1.52%	87.18%
30.0	601.611	35.460	2194.77	1.36%	88.61%
31.0	511.315	30.971	2225.741	1.19%	89.86%
32.0	414.917	26.535	2252.277	1.02%	90.93%
33.0	334.066	22.065	2274.342	0.84%	91.82%
34.0	272.796	18.365	2292.707	0.70%	92.57%
35.0	223.552	15.415	2308.122	0.59%	93.19%
36.0	181.947	12.911	2321.033	0.49%	93.71%
37.0	137.332	10.413	2331.446	0.40%	94.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	119.896	8.586	2340.032	0.33%	94.48%
39.0	107.130	7.749	2347.781	0.30%	94.79%
40.0	95.229	7.058	2354.839	0.27%	95.07%
41.0	85.874	6.449	2361.288	0.25%	95.33%
42.0	76.471	5.898	2367.186	0.23%	95.57%
43.0	68.867	5.384	2372.57	0.21%	95.79%
44.0	62.626	4.963	2377.533	0.19%	95.99%
45.0	57.125	4.602	2382.135	0.18%	96.18%
46.0	52.192	4.275	2386.41	0.16%	96.35%
47.0	47.915	3.982	2390.392	0.15%	96.51%
48.0	44.297	3.728	2394.119	0.14%	96.66%
49.0	41.183	3.510	2397.63	0.13%	96.80%
50.0	38.519	3.323	2400.953	0.13%	96.94%
51.0	35.918	3.149	2404.102	0.12%	97.06%
52.0	33.669	2.986	2407.088	0.11%	97.18%
53.0	31.856	2.850	2409.938	0.11%	97.30%
54.0	30.272	2.738	2412.677	0.10%	97.41%
55.0	28.798	2.637	2415.313	0.10%	97.52%
56.0	27.628	2.550	2417.863	0.10%	97.62%
57.0	26.736	2.486	2420.349	0.10%	97.72%
58.0	25.919	2.435	2422.784	0.09%	97.82%
59.0	25.214	2.390	2425.174	0.09%	97.91%
60.0	24.632	2.355	2427.529	0.09%	98.01%
61.0	24.093	2.325	2429.854	0.09%	98.10%
62.0	23.491	2.293	2432.147	0.09%	98.20%
63.0	22.861	2.254	2434.401	0.09%	98.29%
64.0	22.141	2.208	2436.61	0.08%	98.38%
65.0	21.311	2.150	2438.76	0.08%	98.46%
66.0	20.502	2.086	2440.846	0.08%	98.55%
67.0	19.664	2.020	2442.866	0.08%	98.63%
68.0	18.834	1.950	2444.816	0.07%	98.71%
69.0	18.121	1.885	2446.701	0.07%	98.78%
70.0	17.429	1.826	2448.527	0.07%	98.86%
71.0	16.786	1.768	2450.296	0.07%	98.93%
72.0	16.205	1.715	2452.011	0.07%	99.00%
73.0	15.762	1.672	2453.683	0.06%	99.06%
74.0	15.361	1.636	2455.319	0.06%	99.13%
75.0	14.918	1.600	2456.919	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.503	1.562	2458.481	0.06%	99.26%
77.0	14.094	1.525	2460.005	0.06%	99.32%
78.0	13.714	1.489	2461.494	0.06%	99.38%
79.0	13.333	1.453	2462.947	0.06%	99.44%
80.0	12.932	1.416	2464.363	0.05%	99.50%
81.0	12.607	1.381	2465.744	0.05%	99.55%
82.0	12.247	1.348	2467.092	0.05%	99.61%
83.0	11.901	1.313	2468.405	0.05%	99.66%
84.0	11.610	1.281	2469.685	0.05%	99.71%
85.0	11.327	1.252	2470.937	0.05%	99.76%
86.0	11.078	1.225	2472.162	0.05%	99.81%
87.0	10.877	1.202	2473.364	0.05%	99.86%
88.0	10.614	1.177	2474.541	0.05%	99.91%
89.0	10.517	1.158	2475.699	0.04%	99.95%
90.0	10.476	1.151	2476.85	0.04%	100.00%

Zonal flux distribution table

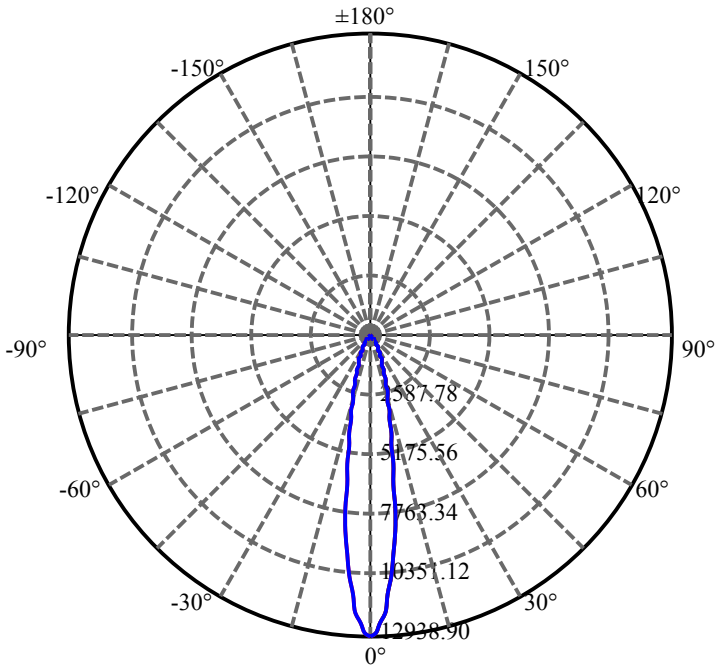
ZONAL LUMEN SUMMARY

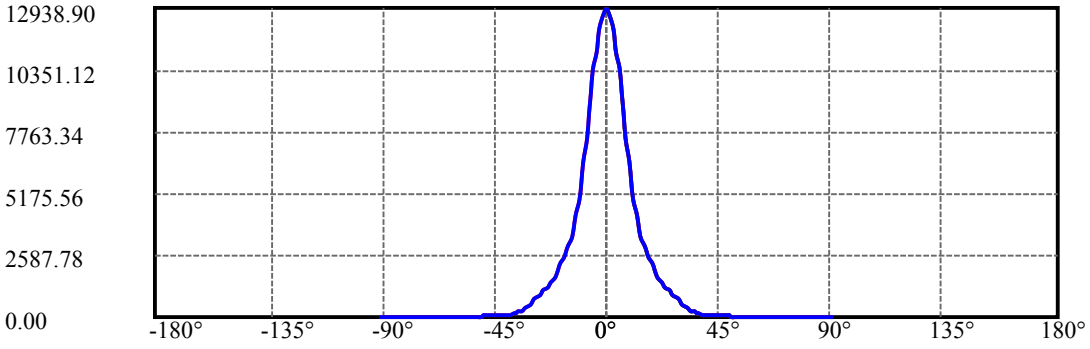
Zone	Lumens	%Lamp	%Fixt
0-30	2194.77	84.05%	88.61%
0-40	2354.84	90.18%	95.07%
0-60	2427.53	92.96%	98.01%
0-90	2475.70	94.80%	99.95%
0-120	2475.70	94.80%	99.95%
0-180	2476.85	94.85%	100.00%
60-90	48.17	1.84%	1.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.03	1981.48	75.88%	80.00%

ZONAL LUMEN SUMMARY

0-10	828.16
10-20	861.97
20-30	504.64
30-40	160.07
40-50	46.11
50-60	26.58
60-70	21.00
70-80	15.84
80-90	11.34
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:23.1 Right:23.1
:C90/270Left:23.1 Right:23.1

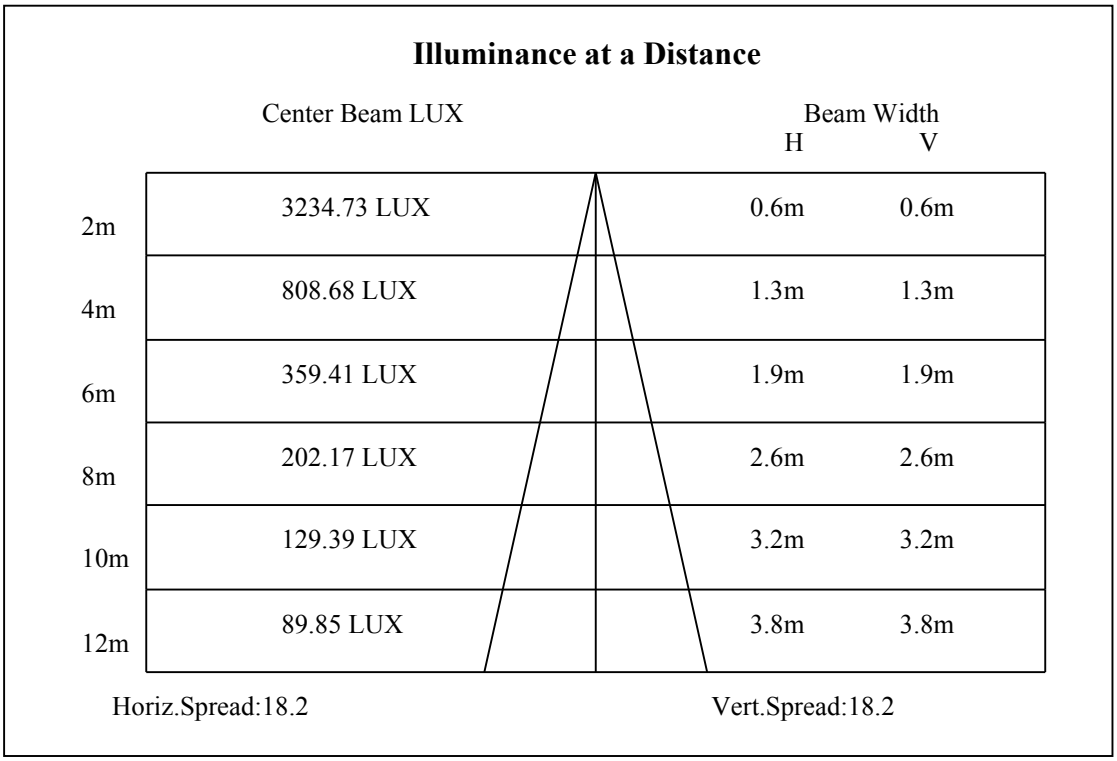
Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0
:C90/270Left:9.0 Right:9.0

Equipment: GMS1980
Temperature(°C): 0.0

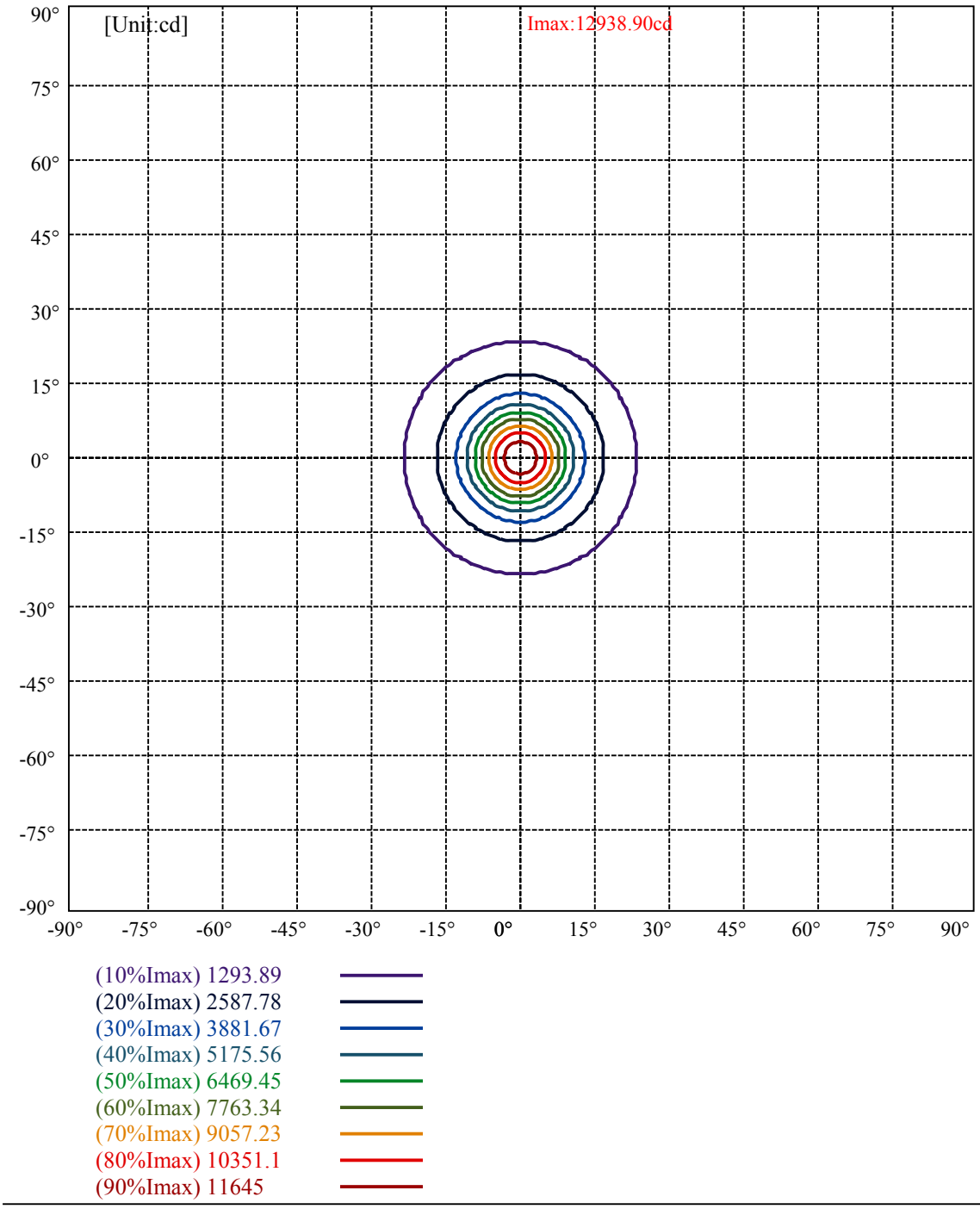
Date: 2023/10/19
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)



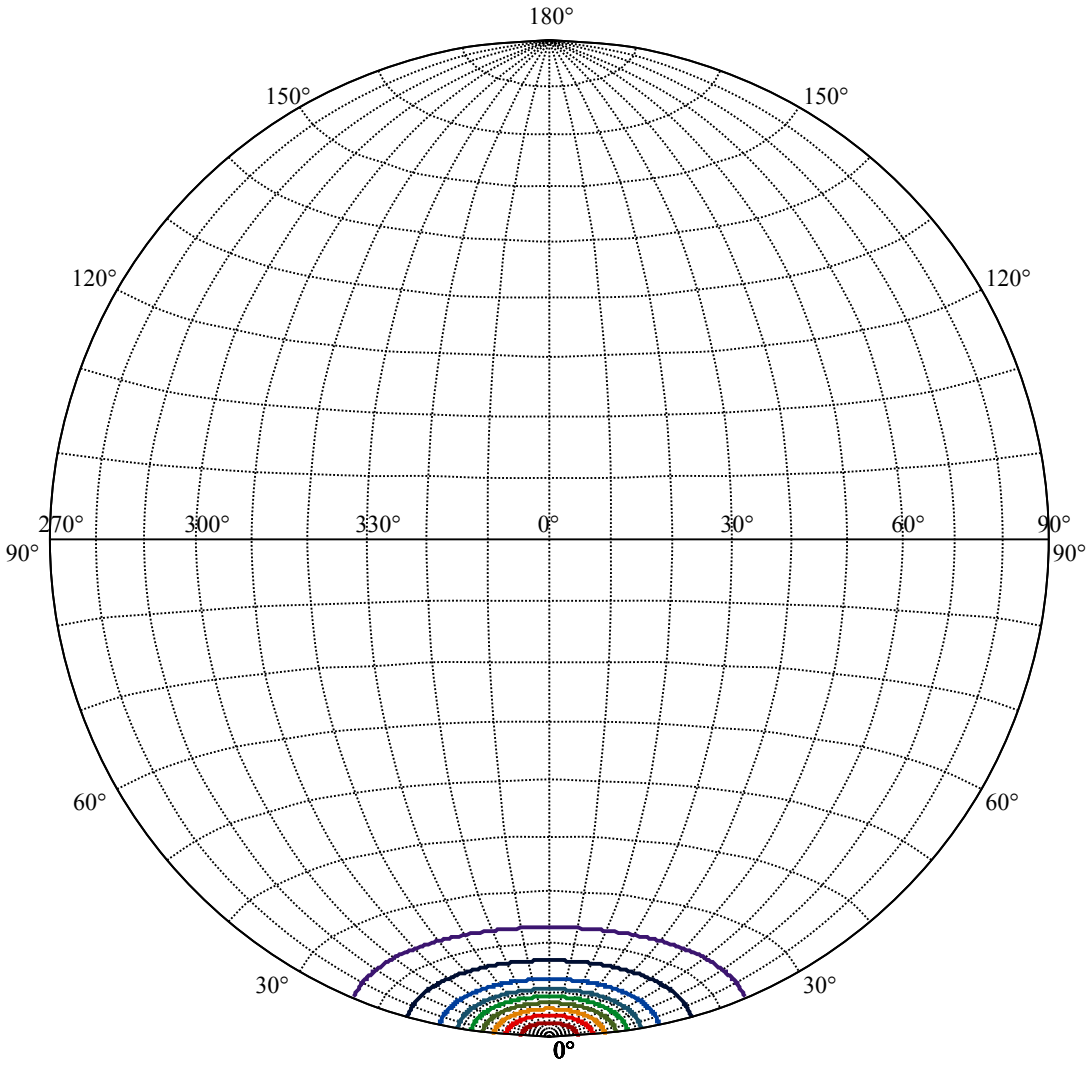
(10%Imax) 1293.89
(20%Imax) 2587.78
(30%Imax) 3881.67
(40%Imax) 5175.56
(50%Imax) 6469.45
(60%Imax) 7763.34
(70%Imax) 9057.23
(80%Imax) 10351.1
(90%Imax) 11645

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/19
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:12938.90

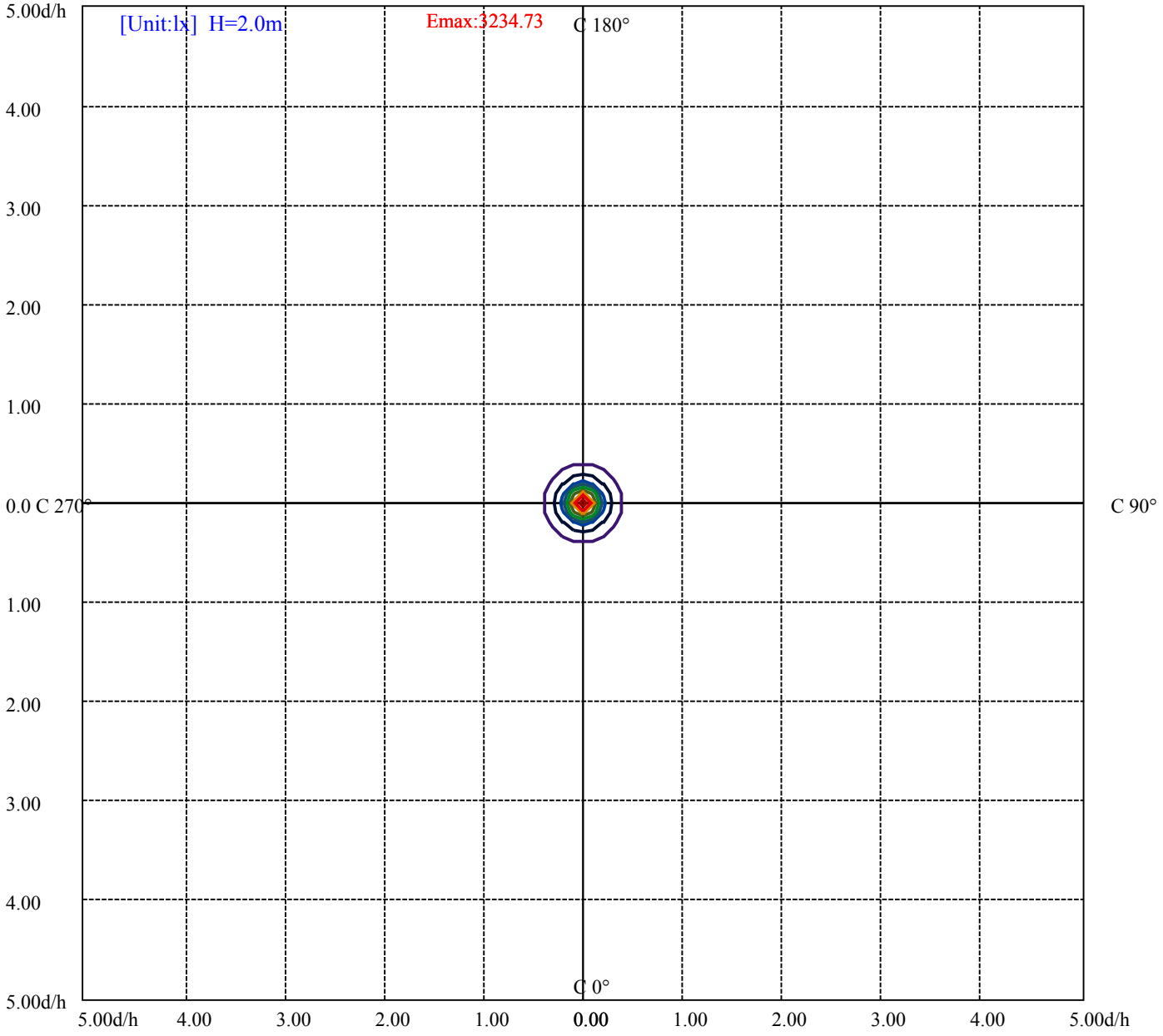
(10%Imax) 1293.89
(20%Imax) 2587.78
(30%Imax) 3881.67
(40%Imax) 5175.56
(50%Imax) 6469.45
(60%Imax) 7763.34
(70%Imax) 9057.23
(80%Imax) 10351.1
(90%Imax) 11645

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/19
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

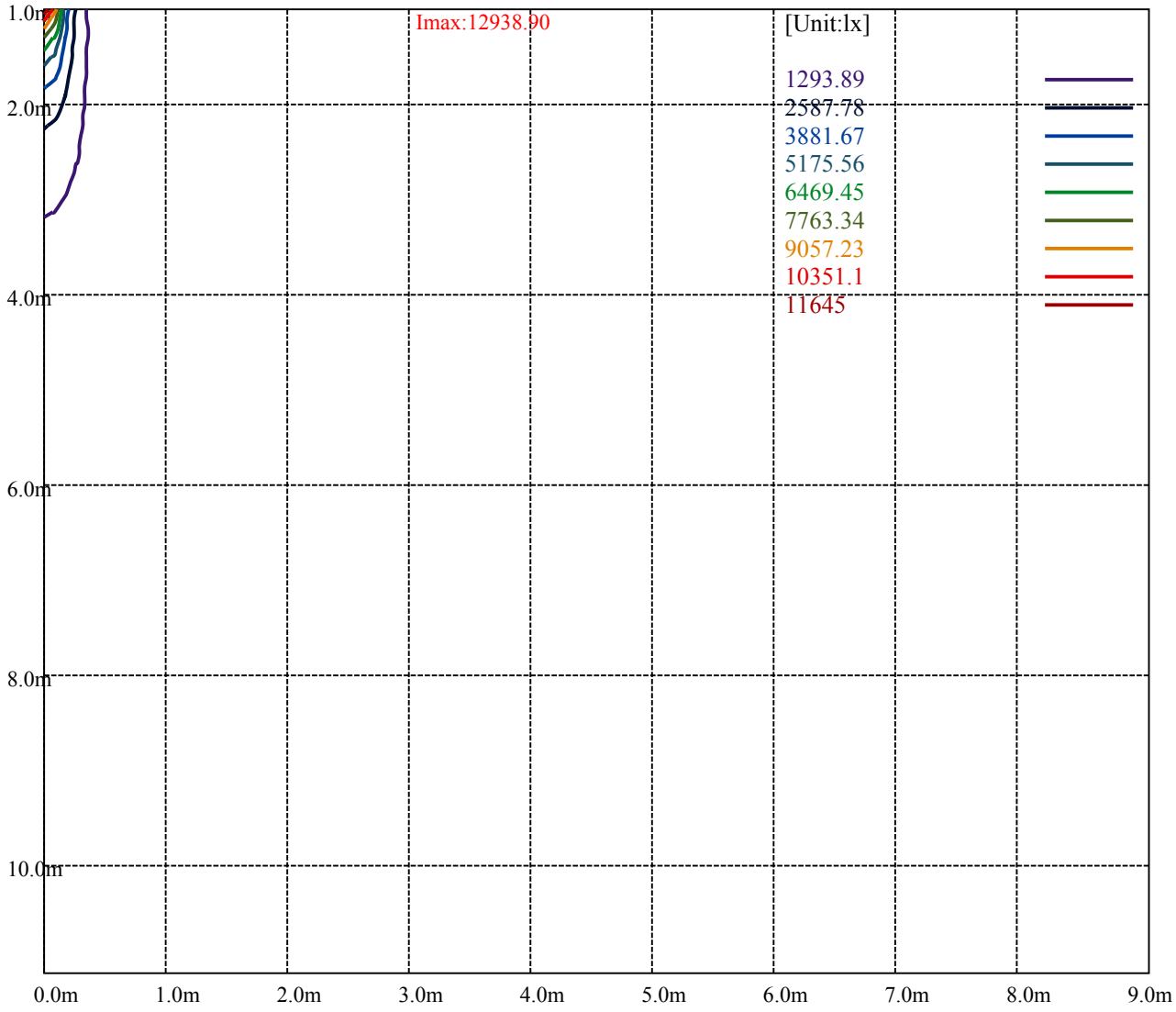
ISO illuminance diagram



(10%Emax) 323.4725
(20%Emax) 646.945
(30%Emax) 970.4175
(40%Emax) 1293.887
(50%Emax) 1617.36
(60%Emax) 1940.833
(70%Emax) 2264.305
(80%Emax) 2587.775
(90%Emax) 2911.25

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/19
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/19
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

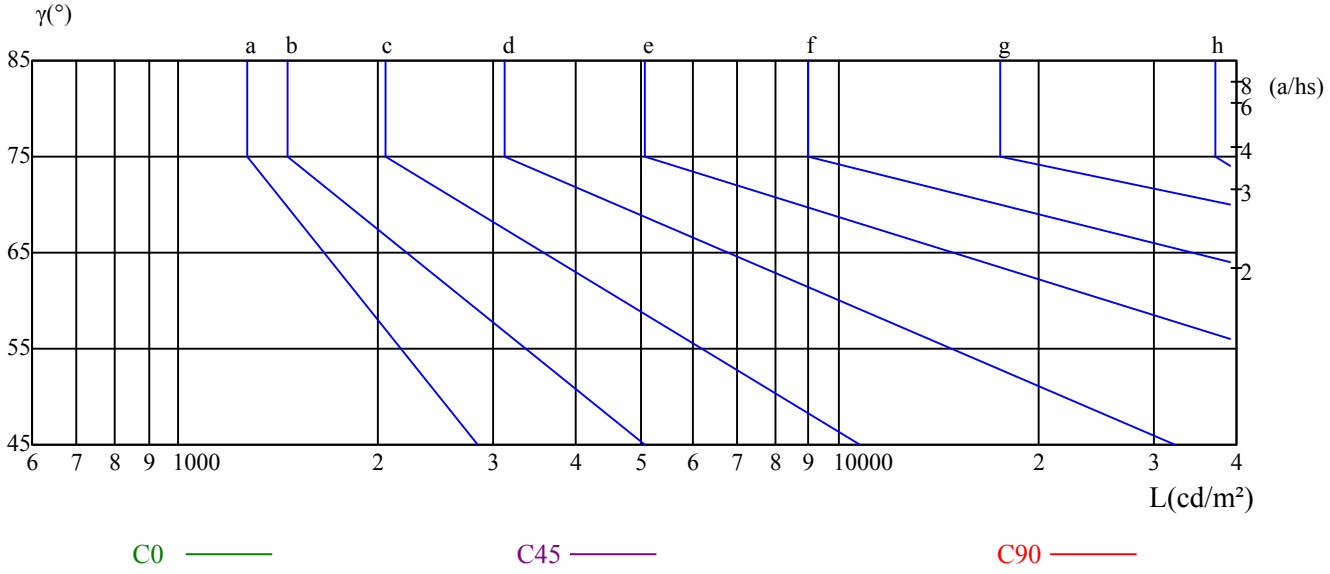
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

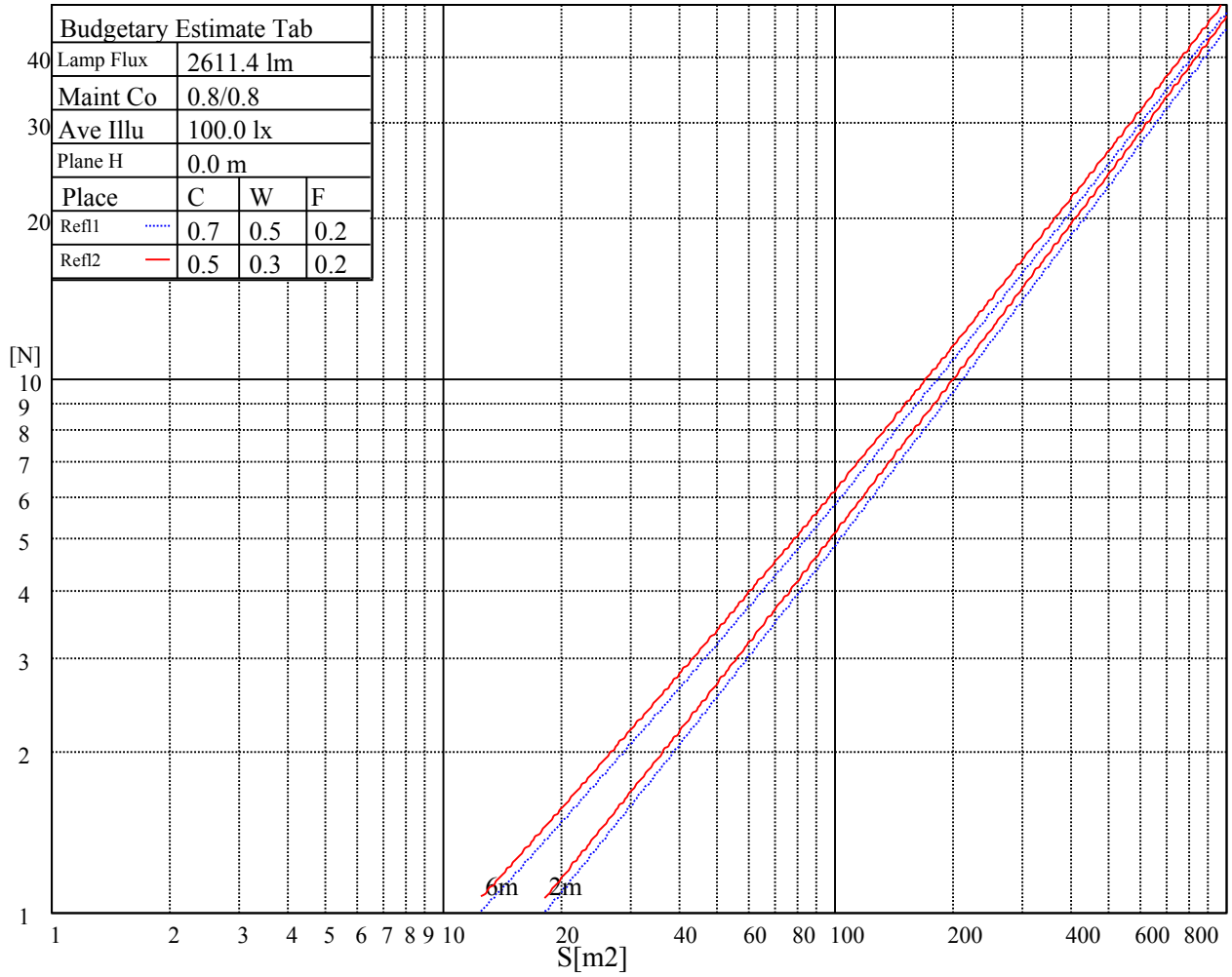
Luminance Limitting Curve



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 X Y	Viewed crosswise					Viewed endwise				
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
2H 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
2H 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
2H 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
2H 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
2H 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
4H 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 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
4H 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
4H 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
4H 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
8H 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 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
8H 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
12H 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
12H 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

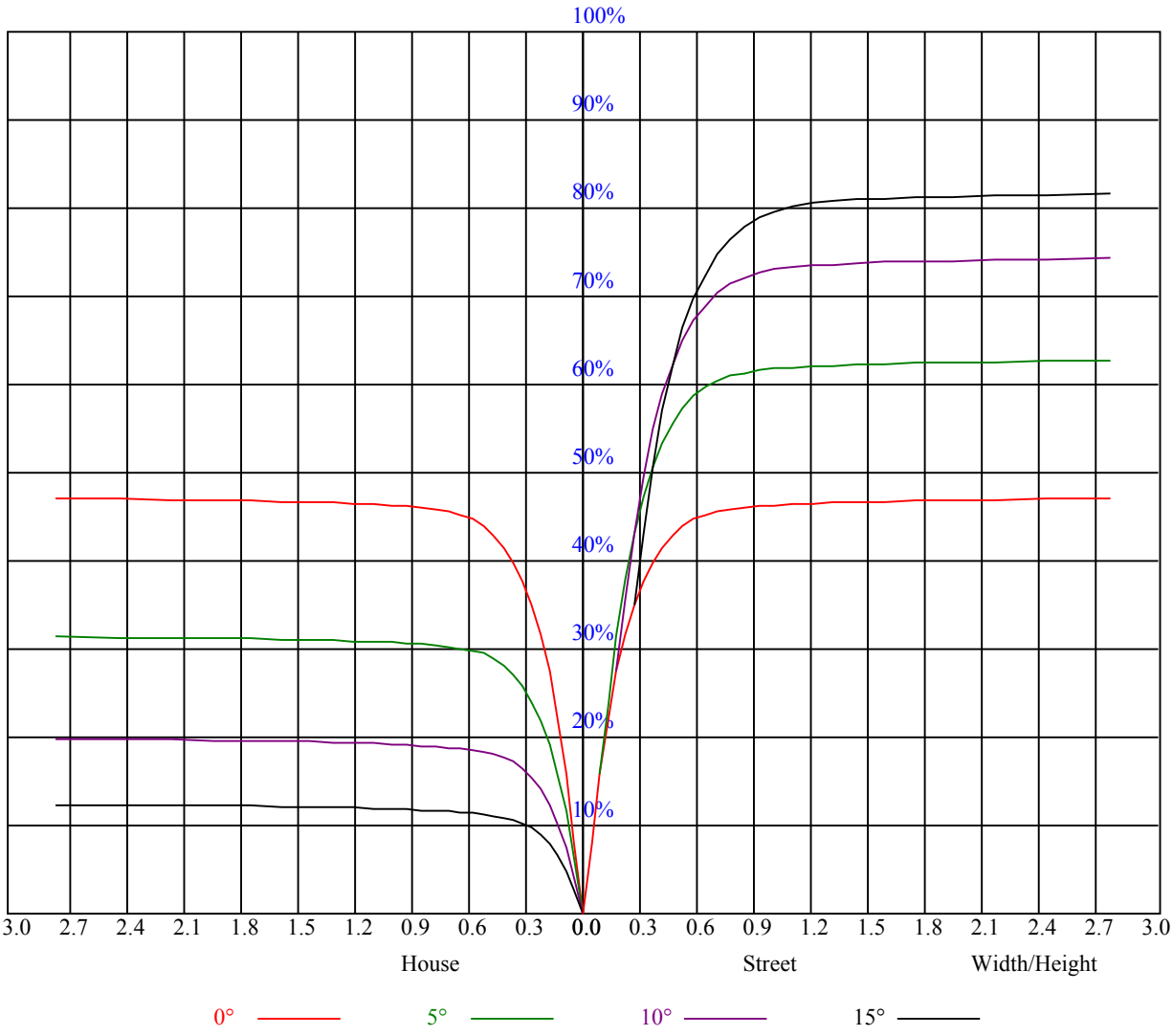


Equipment: GMS1980 Date: 2023/10/19 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	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	0.86
3	0.96	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.88	0.86	0.84	0.83
4	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.82	0.85	0.83	0.81	0.79
5	0.87	0.83	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.78	0.76
6	0.84	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
7	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
8	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.66	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: 2023/10/19	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	12759.00	12000.66	10977.17	10977.17	10086.53	8900.31	7942.69	6990.61	6090.56
45.0	13063.45	12858.64	12354.92	11740.50	10982.15	9864.01	8911.93	7976.45	6786.35
90.0	12858.64	12482.24	10972.19	10972.19	10067.71	8897.54	7931.06	6974.55	6072.84
135.0	13074.52	12963.81	12653.83	12127.97	11253.39	10384.34	9459.93	8513.38	7306.68
180.0	12759.00	13057.91	13096.66	12858.64	12449.02	11862.28	10926.80	10024.54	9083.53
225.0	13063.45	13085.59	12902.92	12410.28	10894.70	10894.70	10027.30	9071.35	8090.48
270.0	12858.64	13057.91	13019.17	12781.15	12233.15	11618.72	10888.05	9991.32	8823.36
315.0	13074.52	12963.81	12653.83	10964.99	10964.99	10541.54	9395.17	8432.01	7466.09
360.0	12759.00	12000.66	10977.17	10977.17	10086.53	8900.31	7942.69	6990.61	6090.56

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5122.98	4485.86	3962.76	3426.94	3089.28	2735.57	2482.61	2259.53	2022.62
45.0	5917.30	5164.49	4378.47	3874.75	3454.06	3099.80	2817.50	2817.50	2260.09
90.0	5110.80	4475.89	3952.80	3523.81	3088.18	2803.66	2544.05	2309.91	2061.37
135.0	6404.41	5596.25	4893.26	4173.66	3714.23	3243.72	2939.28	2800.89	2800.89
180.0	7887.89	6935.81	6033.54	5236.45	4417.22	3896.89	3481.74	3138.55	2834.10
225.0	7128.99	5992.03	5214.86	4417.77	3904.64	3486.17	3051.64	2769.89	2516.93
270.0	7887.89	6941.34	6055.68	5275.20	4450.43	3924.57	3503.88	3077.66	2845.18
315.0	6527.30	5489.42	4796.39	4220.71	3746.89	3270.84	2956.44	2680.22	2385.19
360.0	5122.98	4485.86	3962.76	3426.94	3089.28	2735.57	2482.61	2259.53	2022.62

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1848.81	1689.95	1539.94	1367.79	1082.22	1082.22	1059.08	942.67	849.57
45.0	2063.03	1844.38	1688.84	1535.51	1363.91	1245.46	1151.91	1038.43	944.33
90.0	1884.79	1681.64	1527.21	1386.05	1100.04	1100.04	1053.05	958.45	840.66
135.0	2170.97	1988.85	1815.60	1615.22	1466.87	1335.13	1229.96	1116.48	1023.49
180.0	2834.10	2301.60	2056.94	1875.38	1710.43	1521.67	1384.95	1268.70	1154.12
225.0	2290.53	2034.80	1859.33	1697.14	1546.58	1376.64	1102.42	1102.42	1080.72
270.0	2845.18	2241.27	2036.46	1814.49	1658.39	1508.39	1373.32	1221.65	1128.66
315.0	2173.74	1982.77	1774.64	1619.65	1472.96	1308.56	1084.54	1084.54	995.15
360.0	1848.81	1689.95	1539.94	1367.79	1082.22	1082.22	1059.08	942.67	849.57

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	757.07	664.96	552.59	464.86	379.61	283.58	220.03	167.56	144.75
45.0	847.46	732.33	640.99	551.88	466.08	363.67	287.84	287.84	212.28
90.0	746.61	653.01	560.18	450.30	366.77	289.67	209.62	167.78	144.92
135.0	924.96	802.63	705.76	587.30	497.63	411.83	331.01	294.48	294.48
180.0	1066.11	973.67	875.14	751.15	653.73	557.96	466.08	359.24	282.30
225.0	968.30	874.14	779.77	660.70	565.33	450.97	365.94	288.61	223.13
270.0	1045.08	955.96	862.41	744.51	650.40	538.04	450.02	364.23	290.61
315.0	901.88	808.44	716.94	602.19	510.97	423.62	341.97	252.63	195.95
360.0	757.07	664.96	552.59	464.86	379.61	283.58	220.03	167.56	144.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	128.92	115.30	100.80	90.78	81.76	74.12	65.65	60.00	54.86
45.0	145.30	129.69	115.52	100.36	90.12	81.26	72.13	65.48	58.56
90.0	126.98	113.97	99.58	89.67	81.26	73.95	67.31	60.39	55.63
135.0	157.26	139.49	121.06	108.27	97.03	87.40	77.00	69.75	63.38
180.0	282.30	161.58	140.87	126.70	110.26	98.75	86.41	77.83	70.47
225.0	166.12	142.65	127.42	114.14	99.86	89.95	81.26	72.07	65.70
270.0	290.61	162.46	134.51	120.06	107.66	96.92	85.47	77.38	70.30
315.0	158.09	133.51	119.40	107.05	93.88	84.64	76.55	68.03	62.11
360.0	128.92	115.30	100.80	90.78	81.76	74.12	65.65	60.00	54.86

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	49.32	45.72	42.46	38.80	36.48	34.43	31.94	30.33	29.01
45.0	53.97	49.60	46.28	42.40	39.41	37.14	35.26	32.77	31.27
90.0	51.04	47.44	43.78	40.91	37.97	36.04	34.10	32.05	30.67
135.0	57.07	52.42	47.27	44.06	41.07	38.47	35.76	33.77	31.99
180.0	64.04	57.51	53.03	48.88	45.33	42.40	38.80	36.37	33.77
225.0	60.22	54.47	49.98	46.39	42.62	39.74	37.25	34.65	32.71
270.0	64.27	57.90	53.36	48.99	45.61	41.79	38.97	36.09	34.10
315.0	57.07	52.48	47.16	43.95	40.96	38.14	35.26	33.32	31.33
360.0	49.32	45.72	42.46	38.80	36.48	34.43	31.94	30.33	29.01

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.51	26.51	25.74	25.19	24.52	23.97	23.58	23.19	22.31
45.0	30.00	28.56	27.51	26.74	26.07	25.57	24.96	24.41	23.91
90.0	29.45	28.01	27.12	26.46	25.85	25.08	24.69	24.24	23.53
135.0	30.61	28.84	27.73	26.85	26.13	25.35	24.80	24.08	23.69
180.0	31.88	30.28	28.56	27.46	26.40	25.35	24.74	24.19	23.53
225.0	31.00	29.67	28.23	27.18	26.29	25.63	24.85	24.19	23.69
270.0	32.22	30.22	29.06	27.95	26.68	25.91	25.30	24.85	24.08
315.0	29.50	28.29	27.07	26.07	25.41	24.85	24.13	23.58	23.19
360.0	27.51	26.51	25.74	25.19	24.52	23.97	23.58	23.19	22.31

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.59	20.70	19.87	19.04	18.21	17.44	16.83	16.27	15.67
45.0	23.19	22.36	21.37	20.54	19.71	18.99	17.99	17.27	16.72
90.0	22.47	21.81	20.81	19.82	19.10	18.10	17.44	16.94	16.38
135.0	23.19	22.31	21.64	20.92	19.87	19.15	18.43	17.71	16.94
180.0	23.08	22.69	21.98	21.26	20.48	19.65	18.93	18.16	17.49
225.0	23.14	22.53	21.48	20.81	20.04	19.10	18.43	17.77	17.10
270.0	23.41	22.97	22.25	21.26	20.59	19.65	18.93	18.27	17.44
315.0	22.81	21.75	21.09	20.37	19.32	18.60	17.99	17.05	16.55
360.0	21.59	20.70	19.87	19.04	18.21	17.44	16.83	16.27	15.67

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.28	14.89	14.56	14.12	13.78	13.45	13.06	12.73	12.34
45.0	16.05	15.61	15.17	14.72	14.34	13.95	13.56	13.17	12.84
90.0	15.78	15.39	15.00	14.61	14.12	13.67	13.28	12.95	12.51
135.0	16.44	15.94	15.55	15.00	14.61	14.06	13.67	13.28	12.84
180.0	16.77	16.33	15.89	15.50	15.00	14.61	14.23	13.84	13.34
225.0	16.55	16.11	15.72	15.33	14.95	14.50	14.12	13.62	13.23
270.0	16.88	16.38	15.94	15.44	15.06	14.67	14.28	13.89	13.56
315.0	15.89	15.44	15.06	14.61	14.17	13.84	13.51	13.17	12.79
360.0	15.28	14.89	14.56	14.12	13.78	13.45	13.06	12.73	12.34

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.12	11.79	11.51	11.35	11.07	10.85	10.68	10.35	10.46
45.0	12.45	12.12	11.73	11.40	11.18	10.90	10.68	10.41	10.30
90.0	12.18	11.85	11.51	11.29	11.02	10.79	10.68	10.30	10.63
135.0	12.51	12.07	11.79	11.51	11.24	11.02	10.85	10.63	10.30
180.0	13.01	12.62	12.29	11.90	11.62	11.35	11.13	10.90	10.68
225.0	12.90	12.51	12.18	11.85	11.46	11.24	11.02	10.79	10.68
270.0	13.17	12.84	12.34	12.01	11.68	11.40	11.13	10.90	10.74
315.0	12.51	12.18	11.85	11.57	11.35	11.07	10.85	10.63	10.35
360.0	12.12	11.79	11.51	11.35	11.07	10.85	10.68	10.35	10.46

Intensity data(cd)

C/γ(°)	90.0
0.0	10.46
45.0	10.46
90.0	10.46
135.0	10.57
180.0	10.68
225.0	10.35
270.0	10.57
315.0	10.24
360.0	10.46