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NT

Client:
LumCAT: 1-1377-L
Luminaire: 92.70.428.00
Report No: 20231204-B016
Ballast type: AC

Test No: 20231204-C016	Voltage(V): 37.780
LampCAT: CREE CXA1507 LES8.9	Current(A): 0.330
Lamp flux(lm): 1242.2	Power (W): 12.467
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1142.68, Efficiency(%): 91.99% , Luminous Efficacy(lm/W): 91.66
Central intensity(cd): 5304.674, Maximum intensity(cd): 5304.674
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.2
[C90/270]Total=20.2
Field angle(10%Imax): [C0/180]Total=49.6
[C90/270]Total=49.6
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.99%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.008%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5304.674	0.000	0	0.00%	0.00%
1.0	5273.676	5.062	5.062	0.41%	0.44%
2.0	5180.820	15.005	20.067	1.21%	1.76%
3.0	5032.680	24.427	44.494	1.97%	3.89%
4.0	4794.521	32.895	77.389	2.65%	6.77%
5.0	4507.859	40.018	117.407	3.22%	10.27%
6.0	4176.913	45.641	163.048	3.67%	14.27%
7.0	3829.293	49.694	212.742	4.00%	18.62%
8.0	3453.165	52.119	264.862	4.20%	23.18%
9.0	3052.543	52.725	317.587	4.24%	27.79%
10.0	2702.086	52.077	369.664	4.19%	32.35%
11.0	2364.498	50.626	420.29	4.08%	36.78%
12.0	2073.961	48.519	468.808	3.91%	41.03%
13.0	1818.435	46.193	515.001	3.72%	45.07%
14.0	1599.442	43.749	558.75	3.52%	48.90%
15.0	1391.493	41.061	599.811	3.31%	52.49%
16.0	1233.417	38.462	638.273	3.10%	55.86%
17.0	1131.109	36.822	675.095	2.96%	59.08%
18.0	1031.362	35.654	710.75	2.87%	62.20%
19.0	939.537	34.290	745.039	2.76%	65.20%
20.0	854.459	32.835	777.874	2.64%	68.07%
21.0	775.732	31.303	809.177	2.52%	70.81%
22.0	706.430	29.785	838.962	2.40%	73.42%
23.0	641.009	28.273	867.235	2.28%	75.89%
24.0	579.296	26.680	893.915	2.15%	78.23%
25.0	519.445	24.983	918.898	2.01%	80.42%
26.0	463.102	23.193	942.091	1.87%	82.45%
27.0	406.503	21.275	963.366	1.71%	84.31%
28.0	354.540	19.268	982.634	1.55%	85.99%
29.0	303.372	17.213	999.847	1.39%	87.50%
30.0	265.981	15.372	1015.219	1.24%	88.85%
31.0	231.032	13.831	1029.051	1.11%	90.06%
32.0	199.979	12.348	1041.399	0.99%	91.14%
33.0	151.053	10.342	1051.74	0.83%	92.04%
34.0	126.850	8.410	1060.15	0.68%	92.78%
35.0	104.141	7.174	1067.324	0.58%	93.41%
36.0	87.355	6.097	1073.421	0.49%	93.94%
37.0	71.441	5.179	1078.6	0.42%	94.39%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	59.727	4.378	1082.978	0.35%	94.78%
39.0	50.538	3.764	1086.742	0.30%	95.10%
40.0	43.051	3.264	1090.006	0.26%	95.39%
41.0	37.087	2.854	1092.86	0.23%	95.64%
42.0	32.126	2.515	1095.374	0.20%	95.86%
43.0	28.369	2.241	1097.615	0.18%	96.06%
44.0	25.207	2.022	1099.637	0.16%	96.23%
45.0	22.813	1.845	1101.483	0.15%	96.39%
46.0	20.585	1.697	1103.18	0.14%	96.54%
47.0	18.820	1.567	1104.747	0.13%	96.68%
48.0	17.450	1.466	1106.213	0.12%	96.81%
49.0	16.309	1.386	1107.6	0.11%	96.93%
50.0	15.285	1.317	1108.917	0.11%	97.05%
51.0	14.357	1.254	1110.171	0.10%	97.15%
52.0	13.672	1.203	1111.374	0.10%	97.26%
53.0	13.063	1.163	1112.537	0.09%	97.36%
54.0	12.510	1.127	1113.664	0.09%	97.46%
55.0	12.046	1.096	1114.76	0.09%	97.56%
56.0	11.631	1.070	1115.83	0.09%	97.65%
57.0	11.306	1.049	1116.879	0.08%	97.74%
58.0	10.946	1.029	1117.908	0.08%	97.83%
59.0	10.718	1.013	1118.921	0.08%	97.92%
60.0	10.469	1.001	1119.922	0.08%	98.01%
61.0	10.240	0.988	1120.91	0.08%	98.09%
62.0	10.061	0.978	1121.888	0.08%	98.18%
63.0	9.860	0.969	1122.857	0.08%	98.27%
64.0	9.659	0.958	1123.815	0.08%	98.35%
65.0	9.459	0.946	1124.761	0.08%	98.43%
66.0	9.216	0.932	1125.693	0.08%	98.51%
67.0	8.953	0.914	1126.606	0.07%	98.59%
68.0	8.670	0.893	1127.499	0.07%	98.67%
69.0	8.393	0.870	1128.369	0.07%	98.75%
70.0	8.130	0.849	1129.218	0.07%	98.82%
71.0	7.888	0.828	1130.046	0.07%	98.89%
72.0	7.632	0.807	1130.853	0.06%	98.96%
73.0	7.431	0.788	1131.641	0.06%	99.03%
74.0	7.237	0.771	1132.412	0.06%	99.10%
75.0	7.030	0.754	1133.166	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.850	0.737	1133.902	0.06%	99.23%
77.0	6.663	0.720	1134.623	0.06%	99.29%
78.0	6.497	0.704	1135.327	0.06%	99.36%
79.0	6.324	0.689	1136.016	0.06%	99.42%
80.0	6.165	0.673	1136.69	0.05%	99.48%
81.0	6.027	0.659	1137.349	0.05%	99.53%
82.0	5.881	0.646	1137.995	0.05%	99.59%
83.0	5.736	0.632	1138.626	0.05%	99.65%
84.0	5.611	0.618	1139.244	0.05%	99.70%
85.0	5.466	0.605	1139.849	0.05%	99.75%
86.0	5.335	0.590	1140.439	0.05%	99.80%
87.0	5.224	0.578	1141.017	0.05%	99.85%
88.0	5.113	0.566	1141.583	0.05%	99.90%
89.0	4.989	0.554	1142.137	0.04%	99.95%
90.0	4.920	0.543	1142.68	0.04%	100.00%

Zonal flux distribution table

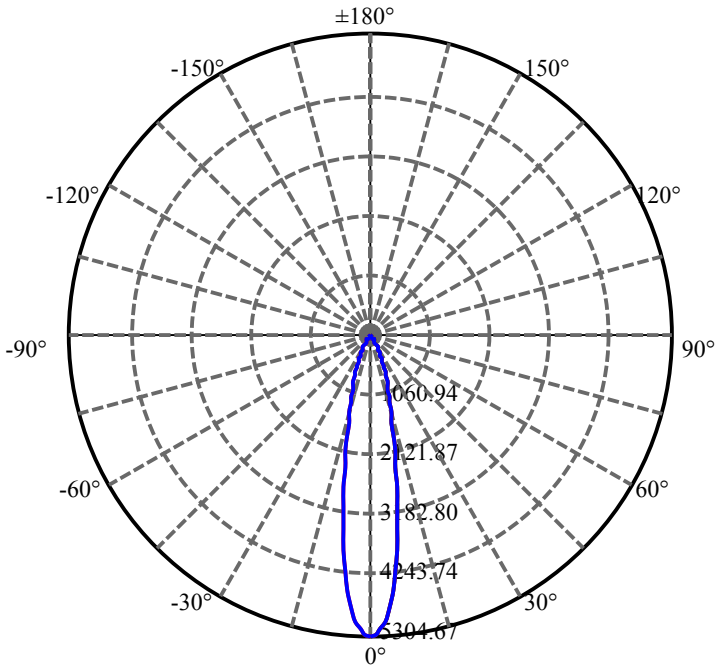
ZONAL LUMEN SUMMARY

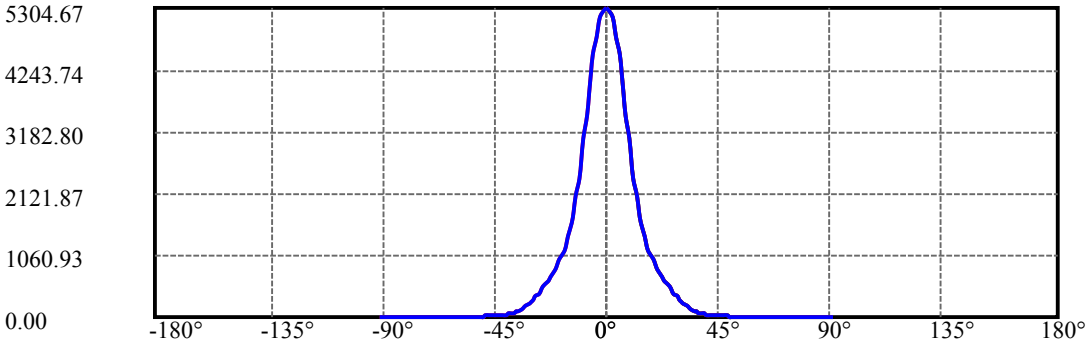
Zone	Lumens	%Lamp	%Fixt
0-30	1015.22	81.73%	88.85%
0-40	1090.01	87.75%	95.39%
0-60	1119.92	90.16%	98.01%
0-90	1142.14	91.95%	99.95%
0-120	1142.14	91.95%	99.95%
0-180	1142.68	91.99%	100.00%
60-90	22.22	1.79%	1.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.81	914.14	73.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	369.66
10-20	408.21
20-30	237.35
30-40	74.79
40-50	18.91
50-60	11.00
60-70	9.30
70-80	7.47
80-90	5.45
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):

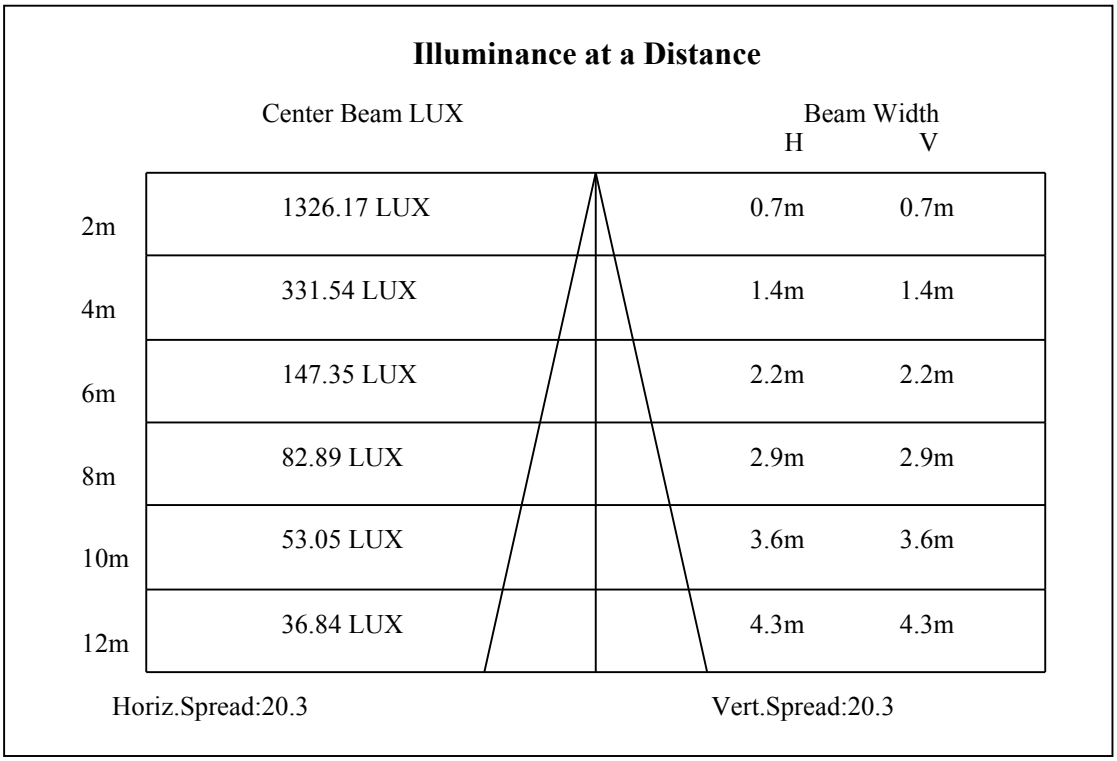
C0/C180:

C90/C270:

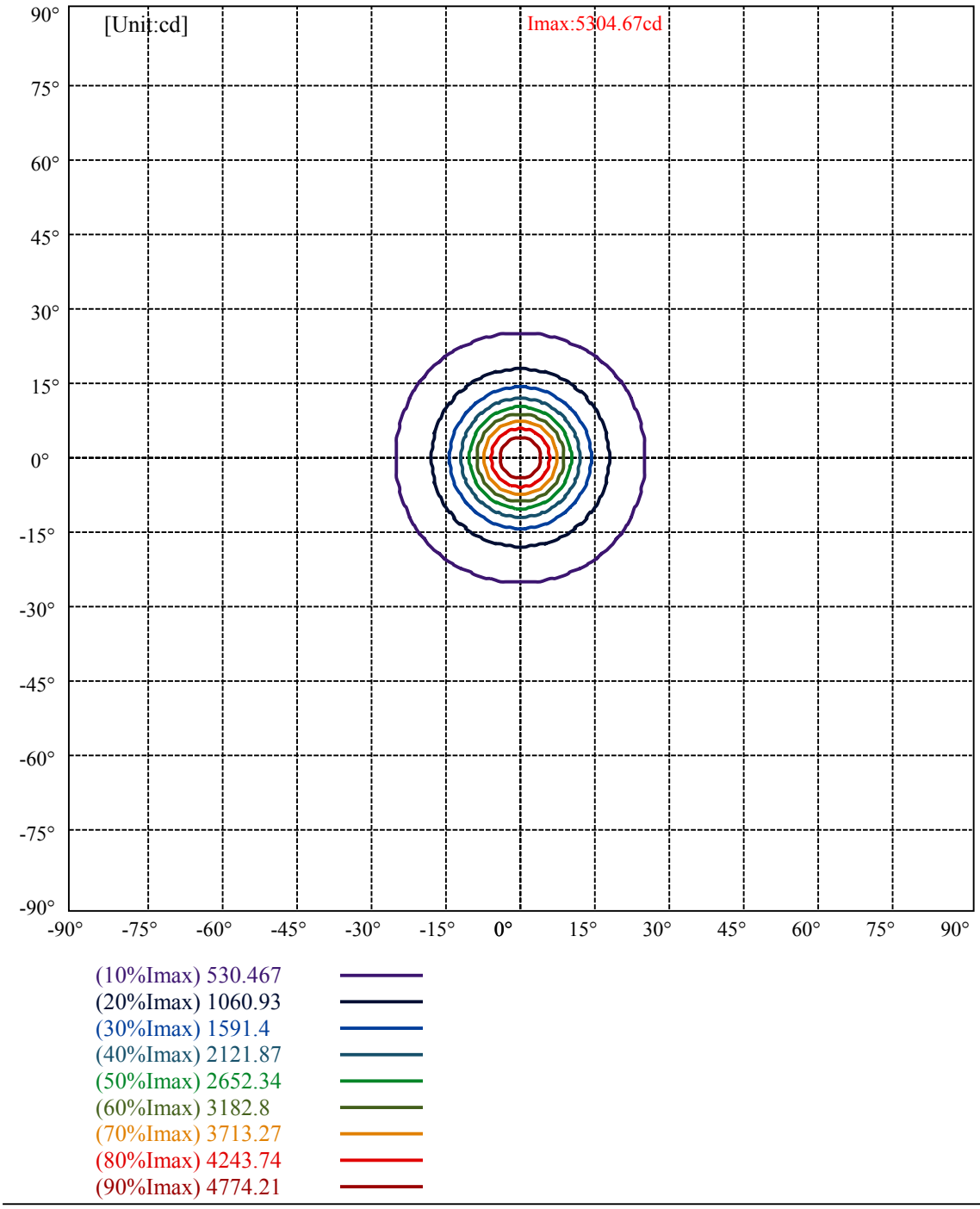
Field angle(10%Imax):C0/180Left:24.8 Right:24.8
:C90/270Left:24.8 Right:24.8

Beam Angle(50%Imax):C0/180Left:10.1 Right:10.1
:C90/270Left:10.1 Right:10.1

Lux distance Curve



ISO-Intensity(V-H)

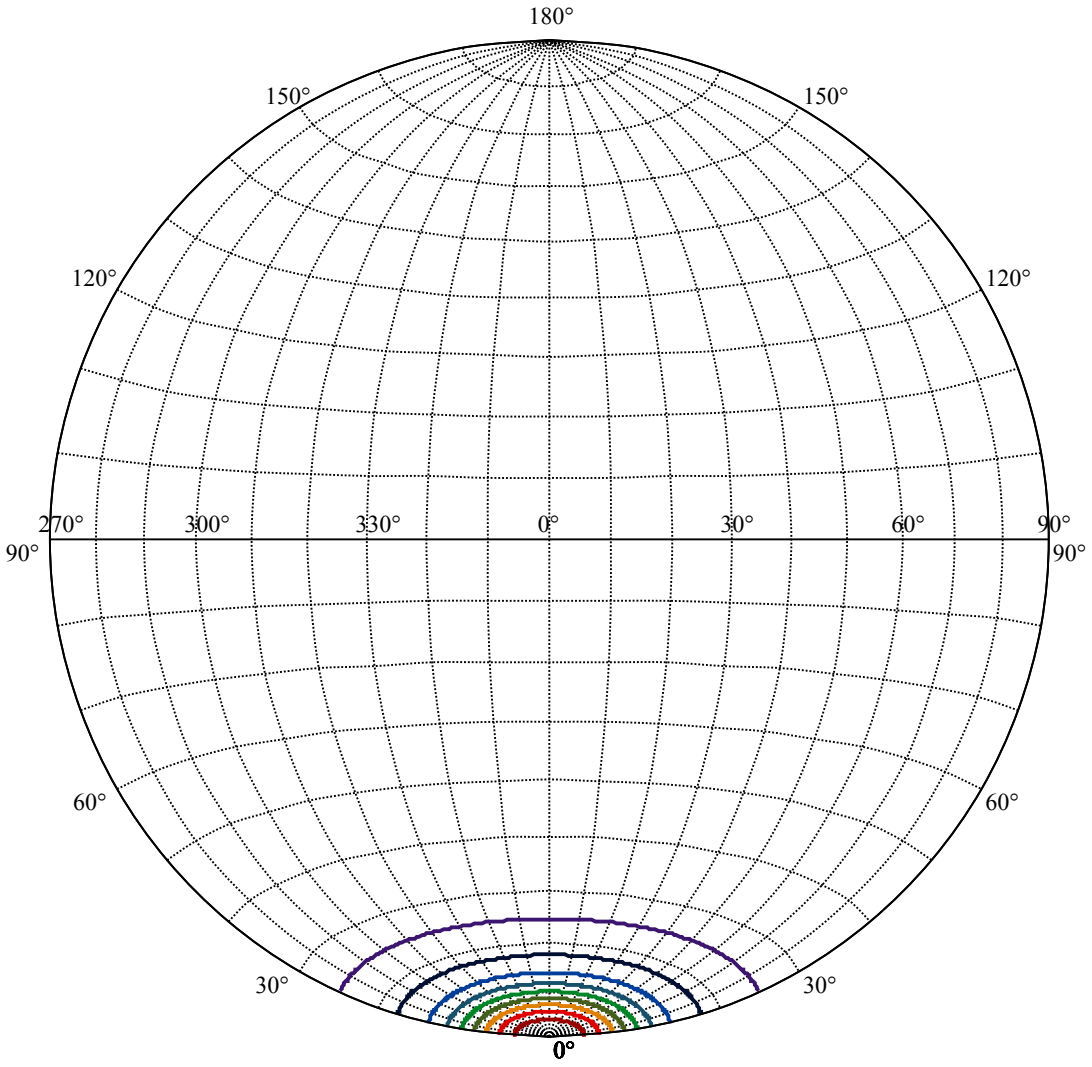


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/04
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



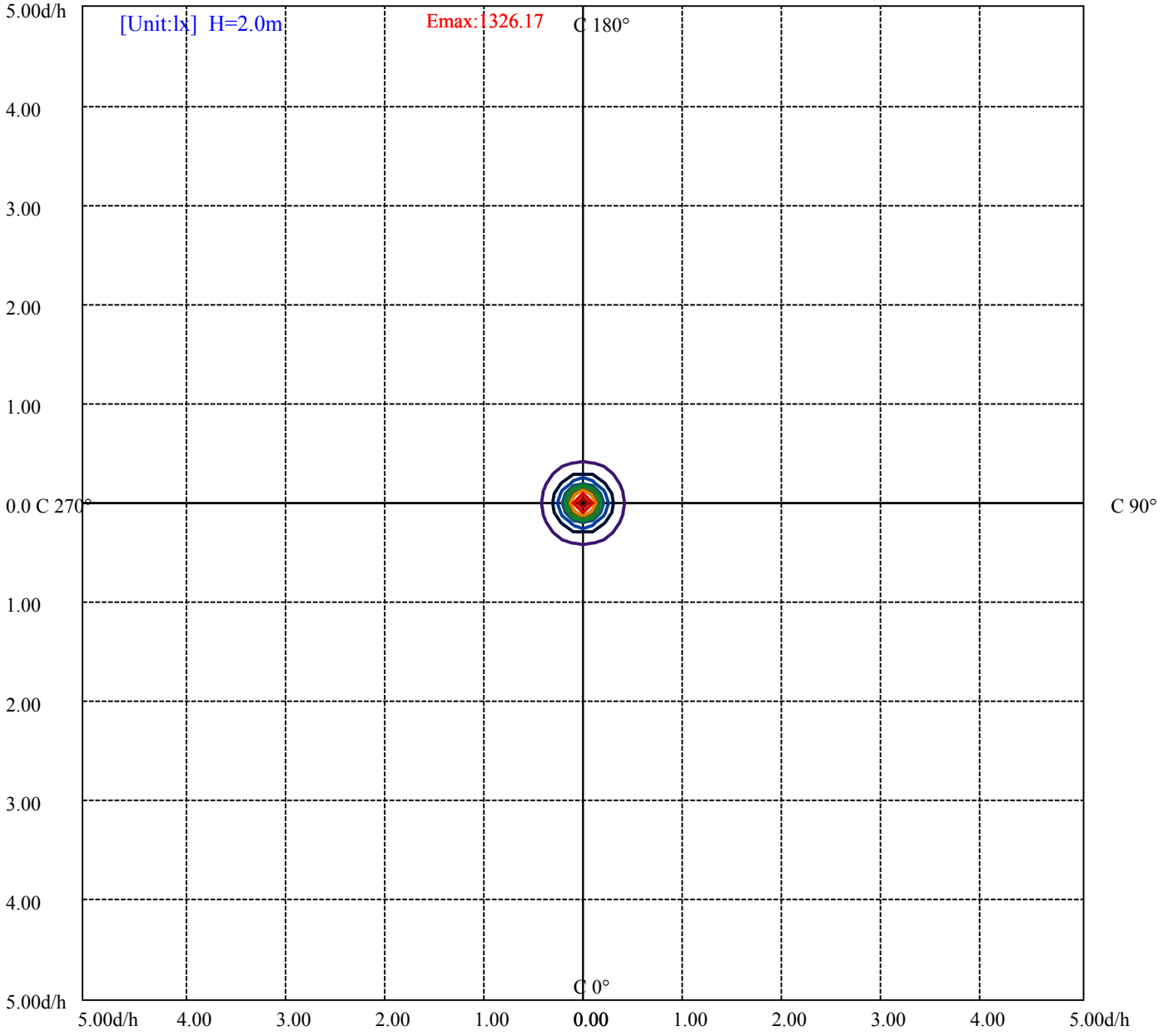
House [Unit:cd] Road

Imax:5304.67

(10%Imax) 530.467
(20%Imax) 1060.93
(30%Imax) 1591.4
(40%Imax) 2121.87
(50%Imax) 2652.34
(60%Imax) 3182.8
(70%Imax) 3713.27
(80%Imax) 4243.74
(90%Imax) 4774.21

Equipment: GMS1980 Date: 2023/12/04 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

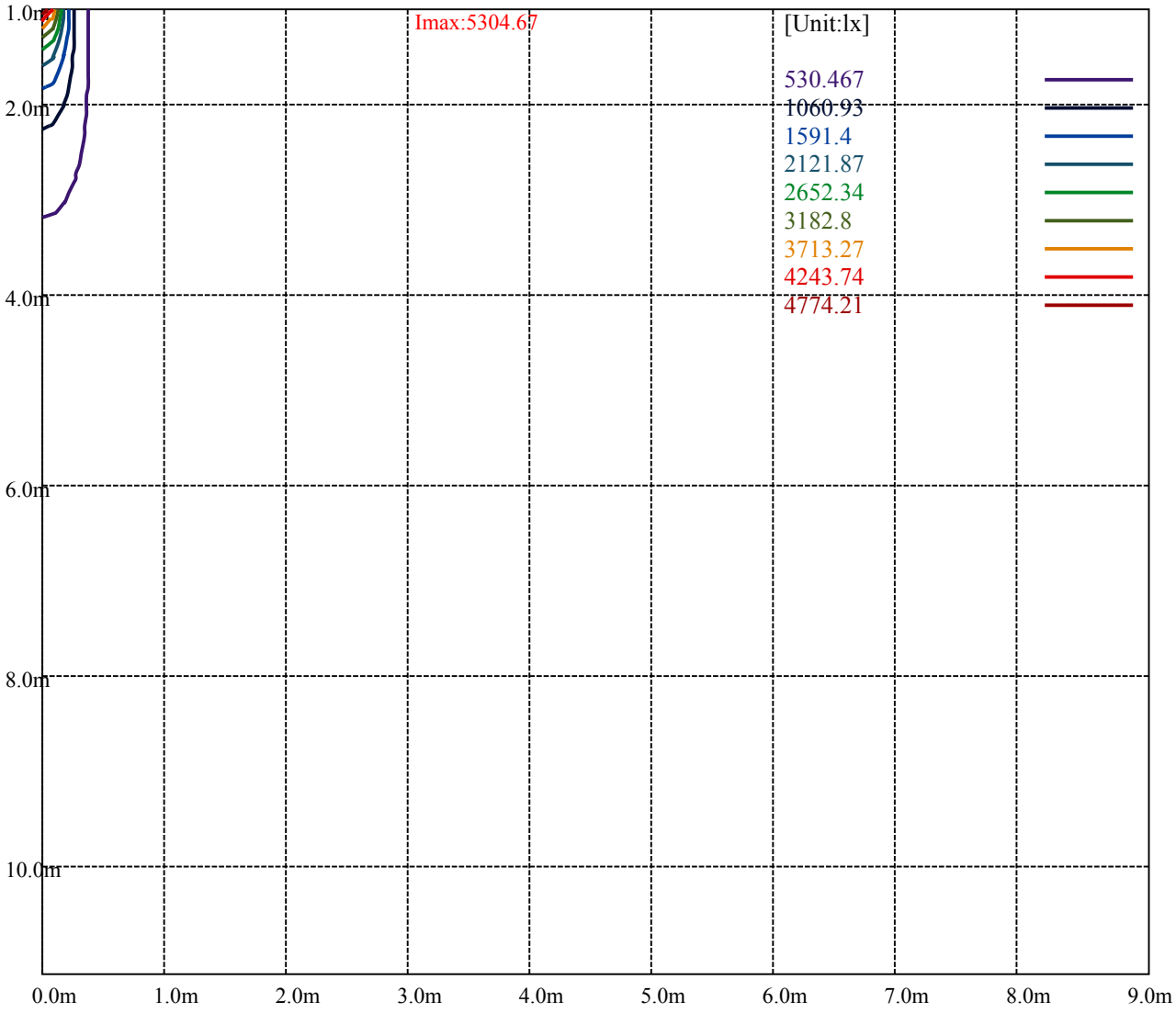
ISO illuminance diagram



(10%Emax) 132.6167
(20%Emax) 265.2325
(30%Emax) 397.85
(40%Emax) 530.4675
(50%Emax) 663.0825
(60%Emax) 795.7
(70%Emax) 928.3175
(80%Emax) 1060.935
(90%Emax) 1193.55

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/12/04
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/04
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1377-L

Luminance Limitting Curve(no luminous side)

Luminance Table

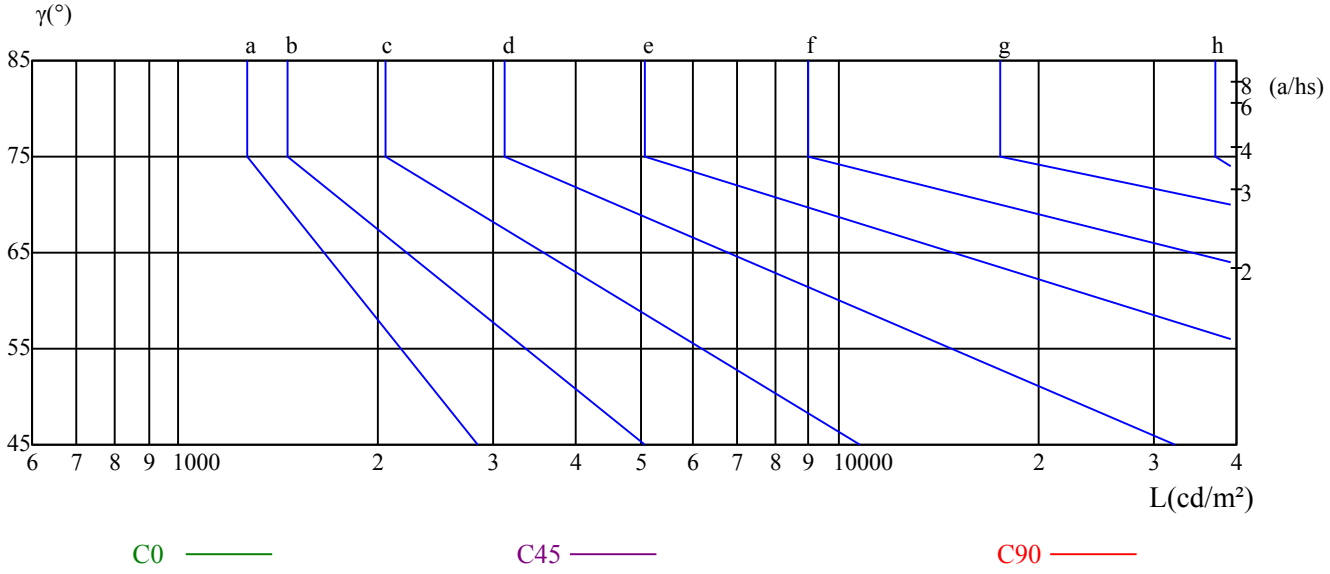
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

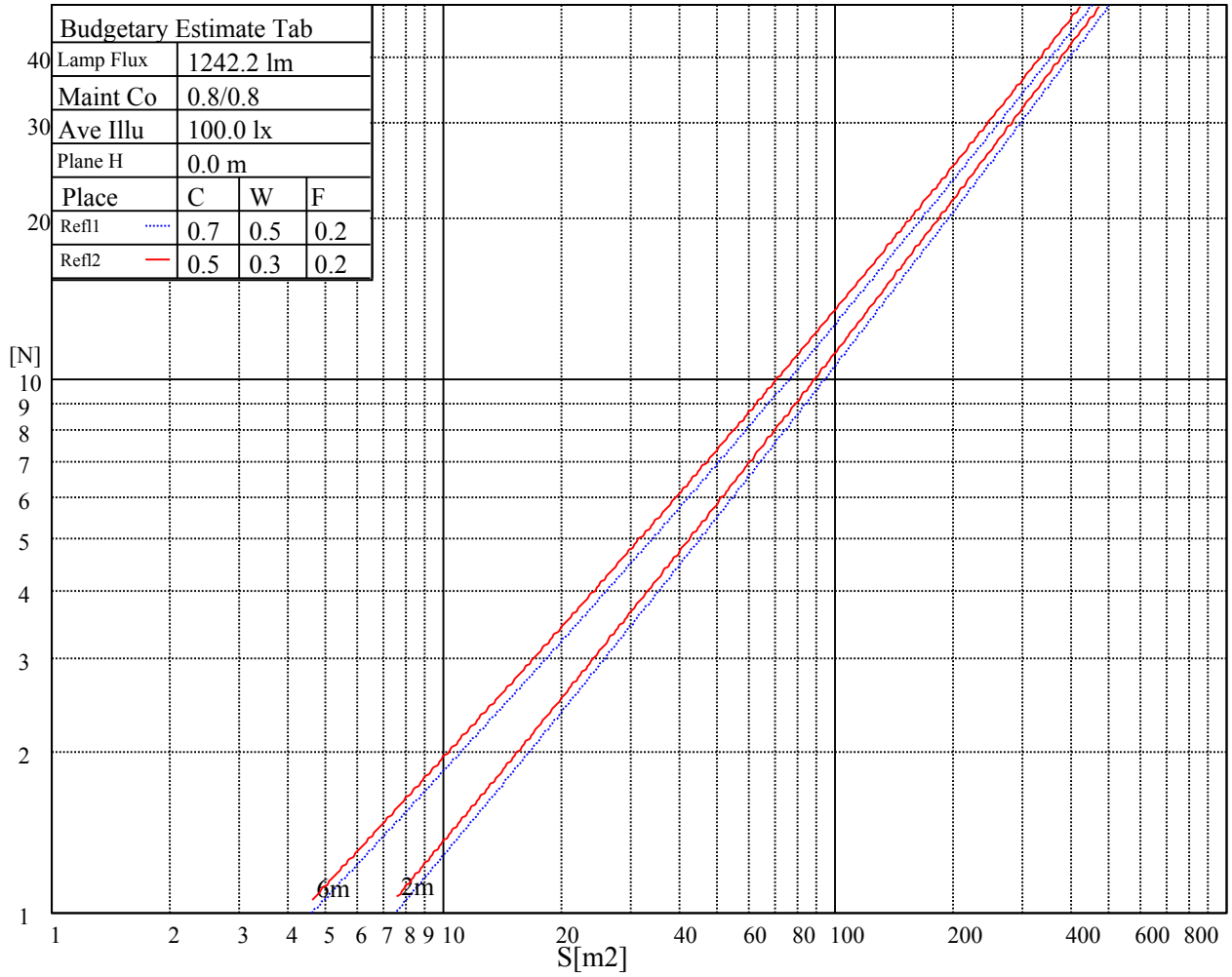
Luminance Limitting Curve



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		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

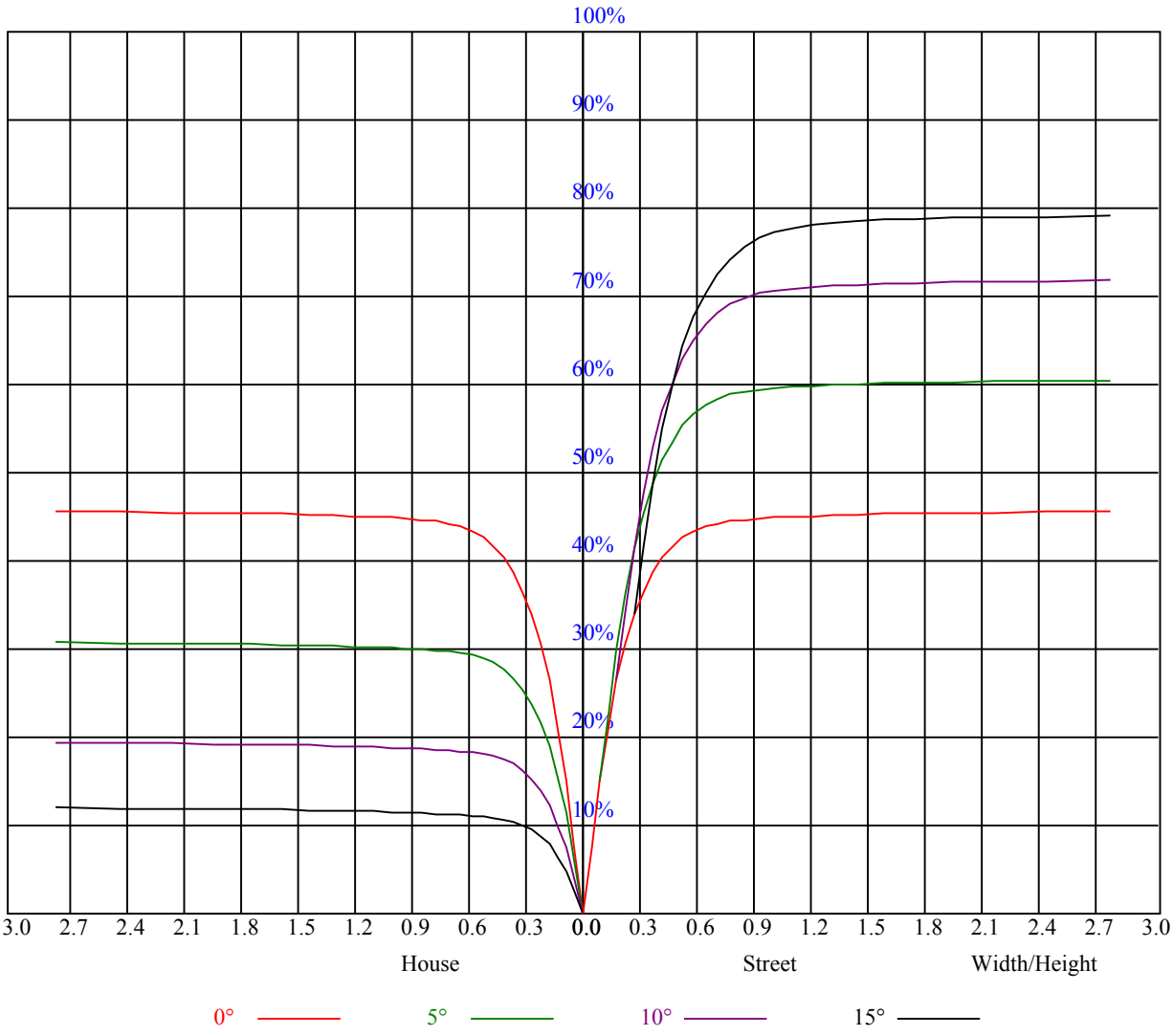


Equipment: GMS1980 Date: 2023/12/04 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	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
6	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	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
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.63

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/12/04	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	5292.36	5196.60	5045.48	4831.26	4493.05	4175.32	3746.33	3402.59	3049.43
45.0	5332.21	5296.23	5210.99	5068.18	4812.44	4539.00	4139.90	3792.28	3443.55
90.0	5274.09	5155.63	4956.91	4730.52	4450.98	4045.24	3689.87	3326.75	2970.27
135.0	5320.03	5270.22	5168.92	5004.52	4729.97	4457.07	4135.47	3786.19	3343.36
180.0	5292.36	5340.52	5314.50	5232.58	5089.76	4844.55	4591.03	4288.24	3945.05
225.0	5332.21	5296.23	5208.77	5062.64	4860.05	4532.35	4211.86	3855.38	3487.83
270.0	5274.09	5327.78	5308.96	5233.13	5067.07	4868.35	4603.76	4311.49	3879.73
315.0	5320.03	5306.20	5232.02	5098.62	4852.85	4600.99	4297.10	3871.43	3506.10
360.0	5292.36	5196.60	5045.48	4831.26	4493.05	4175.32	3746.33	3402.59	3049.43

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2625.97	2325.96	2059.71	1827.22	1584.77	1423.69	1084.27	1084.27	1034.72
45.0	3005.15	2669.15	2360.28	2030.92	1796.78	1600.83	1436.98	1264.28	1145.82
90.0	2635.94	2263.41	1995.50	1762.46	1528.31	1379.97	1094.78	1094.78	997.14
135.0	2983.56	2653.65	2277.25	2013.21	1729.25	1542.15	1385.50	1212.80	1099.88
180.0	3486.72	3132.46	2694.61	2376.88	2096.24	1791.24	1603.04	1431.44	1288.08
225.0	3026.73	2686.31	2298.28	2029.82	1797.33	1549.90	1387.71	1098.99	1098.99
270.0	3505.54	3152.94	2812.52	2409.54	2118.38	1865.42	1664.48	1448.60	1298.60
315.0	3150.73	2732.81	2417.85	2141.63	1896.41	1642.34	1475.17	1232.17	1085.65
360.0	2625.97	2325.96	2059.71	1827.22	1584.77	1423.69	1084.27	1084.27	1034.72

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	947.38	870.49	798.86	719.60	658.49	584.70	527.80	475.82	410.23
45.0	1043.97	955.96	859.09	787.68	722.36	647.08	588.96	523.65	471.06
90.0	914.66	819.12	752.14	688.76	616.25	557.24	502.72	451.46	387.20
135.0	1000.24	915.55	819.79	749.49	687.49	626.05	553.54	499.84	447.26
180.0	1141.39	1037.88	943.78	864.07	777.16	704.65	640.99	571.80	515.90
225.0	999.19	911.06	835.29	767.42	688.32	630.26	574.85	509.14	459.10
270.0	1144.16	1039.54	936.58	835.29	771.63	707.97	645.98	579.00	520.88
315.0	1059.91	966.70	890.14	793.55	729.73	670.11	599.53	544.85	493.20
360.0	947.38	870.49	798.86	719.60	658.49	584.70	527.80	475.82	410.23

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	358.14	309.54	256.18	218.81	185.60	157.54	127.09	106.94	89.45
45.0	417.92	366.44	306.66	285.62	285.62	189.70	153.94	129.97	108.77
90.0	337.32	292.16	250.53	206.03	175.14	147.74	118.51	99.47	79.76
135.0	383.05	331.57	287.29	287.29	199.11	168.94	137.22	115.30	96.59
180.0	453.35	401.87	351.50	293.37	282.30	282.30	177.57	144.58	121.56
225.0	407.02	345.30	299.35	257.17	211.06	178.79	151.12	127.20	101.91
270.0	469.95	417.92	353.16	303.89	282.86	282.86	180.34	153.38	124.05
315.0	425.28	371.53	322.32	275.66	226.56	191.97	162.63	137.94	111.04
360.0	358.14	309.54	256.18	218.81	185.60	157.54	127.09	106.94	89.45

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	75.39	61.06	52.03	43.51	37.97	33.43	28.78	25.79	23.19
45.0	90.67	72.40	60.89	51.37	42.18	36.48	31.05	27.62	24.91
90.0	67.42	57.12	48.99	41.13	36.15	32.11	28.56	25.08	22.81
135.0	80.98	64.82	54.97	46.66	40.24	34.04	30.22	27.01	23.80
180.0	101.74	85.30	68.42	57.79	49.04	41.96	35.15	30.89	26.74
225.0	85.24	71.57	57.79	49.10	42.01	36.37	30.83	27.34	23.91
270.0	104.18	83.86	70.85	60.00	51.26	42.57	37.25	32.82	29.06
315.0	93.22	75.39	63.88	54.74	45.56	39.74	35.15	30.39	27.23
360.0	75.39	61.06	52.03	43.51	37.97	33.43	28.78	25.79	23.19

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	21.15	19.04	17.66	16.55	15.55	14.50	13.84	13.23	12.62
45.0	22.58	20.20	18.65	17.33	16.22	15.06	14.23	13.62	12.90
90.0	20.87	18.88	17.49	16.50	15.28	14.50	13.67	13.06	12.62
135.0	21.64	19.54	18.10	16.94	15.89	14.78	14.06	13.45	12.90
180.0	24.19	21.98	19.76	18.21	16.99	15.94	14.83	14.06	13.45
225.0	21.59	19.76	17.82	16.61	15.61	14.72	13.78	13.17	12.62
270.0	25.91	22.92	20.92	18.88	17.55	16.44	15.28	14.39	13.73
315.0	24.58	22.36	20.15	18.60	17.38	16.33	15.17	14.39	13.67
360.0	21.15	19.04	17.66	16.55	15.55	14.50	13.84	13.23	12.62

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.12	11.79	11.35	11.07	10.79	10.52	10.30	10.13	9.96
45.0	12.45	12.01	11.57	11.29	10.90	10.68	10.46	10.24	10.02
90.0	12.23	11.79	11.40	11.07	10.79	10.63	10.35	10.13	9.96
135.0	12.34	11.90	11.57	11.29	10.90	10.68	10.41	10.19	10.02
180.0	12.90	12.23	11.85	11.46	11.07	10.85	10.57	10.30	10.13
225.0	12.12	11.68	11.29	11.02	10.68	10.46	10.24	10.02	9.85
270.0	12.95	12.45	12.01	11.62	11.18	10.90	10.68	10.41	10.19
315.0	12.95	12.51	12.01	11.62	11.24	11.02	10.74	10.52	10.35
360.0	12.12	11.79	11.35	11.07	10.79	10.52	10.30	10.13	9.96

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.74	9.52	9.30	9.02	8.69	8.47	8.19	7.92	7.69
45.0	9.85	9.69	9.47	9.24	8.97	8.69	8.41	8.08	7.92
90.0	9.74	9.52	9.24	9.02	8.69	8.41	8.14	7.92	7.69
135.0	9.80	9.63	9.41	9.13	8.86	8.58	8.30	8.03	7.80
180.0	9.91	9.74	9.58	9.35	9.13	8.86	8.58	8.36	8.08
225.0	9.69	9.47	9.30	9.08	8.86	8.58	8.30	8.08	7.80
270.0	10.02	9.85	9.69	9.47	9.24	8.91	8.64	8.41	8.08
315.0	10.13	9.85	9.69	9.41	9.19	8.86	8.58	8.25	8.03
360.0	9.74	9.52	9.30	9.02	8.69	8.47	8.19	7.92	7.69

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.42	7.20	7.03	6.81	6.64	6.48	6.31	6.14	5.98
45.0	7.58	7.42	7.25	6.97	6.81	6.64	6.48	6.25	6.14
90.0	7.47	7.25	7.09	6.92	6.70	6.53	6.37	6.20	6.09
135.0	7.58	7.42	7.20	6.97	6.81	6.64	6.48	6.25	6.14
180.0	7.80	7.64	7.36	7.20	7.03	6.81	6.64	6.48	6.25
225.0	7.53	7.36	7.20	6.97	6.81	6.59	6.42	6.31	6.09
270.0	7.86	7.64	7.42	7.20	7.03	6.86	6.70	6.53	6.37
315.0	7.80	7.53	7.36	7.20	6.97	6.75	6.59	6.42	6.25
360.0	7.42	7.20	7.03	6.81	6.64	6.48	6.31	6.14	5.98

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.87	5.70	5.54	5.48	5.31	5.20	5.09	4.98	4.93
45.0	5.98	5.87	5.70	5.54	5.42	5.31	5.20	5.15	4.93
90.0	5.92	5.81	5.65	5.54	5.37	5.26	5.20	4.98	4.98
135.0	6.03	5.87	5.70	5.59	5.42	5.26	5.20	5.09	4.87
180.0	6.14	5.98	5.81	5.70	5.59	5.42	5.26	5.15	5.09
225.0	5.98	5.81	5.76	5.59	5.42	5.31	5.20	5.09	4.98
270.0	6.20	6.03	5.87	5.76	5.65	5.48	5.37	5.26	5.09
315.0	6.09	5.98	5.87	5.70	5.54	5.42	5.26	5.20	5.04
360.0	5.87	5.70	5.54	5.48	5.31	5.20	5.09	4.98	4.93

Intensity data(cd)

C/γ(°)	90.0
0.0	4.93
45.0	4.93
90.0	4.98
135.0	4.93
180.0	4.87
225.0	4.87
270.0	4.98
315.0	4.87
360.0	4.93