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NT

Client:
LumCAT: 2-2640-L
Luminaire: 92.70.411.00
Report No: 20231026-B016
Ballast type: AC

Test No: 20231026-C016	Voltage(V): 34.410
LampCAT: LUMILEDS LUXEON 1208	Current(A): 0.576
Lamp flux(lm): 2763.9	Power (W): 19.820
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2536.43, Efficiency(%): 91.77% , Luminous Efficacy(lm/W): 127.97
Central intensity(cd): 7187.111, Maximum intensity(cd): 7187.111
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=27.4
[C90/270]Total=27.4
Field angle(10%Imax): [C0/180]Total=63.4
[C90/270]Total=63.4
Beam angle of C0 plane : 27.49
Aveage BeamAngle(IEC 61341):27.49
Maximum s/h(1/2): C0_180=0.45 C90_270=0.45
Maximum s/h(1/4): C0_180=0.52 C90_270=0.52
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.928%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7187.111	0.000	0	0.00%	0.00%
1.0	7155.837	6.863	6.863	0.25%	0.27%
2.0	7054.263	20.396	27.259	0.74%	1.07%
3.0	6891.039	33.353	60.611	1.21%	2.39%
4.0	6693.911	45.473	106.084	1.65%	4.18%
5.0	6445.927	56.527	162.611	2.05%	6.41%
6.0	6168.813	66.294	228.905	2.40%	9.02%
7.0	5820.846	74.420	303.325	2.69%	11.96%
8.0	5479.453	80.874	384.199	2.93%	15.15%
9.0	5138.336	86.051	470.25	3.11%	18.54%
10.0	4750.654	89.492	559.742	3.24%	22.07%
11.0	4438.528	91.819	651.561	3.32%	25.69%
12.0	4107.929	93.425	744.986	3.38%	29.37%
13.0	3807.636	93.938	838.923	3.40%	33.07%
14.0	3519.520	93.787	932.71	3.39%	36.77%
15.0	3246.004	92.880	1025.591	3.36%	40.43%
16.0	2992.969	91.418	1117.009	3.31%	44.04%
17.0	2752.942	89.479	1206.488	3.24%	47.57%
18.0	2542.668	87.313	1293.801	3.16%	51.01%
19.0	2354.258	85.196	1378.998	3.08%	54.37%
20.0	2168.477	82.779	1461.776	2.99%	57.63%
21.0	2004.285	80.125	1541.902	2.90%	60.79%
22.0	1850.332	77.460	1619.362	2.80%	63.84%
23.0	1718.383	74.881	1694.243	2.71%	66.80%
24.0	1578.615	72.084	1766.328	2.61%	69.64%
25.0	1462.096	69.139	1835.467	2.50%	72.36%
26.0	1296.665	65.121	1900.588	2.36%	74.93%
27.0	1194.261	60.941	1961.529	2.20%	77.33%
28.0	1119.478	58.579	2020.108	2.12%	79.64%
29.0	1008.626	55.677	2075.785	2.01%	81.84%
30.0	900.430	51.544	2127.329	1.86%	83.87%
31.0	787.184	46.964	2174.293	1.70%	85.72%
32.0	688.315	42.271	2216.564	1.53%	87.39%
33.0	584.389	37.494	2254.058	1.36%	88.87%
34.0	492.841	32.600	2286.658	1.18%	90.15%
35.0	411.886	28.097	2314.756	1.02%	91.26%
36.0	334.938	23.779	2338.535	0.86%	92.20%
37.0	276.671	19.947	2358.482	0.72%	92.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	237.910	17.176	2375.658	0.62%	93.66%
39.0	195.218	14.784	2390.442	0.53%	94.24%
40.0	137.913	11.618	2402.061	0.42%	94.70%
41.0	109.233	8.801	2410.861	0.32%	95.05%
42.0	91.327	7.287	2418.148	0.26%	95.34%
43.0	76.319	6.210	2424.358	0.22%	95.58%
44.0	66.438	5.388	2429.746	0.19%	95.79%
45.0	58.343	4.795	2434.542	0.17%	95.98%
46.0	52.683	4.342	2438.884	0.16%	96.15%
47.0	48.026	4.005	2442.889	0.14%	96.31%
48.0	44.269	3.731	2446.62	0.13%	96.46%
49.0	41.356	3.516	2450.136	0.13%	96.60%
50.0	39.052	3.352	2453.489	0.12%	96.73%
51.0	37.253	3.228	2456.717	0.12%	96.86%
52.0	35.862	3.137	2459.855	0.11%	96.98%
53.0	34.873	3.077	2462.932	0.11%	97.10%
54.0	34.070	3.039	2465.97	0.11%	97.22%
55.0	33.475	3.015	2468.985	0.11%	97.34%
56.0	33.053	3.006	2471.992	0.11%	97.46%
57.0	32.541	2.999	2474.991	0.11%	97.58%
58.0	32.050	2.987	2477.978	0.11%	97.70%
59.0	31.482	2.970	2480.948	0.11%	97.81%
60.0	30.548	2.931	2483.878	0.11%	97.93%
61.0	29.503	2.866	2486.744	0.10%	98.04%
62.0	28.154	2.778	2489.522	0.10%	98.15%
63.0	26.736	2.670	2492.192	0.10%	98.26%
64.0	25.151	2.546	2494.738	0.09%	98.36%
65.0	23.726	2.419	2497.157	0.09%	98.45%
66.0	22.135	2.288	2499.445	0.08%	98.54%
67.0	20.875	2.163	2501.608	0.08%	98.63%
68.0	19.706	2.056	2503.663	0.07%	98.71%
69.0	18.751	1.962	2505.625	0.07%	98.79%
70.0	17.976	1.886	2507.512	0.07%	98.86%
71.0	17.312	1.824	2509.335	0.07%	98.93%
72.0	16.751	1.771	2511.107	0.06%	99.00%
73.0	16.260	1.726	2512.833	0.06%	99.07%
74.0	15.776	1.684	2514.517	0.06%	99.14%
75.0	15.333	1.644	2516.161	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.862	1.603	2517.764	0.06%	99.26%
77.0	14.440	1.562	2519.326	0.06%	99.33%
78.0	14.018	1.523	2520.849	0.06%	99.39%
79.0	13.624	1.485	2522.335	0.05%	99.44%
80.0	13.216	1.447	2523.782	0.05%	99.50%
81.0	12.835	1.409	2525.19	0.05%	99.56%
82.0	12.468	1.372	2526.562	0.05%	99.61%
83.0	12.143	1.338	2527.9	0.05%	99.66%
84.0	11.832	1.306	2529.207	0.05%	99.72%
85.0	11.514	1.274	2530.481	0.05%	99.77%
86.0	11.258	1.245	2531.725	0.05%	99.81%
87.0	10.981	1.217	2532.942	0.04%	99.86%
88.0	10.711	1.188	2534.131	0.04%	99.91%
89.0	10.462	1.161	2535.291	0.04%	99.95%
90.0	10.372	1.142	2536.433	0.04%	100.00%

Zonal flux distribution table

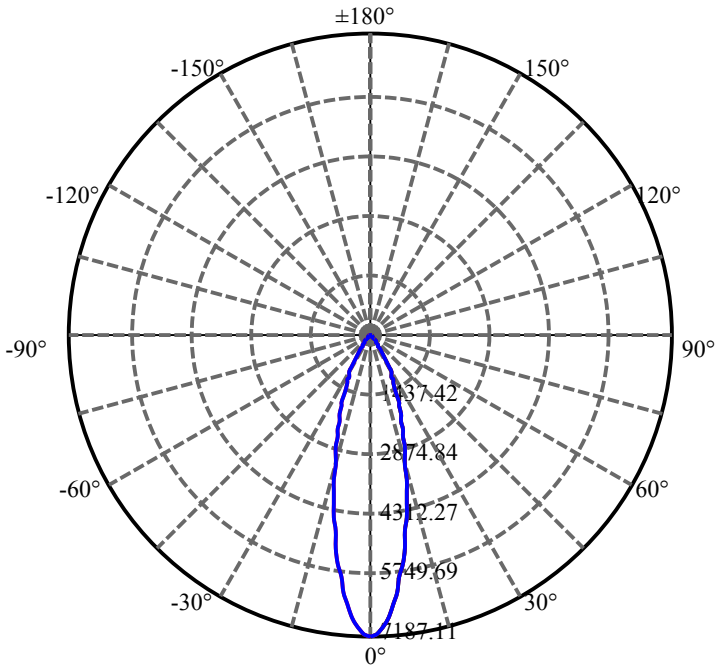
ZONAL LUMEN SUMMARY

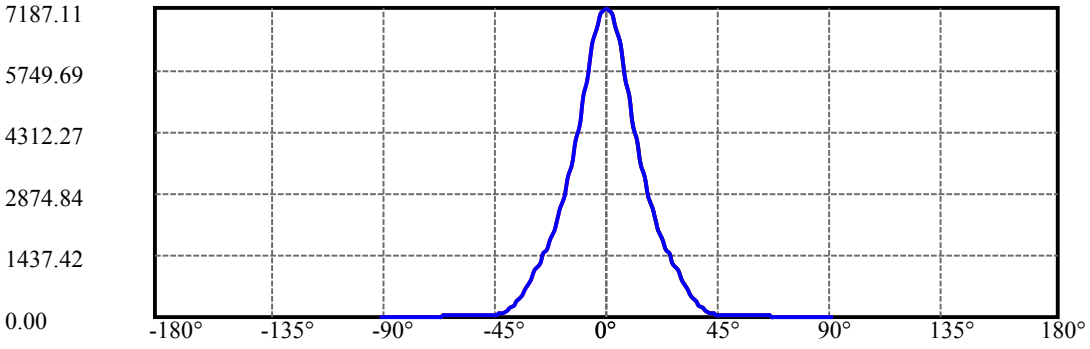
Zone	Lumens	%Lamp	%Fixt
0-30	2127.33	76.97%	83.87%
0-40	2402.06	86.91%	94.70%
0-60	2483.88	89.87%	97.93%
0-90	2535.29	91.73%	99.95%
0-120	2535.29	91.73%	99.95%
0-180	2536.43	91.77%	100.00%
60-90	51.41	1.86%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.16	2029.15	73.42%	80.00%

ZONAL LUMEN SUMMARY

0-10	559.74
10-20	902.03
20-30	665.55
30-40	274.73
40-50	51.43
50-60	30.39
60-70	23.63
70-80	16.27
80-90	11.51
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):

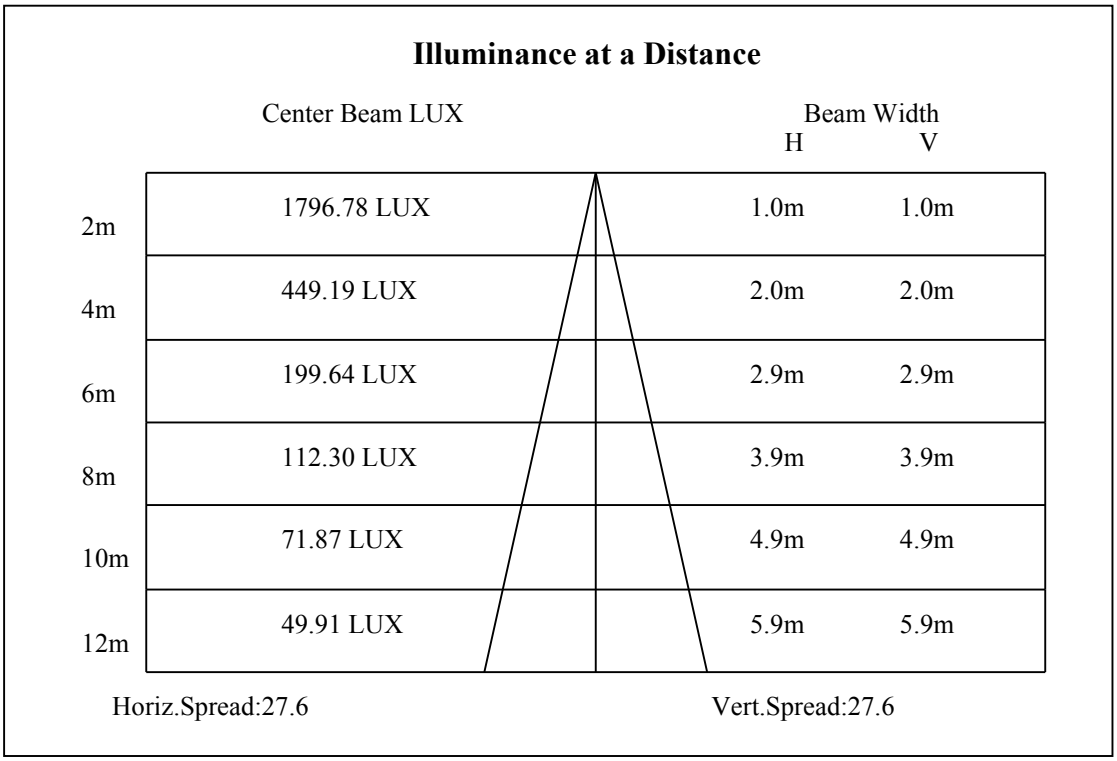
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:31.7 Right:31.7
:C90/270Left:31.7 Right:31.7

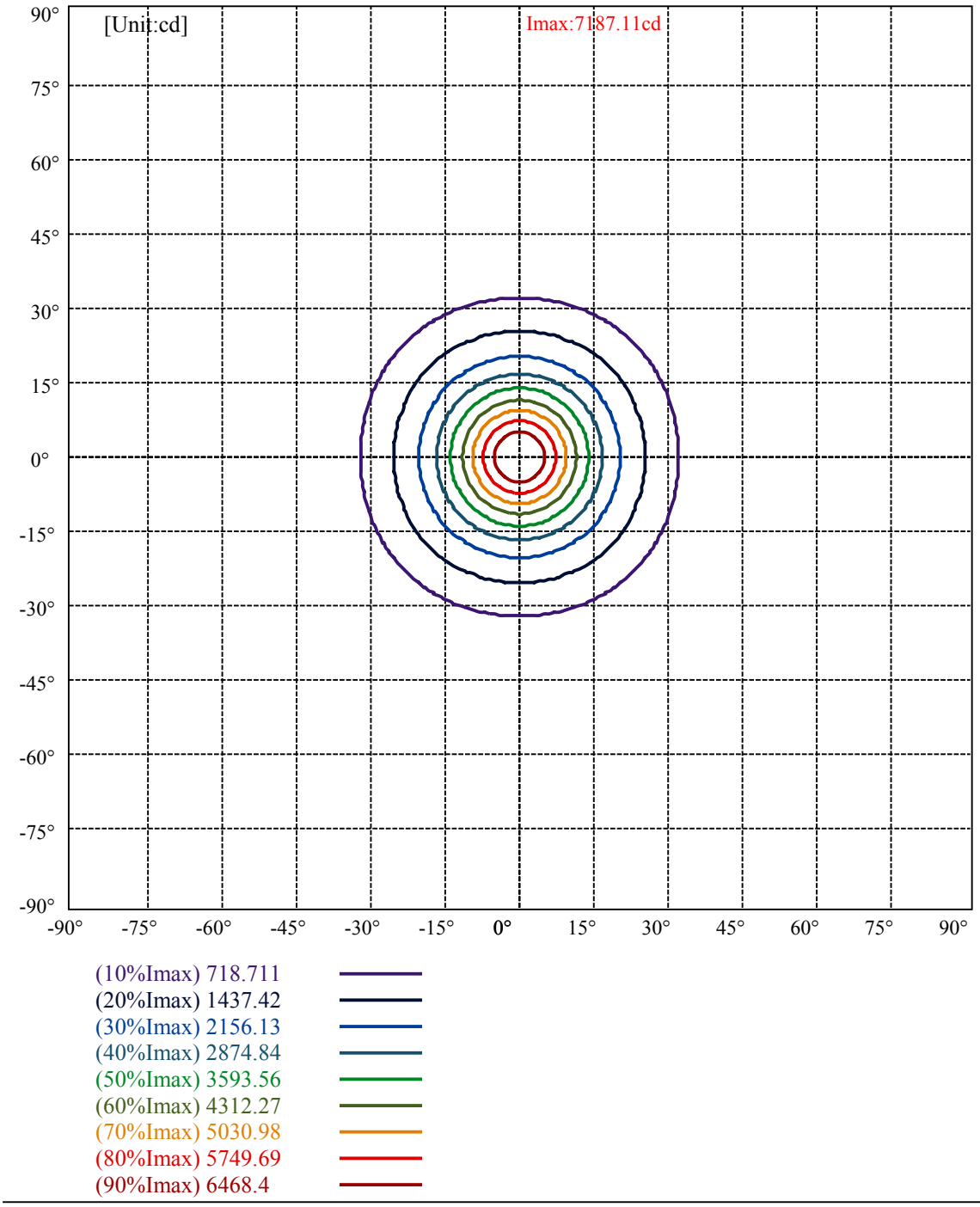
Beam Angle(50%Imax):C0/180Left:13.7 Right:13.7
:C90/270Left:13.7 Right:13.7

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/26 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

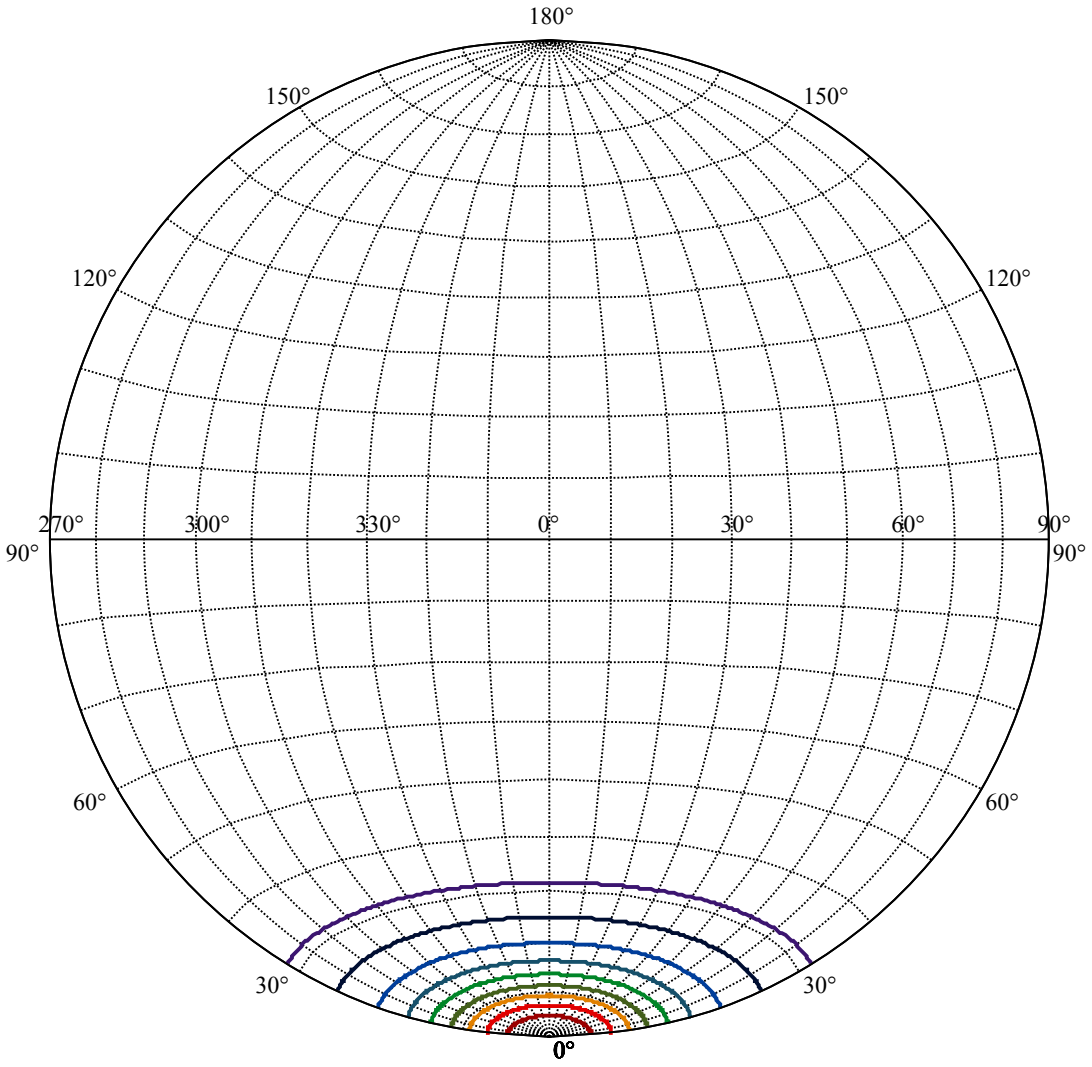


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/26
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



[Unit:cd]

Imax:7187.11

(10%Imax) 718.711
(20%Imax) 1437.42
(30%Imax) 2156.13
(40%Imax) 2874.84
(50%Imax) 3593.56
(60%Imax) 4312.27
(70%Imax) 5030.98
(80%Imax) 5749.69
(90%Imax) 6468.4

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/26
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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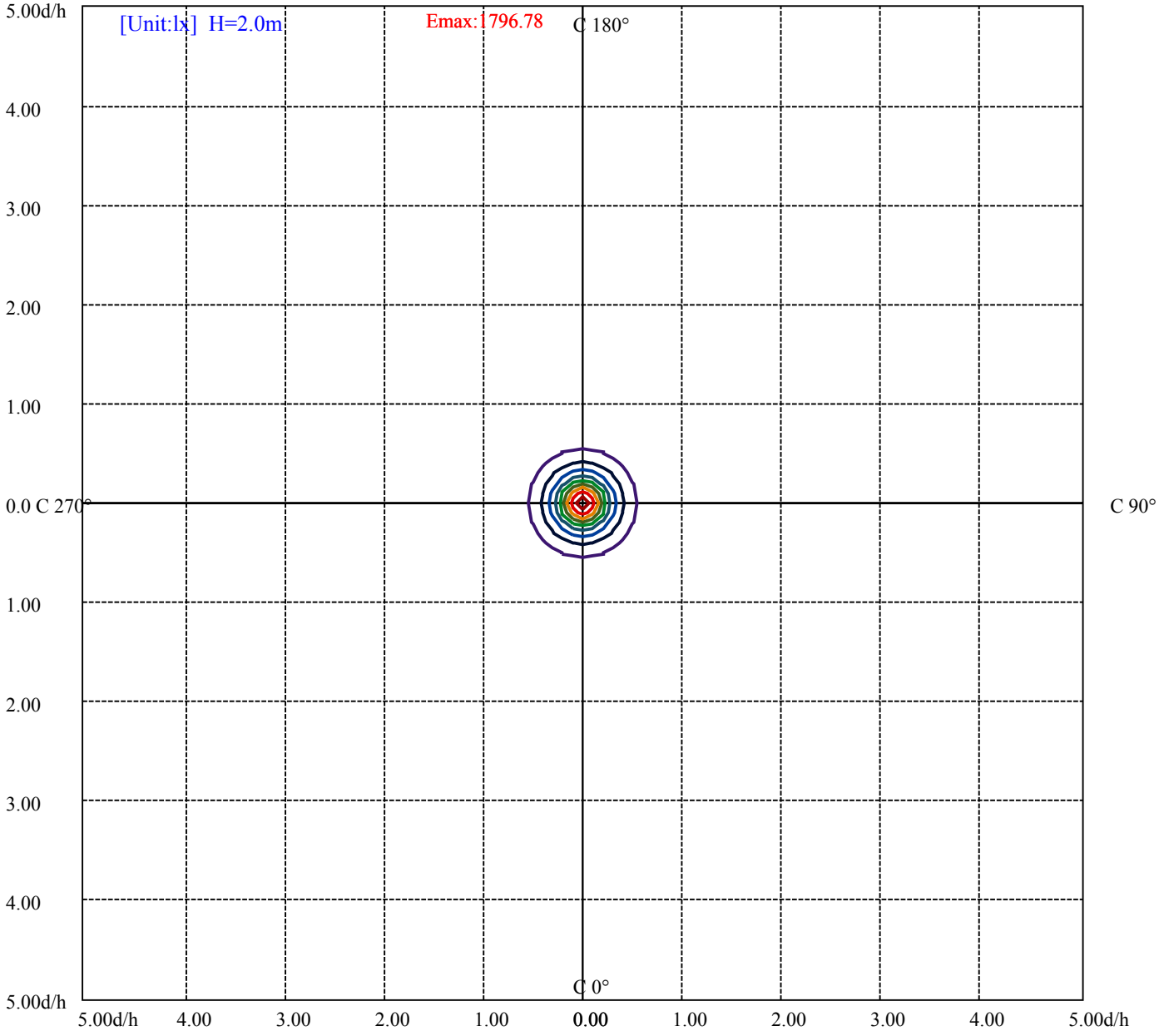
ISO illuminance diagram



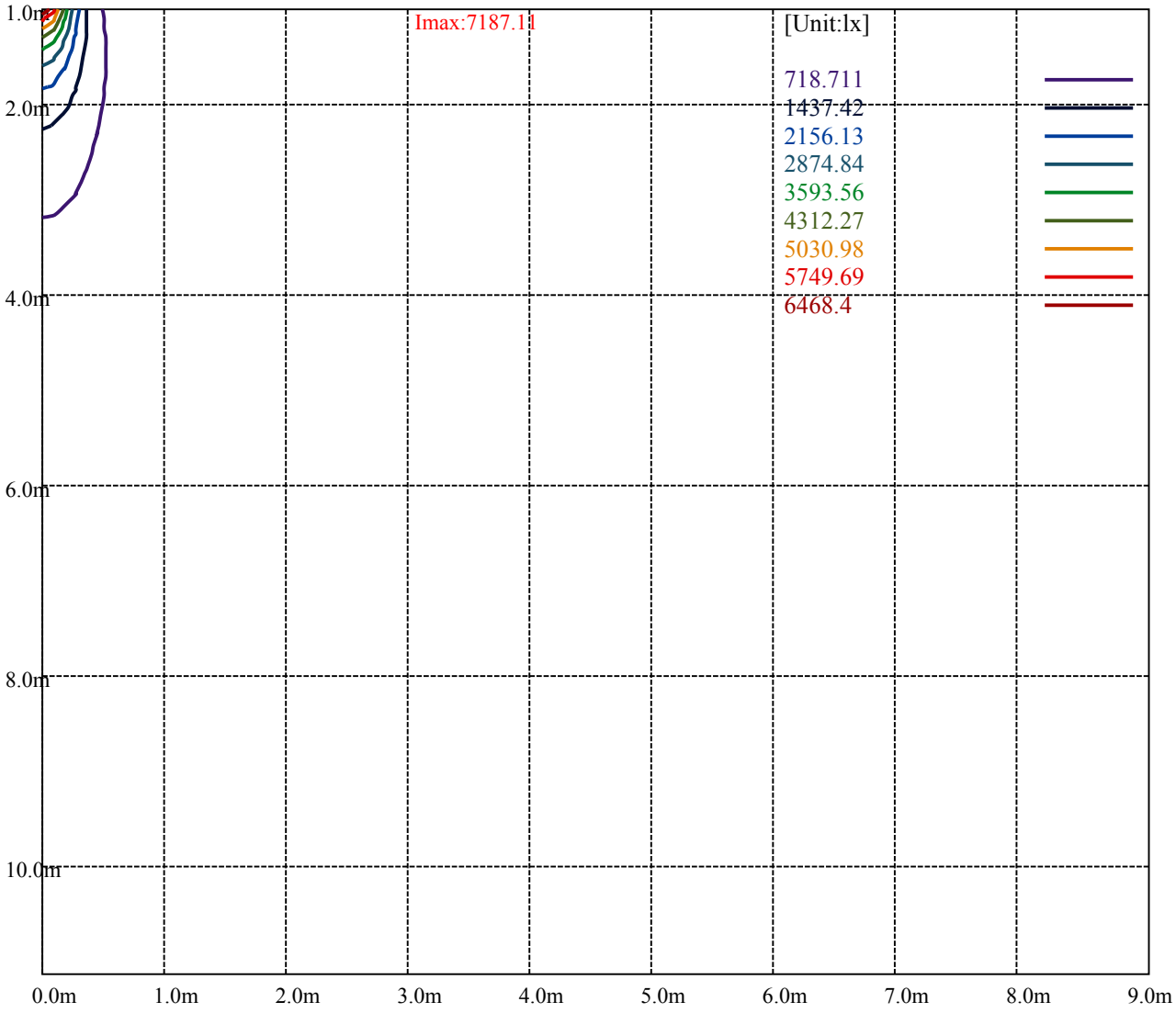
(10%Emax) 179.6777
(20%Emax) 359.355
(30%Emax) 539.0325
(40%Emax) 718.71
(50%Emax) 898.3875
(60%Emax) 1078.065
(70%Emax) 1257.743
(80%Emax) 1437.422
(90%Emax) 1617.1

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/26
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/26
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2640-L

Luminance Limitting Curve(no luminous side)

Luminance Table

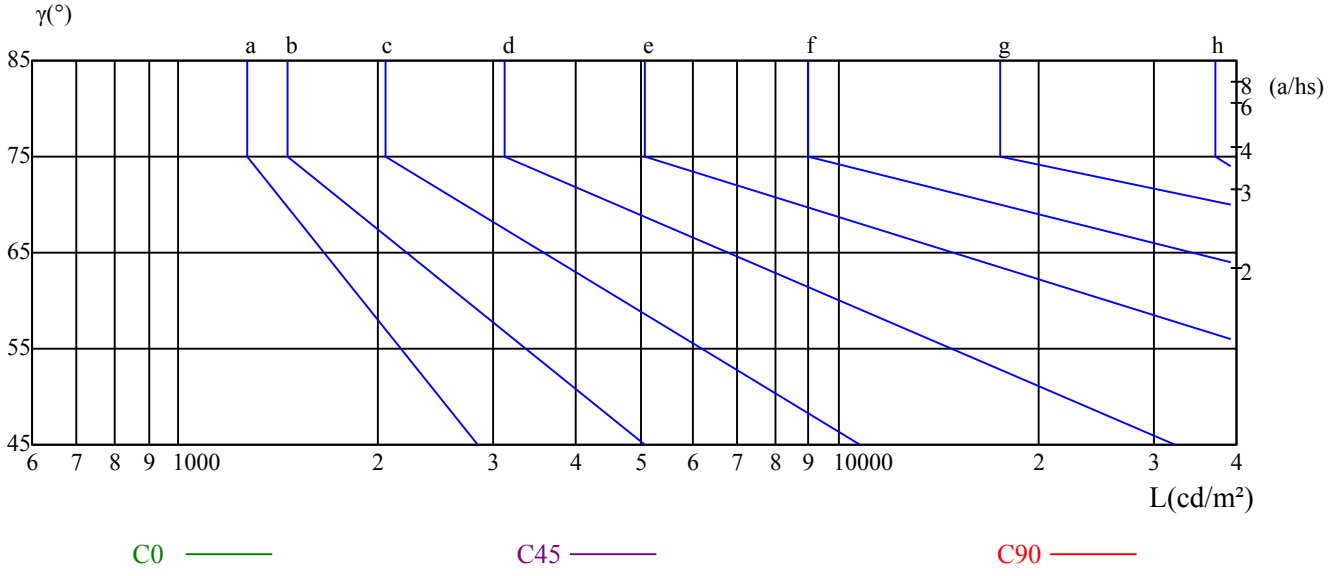
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 0.0

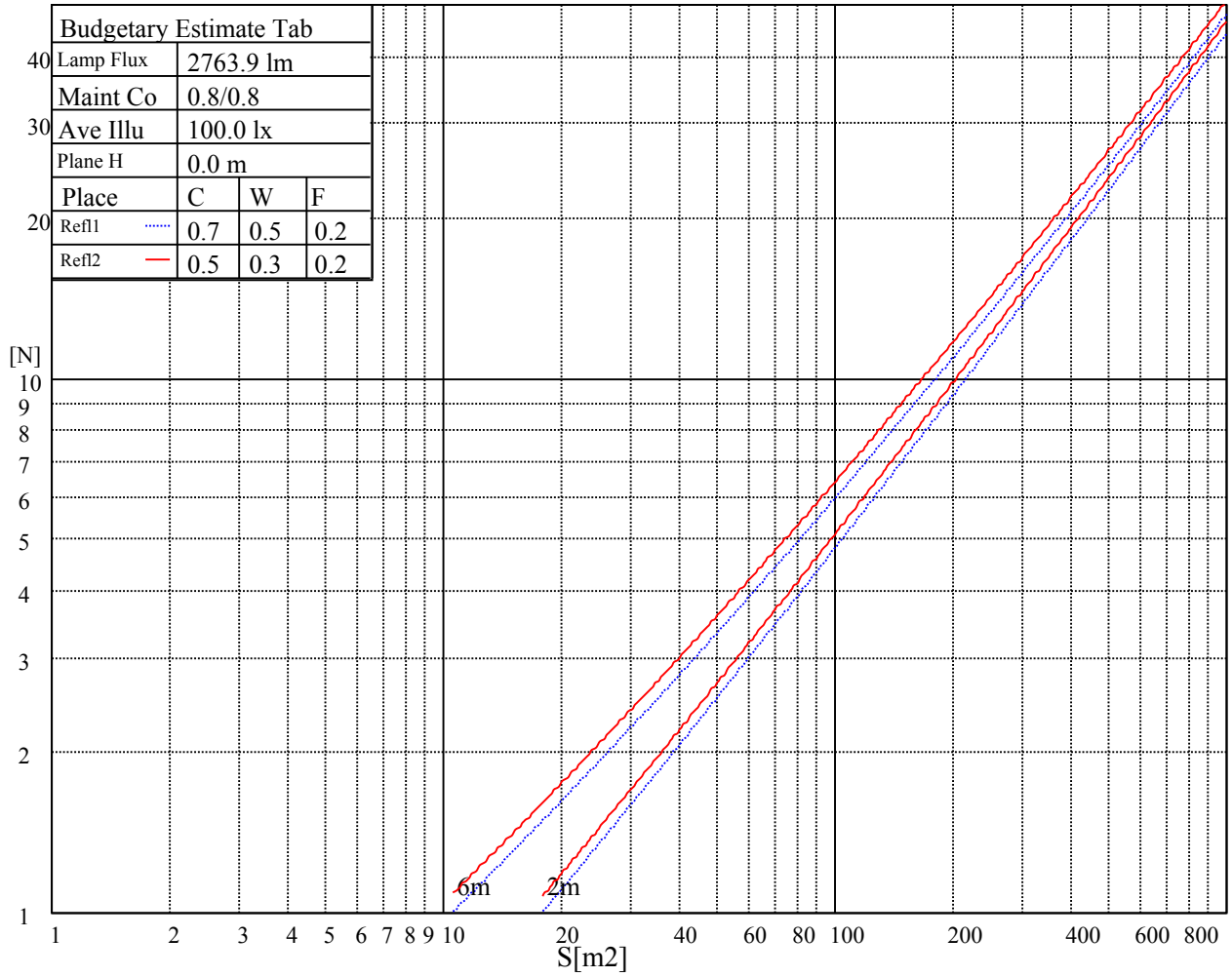
Date: 2023/10/26
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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

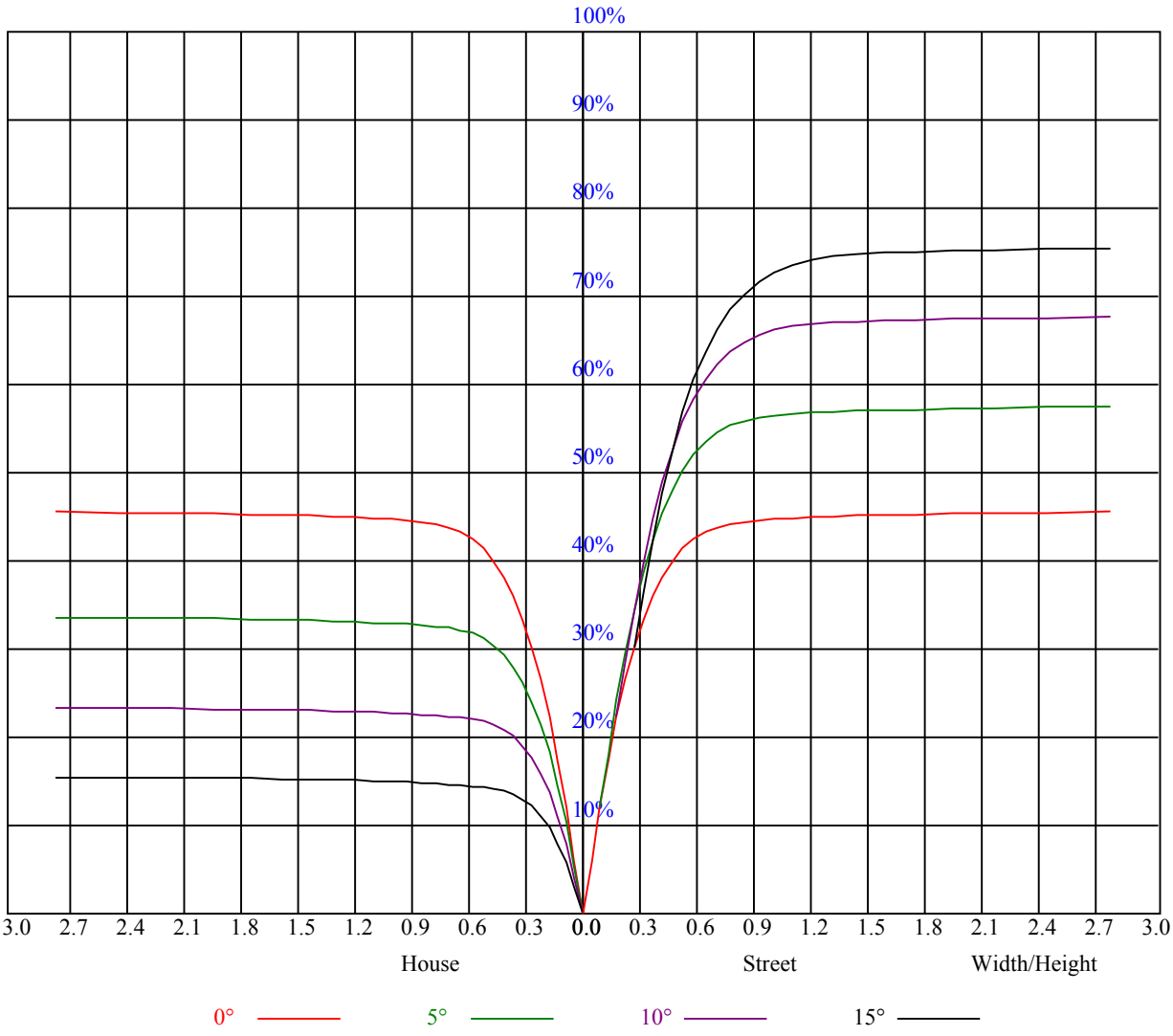


Equipment: GMS1980 Date: 2023/10/26 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.09	1.09	1.09	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	1.02	1.00	0.98	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.83	0.89	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.78	0.85	0.81	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
5	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.74	0.71	0.70
6	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.71	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/26	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	7116.81	7023.82	6862.19	6661.81	6368.99	6083.36	5804.38	5420.22	5098.62
45.0	7192.09	7176.04	7136.19	6985.62	6774.17	6507.92	6245.55	5954.94	5570.79
90.0	7220.32	7116.81	6980.64	6758.12	6522.87	6259.94	5973.76	5577.43	5232.58
135.0	7219.22	7219.77	7095.78	6930.82	6763.10	6517.89	6249.97	5885.19	5575.21
180.0	7116.81	7175.49	7161.10	7052.60	6921.41	6727.12	6491.32	6142.59	5844.23
225.0	7192.09	7137.29	7003.34	6857.20	6661.81	6406.63	6052.92	5729.10	5390.89
270.0	7220.32	7212.57	7153.90	7009.43	6848.90	6659.59	6417.14	6054.58	5728.54
315.0	7219.22	7184.90	7040.98	6872.70	6690.04	6404.97	6115.47	5802.72	5394.76
360.0	7116.81	7023.82	6862.19	6661.81	6368.99	6083.36	5804.38	5420.22	5098.62

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4775.36	4366.29	4080.11	3800.02	3468.46	3219.92	2977.47	2760.48	2515.82
45.0	5255.82	4915.95	4572.76	4200.23	3912.95	3638.95	3378.23	3065.48	2846.84
90.0	4892.15	4495.82	4204.11	3902.43	3627.87	3304.61	3063.82	2838.53	2587.78
135.0	5234.79	4794.18	4490.84	4128.83	3843.20	3568.65	3300.74	2999.06	2782.07
180.0	5516.54	5096.41	4763.73	4457.63	4086.20	3797.26	3522.70	3270.29	2981.90
225.0	4961.34	4648.04	4355.77	3981.58	3705.37	3434.69	3126.37	2893.33	2687.97
270.0	5409.15	5063.75	4726.09	4356.33	4057.42	3759.62	3419.75	3172.31	2891.12
315.0	5061.53	4624.79	4314.81	4036.38	3759.62	3432.48	3178.96	2944.26	2730.04
360.0	4775.36	4366.29	4080.11	3800.02	3468.46	3219.92	2977.47	2760.48	2515.82

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2338.69	2169.86	2012.66	1840.51	1711.53	1594.74	1453.03	1339.56	1091.35
45.0	2640.37	2411.20	2242.37	2084.62	1902.50	1771.87	1650.09	1502.30	1387.71
90.0	2409.54	2236.29	2037.57	1899.18	1764.67	1614.66	1497.31	1389.38	1093.51
135.0	2589.44	2412.31	2198.09	2043.65	1901.40	1770.21	1620.20	1508.39	1394.36
180.0	2762.70	2563.43	2375.22	2157.68	2002.69	1859.88	1694.93	1578.68	1441.41
225.0	2440.54	2262.86	2099.56	1947.89	1780.17	1659.50	1540.49	1433.10	1231.06
270.0	2675.79	2474.86	2250.68	2084.06	1934.05	1798.44	1642.34	1527.21	1420.37
315.0	2484.27	2303.26	2131.67	1976.68	1805.63	1677.77	1530.53	1418.16	1313.54
360.0	2338.69	2169.86	2012.66	1840.51	1711.53	1594.74	1453.03	1339.56	1091.35

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1091.35	986.12	885.49	759.12	661.81	568.26	485.51	393.18	326.20
45.0	1277.01	1168.51	1040.09	936.03	834.73	735.10	612.76	526.41	448.36
90.0	1093.51	1043.86	940.85	836.78	709.02	609.06	500.29	423.12	351.38
135.0	1258.74	1151.91	1022.38	918.87	813.70	713.51	592.84	505.38	426.22
180.0	1334.02	1230.51	1131.43	1006.33	906.14	802.07	694.69	579.55	492.65
225.0	1099.10	1099.10	972.56	869.99	743.23	647.69	554.14	471.78	379.01
270.0	1317.42	1192.87	1093.23	995.26	871.82	772.18	668.12	557.96	476.59
315.0	1082.94	1082.94	982.97	881.06	757.02	658.65	566.77	485.34	394.67
360.0	1091.35	986.12	885.49	759.12	661.81	568.26	485.51	393.18	326.20

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	267.86	219.03	168.72	137.66	113.42	91.39	78.49	66.70	59.45
45.0	359.24	295.59	281.20	217.21	147.68	115.36	96.54	82.20	71.35
90.0	274.44	221.80	178.57	136.72	111.98	93.38	79.65	67.20	59.78
135.0	337.66	288.95	288.95	173.70	132.85	108.94	91.06	75.11	65.98
180.0	417.37	344.85	283.96	283.96	171.93	131.63	107.72	86.35	74.12
225.0	312.75	254.57	205.31	156.76	126.98	103.95	87.29	72.13	63.21
270.0	381.39	317.18	286.73	286.73	162.19	123.11	101.02	84.97	73.12
315.0	328.80	271.40	209.85	168.99	136.28	106.11	88.84	75.89	64.49
360.0	267.86	219.03	168.72	137.66	113.42	91.39	78.49	66.70	59.45

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	53.80	48.27	44.95	42.18	40.02	37.97	36.70	35.70	34.93
45.0	61.28	55.24	50.32	46.39	42.51	40.13	38.30	36.53	35.48
90.0	54.14	49.32	44.78	42.01	39.63	37.42	36.09	34.82	34.04
135.0	57.40	52.25	47.83	44.39	40.96	38.80	37.03	35.70	34.43
180.0	65.10	58.01	51.42	47.16	43.78	41.07	38.30	36.70	35.43
225.0	55.13	50.15	46.11	42.23	39.85	37.92	36.04	34.87	34.04
270.0	62.27	55.85	50.76	45.83	42.79	39.80	37.92	36.48	35.37
315.0	57.62	52.36	48.05	43.95	41.29	39.30	37.64	36.09	35.26
360.0	53.80	48.27	44.95	42.18	40.02	37.97	36.70	35.70	34.93

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.15	33.71	33.27	32.44	31.83	30.94	29.39	28.23	26.79
45.0	34.65	33.88	33.38	32.94	32.11	31.61	30.89	29.72	28.17
90.0	33.38	32.88	32.38	31.88	31.33	30.72	29.34	28.29	27.07
135.0	33.65	33.05	32.66	32.05	31.61	31.05	30.28	29.23	27.90
180.0	34.21	33.54	32.94	32.49	32.16	31.72	31.16	30.39	29.28
225.0	33.54	32.99	32.77	32.33	31.99	31.33	30.44	29.34	27.84
270.0	34.37	33.88	33.43	33.16	32.71	32.33	31.83	31.00	29.50
315.0	34.60	33.88	33.60	33.05	32.66	32.16	31.05	29.84	28.67
360.0	34.15	33.71	33.27	32.44	31.83	30.94	29.39	28.23	26.79

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.02	23.53	22.14	20.92	19.54	18.65	17.93	17.33	16.66
45.0	26.96	25.52	24.08	22.31	21.09	19.98	18.82	18.10	17.38
90.0	25.63	23.97	22.53	20.98	19.93	18.88	18.10	17.38	16.83
135.0	26.51	25.24	23.86	22.09	20.92	19.82	18.82	17.93	17.33
180.0	27.79	26.35	25.02	23.58	21.86	20.70	19.60	18.71	17.82
225.0	26.46	24.63	23.19	21.75	20.65	19.21	18.43	17.82	17.27
270.0	28.29	26.51	25.08	23.08	21.81	20.59	19.48	18.43	17.82
315.0	27.23	25.46	23.91	22.36	21.20	19.82	18.82	18.10	17.38
360.0	25.02	23.53	22.14	20.92	19.54	18.65	17.93	17.33	16.66

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.16	15.78	15.22	14.89	14.34	13.95	13.56	13.23	12.79
45.0	16.83	16.38	15.89	15.39	15.00	14.61	14.23	13.73	13.40
90.0	16.22	15.83	15.44	15.00	14.61	14.12	13.73	13.34	12.90
135.0	16.83	16.27	15.89	15.44	14.95	14.56	14.17	13.73	13.34
180.0	17.27	16.61	16.16	15.67	15.11	14.78	14.34	14.00	13.45
225.0	16.61	16.16	15.67	15.28	14.78	14.28	13.84	13.45	13.12
270.0	17.27	16.72	16.16	15.67	15.22	14.83	14.34	13.89	13.45
315.0	16.83	16.33	15.78	15.33	14.89	14.39	13.95	13.62	13.28
360.0	16.16	15.78	15.22	14.89	14.34	13.95	13.56	13.23	12.79

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.45	12.07	11.85	11.51	11.24	10.96	10.74	10.52	10.35
45.0	13.01	12.57	12.23	11.85	11.51	11.29	11.02	10.68	10.41
90.0	12.57	12.23	11.96	11.68	11.40	11.13	10.85	10.57	10.35
135.0	13.01	12.57	12.18	11.90	11.57	11.35	10.96	10.74	10.46
180.0	13.12	12.73	12.40	12.12	11.73	11.46	11.18	10.90	10.68
225.0	12.68	12.40	12.07	11.73	11.46	11.18	10.90	10.68	10.41
270.0	13.06	12.73	12.29	12.01	11.68	11.40	11.18	10.85	10.57
315.0	12.79	12.45	12.18	11.85	11.51	11.29	11.02	10.74	10.46
360.0	12.45	12.07	11.85	11.51	11.24	10.96	10.74	10.52	10.35

Intensity data(cd)

C/γ(°)	90.0
0.0	10.35
45.0	10.35
90.0	10.35
135.0	10.35
180.0	10.41
225.0	10.35
270.0	10.41
315.0	10.41
360.0	10.35