NATA LIGHTING CO.,LTD.
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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 4-2275-M
Luminaire: 92.70.135.00

Report No: NATA0100	Voltage(V): 35.0000
Test No: GC2018101609	Current(A): 0.7000
LampCAT: LUMILEDS LUXEON 1208	Power (W): 24.5000
Lamp flux(lm): 3628.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3199.78
Efficiency(%): 88.20%
Lumens(lm)/Power(W): 130.75
Central intensity(cd): 15321.090
Maximum intensity(cd): 15321.090
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.6
[C90/270]Total=20.6
Field angle(10%Imax): [C0/180]Total=41.3
[C90/270]Total=41.3
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
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(%): 88.29%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.573%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15321.094	3.665	3.665	.101%	.115%
1.0	15259.219	29.204	32.869	.805%	1.027%
2.0	15006.797	57.433	90.302	1.583%	2.822%
3.0	14602.500	83.807	174.109	2.310%	5.441%
4.0	14075.859	107.674	281.783	2.968%	8.806%
5.0	13307.344	127.186	408.969	3.506%	12.781%
6.0	12208.992	139.948	548.917	3.857%	17.155%
7.0	11407.078	152.448	701.364	4.202%	21.919%
8.0	10346.555	157.908	859.272	4.352%	26.854%
9.0	9182.461	157.523	1016.794	4.342%	31.777%
10.0	8032.570	152.960	1169.754	4.216%	36.557%
11.0	6858.000	143.499	1313.253	3.955%	41.042%
12.0	5851.688	133.417	1446.67	3.677%	45.212%
13.0	4874.414	120.244	1566.913	3.314%	48.969%
14.0	4039.523	107.166	1674.079	2.954%	52.319%
15.0	3420.211	97.074	1771.153	2.676%	55.352%
16.0	2916.773	88.164	1859.317	2.430%	58.108%
17.0	2499.469	80.137	1939.455	2.209%	60.612%
18.0	2096.367	71.040	2010.494	1.958%	62.832%
19.0	1854.914	66.224	2076.719	1.825%	64.902%
20.0	1635.469	61.340	2138.059	1.691%	66.819%
21.0	1476.422	58.022	2196.081	1.599%	68.632%
22.0	1374.680	56.471	2252.552	1.557%	70.397%
23.0	1303.734	55.862	2308.414	1.540%	72.143%
24.0	1250.578	55.780	2364.194	1.537%	73.886%
25.0	1219.852	56.534	2420.728	1.558%	75.653%
26.0	1194.539	57.424	2478.152	1.583%	77.448%
27.0	1172.813	58.388	2536.54	1.609%	79.272%
28.0	1151.332	59.274	2595.814	1.634%	81.125%
29.0	1128.579	60.001	2655.814	1.654%	83.000%
30.0	1113.525	61.055	2716.869	1.683%	84.908%
31.0	1097.487	61.986	2778.855	1.709%	86.845%
32.0	1078.158	62.653	2841.508	1.727%	88.803%
33.0	1033.003	61.697	2903.205	1.701%	90.731%
34.0	945.612	57.986	2961.191	1.598%	92.544%
35.0	795.860	50.059	3011.25	1.380%	94.108%
36.0	636.757	41.043	3052.294	1.131%	95.391%
37.0	489.080	32.277	3084.571	.890%	96.399%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	341.255	23.039	3107.61	.635%	97.119%
39.0	200.658	13.848	3121.458	.382%	97.552%
40.0	86.653	6.108	3127.566	.168%	97.743%
41.0	42.223	3.038	3130.604	.084%	97.838%
42.0	29.060	2.132	3132.736	.059%	97.905%
43.0	22.662	1.695	3134.431	.047%	97.958%
44.0	19.013	1.448	3135.879	.040%	98.003%
45.0	17.677	1.371	3137.25	.038%	98.046%
46.0	17.255	1.361	3138.611	.038%	98.088%
47.0	16.840	1.351	3139.962	.037%	98.131%
48.0	16.530	1.347	3141.309	.037%	98.173%
49.0	16.270	1.347	3142.655	.037%	98.215%
50.0	16.024	1.346	3144.001	.037%	98.257%
51.0	15.813	1.348	3145.349	.037%	98.299%
52.0	15.630	1.351	3146.7	.037%	98.341%
53.0	15.462	1.354	3148.054	.037%	98.383%
54.0	15.265	1.354	3149.408	.037%	98.426%
55.0	15.124	1.359	3150.767	.037%	98.468%
56.0	14.984	1.362	3152.129	.038%	98.511%
57.0	14.850	1.366	3153.495	.038%	98.553%
58.0	14.716	1.369	3154.863	.038%	98.596%
59.0	14.632	1.375	3156.239	.038%	98.639%
60.0	14.513	1.378	3157.617	.038%	98.682%
61.0	14.421	1.383	3159	.038%	98.726%
62.0	14.323	1.387	3160.387	.038%	98.769%
63.0	14.231	1.391	3161.777	.038%	98.812%
64.0	14.140	1.394	3163.171	.038%	98.856%
65.0	14.077	1.399	3164.57	.039%	98.900%
66.0	14.013	1.404	3165.974	.039%	98.943%
67.0	13.943	1.407	3167.381	.039%	98.987%
68.0	13.887	1.412	3168.793	.039%	99.032%
69.0	13.816	1.414	3170.208	.039%	99.076%
70.0	13.760	1.418	3171.626	.039%	99.120%
71.0	13.718	1.422	3173.048	.039%	99.165%
72.0	13.662	1.425	3174.473	.039%	99.209%
73.0	13.627	1.429	3175.902	.039%	99.254%
74.0	13.591	1.433	3177.335	.039%	99.299%
75.0	13.535	1.434	3178.768	.040%	99.343%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.500	1.436	3180.205	.040%	99.388%
77.0	13.479	1.440	3181.645	.040%	99.433%
78.0	13.451	1.443	3183.088	.040%	99.478%
79.0	13.423	1.445	3184.533	.040%	99.523%
80.0	13.402	1.447	3185.98	.040%	99.569%
81.0	13.380	1.449	3187.429	.040%	99.614%
82.0	13.366	1.452	3188.881	.040%	99.659%
83.0	13.345	1.453	3190.333	.040%	99.705%
84.0	13.338	1.455	3191.788	.040%	99.750%
85.0	13.324	1.456	3193.243	.040%	99.796%
86.0	13.289	1.454	3194.697	.040%	99.841%
87.0	13.282	1.455	3196.152	.040%	99.887%
88.0	13.247	1.452	3197.604	.040%	99.932%
89.0	13.240	1.452	3199.055	.040%	99.977%
90.0	13.233	0.726	3199.781	.020%	100.000%

Zonal flux distribution table

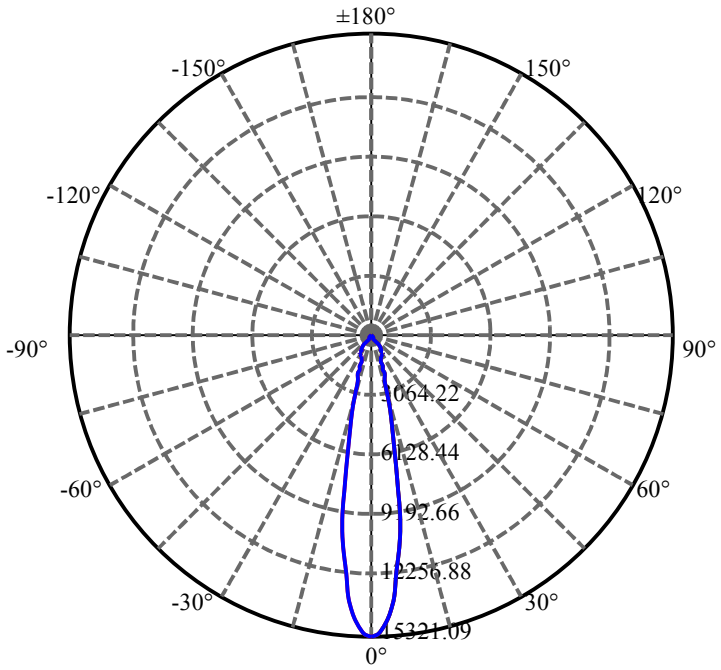
ZONAL LUMEN SUMMARY

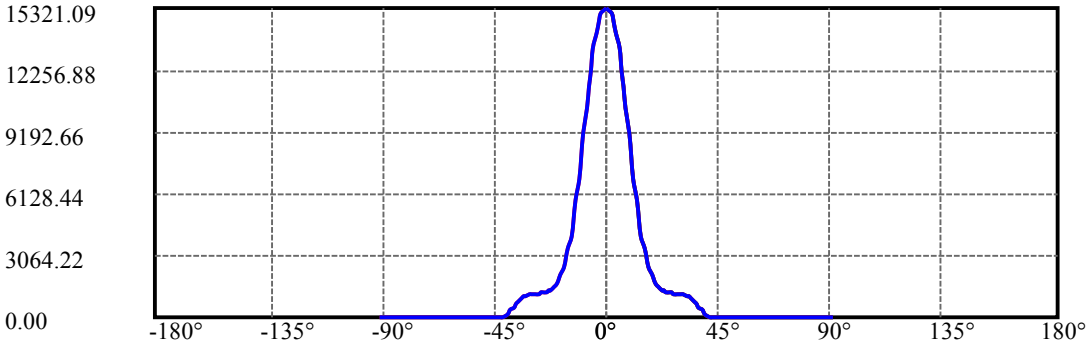
Zone	Lumens	%Lamp	%Fixt
0-30	2716.87	74.89%	84.91%
0-40	3127.57	86.21%	97.74%
0-60	3157.62	87.03%	98.68%
0-90	3199.06	88.18%	99.98%
0-120	3199.06	88.18%	99.98%
0-180	3199.78	88.20%	100.00%
60-90	42.82	1.18%	1.34%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.39	2559.83	70.56%	80.00%

ZONAL LUMEN SUMMARY

0-10	1169.75
10-20	968.30
20-30	578.81
30-40	410.70
40-50	16.44
50-60	13.62
60-70	14.01
70-80	14.35
80-90	13.08
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):

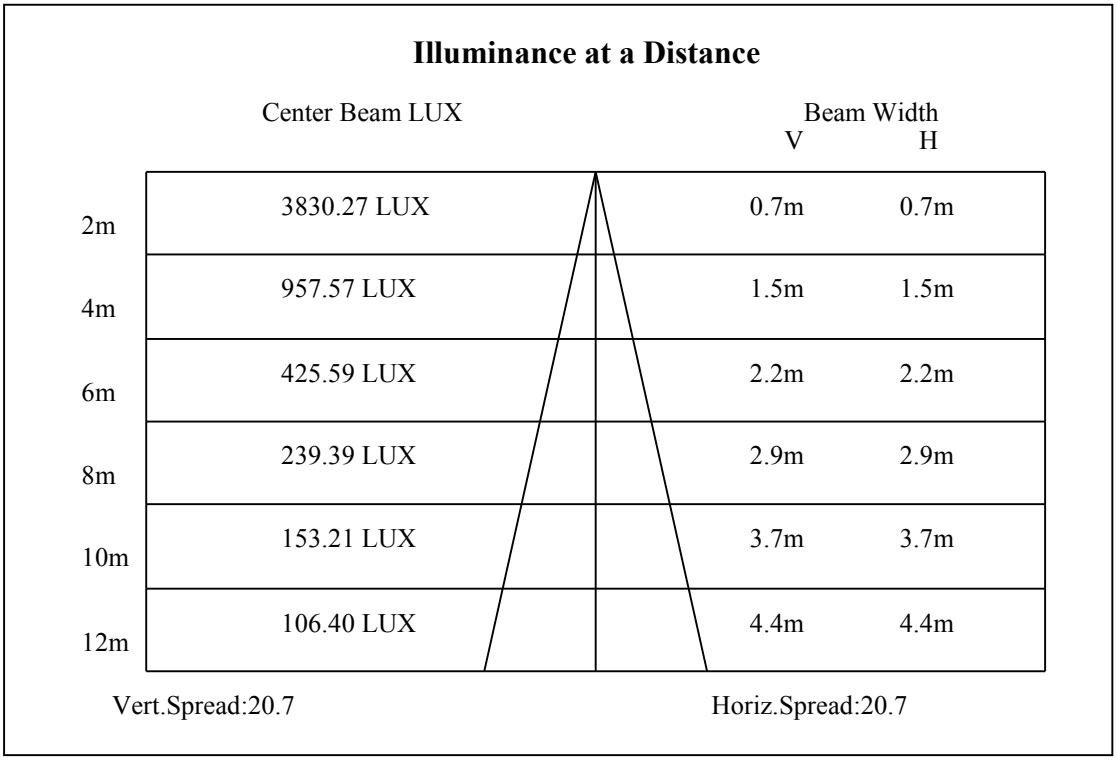
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:20.6 Right:20.6
:C90/270Left:20.6 Right:20.6

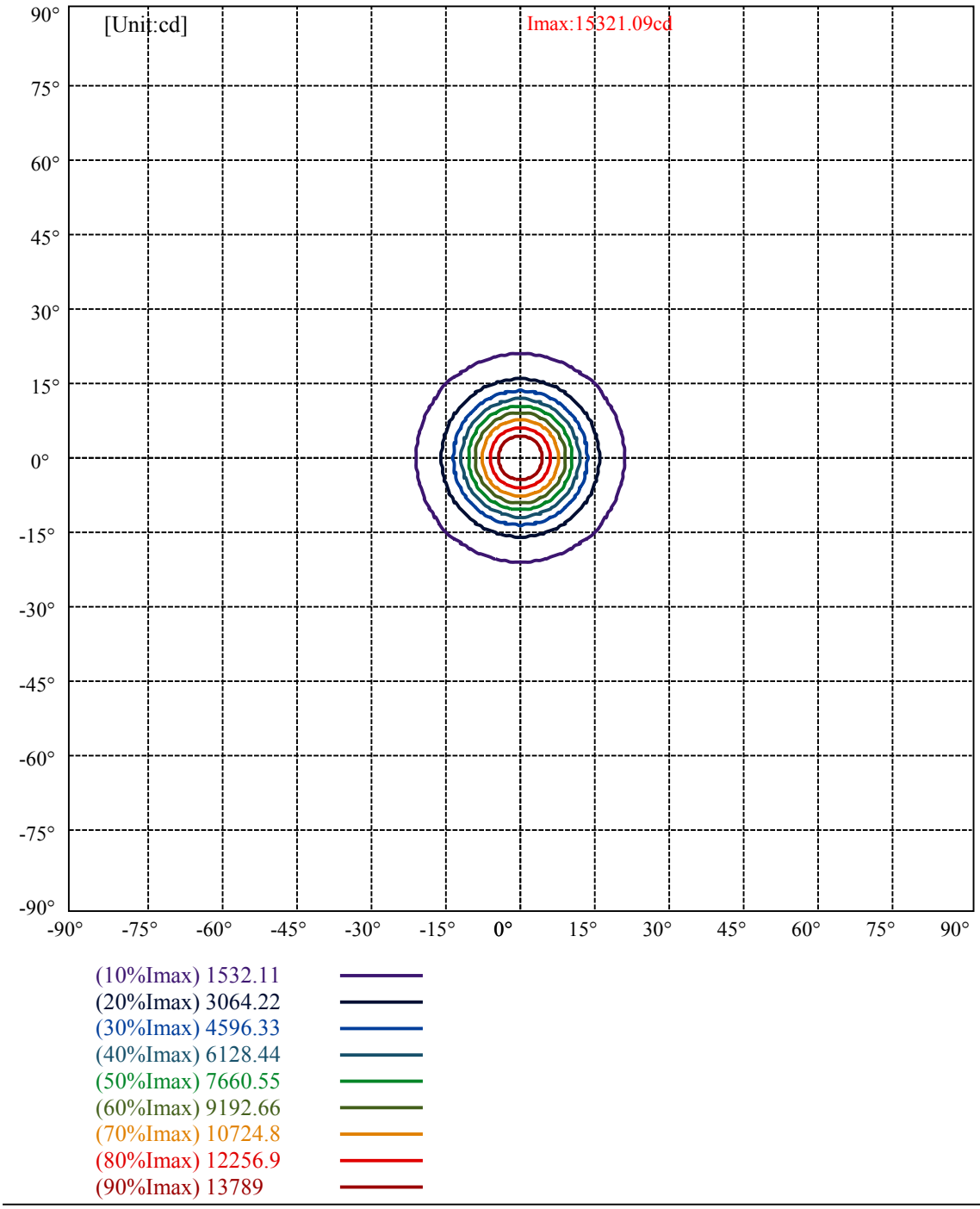
Beam Angle(50%Imax):C0/180Left:10.3 Right:10.3
:C90/270Left:10.3 Right:10.3

Lux distance Curve



Equipment:
Date: 2018/10/16
Operator: NT07
Temperature(°C): 25.0
Humidity(%): 60.0%
Distance(m): 7.50

ISO-Intensity(V-H)

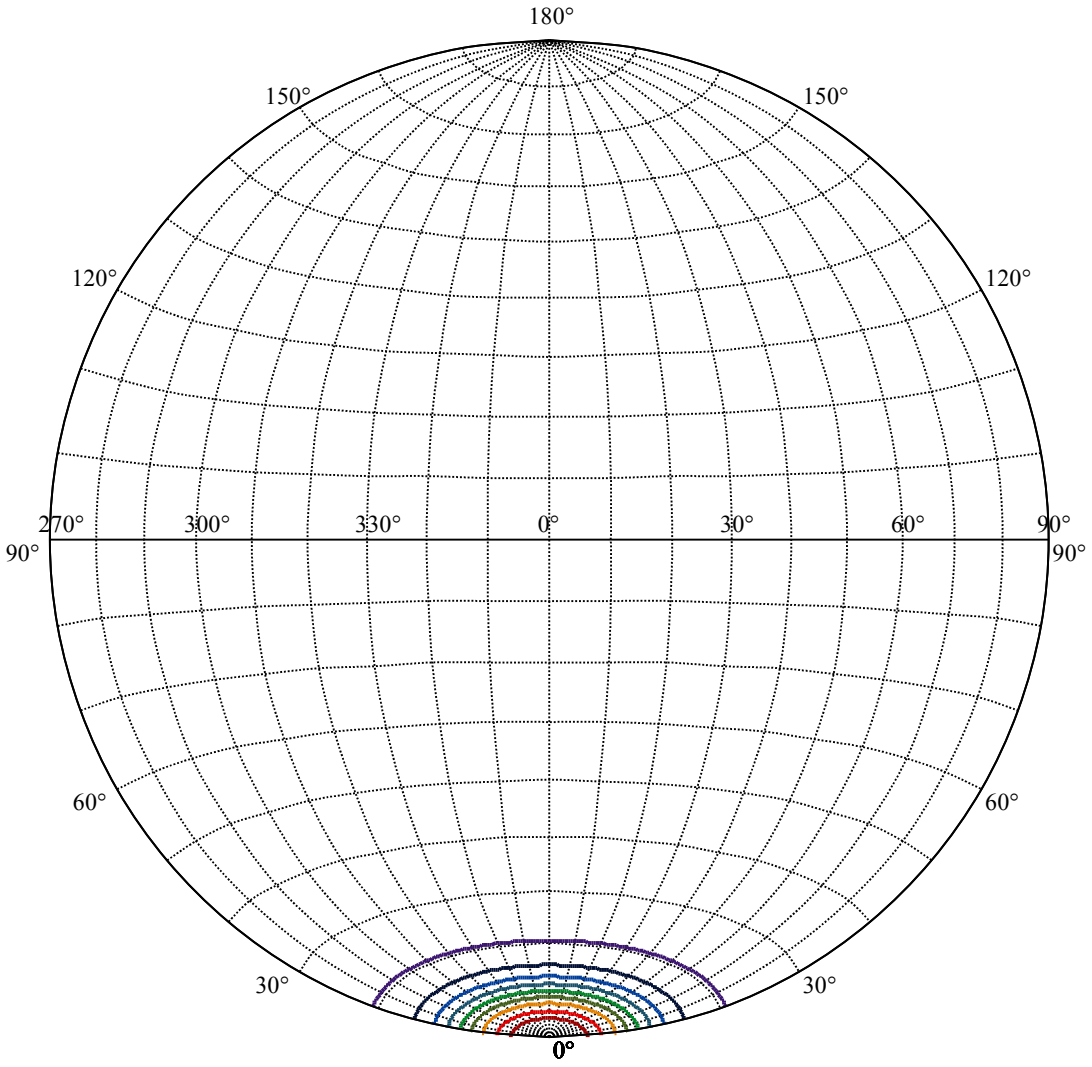


Equipment:
Temperature(°C): 25.0

Date: 2018/10/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:15321.09

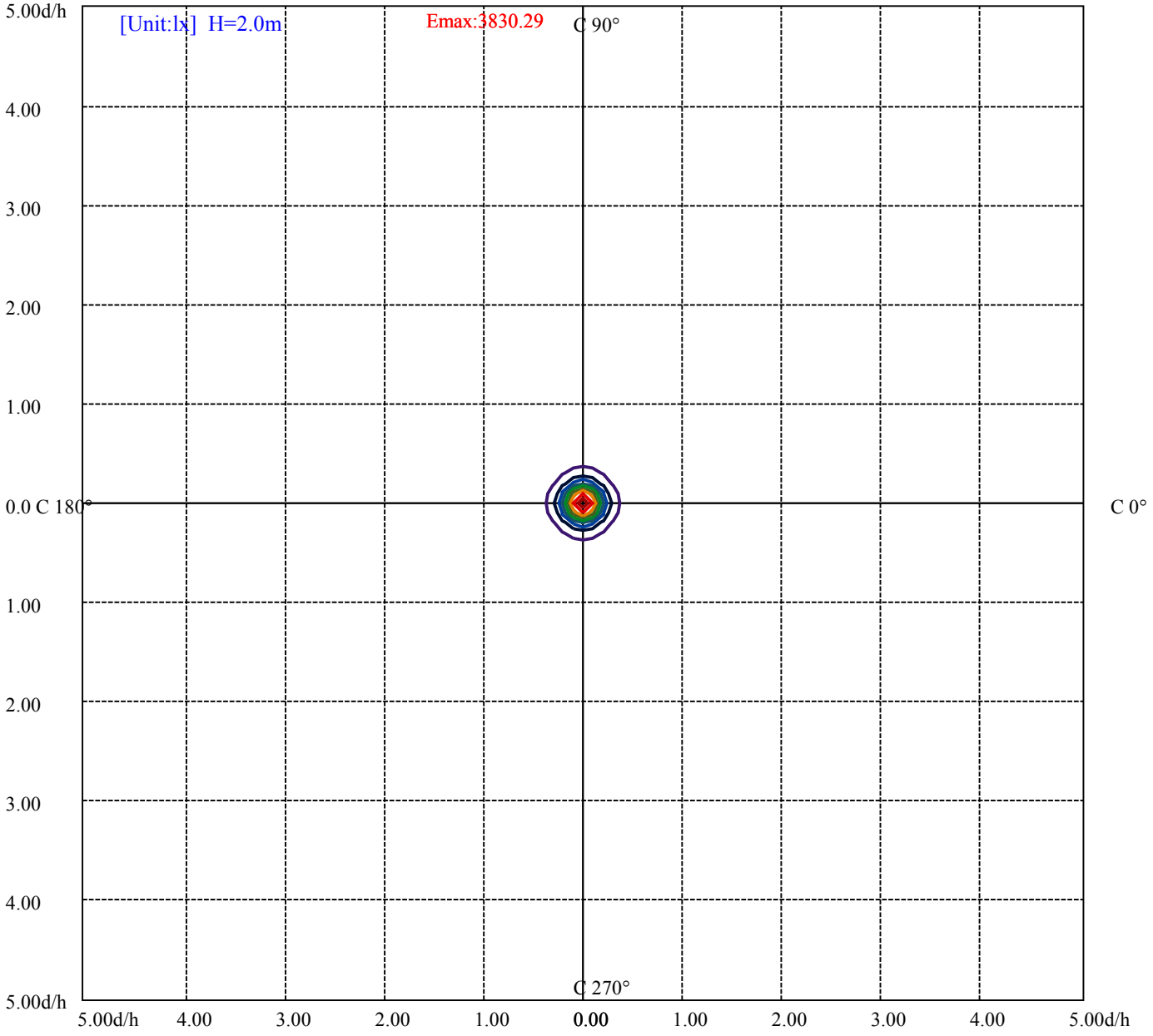
(10%Imax) 1532.11
(20%Imax) 3064.22
(30%Imax) 4596.33
(40%Imax) 6128.44
(50%Imax) 7660.55
(60%Imax) 9192.66
(70%Imax) 10724.8
(80%Imax) 12256.9
(90%Imax) 13789

Equipment:
Temperature(°C): 25.0

Date: 2018/10/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

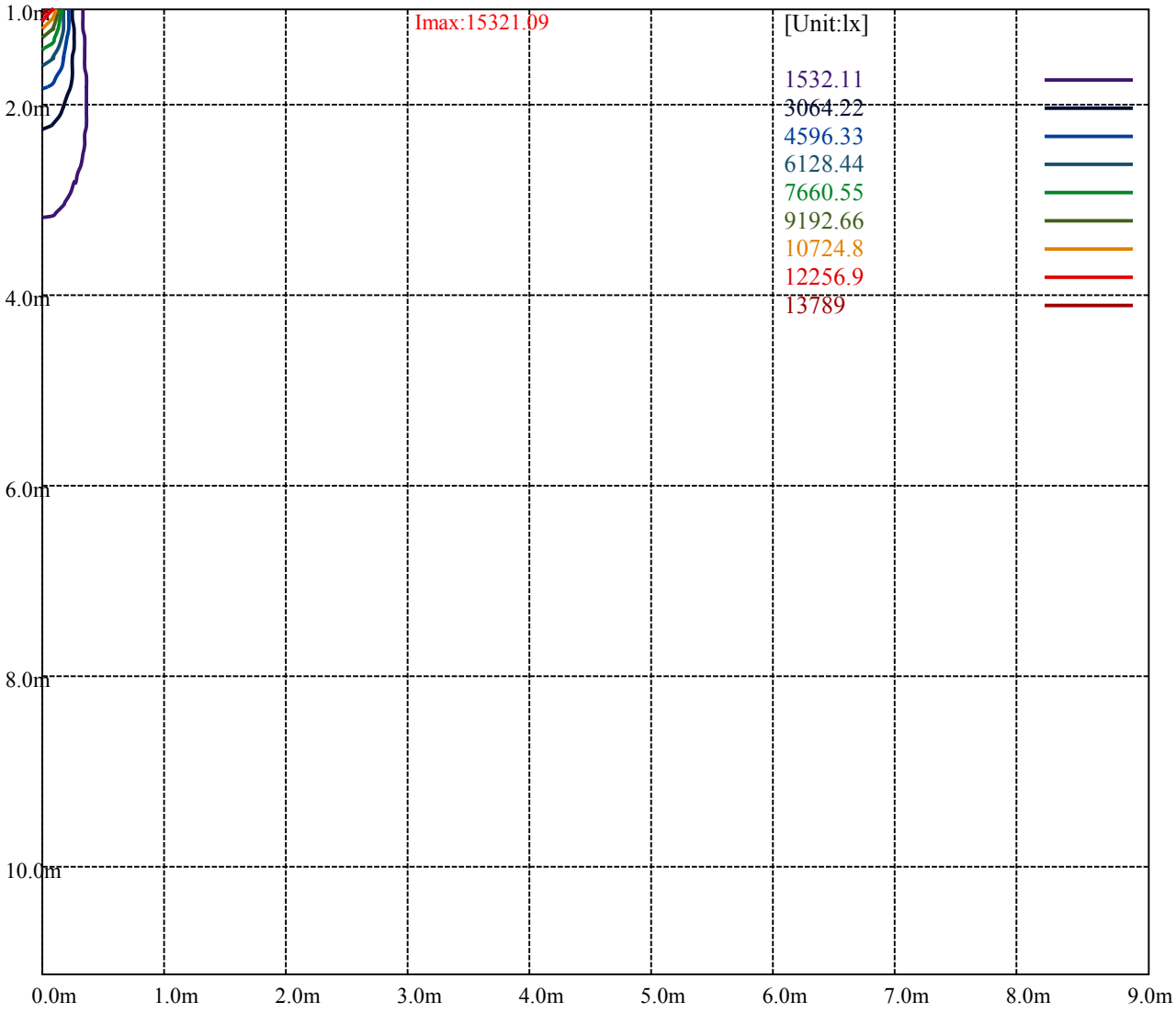


Equipment:
Temperature(°C): 25.0

Date: 2018/10/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment:
Temperature(°C): 25.0

Date: 2018/10/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

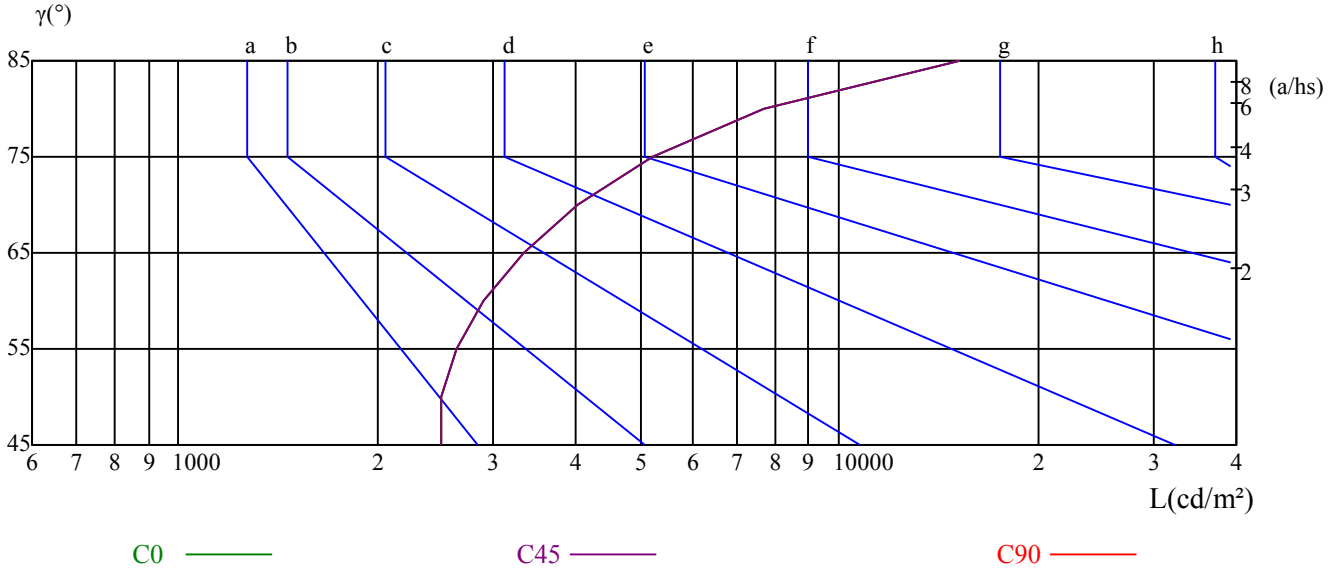
γ	45	50	55	60	65	70	75	80	85
C0	2500	2493	2637	2903	3331	4023	5230	7718	15288
C45	2500	2493	2637	2903	3331	4023	5230	7718	15288
C90	2500	2493	2637	2903	3331	4023	5230	7718	15288

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3331	3331	3331	5230	5230	5230	15288	15288	15288

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

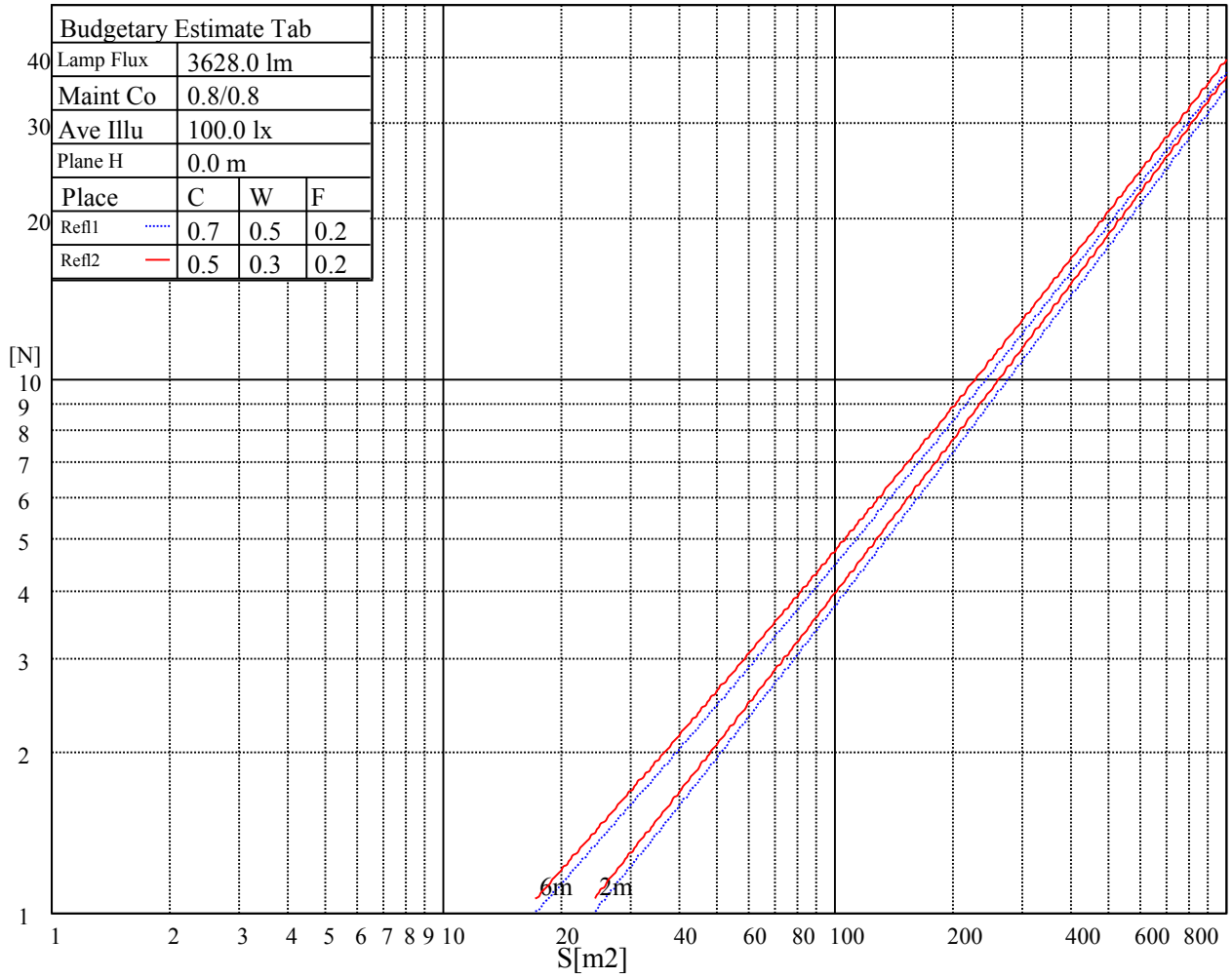


UGR Glare

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	-0.01	0.90	0.36	1.21	1.53	0.39	1.30	0.75	1.61	1.93
	3H	3.19	3.99	3.57	4.33	4.70	3.59	4.40	3.98	4.73	5.10
	4H	4.94	5.69	5.35	6.04	6.43	5.34	6.09	5.75	6.44	6.83
	6H	6.92	7.59	7.34	7.97	8.37	7.32	8.00	7.74	8.37	8.77
	8H	8.01	8.64	8.44	9.03	9.45	8.41	9.05	8.85	9.44	9.85
	12H	9.77	10.38	10.21	10.76	11.19	10.19	10.80	10.63	11.19	11.62
4H	2H	0.96	1.70	1.36	2.05	2.44	1.24	1.98	1.64	2.33	2.72
	3H	4.39	5.00	4.80	5.41	5.81	4.69	5.30	5.11	5.71	6.12
	4H	6.30	6.85	6.74	7.27	7.72	6.61	7.16	7.05	7.58	8.03
	6H	8.43	8.89	8.90	9.34	9.82	8.76	9.22	9.23	9.67	10.15
	8H	9.61	10.04	10.09	10.49	10.97	9.96	10.39	10.44	10.84	11.32
	12H	11.26	11.63	11.75	12.12	12.60	11.64	12.01	12.13	12.50	12.98
8H	4H	7.07	7.50	7.54	7.95	8.43	7.30	7.74	7.78	8.19	8.67
	6H	9.46	9.80	9.97	10.30	10.79	9.72	10.06	10.24	10.57	11.06
	8H	10.82	11.13	11.36	11.65	12.15	11.12	11.42	11.65	11.94	12.44
	12H	12.61	12.86	13.13	13.36	13.95	12.94	13.20	13.46	13.70	14.28
12H	4H	7.29	7.66	7.78	8.15	8.63	7.50	7.87	7.99	8.36	8.84
	6H	9.99	10.09	10.33	10.57	11.12	10.22	10.33	10.56	10.80	11.35
	8H	11.29	11.55	11.81	12.05	12.63	11.55	11.81	12.07	12.30	12.89

Variation with the observer position at spacings:		
S = 1.0H	5.7/-7.9	5.7/-7.9
S = 1.5H	7.9/-5.8	7.9/-5.8
S = 2.0H	9.3/-4.3	9.3/-4.3
Standard tables:	BK2	BK2
Uncorrected UGR	0.3	0.3

Budgetary Estimate Table



Equipment:
Temperature(°C): 25.0

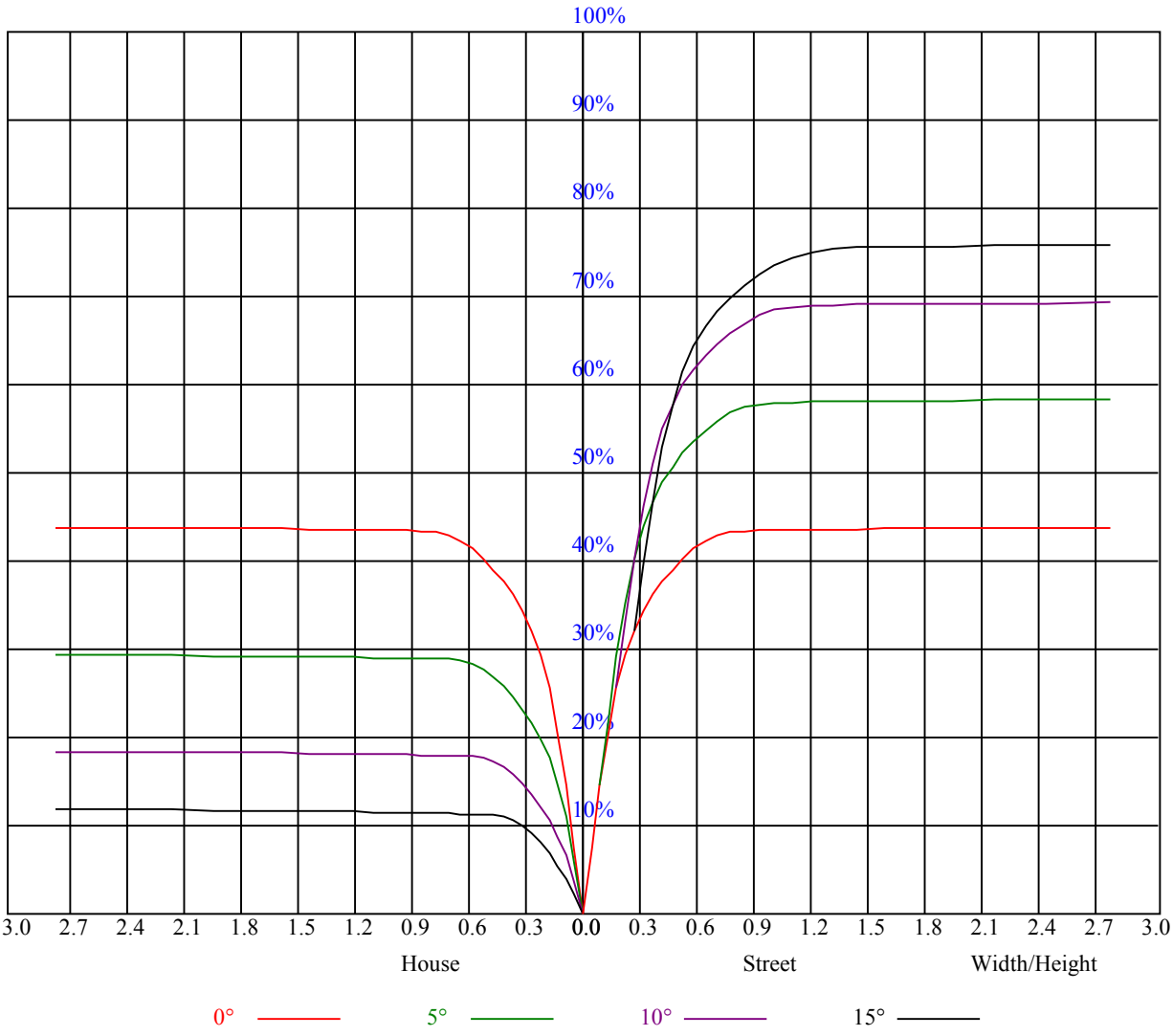
Date: 2018/10/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.99	0.97	0.95	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.84
2	0.94	0.91	0.88	0.92	0.90	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.84	0.83	0.82	0.81
3	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.81	0.80	0.82	0.80	0.78	0.77
4	0.85	0.81	0.78	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
5	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.73	0.71
6	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.73	0.70	0.74	0.72	0.70	0.69
7	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
9	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
10	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.61

Coefficient Utilization Curve



Equipment:	Date: 2018/10/16	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.50

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	15283.13	15345.00	15210.00	14883.75	14383.13	13680.00	12847.50	11964.38	10963.13
45.0	15328.13	15283.13	15052.50	14715.00	14208.75	13494.38	12650.63	11739.38	10620.00
90.0	15311.25	15097.50	14681.25	14225.63	13629.38	12684.38	11104.31	10851.75	9645.75
135.0	15361.88	15176.25	14816.25	14394.38	13848.75	13055.63	12133.13	11221.88	10074.38
180.0	15283.13	15114.38	14760.00	14276.25	13680.00	12841.88	11125.13	10866.38	9662.63
225.0	15328.13	15238.13	14985.00	14478.75	13921.88	13117.50	11941.88	11216.25	10184.63
270.0	15311.25	15406.88	15300.00	14996.25	14568.75	13921.88	13095.00	12211.88	11103.75
315.0	15361.88	15412.50	15249.38	14850.00	14366.25	13663.13	12774.38	11184.75	10518.19
360.0	15283.13	15345.00	15210.00	14883.75	14383.13	13680.00	12847.50	11964.38	10963.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9624.38	8538.75	7323.75	6300.00	5270.63	4376.25	3695.63	3110.63	2863.13
45.0	9399.38	8291.25	7059.38	6013.13	4983.75	4123.13	3504.38	3043.13	2634.19
90.0	8523.56	7294.50	6273.00	5224.50	4411.69	3662.44	3068.44	2639.25	2242.69
135.0	8853.75	7779.38	6609.38	5647.50	4680.00	3875.63	3307.50	2840.63	2382.19
180.0	8569.69	7373.81	6259.50	5345.44	4444.88	3706.31	3169.13	2721.38	2268.56
225.0	8977.50	7771.50	6713.44	5600.81	4624.31	3915.00	3260.81	2776.50	2335.50
270.0	9939.38	8870.63	7638.75	6586.88	5512.50	4550.63	3819.38	3211.88	2840.63
315.0	9572.06	8340.75	6986.81	6095.25	5067.56	4106.81	3536.44	2990.81	2428.88
360.0	9624.38	8538.75	7323.75	6300.00	5270.63	4376.25	3695.63	3110.63	2863.13

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2223.00	1957.50	1711.69	1521.00	1403.44	1332.00	1261.13	1227.38	1201.50
45.0	2125.69	1895.63	1649.25	1494.00	1379.81	1293.75	1243.13	1213.31	1184.06
90.0	1940.63	1735.31	1569.38	1413.56	1329.75	1274.63	1230.75	1198.69	1176.19
135.0	2068.31	1841.63	1614.94	1467.00	1364.06	1296.56	1244.81	1215.56	1191.38
180.0	1989.56	1773.56	1586.81	1445.06	1355.06	1288.69	1245.38	1217.25	1192.50
225.0	2007.56	1784.81	1613.81	1452.94	1362.94	1301.63	1252.13	1224.00	1201.50
270.0	2265.19	1965.94	1686.94	1532.25	1418.63	1338.19	1272.38	1238.06	1212.19
315.0	2151.00	1884.94	1650.94	1485.56	1383.75	1304.44	1254.94	1224.56	1197.00
360.0	2223.00	1957.50	1711.69	1521.00	1403.44	1332.00	1261.13	1227.38	1201.50

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1177.88	1157.63	1144.69	1124.44	1107.56	1092.38	1072.13	1012.50	891.00
45.0	1164.38	1145.25	1127.81	1109.81	1093.50	1074.38	1051.88	966.94	806.06
90.0	1154.81	1121.91	1112.46	1094.79	1079.55	1055.36	968.46	849.04	690.19
135.0	1168.31	1149.19	1132.31	1110.94	1092.94	1074.38	1014.19	907.88	745.31
180.0	1173.38	1154.25	1120.84	1108.58	1092.60	1067.57	998.27	887.79	713.59
225.0	1179.56	1159.88	1121.12	1112.96	1099.35	1079.44	1019.81	927.34	776.76
270.0	1188.00	1166.63	1148.06	1131.19	1113.19	1097.44	1078.88	1028.81	895.50
315.0	1176.19	1155.94	1121.34	1115.49	1101.21	1084.33	1060.43	984.60	848.48
360.0	1177.88	1157.63	1144.69	1124.44	1107.56	1092.38	1072.13	1012.50	891.00

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	732.94	580.50	426.38	298.13	125.83	53.55	33.41	25.88	21.26
45.0	664.88	515.81	349.88	298.69	96.98	40.39	28.80	21.71	18.17
90.0	523.80	380.42	247.44	109.13	45.34	31.67	23.68	19.58	16.88
135.0	577.13	425.81	301.50	134.49	58.67	35.61	26.94	21.83	18.62
180.0	563.18	412.03	270.34	125.27	53.04	35.16	26.94	22.22	19.01
225.0	587.81	457.37	312.81	140.40	65.76	35.72	27.11	21.21	17.61
270.0	757.69	607.50	437.06	288.56	143.04	59.96	33.13	24.81	19.86
315.0	686.64	533.19	384.64	210.60	104.57	45.73	32.46	24.08	20.70
360.0	732.94	580.50	426.38	298.13	125.83	53.55	33.41	25.88	21.26

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	18.68	18.23	17.83	17.49	17.16	16.88	16.59	16.43	16.20
45.0	16.82	16.43	16.09	15.81	15.58	15.30	15.13	14.96	14.79
90.0	16.48	16.14	15.81	15.58	15.36	15.13	14.96	14.79	14.63
135.0	18.17	17.72	17.44	17.16	16.93	16.71	16.54	16.37	16.20
180.0	18.56	18.17	17.55	17.27	17.04	16.88	16.65	16.48	16.31
225.0	17.04	16.65	16.03	15.69	15.41	15.19	14.96	14.74	14.63
270.0	17.27	16.82	16.43	16.03	15.75	15.47	15.24	15.02	14.85
315.0	18.39	17.89	17.55	17.21	16.93	16.65	16.43	16.26	16.09
360.0	18.68	18.23	17.83	17.49	17.16	16.88	16.59	16.43	16.20

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.03	15.92	15.75	15.64	15.47	15.41	15.30	15.19	15.13
45.0	14.63	14.46	14.34	14.23	14.12	14.01	13.95	13.84	13.78
90.0	14.46	14.34	14.23	14.12	14.01	13.95	13.84	13.78	13.67
135.0	15.98	15.81	15.58	15.47	15.30	15.24	15.13	15.02	14.91
180.0	16.09	15.92	15.81	15.64	15.47	15.30	15.13	14.96	14.79
225.0	14.40	14.29	14.18	14.01	13.89	13.84	13.73	13.67	13.56
270.0	14.68	14.51	14.40	14.23	14.12	14.06	13.89	13.84	13.78
315.0	15.86	15.75	15.58	15.47	15.36	15.24	15.13	15.08	14.96
360.0	16.03	15.92	15.75	15.64	15.47	15.41	15.30	15.19	15.13

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.02	14.96	14.85	14.79	14.68	14.63	14.51	14.46	14.34
45.0	13.67	13.61	13.56	13.50	13.44	13.39	13.33	13.22	13.22
90.0	13.61	13.56	13.50	13.39	13.39	13.33	13.28	13.28	13.22
135.0	14.79	14.63	14.57	14.46	14.40	14.34	14.29	14.23	14.18
180.0	14.68	14.57	14.51	14.46	14.34	14.29	14.23	14.18	14.12
225.0	13.50	13.39	13.33	13.33	13.28	13.22	13.16	13.11	13.11
270.0	13.67	13.61	13.56	13.50	13.44	13.39	13.33	13.28	13.28
315.0	14.91	14.79	14.74	14.68	14.57	14.51	14.40	14.34	14.29
360.0	15.02	14.96	14.85	14.79	14.68	14.63	14.51	14.46	14.34

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.34	14.29	14.23	14.18	14.12	14.12	14.06	14.06	14.01
45.0	13.16	13.16	13.11	13.05	12.99	12.99	12.94	12.94	12.94
90.0	13.16	13.16	13.11	13.05	13.05	13.05	12.99	12.99	12.99
135.0	14.12	14.06	14.06	14.01	13.95	13.89	13.89	13.78	13.78
180.0	14.06	14.01	13.95	13.89	13.89	13.84	13.78	13.78	13.73
225.0	13.05	12.99	12.99	12.94	12.94	12.88	12.88	12.88	12.83
270.0	13.22	13.16	13.16	13.11	13.05	13.05	13.05	12.99	12.99
315.0	14.18	14.18	14.12	14.06	14.01	14.01	14.01	13.95	13.95
360.0	14.34	14.29	14.23	14.18	14.12	14.12	14.06	14.06	14.01

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.01	13.95	13.95	13.95	13.95	13.95	13.95	13.89	13.89
45.0	12.88	12.88	12.83	12.83	12.83	12.77	12.77	12.77	12.71
90.0	12.94	12.94	12.94	12.94	12.88	12.83	12.77	12.77	12.77
135.0	13.78	13.73	13.73	13.73	13.67	13.61	13.61	13.61	13.56
180.0	13.73	13.73	13.67	13.61	13.67	13.61	13.61	13.56	13.56
225.0	12.83	12.83	12.77	12.77	12.77	12.77	12.77	12.71	12.71
270.0	12.94	12.94	12.94	12.94	12.94	12.88	12.88	12.83	12.83
315.0	13.95	13.95	13.95	13.95	13.89	13.89	13.89	13.84	13.89
360.0	14.01	13.95	13.95	13.95	13.95	13.95	13.95	13.89	13.89

Intensity data(cd)

C/γ(°)	90.0
0.0	13.89
45.0	12.71
90.0	12.77
135.0	13.56
180.0	13.56
225.0	12.71
270.0	12.83
315.0	13.84
360.0	13.89