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NATA

LumCAT: 4-1891-E
Luminaire: 92.76.233.00

Report No: NATA0100	Voltage(V): 218.2000
Test No: GC2019022507	Current(A): 0.0770
LampCAT: PL-CORE-AC-2000-G2 LES19	Power (W): 16.7000
Lamp flux(lm): 1789.0	PF: 0.9970
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1578.72
Efficiency(%): 88.25%
Lumens(lm)/Power(W): 94.58
Central intensity(cd): 3428.156
Maximum intensity(cd): 3428.156
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.3
[C90/270]Total=36.3
Field angle(10%Imax): [C0/180]Total=70.3
[C90/270]Total=70.3
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.62 C90_270=0.62
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 : 98.689%

Equipment: GMS1980	Date: 2019/2/25	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3428.156	0.820	0.82	.046%	.052%
1.0	3420.422	6.546	7.366	.366%	.467%
2.0	3393.773	12.988	20.355	.726%	1.289%
3.0	3350.531	19.229	39.584	1.075%	2.507%
4.0	3297.094	25.221	64.805	1.410%	4.105%
5.0	3220.102	30.776	95.582	1.720%	6.054%
6.0	3130.594	35.885	131.467	2.006%	8.327%
7.0	3029.836	40.492	171.958	2.263%	10.892%
8.0	2911.781	44.439	216.398	2.484%	13.707%
9.0	2789.297	47.850	264.247	2.675%	16.738%
10.0	2668.922	50.823	315.07	2.841%	19.957%
11.0	2547.211	53.299	368.368	2.979%	23.333%
12.0	2434.992	55.517	423.886	3.103%	26.850%
13.0	2318.203	57.186	481.072	3.197%	30.472%
14.0	2197.477	58.298	539.37	3.259%	34.165%
15.0	2089.336	59.300	598.67	3.315%	37.921%
16.0	1976.203	59.734	658.404	3.339%	41.705%
17.0	1848.797	59.276	717.679	3.313%	45.460%
18.0	1731.727	58.683	776.363	3.280%	49.177%
19.0	1620.984	57.873	834.235	3.235%	52.842%
20.0	1500.188	56.266	890.501	3.145%	56.407%
21.0	1389.727	54.615	945.116	3.053%	59.866%
22.0	1292.695	53.104	998.22	2.968%	63.230%
23.0	1183.556	50.713	1048.933	2.835%	66.442%
24.0	1099.132	49.025	1097.957	2.740%	69.547%
25.0	1017.141	47.139	1145.096	2.635%	72.533%
26.0	939.108	45.145	1190.241	2.523%	75.393%
27.0	859.838	42.807	1233.048	2.393%	78.104%
28.0	785.363	40.433	1273.481	2.260%	80.665%
29.0	721.139	38.339	1311.82	2.143%	83.094%
30.0	673.622	36.935	1348.755	2.065%	85.433%
31.0	636.567	35.953	1384.708	2.010%	87.711%
32.0	585.577	34.029	1418.737	1.902%	89.866%
33.0	520.467	31.085	1449.822	1.738%	91.835%
34.0	444.375	27.250	1477.072	1.523%	93.561%
35.0	355.437	22.357	1499.428	1.250%	94.977%
36.0	271.983	17.531	1516.96	.980%	96.088%
37.0	200.243	13.215	1530.175	.739%	96.925%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	115.530	7.800	1537.975	.436%	97.419%
39.0	58.577	4.043	1542.017	.226%	97.675%
40.0	33.272	2.345	1544.362	.131%	97.824%
41.0	23.548	1.694	1546.057	.095%	97.931%
42.0	17.262	1.267	1547.323	.071%	98.011%
43.0	12.248	0.916	1548.239	.051%	98.069%
44.0	9.042	0.689	1548.928	.039%	98.113%
45.0	7.966	0.618	1549.546	.035%	98.152%
46.0	7.770	0.613	1550.159	.034%	98.191%
47.0	7.594	0.609	1550.768	.034%	98.229%
48.0	7.446	0.607	1551.374	.034%	98.268%
49.0	7.327	0.606	1551.981	.034%	98.306%
50.0	7.207	0.605	1552.586	.034%	98.345%
51.0	7.123	0.607	1553.193	.034%	98.383%
52.0	7.031	0.608	1553.801	.034%	98.422%
53.0	6.982	0.611	1554.412	.034%	98.460%
54.0	6.898	0.612	1555.024	.034%	98.499%
55.0	6.848	0.615	1555.639	.034%	98.538%
56.0	6.792	0.617	1556.257	.035%	98.577%
57.0	6.764	0.622	1556.879	.035%	98.617%
58.0	6.729	0.626	1557.505	.035%	98.656%
59.0	6.715	0.631	1558.136	.035%	98.696%
60.0	6.673	0.634	1558.77	.035%	98.736%
61.0	6.638	0.637	1559.406	.036%	98.777%
62.0	6.616	0.641	1560.047	.036%	98.817%
63.0	6.616	0.646	1560.693	.036%	98.858%
64.0	6.588	0.649	1561.343	.036%	98.899%
65.0	6.581	0.654	1561.997	.037%	98.941%
66.0	6.553	0.656	1562.653	.037%	98.982%
67.0	6.546	0.661	1563.314	.037%	99.024%
68.0	6.525	0.663	1563.978	.037%	99.066%
69.0	6.511	0.667	1564.644	.037%	99.108%
70.0	6.490	0.669	1565.313	.037%	99.151%
71.0	6.490	0.673	1565.986	.038%	99.193%
72.0	6.455	0.673	1566.659	.038%	99.236%
73.0	6.469	0.678	1567.337	.038%	99.279%
74.0	6.462	0.681	1568.019	.038%	99.322%
75.0	6.462	0.684	1568.703	.038%	99.365%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.441	0.685	1569.388	.038%	99.409%
77.0	6.441	0.688	1570.076	.038%	99.452%
78.0	6.413	0.688	1570.764	.038%	99.496%
79.0	6.427	0.692	1571.456	.039%	99.540%
80.0	6.405	0.692	1572.148	.039%	99.584%
81.0	6.398	0.693	1572.841	.039%	99.628%
82.0	6.398	0.695	1573.536	.039%	99.672%
83.0	6.391	0.696	1574.231	.039%	99.716%
84.0	6.370	0.695	1574.926	.039%	99.760%
85.0	6.363	0.695	1575.621	.039%	99.804%
86.0	6.342	0.694	1576.315	.039%	99.848%
87.0	6.314	0.691	1577.007	.039%	99.891%
88.0	6.279	0.688	1577.695	.038%	99.935%
89.0	6.244	0.685	1578.379	.038%	99.978%
90.0	6.223	0.341	1578.72	.019%	100.000%

Zonal flux distribution table

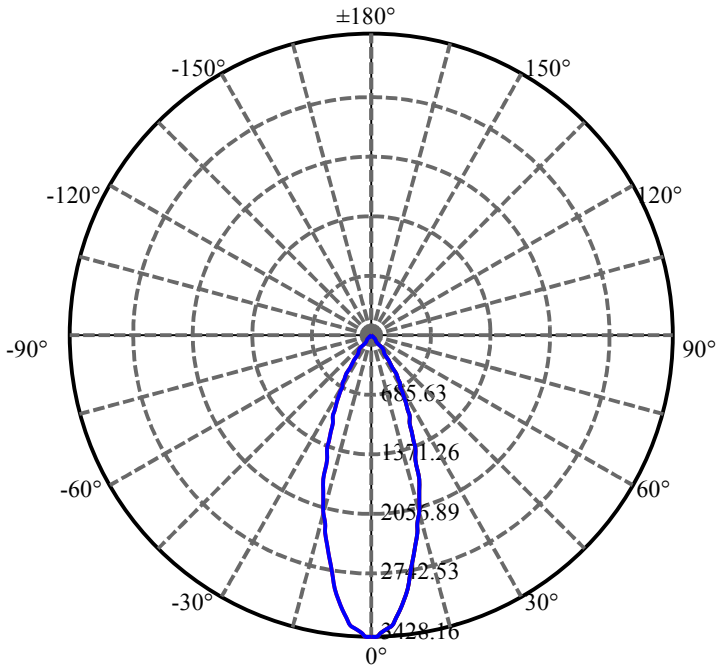
ZONAL LUMEN SUMMARY

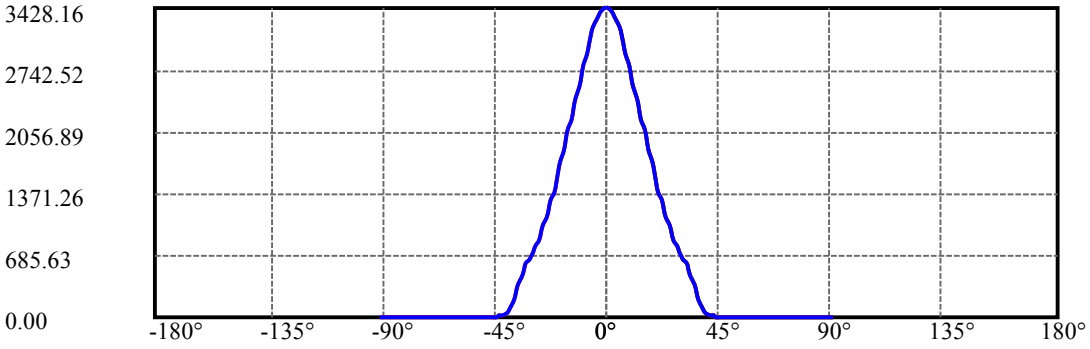
Zone	Lumens	%Lamp	%Fixt
0-30	1348.76	75.39%	85.43%
0-40	1544.36	86.33%	97.82%
0-60	1558.77	87.13%	98.74%
0-90	1578.38	88.23%	99.98%
0-120	1578.38	88.23%	99.98%
0-180	1578.72	88.25%	100.00%
60-90	20.24	1.13%	1.28%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.74	1262.98	70.60%	80.00%

ZONAL LUMEN SUMMARY

0-10	315.07
10-20	575.43
20-30	458.25
30-40	195.61
40-50	8.22
50-60	6.18
60-70	6.54
70-80	6.83
80-90	6.23
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):

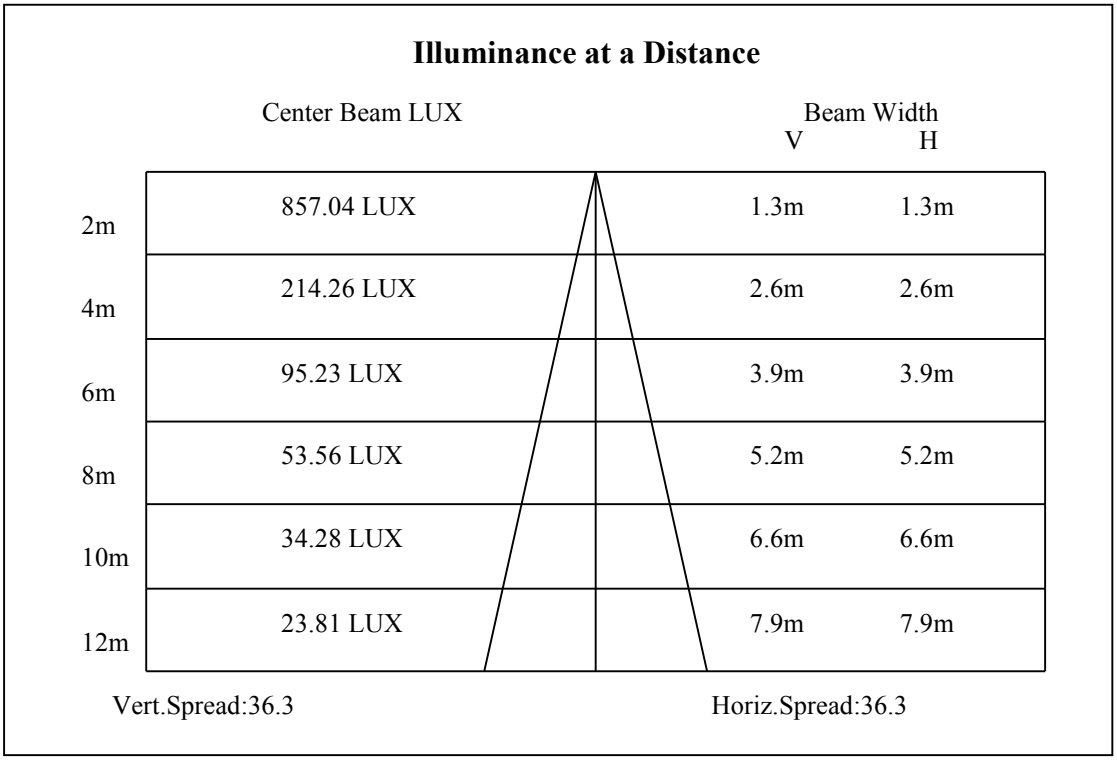
C0/C180:

C90/C270:

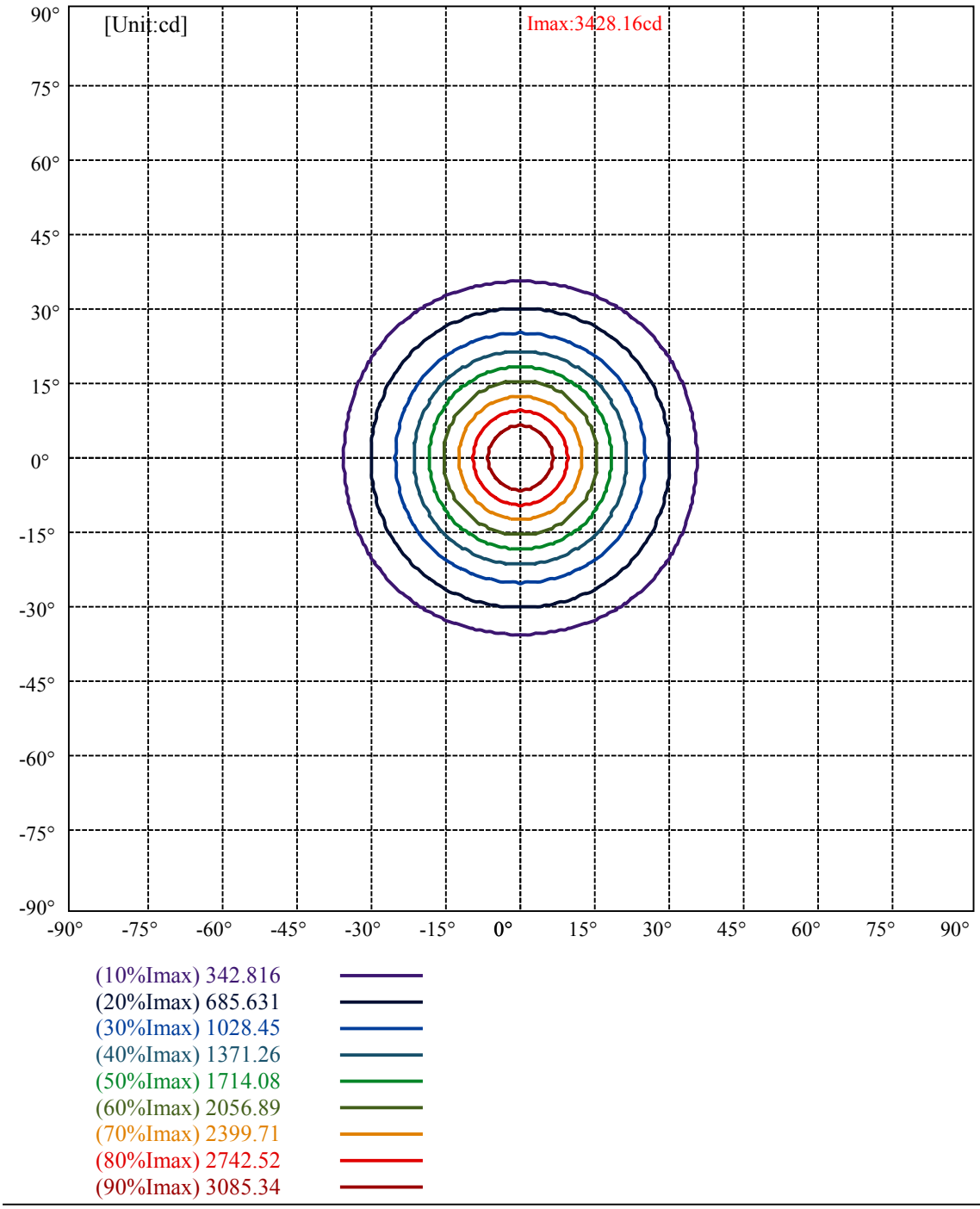
Field angle(10%Imax):C0/180Left:35.2 Right:35.2
:C90/270Left:35.2 Right:35.2

Beam Angle(50%Imax):C0/180Left:18.2 Right:18.2
:C90/270Left:18.2 Right:18.2

Lux distance Curve



ISO-Intensity(V-H)

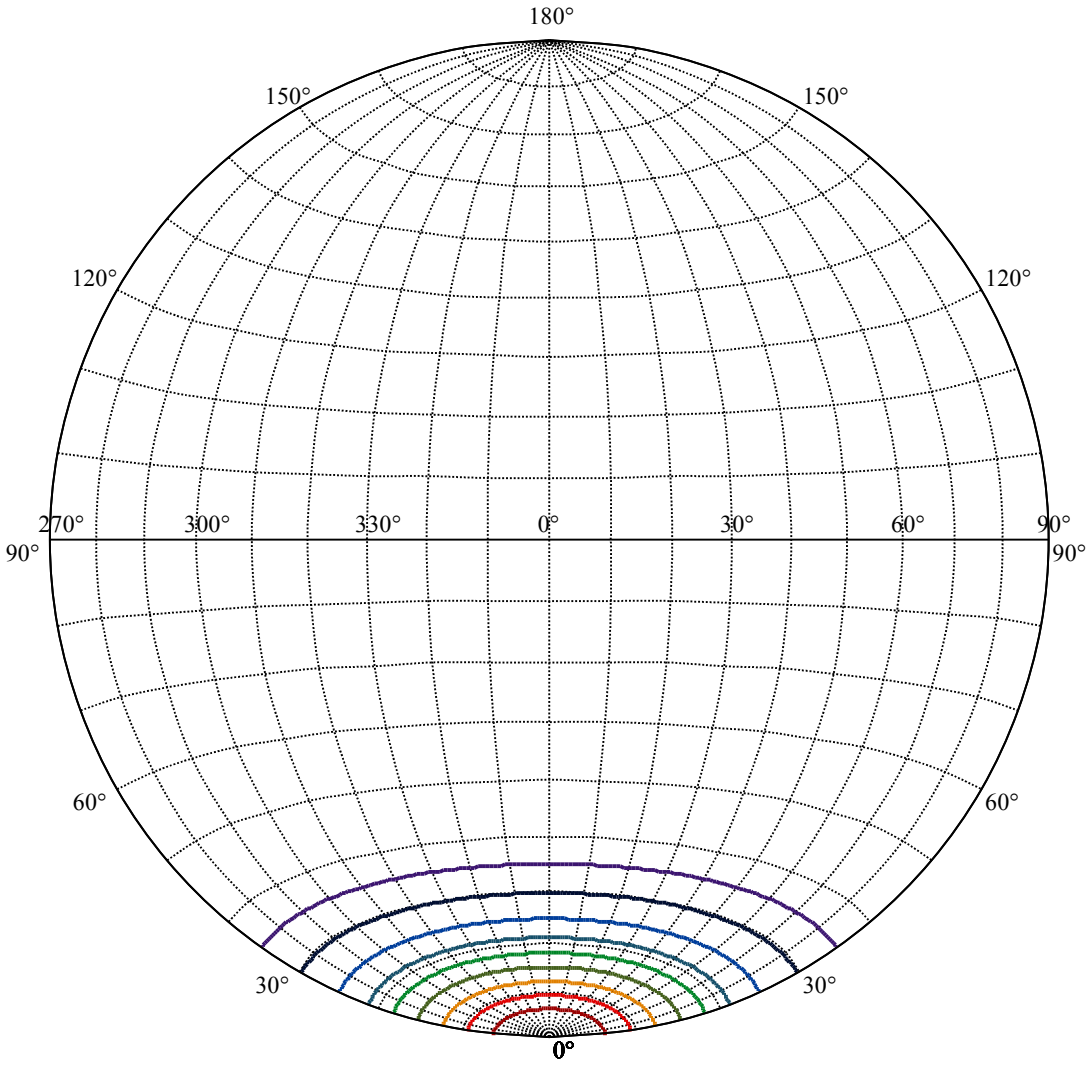


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/25
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



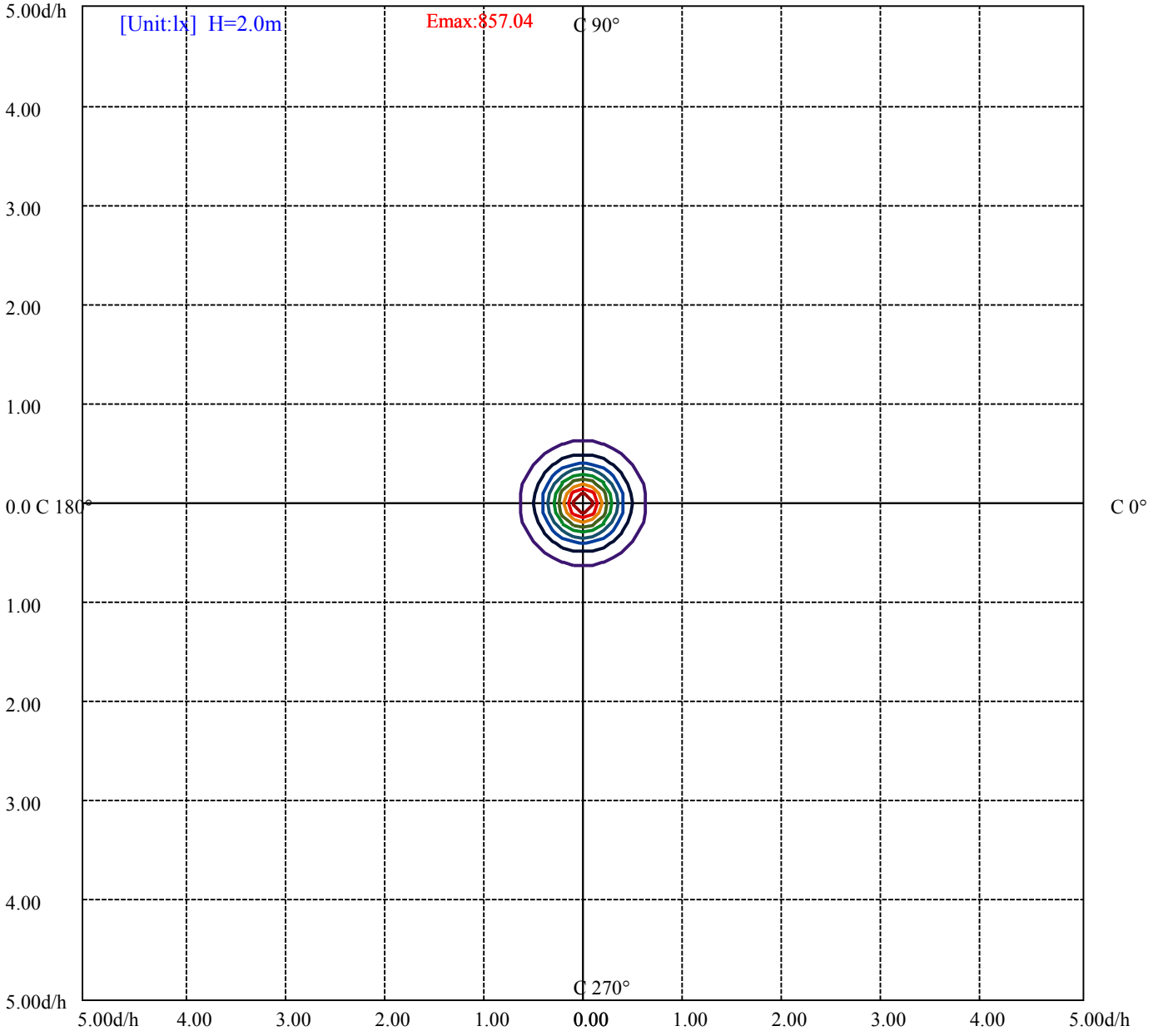
House [Unit:cd] Road

Imax:3428.16

(10%Imax) 342.816
(20%Imax) 685.631
(30%Imax) 1028.45
(40%Imax) 1371.26
(50%Imax) 1714.08
(60%Imax) 2056.89
(70%Imax) 2399.71
(80%Imax) 2742.52
(90%Imax) 3085.34

Equipment: GMS1980 Date: 2019/2/25 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

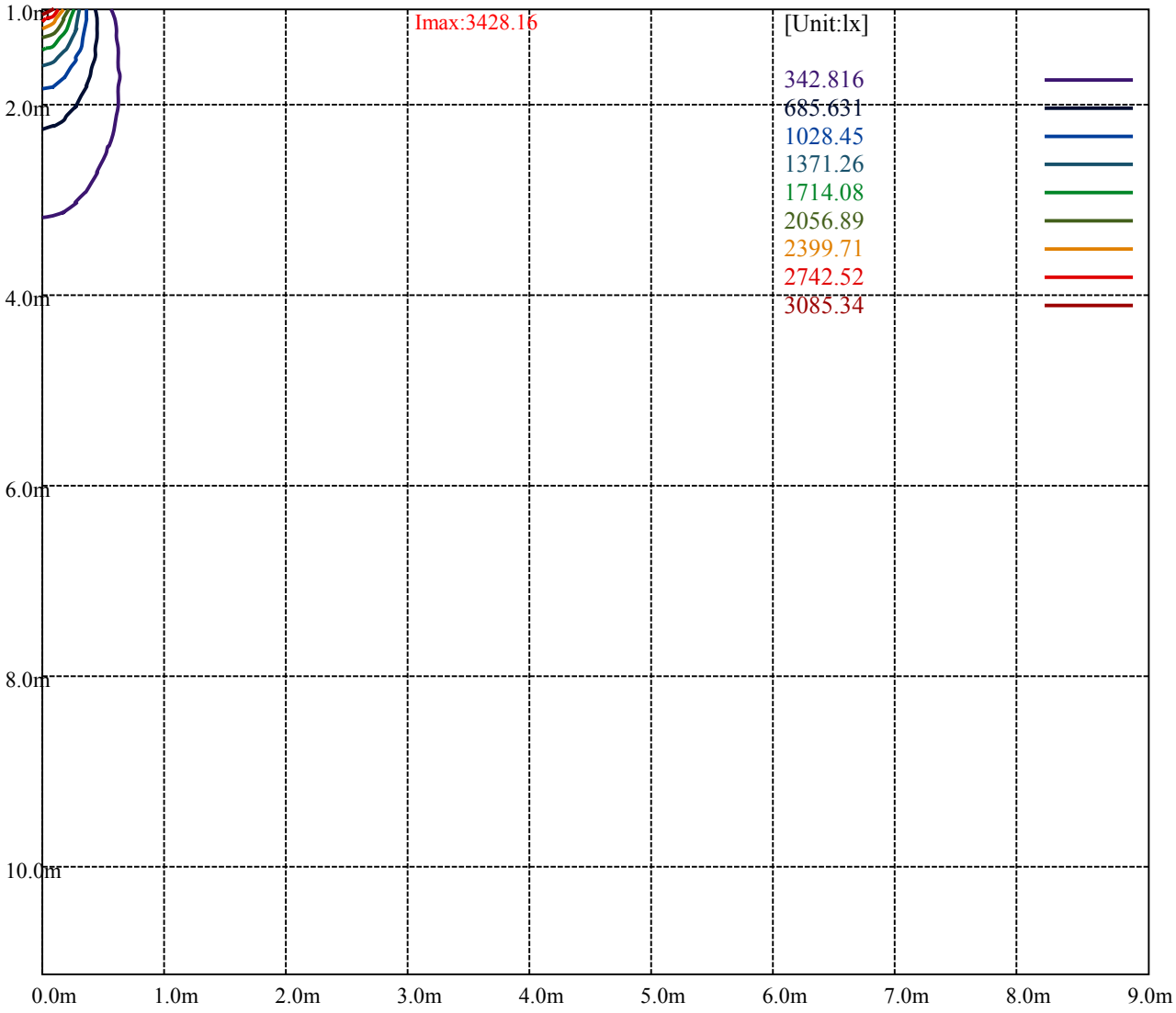


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/25
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/25
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

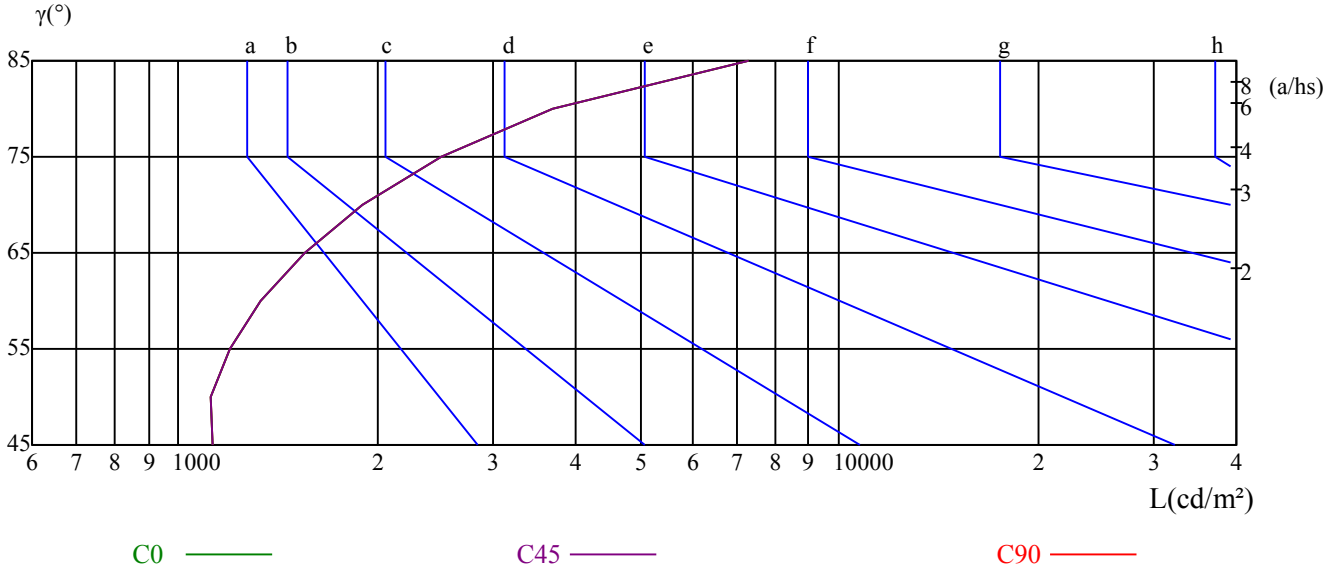
γ	45	50	55	60	65	70	75	80	85
C0	1127	1121	1194	1335	1557	1898	2497	3689	7301
C45	1127	1121	1194	1335	1557	1898	2497	3689	7301
C90	1127	1121	1194	1335	1557	1898	2497	3689	7301

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1557	1557	1557	2497	2497	2497	7301	7301	7301

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

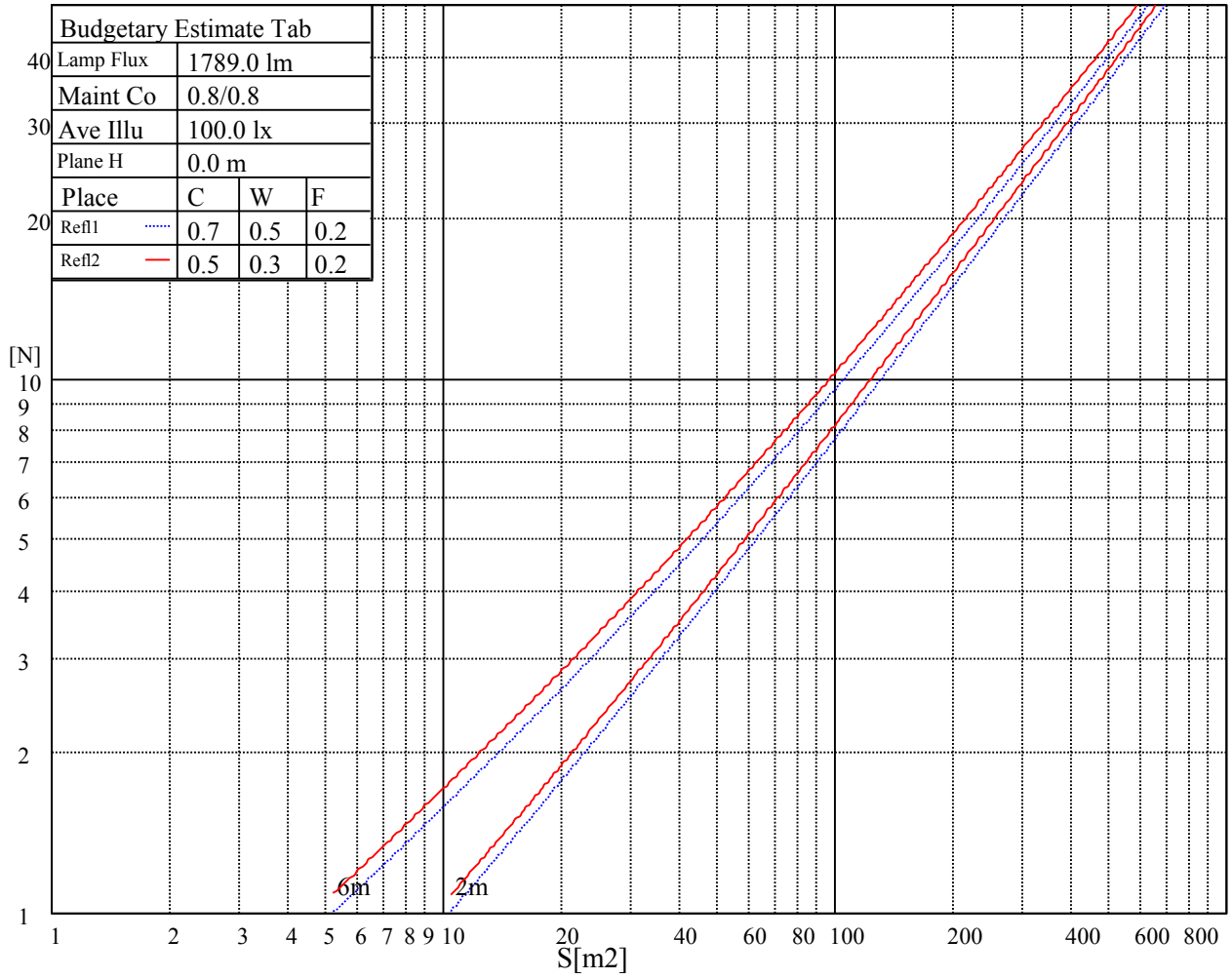


UGR Glare

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	-0.33	0.58	0.04	0.89	1.21	-0.36	0.55	0.00	0.86	1.17
	3H	3.00	3.80	3.39	4.14	4.51	2.98	3.78	3.37	4.12	4.49
	4H	4.82	5.56	5.23	5.91	6.30	4.80	5.54	5.21	5.89	6.29
	6H	6.83	7.51	7.25	7.89	8.28	6.82	7.50	7.24	7.88	8.27
	8H	7.94	8.57	8.38	8.97	9.38	7.93	8.57	8.37	8.96	9.37
	12H	9.72	10.33	10.16	10.71	11.15	9.72	10.33	10.16	10.71	11.14
4H	2H	0.63	1.37	1.03	1.72	2.11	0.61	1.35	1.01	1.70	2.09
	3H	4.18	4.79	4.60	5.20	5.61	4.17	4.77	4.58	5.18	5.59
	4H	6.16	6.70	6.60	7.12	7.57	6.14	6.69	6.58	7.11	7.56
	6H	8.31	8.77	8.78	9.23	9.70	8.30	8.77	8.78	9.22	9.70
	8H	9.51	9.95	9.99	10.40	10.87	9.51	9.95	9.99	10.40	10.87
	12H	11.19	11.56	11.68	12.05	12.53	11.19	11.56	11.69	12.05	12.53
8H	4H	6.90	7.33	7.38	7.78	8.26	6.89	7.32	7.37	7.77	8.25
	6H	9.32	9.66	9.83	10.17	10.65	9.32	9.66	9.83	10.17	10.65
	8H	10.71	11.01	11.24	11.53	12.03	10.72	11.02	11.25	11.54	12.04
	12H	12.52	12.78	13.04	13.28	13.86	12.52	12.78	13.05	13.28	13.86
12H	4H	7.11	7.48	7.60	7.97	8.45	7.10	7.47	7.59	7.96	8.44
	6H	9.84	9.95	10.18	10.42	10.97	9.84	9.95	10.18	10.42	10.97
	8H	11.16	11.42	11.69	11.92	12.50	11.17	11.43	11.69	11.93	12.51

Variation with the observer position at spacings:		
S = 1.0H	6.0/-8.3	6.0/-8.3
S = 1.5H	8.3/-6.1	8.3/-6.1
S = 2.0H	9.7/-4.5	9.7/-4.5
Standard tables:	BK2	BK2
Uncorrected UGR	-2.2	-2.2

Budgetary Estimate Table

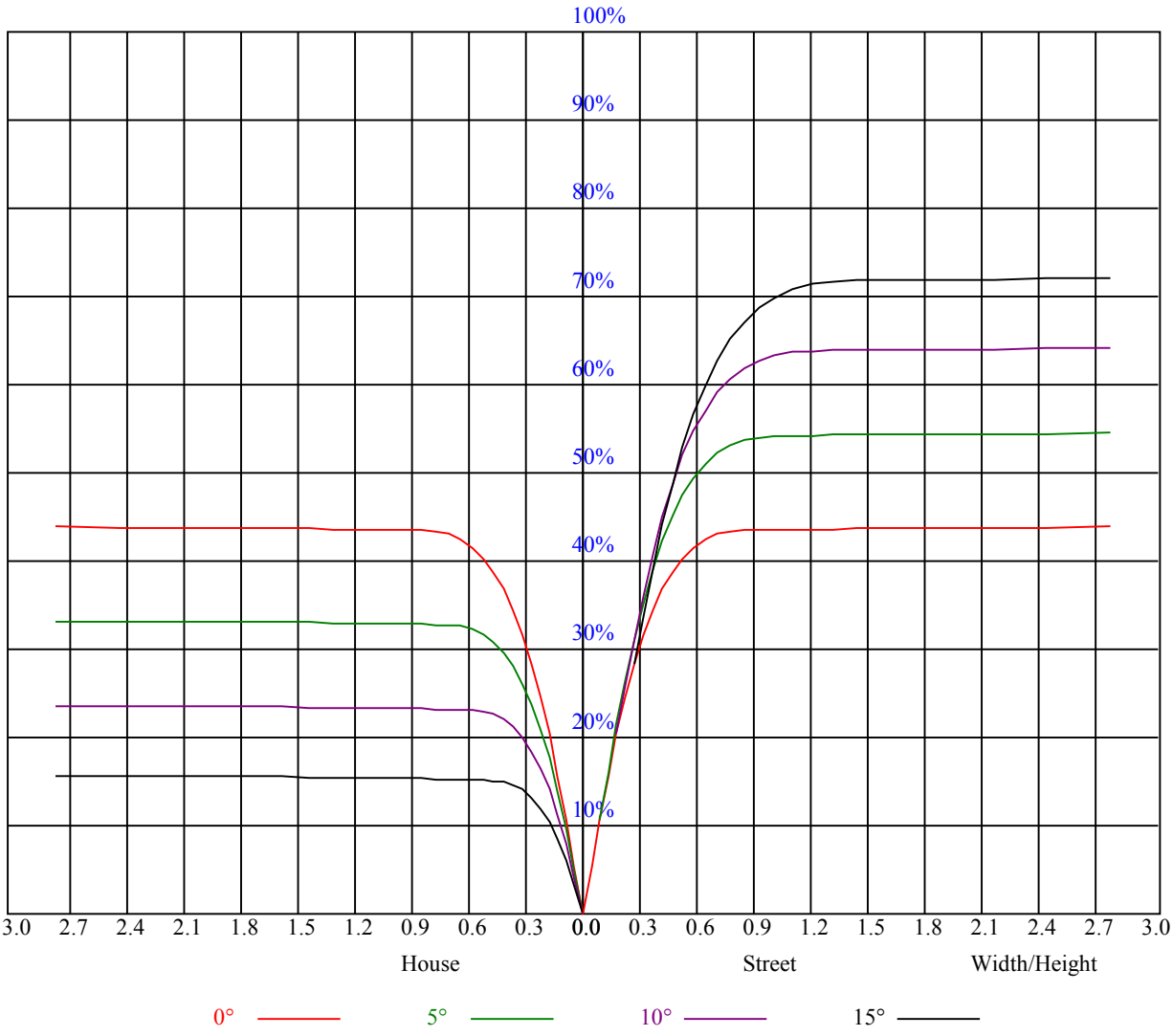


Equipment: GMS1980 Date: 2019/2/25 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.98	0.96	0.95	0.96	0.95	0.93	0.93	0.91	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.83
2	0.93	0.89	0.87	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.79
3	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.79	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.77	0.74	0.72	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/2/25	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	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	3431.81	3415.50	3379.50	3330.00	3274.31	3209.06	3112.31	3023.44	2922.75
45.0	3425.06	3416.06	3384.56	3345.19	3294.00	3221.44	3132.56	3039.19	2921.06
90.0	3431.25	3427.88	3407.63	3367.13	3315.94	3237.19	3144.94	3021.19	2890.13
135.0	3424.50	3439.13	3435.75	3414.94	3381.75	3301.88	3221.44	3135.38	2994.75
180.0	3431.81	3432.38	3416.63	3380.63	3319.88	3247.88	3144.38	3020.63	2903.06
225.0	3425.06	3419.44	3395.81	3353.06	3300.19	3223.69	3130.88	3031.88	2908.69
270.0	3431.25	3418.88	3380.63	3333.38	3275.44	3188.25	3110.06	3023.44	2913.75
315.0	3424.50	3394.13	3349.69	3279.94	3215.25	3131.44	3048.19	2943.56	2840.06
360.0	3431.81	3415.50	3379.50	3330.00	3274.31	3209.06	3112.31	3023.44	2922.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2788.31	2679.75	2572.31	2452.50	2337.19	2239.31	2127.94	2025.56	1910.25
45.0	2796.75	2683.13	2556.56	2447.44	2325.38	2204.44	2096.44	1986.19	1850.63
90.0	2772.56	2641.50	2516.06	2405.25	2295.00	2139.75	2040.19	1924.31	1791.56
135.0	2863.69	2761.31	2617.88	2504.81	2390.06	2246.06	2127.38	2005.88	1856.81
180.0	2786.63	2644.31	2535.75	2428.31	2293.31	2181.94	2068.31	1937.25	1802.81
225.0	2794.50	2664.00	2535.75	2426.06	2307.94	2192.06	2088.00	1979.44	1842.19
270.0	2795.63	2684.81	2559.38	2450.81	2332.13	2218.50	2117.25	2000.81	1885.50
315.0	2716.31	2592.56	2484.00	2364.75	2264.63	2157.75	2049.19	1950.19	1850.63
360.0	2788.31	2679.75	2572.31	2452.50	2337.19	2239.31	2127.94	2025.56	1910.25

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1794.94	1692.56	1576.13	1460.81	1362.38	1270.13	1161.00	1081.13	1002.94
45.0	1737.56	1626.75	1493.44	1388.25	1286.44	1185.75	1094.06	1017.00	934.31
90.0	1660.50	1545.75	1423.69	1311.75	1221.19	1122.08	1040.68	951.86	878.34
135.0	1731.94	1612.13	1474.31	1374.19	1276.88	1175.63	1074.38	994.50	910.69
180.0	1684.69	1555.88	1446.19	1330.88	1226.81	1115.66	1044.39	945.96	880.93
225.0	1732.50	1625.06	1505.81	1392.75	1297.69	1118.59	1098.34	1020.60	939.26
270.0	1783.13	1681.31	1553.63	1454.06	1359.00	1257.75	1163.81	1085.63	1000.13
315.0	1728.56	1628.44	1528.31	1405.13	1311.19	1222.88	1116.39	1040.46	966.26
360.0	1794.94	1692.56	1576.13	1460.81	1362.38	1270.13	1161.00	1081.13	1002.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	916.31	834.19	764.44	695.25	654.75	624.94	561.94	493.31	405.00
45.0	860.63	783.56	711.56	666.00	632.81	582.75	521.44	449.44	358.31
90.0	799.48	734.51	686.48	652.16	616.39	556.93	479.76	399.88	315.06
135.0	825.75	760.50	705.94	670.50	631.13	573.19	513.00	438.19	351.00
180.0	810.06	729.68	686.25	654.13	614.93	543.66	477.00	395.72	309.09
225.0	865.13	783.11	713.53	673.82	645.41	585.28	518.57	442.13	340.26
270.0	917.44	845.44	766.13	702.56	654.75	619.31	567.56	490.50	403.31
315.0	883.91	811.91	734.79	674.55	642.38	598.56	524.48	445.84	361.46
360.0	916.31	834.19	764.44	695.25	654.75	624.94	561.94	493.31	405.00

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	313.88	284.06	160.88	93.21	45.45	27.11	20.81	16.93	12.15
45.0	293.06	191.48	133.14	56.98	31.44	25.43	19.74	13.61	8.33
90.0	214.93	142.48	83.19	36.06	25.14	18.68	10.13	8.27	8.04
135.0	286.88	180.11	93.49	46.91	30.04	22.33	15.08	8.16	7.88
180.0	228.83	146.59	84.94	39.26	26.10	20.64	15.19	7.93	7.71
225.0	259.20	183.54	110.31	55.13	31.22	22.39	16.26	10.07	8.16
270.0	319.50	287.44	134.27	78.47	43.82	29.08	22.78	18.84	11.42
315.0	259.59	186.24	124.03	62.61	32.96	22.73	18.11	14.18	8.66
360.0	313.88	284.06	160.88	93.21	45.45	27.11	20.81	16.93	12.15

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	8.27	7.99	7.76	7.59	7.43	7.31	7.20	7.09	7.09
45.0	8.04	7.82	7.65	7.54	7.43	7.31	7.26	7.14	7.09
90.0	7.88	7.71	7.54	7.43	7.31	7.20	7.14	7.03	6.98
135.0	7.71	7.54	7.43	7.26	7.20	7.09	7.03	6.92	6.86
180.0	7.54	7.43	7.26	7.20	7.09	6.98	6.92	6.86	6.86
225.0	7.93	7.71	7.54	7.37	7.31	7.14	7.03	6.98	6.92
270.0	8.27	8.10	7.88	7.71	7.48	7.37	7.26	7.14	7.09
315.0	8.10	7.88	7.71	7.48	7.37	7.26	7.14	7.09	6.98
360.0	8.27	7.99	7.76	7.59	7.43	7.31	7.20	7.09	7.09

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	6.98	6.86	6.86	6.81	6.75	6.75	6.75	6.69	6.69
45.0	6.98	6.98	6.86	6.86	6.81	6.81	6.75	6.69	6.69
90.0	6.86	6.86	6.81	6.75	6.75	6.75	6.64	6.64	6.58
135.0	6.81	6.75	6.69	6.69	6.64	6.64	6.58	6.58	6.58
180.0	6.81	6.75	6.69	6.64	6.64	6.64	6.58	6.58	6.53
225.0	6.86	6.81	6.75	6.75	6.69	6.64	6.58	6.58	6.58
270.0	6.98	6.92	6.86	6.86	6.81	6.81	6.75	6.69	6.64
315.0	6.92	6.86	6.81	6.75	6.75	6.69	6.75	6.64	6.64
360.0	6.98	6.86	6.86	6.81	6.75	6.75	6.75	6.69	6.69

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.64	6.64	6.58	6.58	6.58	6.58	6.53	6.53	6.53
45.0	6.69	6.64	6.64	6.58	6.64	6.58	6.58	6.53	6.58
90.0	6.58	6.58	6.58	6.58	6.58	6.53	6.53	6.53	6.53
135.0	6.58	6.58	6.58	6.53	6.47	6.53	6.47	6.47	6.47
180.0	6.53	6.53	6.53	6.53	6.47	6.47	6.47	6.47	6.41
225.0	6.58	6.53	6.58	6.53	6.53	6.47	6.47	6.47	6.47
270.0	6.69	6.64	6.58	6.53	6.58	6.53	6.53	6.47	6.47
315.0	6.64	6.58	6.58	6.58	6.53	6.53	6.53	6.47	6.47
360.0	6.64	6.64	6.58	6.58	6.58	6.58	6.53	6.53	6.53

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.47	6.53	6.53	6.47	6.47	6.47	6.41	6.47	6.47
45.0	6.47	6.53	6.53	6.53	6.47	6.53	6.47	6.47	6.47
90.0	6.47	6.47	6.47	6.47	6.47	6.41	6.41	6.41	6.41
135.0	6.47	6.47	6.41	6.47	6.41	6.41	6.41	6.41	6.36
180.0	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.36
225.0	6.41	6.41	6.41	6.41	6.41	6.41	6.36	6.41	6.36
270.0	6.47	6.47	6.47	6.47	6.47	6.47	6.41	6.41	6.41
315.0	6.47	6.47	6.47	6.47	6.41	6.41	6.41	6.41	6.41
360.0	6.47	6.53	6.53	6.47	6.47	6.47	6.41	6.47	6.47

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.47	6.41	6.47	6.41	6.36	6.36	6.36	6.30	6.24
45.0	6.47	6.47	6.47	6.41	6.41	6.41	6.36	6.30	6.24
90.0	6.41	6.36	6.41	6.36	6.36	6.30	6.30	6.24	6.24
135.0	6.36	6.36	6.36	6.36	6.36	6.30	6.24	6.24	6.24
180.0	6.36	6.36	6.36	6.36	6.36	6.30	6.24	6.24	6.19
225.0	6.36	6.41	6.36	6.36	6.36	6.36	6.30	6.30	6.24
270.0	6.41	6.41	6.36	6.36	6.36	6.36	6.36	6.30	6.30
315.0	6.36	6.41	6.36	6.36	6.36	6.36	6.36	6.30	6.24
360.0	6.47	6.41	6.47	6.41	6.36	6.36	6.36	6.30	6.24

Intensity data(cd)

C/γ(°)	90.0
0.0	6.24
45.0	6.24
90.0	6.19
135.0	6.19
180.0	6.19
225.0	6.24
270.0	6.24
315.0	6.24
360.0	6.24