
brideglux

LumCAT: 4-1887-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 33.0000
Test No: 2017011402	Current(A): 0.5500
LampCAT: BRIDGELUX VERO 13	Power (W): 18.1500
Lamp flux(lm): 1556.0	PF: 0.0000
Number of Lamps: 1	Ballast type:
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

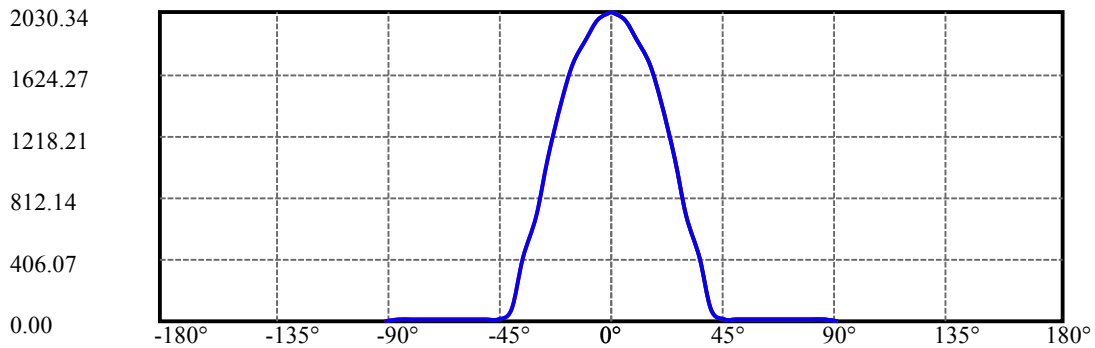
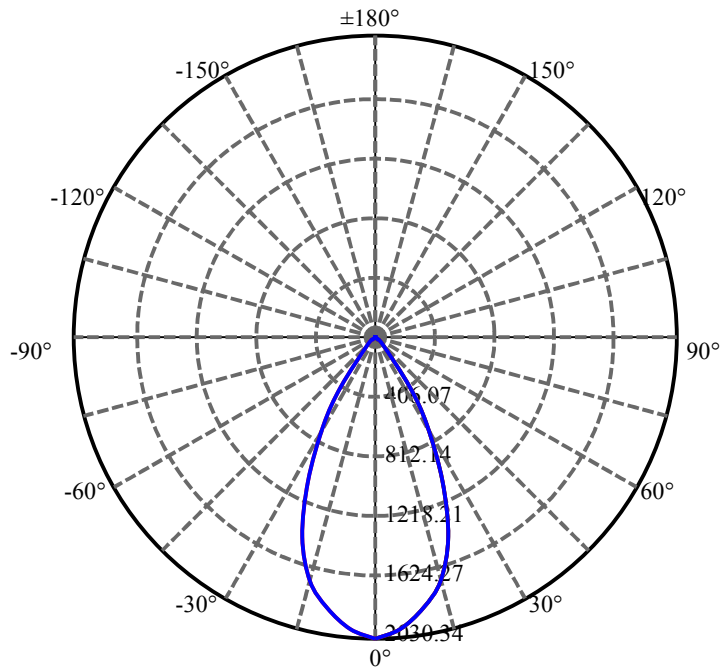
Lumens(lm): 1415.47
Efficiency(%): 90.97%
Lumens(lm)/Power(W): 78.58
Central intensity(cd): 2030.342
Maximum intensity(cd): 2030.342
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=51.4
[C90/270]Total=51.4
Field angle(10%Imax): [C0/180]Total=76.1
[C90/270]Total=76.1
Maximum s/h(1/2): C0_180=0.82 C90_270=0.82
Maximum s/h(1/4): C0_180=0.79 C90_270=0.79
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.66%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.861%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2030.342	12.142	12.142	.780%	.858%
5.0	1975.699	94.386	106.528	6.066%	7.526%
10.0	1852.717	176.347	282.875	11.333%	19.984%
15.0	1694.430	240.386	523.261	15.449%	36.967%
20.0	1433.600	268.763	792.024	17.273%	55.955%
25.0	1068.411	247.500	1039.524	15.906%	73.440%
30.0	688.060	188.576	1228.1	12.119%	86.762%
35.0	411.127	129.258	1357.357	8.307%	95.894%
40.0	72.709	25.618	1382.975	1.646%	97.704%
45.0	9.236	3.580	1386.555	.230%	97.957%
50.0	7.226	3.034	1389.589	.195%	98.171%
55.0	6.779	3.044	1392.633	.196%	98.386%
60.0	6.586	3.126	1395.76	.201%	98.607%
65.0	6.504	3.231	1398.99	.208%	98.835%
70.0	6.455	3.325	1402.315	.214%	99.070%
75.0	6.627	3.509	1405.824	.226%	99.318%
80.0	7.061	3.812	1409.636	.245%	99.588%
85.0	7.577	4.138	1413.773	.266%	99.880%
90.0	6.208	1.701	1415.475	.109%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1228.10	78.93%	86.76%
0-40	1382.98	88.88%	97.70%
0-60	1395.76	89.70%	98.61%
0-90	1413.77	90.86%	99.88%
0-120	1413.77	90.86%	99.88%
0-180	1415.47	90.97%	100.00%
60-90	21.14	1.36%	1.49%
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%
0-27.46	1132.38	72.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	282.87
10-20	509.15
20-30	436.08
30-40	154.88
40-50	6.61
50-60	6.17
60-70	6.56
70-80	7.32
80-90	4.14
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



C0(Max): —————

C0/C180: —————

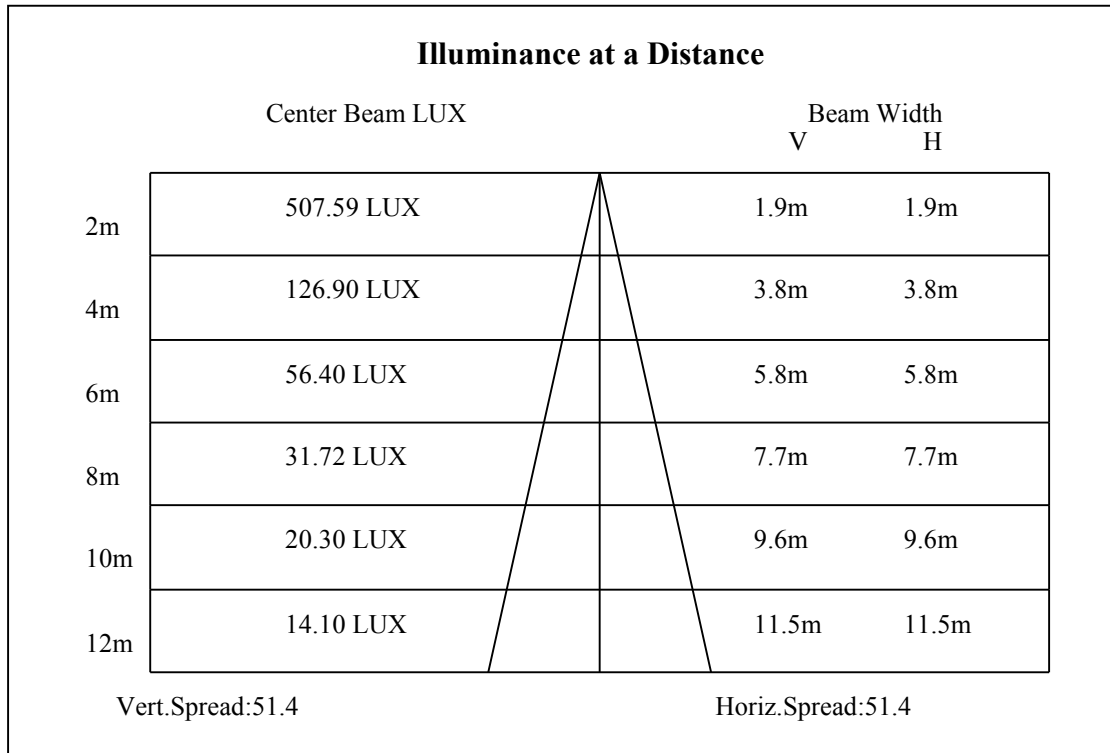
C90/C270: —————

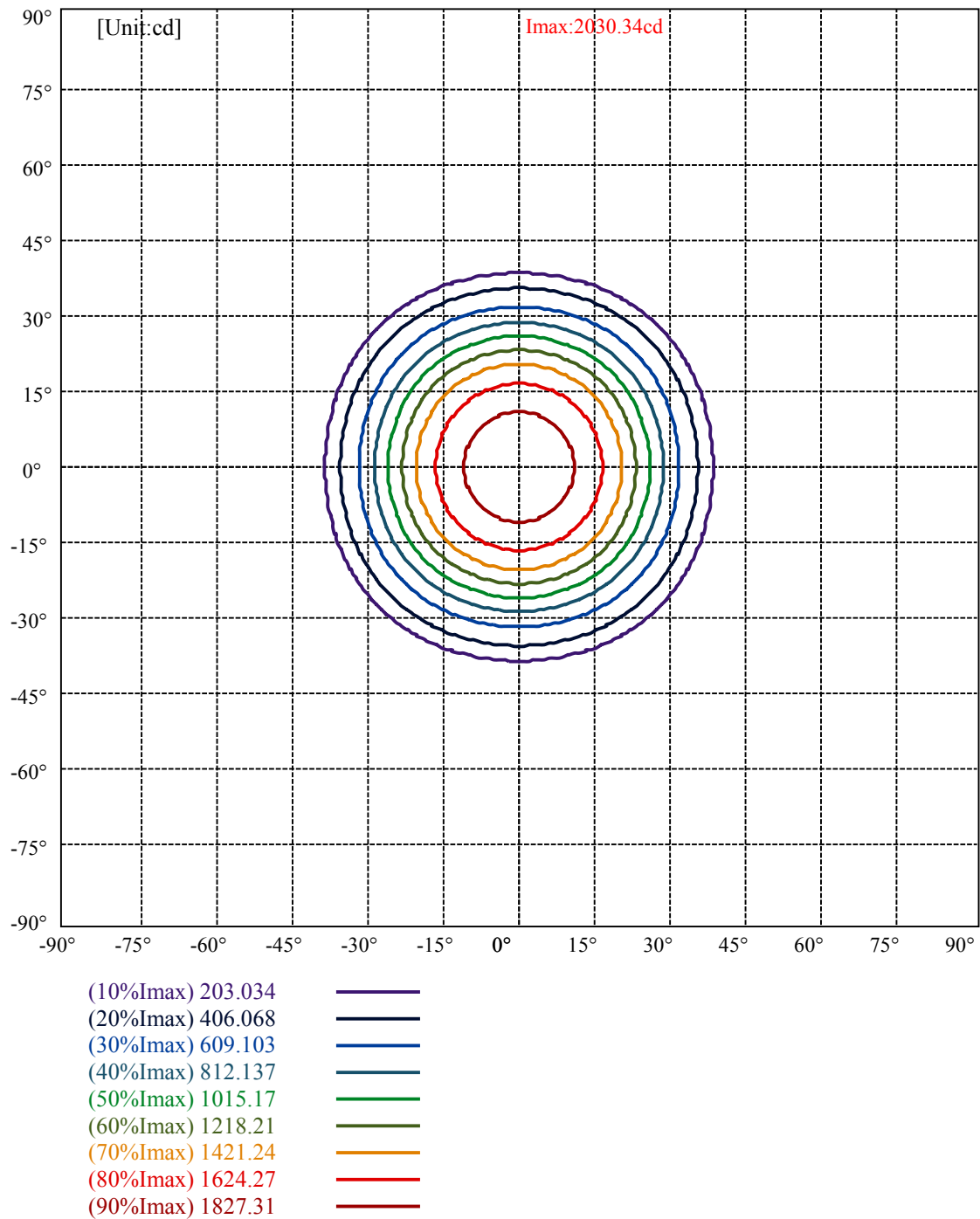
Field angle(10%Imax):C0/180Left:38.1 Right:38.1

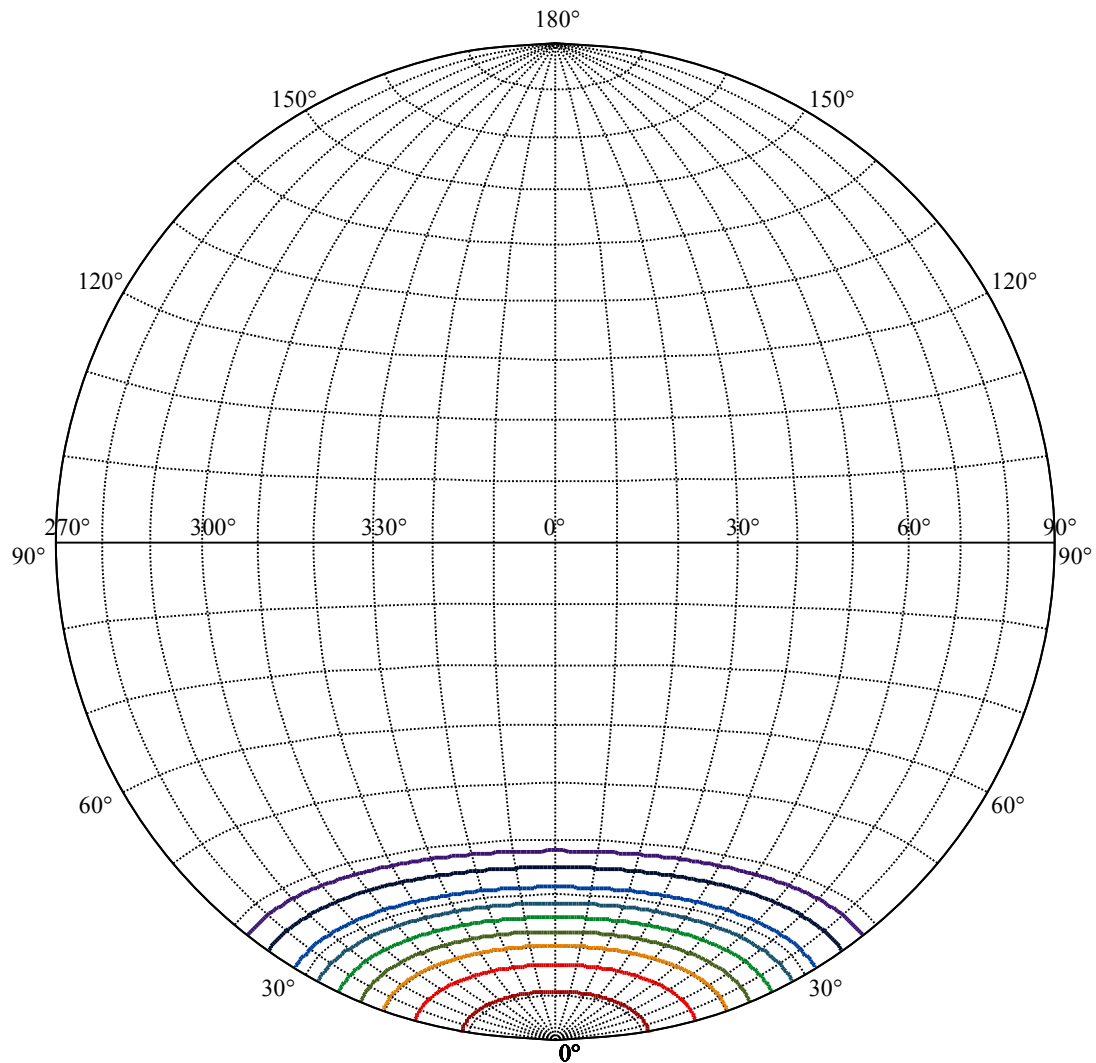
:C90/270Left:38.1 Right:38.1

Beam Angle(50%Imax):C0/180Left:25.7 Right:25.7

:C90/270Left:25.7 Right:25.7







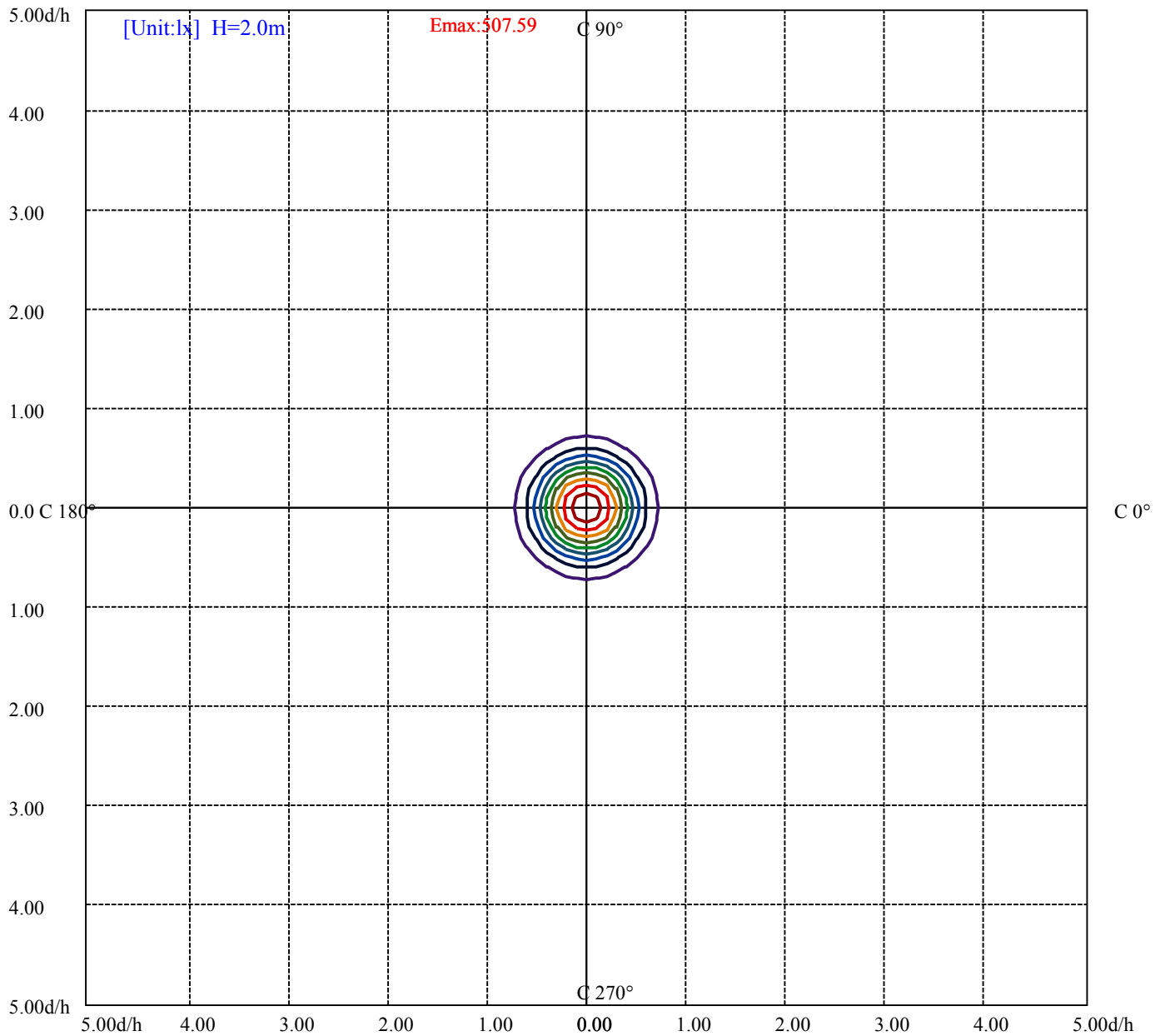
House

[Unit:cd]

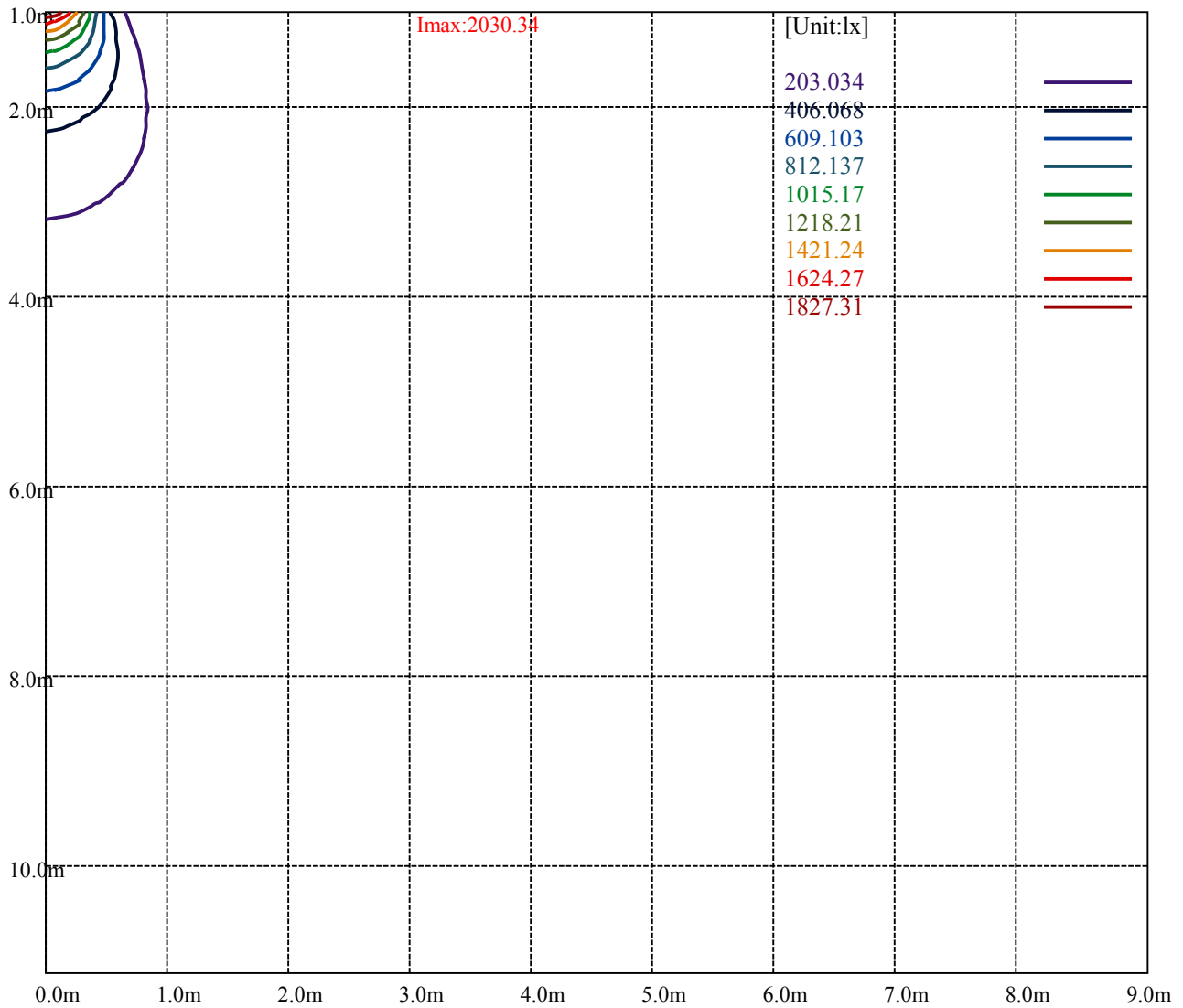
Road

Imax:2030.34

(10%Imax)	203.034	—
(20%Imax)	406.068	—
(30%Imax)	609.103	—
(40%Imax)	812.137	—
(50%Imax)	1015.17	—
(60%Imax)	1218.21	—
(70%Imax)	1421.24	—
(80%Imax)	1624.27	—
(90%Imax)	1827.31	—



(10%Emax) 50.7585	—
(20%Emax) 101.517	—
(30%Emax) 152.2755	—
(40%Emax) 203.034	—
(50%Emax) 253.7925	—
(60%Emax) 304.55	—
(70%Emax) 355.31	—
(80%Emax) 406.0675	—
(90%Emax) 456.8275	—



Luminance Table

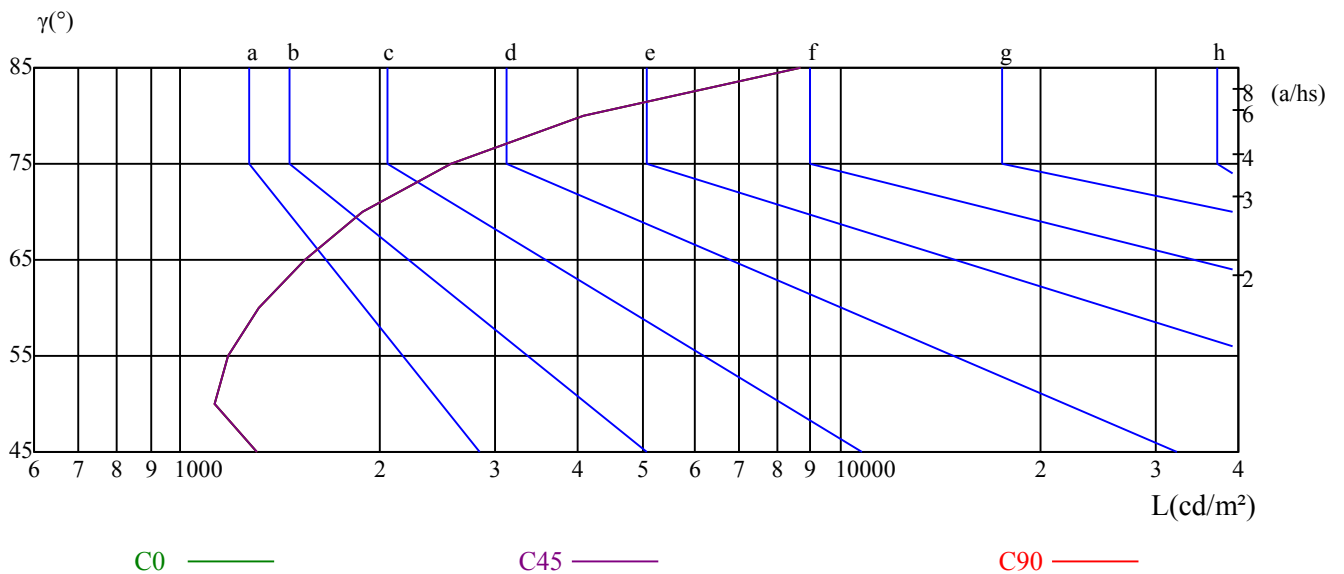
γ	45	50	55	60	65	70	75	80	85
C0	1306	1124	1182	1317	1539	1887	2561	4066	8694
C45	1306	1124	1182	1317	1539	1887	2561	4066	8694
C90	1306	1124	1182	1317	1539	1887	2561	4066	8694

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1539	1539	1539	2561	2561	2561	8694	8694	8694

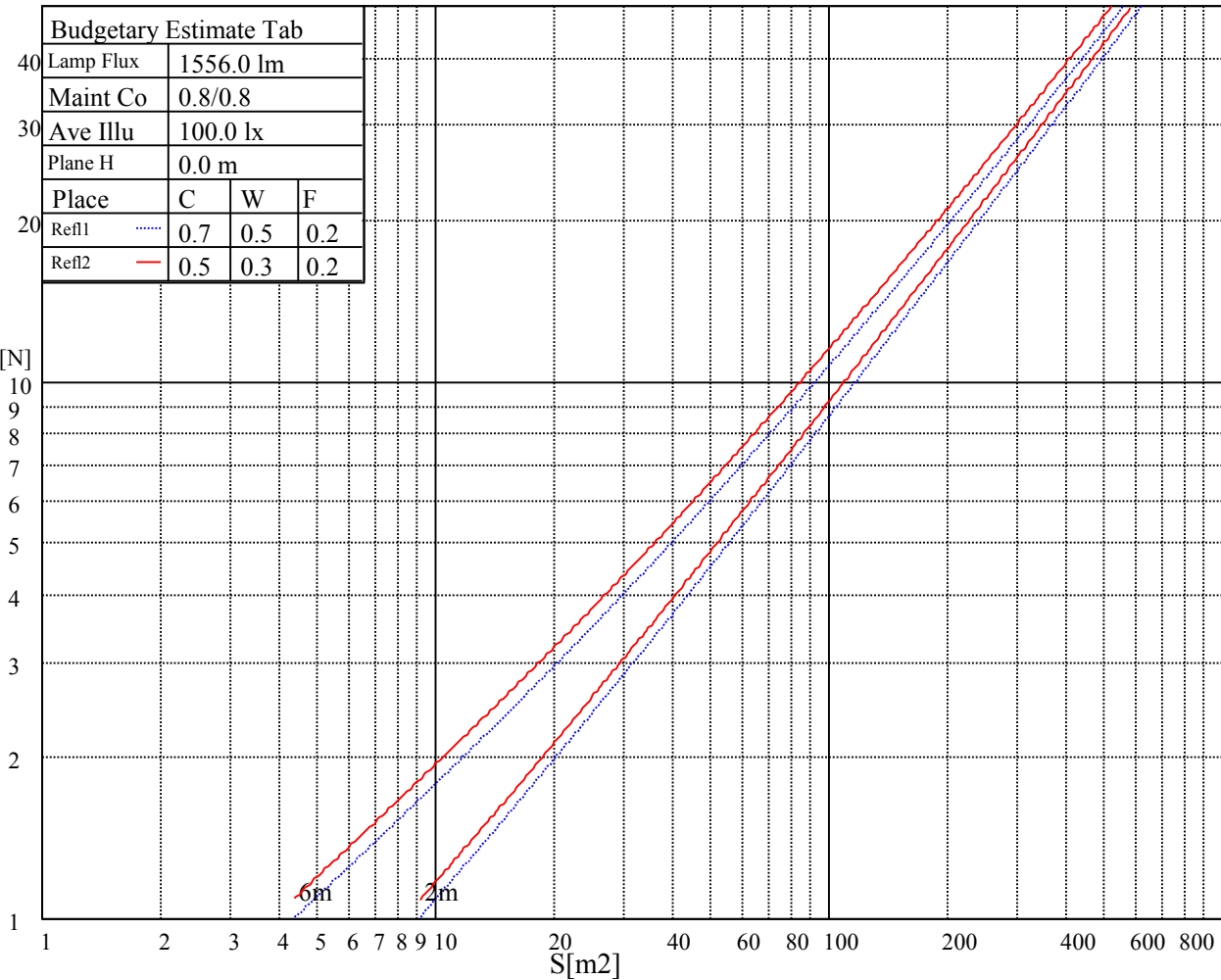
Glare Table

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

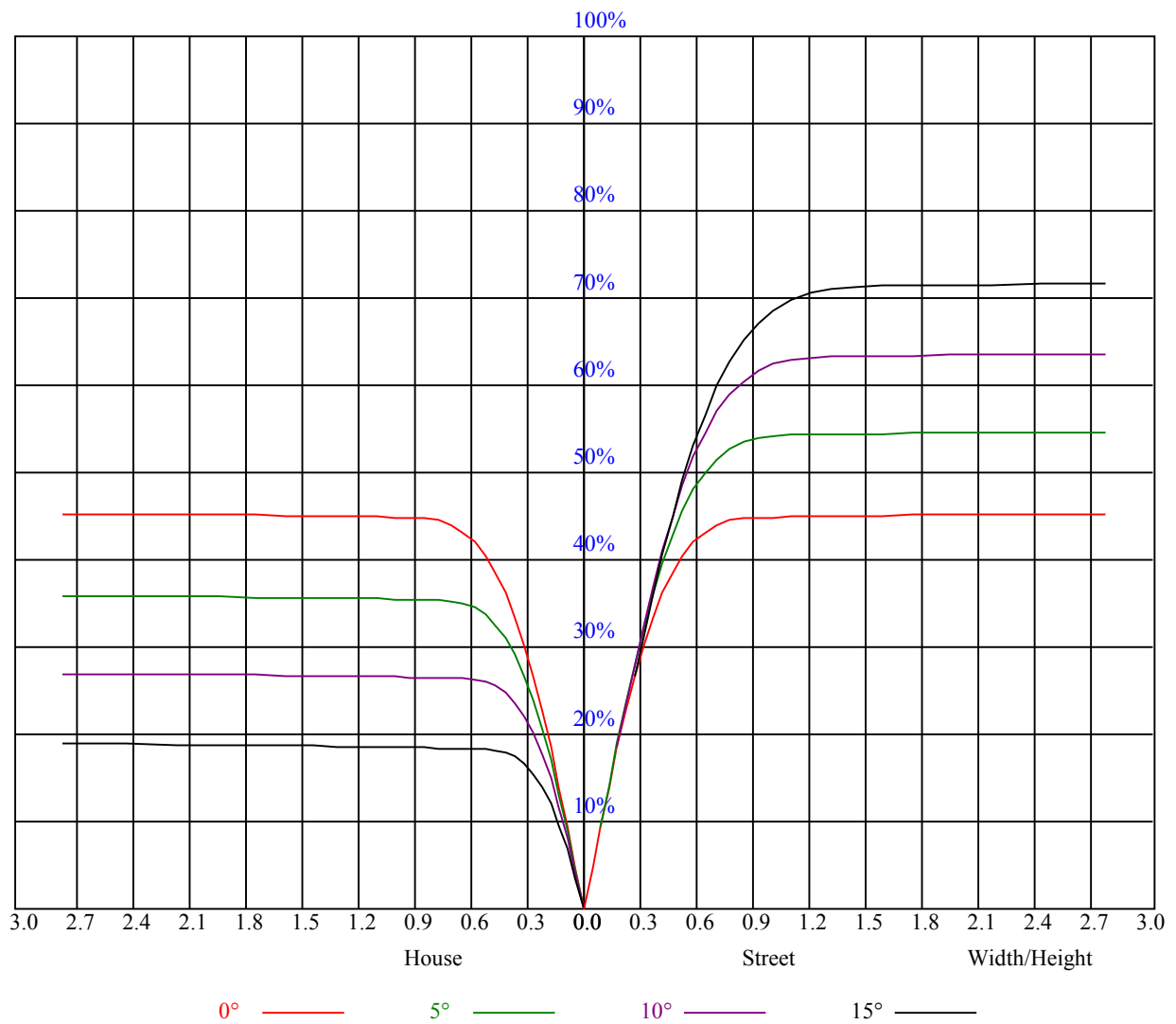
Luminance Limiting Curve



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	0.34	1.26	0.71	1.57	1.89	0.31	1.23	0.68	1.54	1.85
	3H	3.70	4.50	4.08	4.84	5.21	3.67	4.47	4.05	4.81	5.18
	4H	5.67	6.42	6.08	6.78	7.17	5.51	6.26	5.92	6.61	7.00
	6H	8.16	8.84	8.58	9.22	9.61	7.63	8.31	8.05	8.69	9.09
	8H	9.63	10.27	10.06	10.66	11.07	8.80	9.44	9.24	9.84	10.25
	12H	11.96	12.58	12.40	12.96	13.39	10.68	11.29	11.12	11.68	12.11
4H	2H	1.29	2.04	1.70	2.39	2.79	1.27	2.02	1.68	2.37	2.76
	3H	4.89	5.50	5.31	5.91	6.32	4.86	5.48	5.28	5.89	6.30
	4H	7.04	7.59	7.48	8.01	8.46	6.88	7.43	7.32	7.85	8.30
	6H	9.53	10.00	10.00	10.45	10.93	9.12	9.59	9.59	10.04	10.52
	8H	11.14	11.58	11.62	12.03	12.50	10.41	10.85	10.89	11.30	11.78
	12H	13.36	13.74	13.86	14.23	14.71	12.19	12.56	12.68	13.05	13.53
8H	4H	7.82	8.26	8.30	8.71	9.19	7.69	8.13	8.17	8.58	9.06
	6H	10.61	10.95	11.12	11.45	11.94	10.23	10.58	10.74	11.08	11.57
	8H	12.38	12.68	12.91	13.21	13.70	11.71	12.02	12.25	12.54	13.04
	12H	14.66	14.92	15.18	15.42	16.00	13.59	13.86	14.12	14.36	14.94
12H	4H	8.06	8.43	8.55	8.92	9.40	7.97	8.35	8.47	8.84	9.32
	6H	11.15	11.25	11.48	11.72	12.27	10.83	10.93	11.16	11.40	11.95
	8H	12.83	13.09	13.35	13.59	14.17	12.24	12.50	12.76	13.00	13.58
Variation with the observer position at spacings:											
S = 1.0H		5.6/-8.5					5.6/-8.5				
S = 1.5H		7.8/-6.3					7.8/-6.3				
S = 2.0H		9.2/-4.6					9.2/-4.6				
Standard tables:		BK3					BK3				
Uncorrected UGR		-1.1					-1.1				



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	COEFFICIENTS 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	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.95	0.92	0.89	0.94	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.66
7	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.63
8	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.60
9	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.57
10	0.64	0.60	0.57	0.64	0.59	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55



brideglux 4-1887-E

Intensity data(cd)								Appendix Page: 15 Total:15	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2032.13	2000.20	1891.74	1761.25	1505.79	1152.88	736.65	479.54	68.49
45.0	2028.83	2012.86	1914.86	1776.12	1553.14	1229.96	830.25	523.59	291.80
90.0	2031.58	1987.54	1866.96	1710.60	1467.80	1078.94	718.38	482.73	67.88
135.0	2028.83	1991.39	1866.41	1712.25	1472.76	1137.47	781.80	501.56	77.19
180.0	2032.13	1951.75	1819.61	1645.64	1376.41	1025.92	634.97	359.63	19.49
225.0	2028.83	1931.93	1792.09	1600.49	1315.30	900.83	569.78	247.04	16.85
270.0	2031.58	1964.41	1830.63	1673.71	1402.84	1016.89	623.24	372.18	20.26
315.0	2028.83	1965.51	1839.43	1675.37	1374.76	1004.39	609.42	322.74	19.71
360.0	2032.13	2000.20	1891.74	1761.25	1505.79	1152.88	736.65	479.54	68.49
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.97	7.27	6.77	6.61	6.50	6.44	6.50	6.77	6.88
45.0	12.88	7.43	6.88	6.61	6.50	6.44	6.50	6.72	7.82
90.0	9.30	7.38	6.83	6.61	6.44	6.39	6.33	6.28	6.55
135.0	10.13	7.32	6.83	6.61	6.50	6.39	6.33	6.28	6.33
180.0	8.26	7.10	6.72	6.55	6.50	6.39	6.39	6.33	6.44
225.0	7.93	7.05	6.72	6.55	6.50	6.50	6.94	7.54	7.32
270.0	8.37	7.21	6.77	6.61	6.61	6.61	7.43	9.36	11.56
315.0	8.04	7.05	6.72	6.55	6.50	6.50	6.61	7.21	7.71
360.0	8.97	7.27	6.77	6.61	6.50	6.44	6.50	6.77	6.88
C/γ(°)	90.0								
0.0	6.17								
45.0	6.22								
90.0	6.22								
135.0	6.22								
180.0	6.22								
225.0	6.22								
270.0	6.22								
315.0	6.17								
360.0	6.17								