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NT

Client:
LumCAT: 62-0031
Luminaire: 92.70.411.00 Hodel
Report No: 2024625-B005
Ballast type: AC

Test No: 2024625-C005	Voltage(V): 36.770
LampCAT: LUMILEDS 1205	Current(A): 0.601
Lamp flux(lm): 3019.8	Power (W): 22.098
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2602.45, Efficiency(%): 86.18% , Luminous Efficacy(lm/W): 117.77
Central intensity(cd): 18429.320, Maximum intensity(cd): 18429.320
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.2
[C90/270]Total=17.2
Field angle(10%Imax): [C0/180]Total=33.6
[C90/270]Total=33.6
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.29 C90_270=0.29
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.18%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.409%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	18429.320	0.000	0	0.00%	0.00%
1.0	18321.055	17.584	17.584	0.58%	0.68%
2.0	17978.697	52.101	69.685	1.73%	2.68%
3.0	17378.842	84.564	154.249	2.80%	5.93%
4.0	16462.232	113.277	267.526	3.75%	10.28%
5.0	14506.499	133.226	400.752	4.41%	15.40%
6.0	13149.011	145.337	546.089	4.81%	20.98%
7.0	12092.899	156.676	702.765	5.19%	27.00%
8.0	10328.226	160.464	863.228	5.31%	33.17%
9.0	8522.003	152.771	1015.999	5.06%	39.04%
10.0	7029.898	140.739	1156.738	4.66%	44.45%
11.0	5692.586	127.124	1283.862	4.21%	49.33%
12.0	4562.443	112.102	1395.964	3.71%	53.64%
13.0	3673.852	97.744	1493.708	3.24%	57.40%
14.0	3007.939	85.526	1579.235	2.83%	60.68%
15.0	2611.450	77.145	1656.38	2.55%	63.65%
16.0	2209.400	70.639	1727.019	2.34%	66.36%
17.0	1761.600	61.839	1788.858	2.05%	68.74%
18.0	1441.855	52.818	1841.676	1.75%	70.77%
19.0	1221.299	46.333	1888.01	1.53%	72.55%
20.0	1066.499	41.873	1929.883	1.39%	74.16%
21.0	927.311	38.285	1968.168	1.27%	75.63%
22.0	799.308	34.697	2002.865	1.15%	76.96%
23.0	700.331	31.466	2034.332	1.04%	78.17%
24.0	616.681	28.795	2063.126	0.95%	79.28%
25.0	546.783	26.455	2089.581	0.88%	80.29%
26.0	486.146	24.382	2113.963	0.81%	81.23%
27.0	437.661	22.601	2136.564	0.75%	82.10%
28.0	397.558	21.146	2157.71	0.70%	82.91%
29.0	363.410	19.909	2177.619	0.66%	83.68%
30.0	329.262	18.702	2196.321	0.62%	84.39%
31.0	303.542	17.610	2213.931	0.58%	85.07%
32.0	281.376	16.757	2230.689	0.55%	85.72%
33.0	264.353	16.077	2246.766	0.53%	86.33%
34.0	247.909	15.503	2262.269	0.51%	86.93%
35.0	232.883	14.932	2277.2	0.49%	87.50%
36.0	215.802	14.286	2291.486	0.47%	88.05%
37.0	205.041	13.726	2305.212	0.45%	88.58%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	189.371	13.165	2318.377	0.44%	89.08%
39.0	177.806	12.533	2330.91	0.42%	89.57%
40.0	167.140	12.030	2342.94	0.40%	90.03%
41.0	157.250	11.551	2354.492	0.38%	90.47%
42.0	147.813	11.083	2365.575	0.37%	90.90%
43.0	139.701	10.650	2376.225	0.35%	91.31%
44.0	132.246	10.264	2386.489	0.34%	91.70%
45.0	124.902	9.882	2396.372	0.33%	92.08%
46.0	118.486	9.518	2405.89	0.32%	92.45%
47.0	112.312	9.179	2415.07	0.30%	92.80%
48.0	106.665	8.852	2423.922	0.29%	93.14%
49.0	101.310	8.541	2432.463	0.28%	93.47%
50.0	96.438	8.245	2440.707	0.27%	93.79%
51.0	91.456	7.950	2448.657	0.26%	94.09%
52.0	87.060	7.660	2456.317	0.25%	94.38%
53.0	82.729	7.386	2463.703	0.24%	94.67%
54.0	79.079	7.132	2470.835	0.24%	94.94%
55.0	75.362	6.894	2477.729	0.23%	95.21%
56.0	72.027	6.660	2484.389	0.22%	95.46%
57.0	69.027	6.449	2490.838	0.21%	95.71%
58.0	66.087	6.248	2497.086	0.21%	95.95%
59.0	63.182	6.043	2503.13	0.20%	96.18%
60.0	60.746	5.855	2508.984	0.19%	96.41%
61.0	58.259	5.679	2514.664	0.19%	96.63%
62.0	55.830	5.498	2520.161	0.18%	96.84%
63.0	53.665	5.325	2525.486	0.18%	97.04%
64.0	51.434	5.157	2530.644	0.17%	97.24%
65.0	49.473	4.994	2535.637	0.17%	97.43%
66.0	47.367	4.832	2540.469	0.16%	97.62%
67.0	45.501	4.670	2545.139	0.15%	97.80%
68.0	43.746	4.521	2549.66	0.15%	97.97%
69.0	41.953	4.372	2554.032	0.14%	98.14%
70.0	40.263	4.223	2558.254	0.14%	98.30%
71.0	38.808	4.087	2562.341	0.14%	98.46%
72.0	37.133	3.949	2566.29	0.13%	98.61%
73.0	31.895	3.610	2569.899	0.12%	98.75%
74.0	27.696	3.133	2573.032	0.10%	98.87%
75.0	25.143	2.792	2575.824	0.09%	98.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	22.487	2.528	2578.352	0.08%	99.07%
77.0	20.944	2.316	2580.668	0.08%	99.16%
78.0	20.190	2.202	2582.87	0.07%	99.25%
79.0	19.598	2.138	2585.008	0.07%	99.33%
80.0	18.764	2.068	2587.076	0.07%	99.41%
81.0	16.950	1.931	2589.007	0.06%	99.48%
82.0	14.960	1.730	2590.737	0.06%	99.55%
83.0	13.292	1.536	2592.273	0.05%	99.61%
84.0	12.531	1.407	2593.68	0.05%	99.66%
85.0	12.451	1.363	2595.043	0.05%	99.72%
86.0	12.868	1.384	2596.427	0.05%	99.77%
87.0	13.585	1.448	2597.875	0.05%	99.82%
88.0	13.789	1.499	2599.375	0.05%	99.88%
89.0	13.965	1.521	2600.896	0.05%	99.94%
90.0	14.309	1.550	2602.446	0.05%	100.00%

Zonal flux distribution table

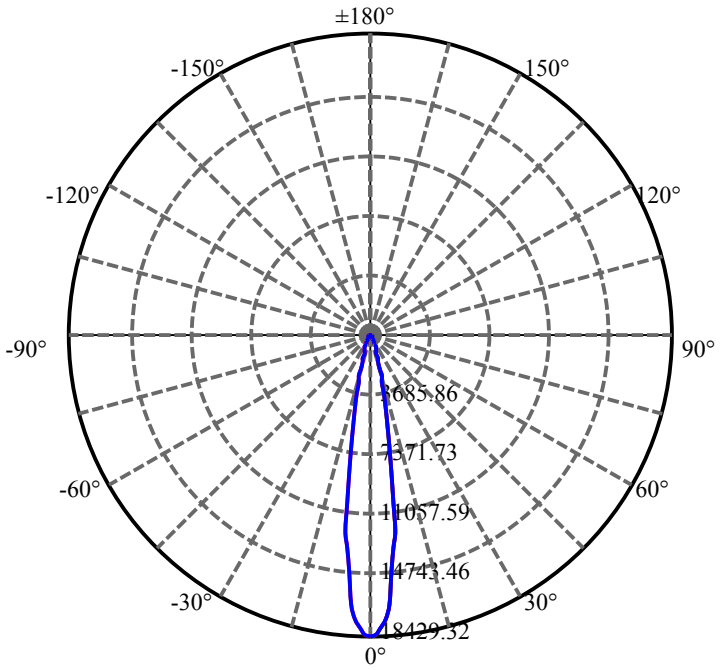
ZONAL LUMEN SUMMARY

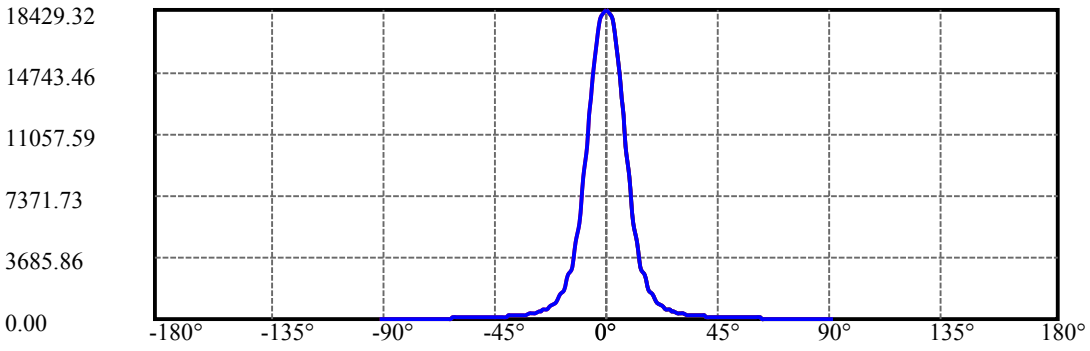
Zone	Lumens	%Lamp	%Fixt
0-30	2196.32	72.73%	84.39%
0-40	2342.94	77.59%	90.03%
0-60	2508.98	83.09%	96.41%
0-90	2600.90	86.13%	99.94%
0-120	2600.90	86.13%	99.94%
0-180	2602.45	86.18%	100.00%
60-90	91.91	3.04%	3.53%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.71	2081.96	68.94%	80.00%

ZONAL LUMEN SUMMARY

0-10	1156.74
10-20	773.14
20-30	266.44
30-40	146.62
40-50	97.77
50-60	68.28
60-70	49.27
70-80	28.82
80-90	13.82
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):

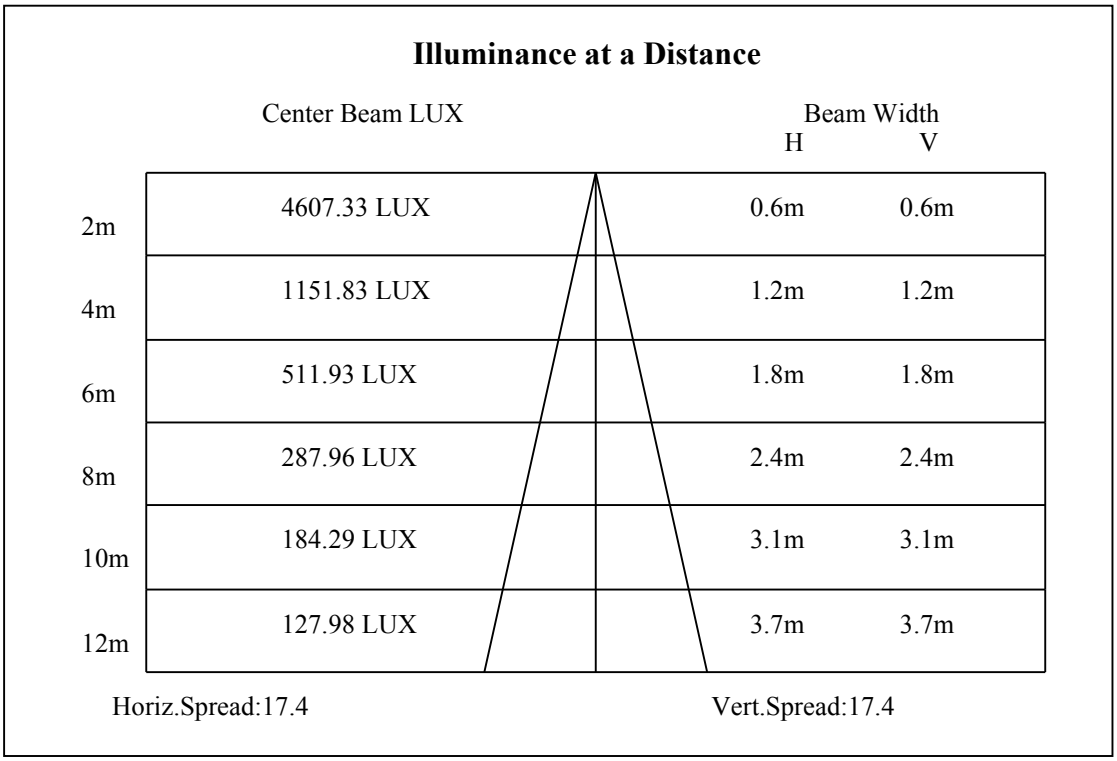
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:16.8 Right:16.8
:C90/270Left:16.8 Right:16.8

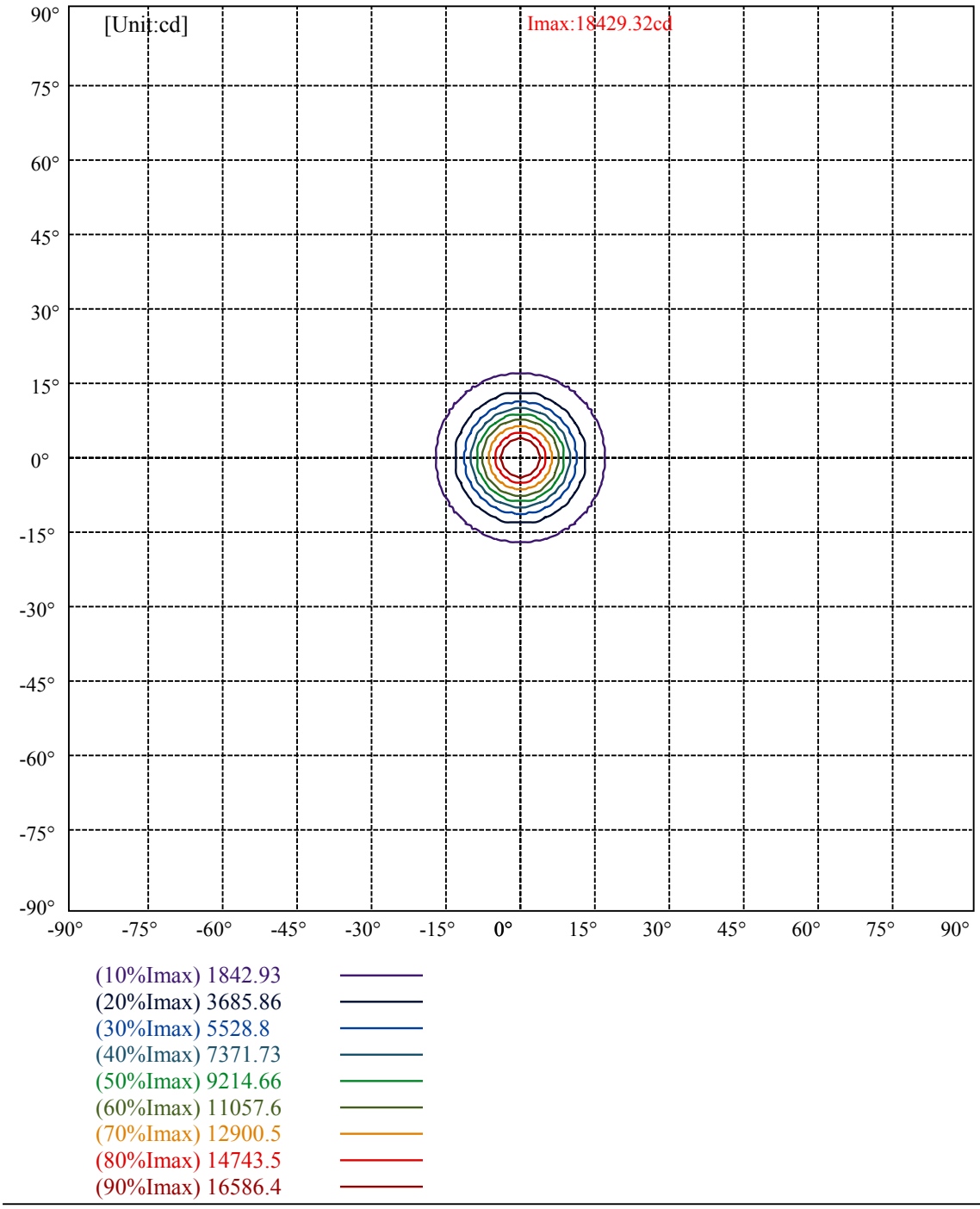
Beam Angle(50%Imax):C0/180Left:8.6 Right:8.6
:C90/270Left:8.6 Right:8.6

Lux distance Curve



Equipment: GMS1980 Date: 2024/6/25 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



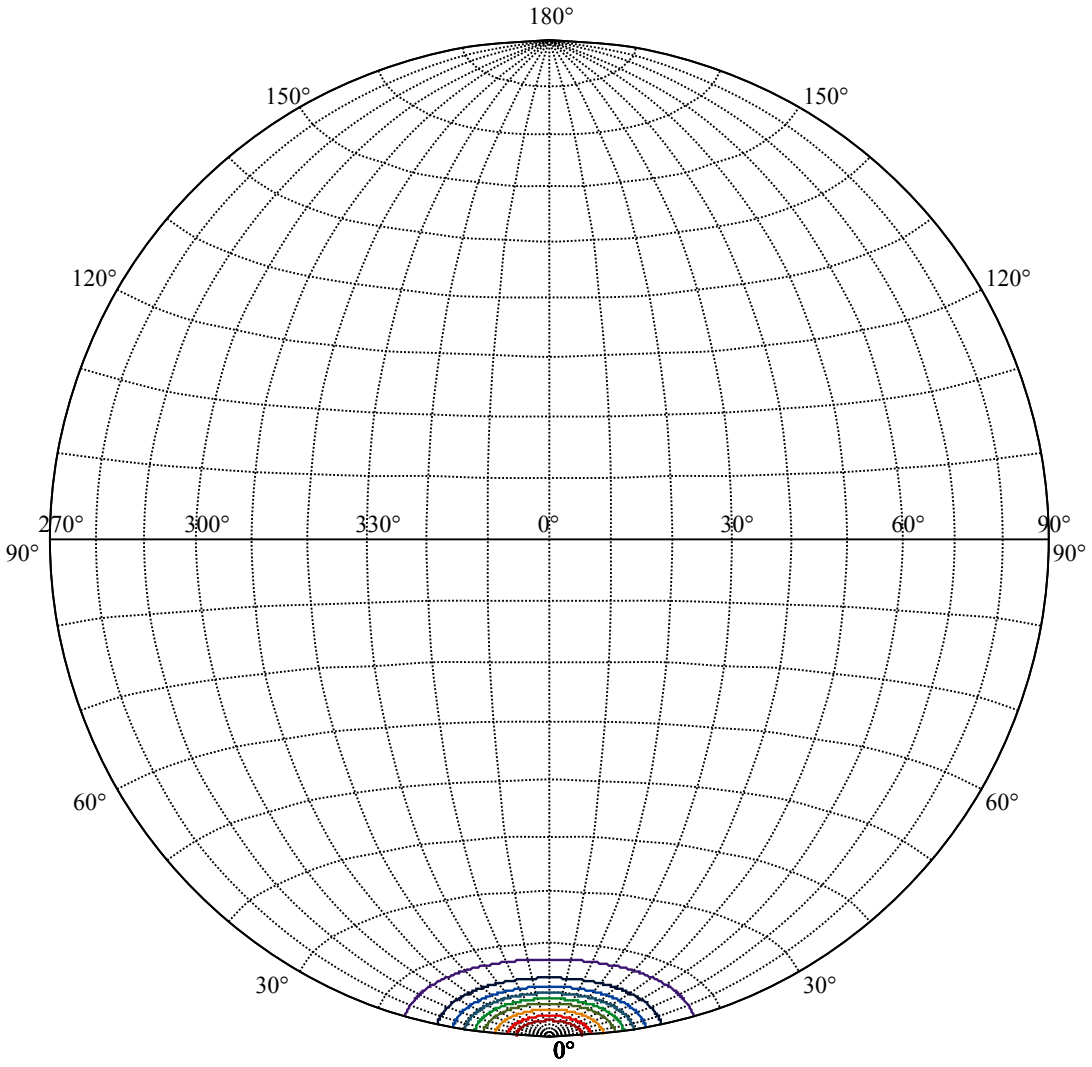
(10%Imax) 1842.93
(20%Imax) 3685.86
(30%Imax) 5528.8
(40%Imax) 7371.73
(50%Imax) 9214.66
(60%Imax) 11057.6
(70%Imax) 12900.5
(80%Imax) 14743.5
(90%Imax) 16586.4

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/6/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



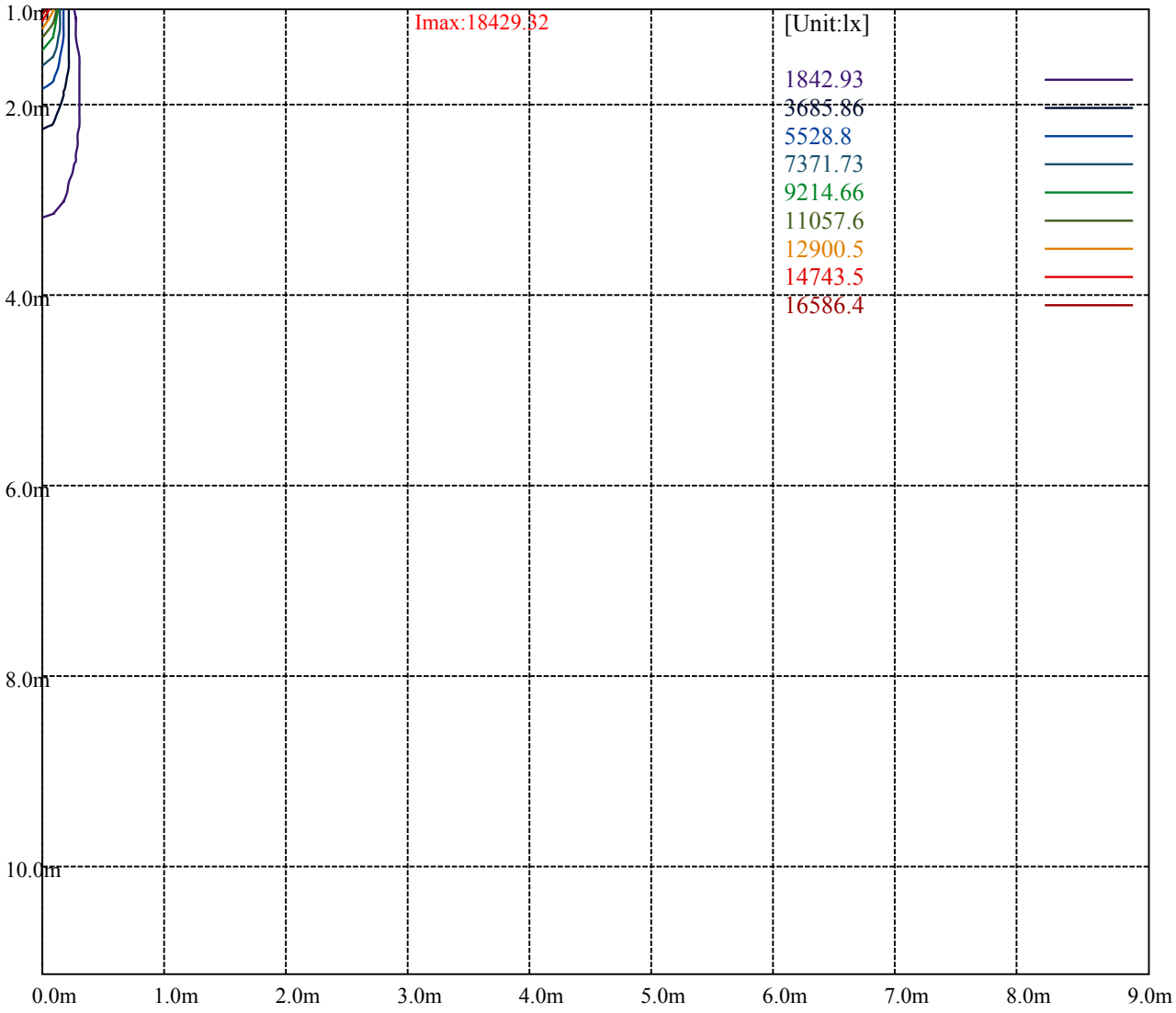
House [Unit:cd] Road

Imax:18429.32

(10%Imax) 1842.93
(20%Imax) 3685.86
(30%Imax) 5528.8
(40%Imax) 7371.73
(50%Imax) 9214.66
(60%Imax) 11057.6
(70%Imax) 12900.5
(80%Imax) 14743.5
(90%Imax) 16586.4

Equipment: GMS1980	Date: 2024/6/25	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/6/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

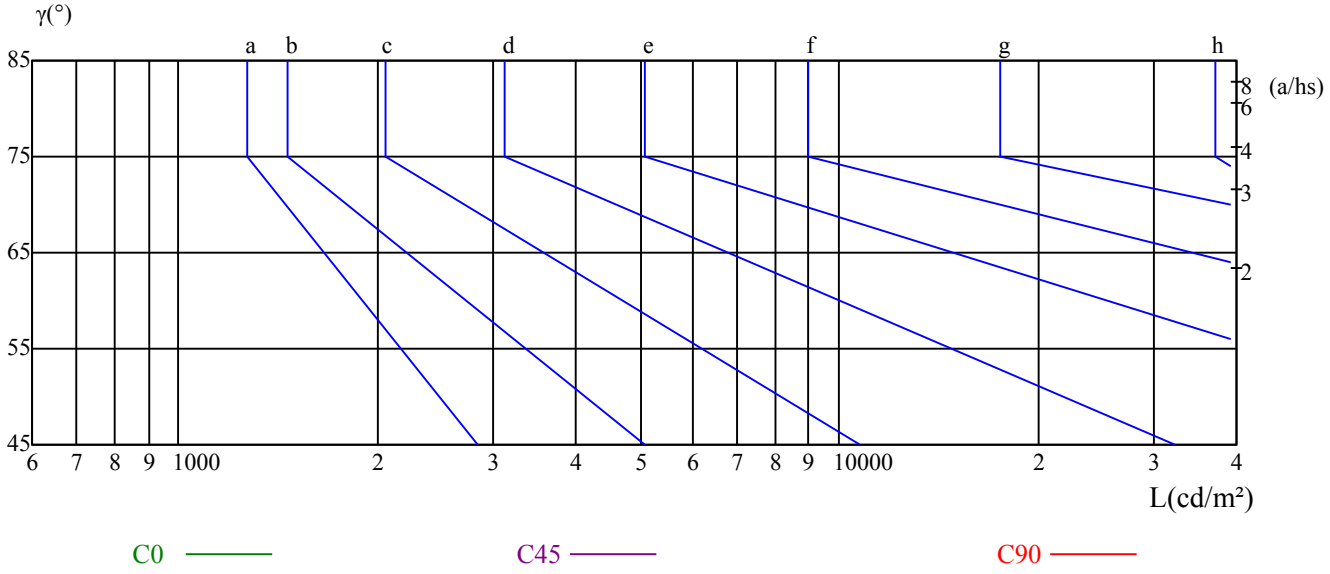
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

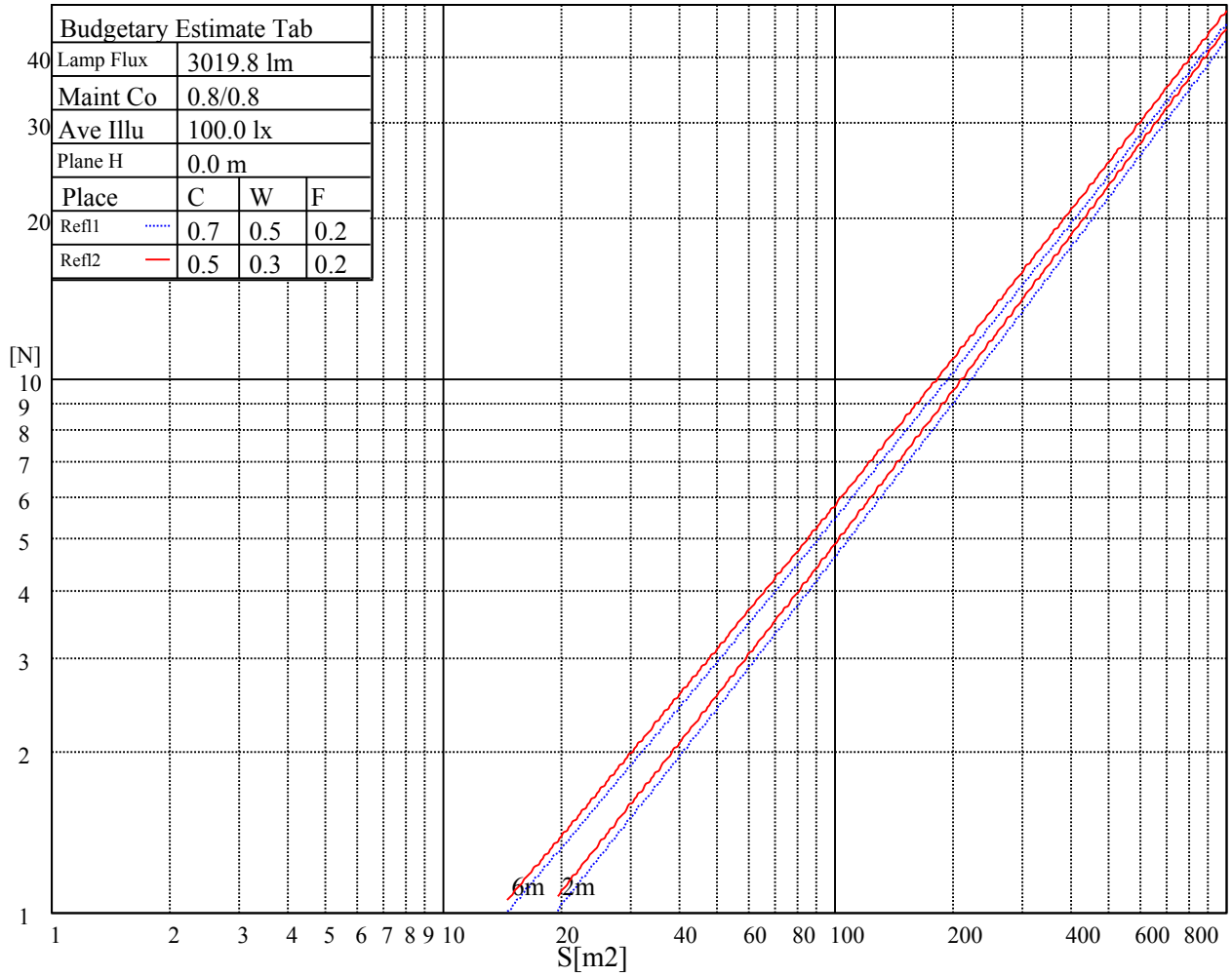
Luminance Limitting Curve



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

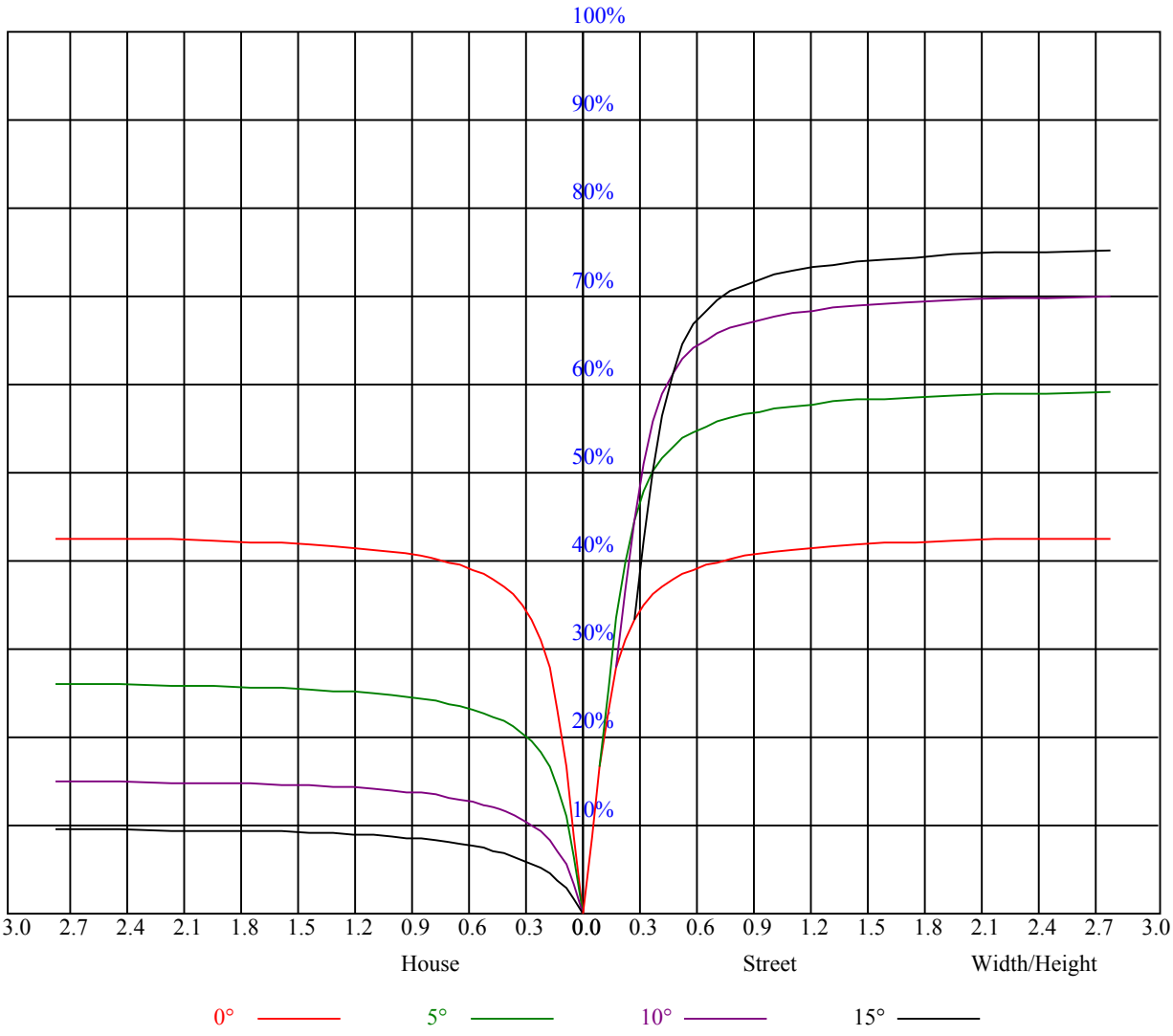


Equipment: GMS1980 Date: 2024/6/25 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

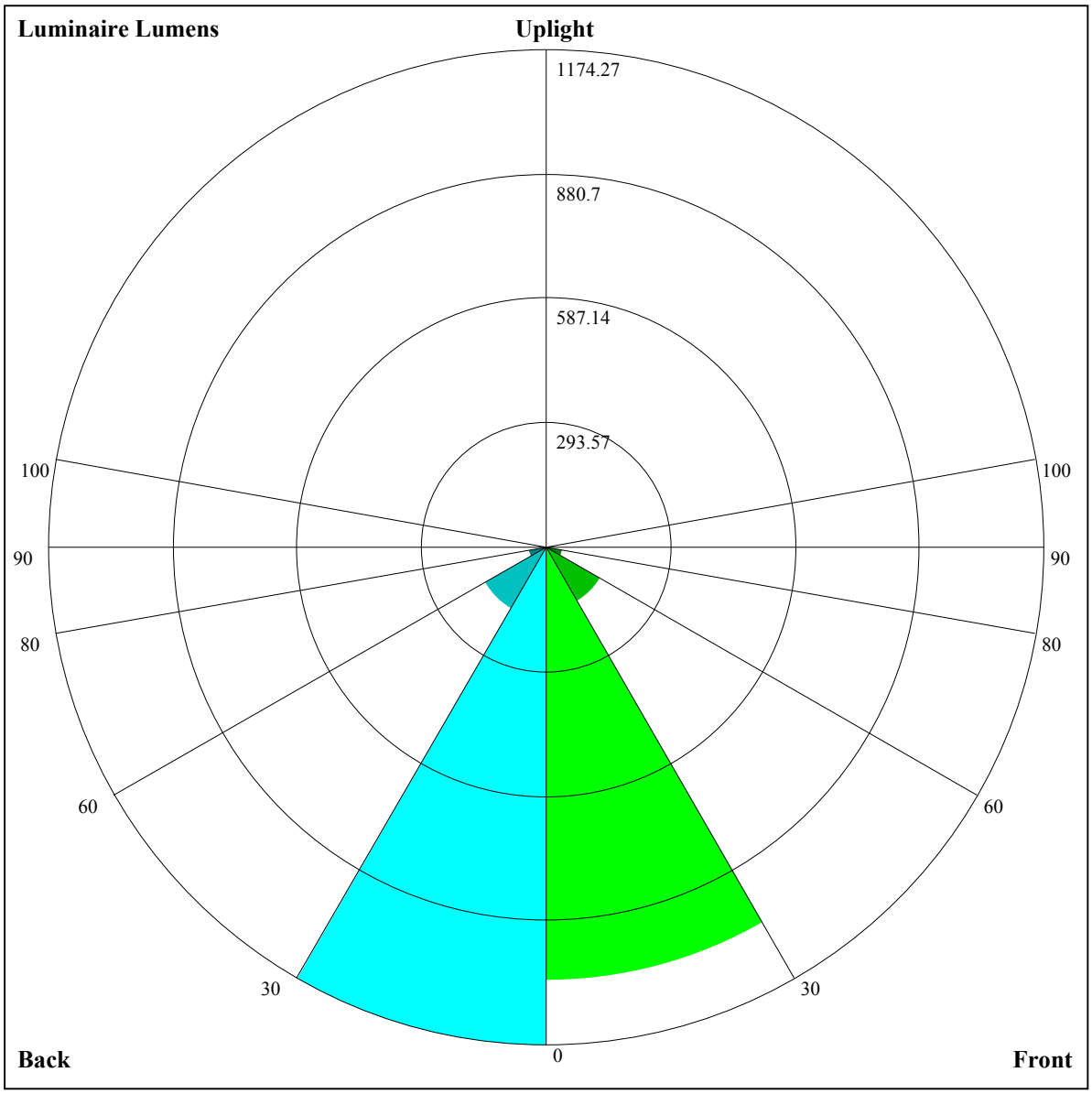
Utilization factor table for indoor luminaire

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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.95	0.93	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.82	0.81	0.80	0.78
3	0.87	0.83	0.81	0.86	0.82	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	0.76	0.82	0.79	0.76	0.80	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.74	0.72
5	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.72	0.75	0.73	0.71	0.70
6	0.77	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.68
7	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
8	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.70	0.67	0.65	0.64
9	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
10	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.67	0.64	0.62	0.61

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/6/25	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1023.38,FM=148.29,FH=39.78,FVH=7.54
BL=1174.27,BM=166.43,BH=42.87,BVH=7.8
UL=0,UH=0

BUG Rating:B3-U0-G0

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	18408.84	18098.67	17595.37	16582.94	15453.45	11481.00	11481.00	10191.17	8540.83
45.0	18502.47	18414.69	18122.08	17507.59	16699.98	15623.17	14283.00	12796.53	10742.39
90.0	18379.58	18069.41	17624.64	16934.07	15693.39	13422.72	11378.59	11378.59	9745.23
135.0	18426.39	18473.21	18239.12	17870.43	17255.94	16167.43	15043.79	13703.63	11784.09
180.0	18408.84	18531.73	18362.02	18040.15	17484.18	16436.63	15348.11	13990.39	12427.84
225.0	18502.47	18350.32	17987.48	17402.25	16313.73	15114.02	11477.49	11477.49	9703.67
270.0	18379.58	18455.66	18332.76	17946.51	17162.31	16214.24	14587.32	12972.10	11175.46
315.0	18426.39	18174.75	17566.11	16746.80	15634.87	11592.78	11592.78	10233.30	8506.30
360.0	18408.84	18098.67	17595.37	16582.94	15453.45	11481.00	11481.00	10191.17	8540.83

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6709.66	5464.30	4417.34	3602.12	2839.57	2363.78	1978.70	1665.61	1127.61
45.0	9133.02	7652.40	5978.66	4872.58	3778.21	3122.76	2982.31	2454.49	1812.50
90.0	7839.73	6479.08	5305.71	4135.84	3430.06	2894.00	2375.49	2051.86	1727.06
135.0	10151.31	8594.61	7166.67	5627.52	4626.79	3830.88	3210.54	2964.75	2964.75
180.0	10379.55	8764.33	7272.01	5697.75	4697.02	3696.28	3070.09	3070.09	2553.40
225.0	8034.61	6570.96	5097.95	4165.10	3421.87	2699.12	2243.23	1868.10	1161.61
270.0	8986.72	7383.20	5966.95	4814.06	3743.10	3093.50	3093.50	2484.92	1630.50
315.0	6941.41	5330.29	4335.41	3584.56	2854.20	2363.20	1937.74	1115.38	1115.38
360.0	6709.66	5464.30	4417.34	3602.12	2839.57	2363.78	1978.70	1665.61	1127.61

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1127.61	1013.49	848.52	741.30	648.66	551.87	488.72	424.93	384.08
45.0	1563.19	1359.54	1186.89	1004.89	880.24	776.65	666.63	592.89	530.27
90.0	1515.79	1149.09	1149.09	1047.61	904.35	805.80	720.41	645.44	569.72
135.0	1987.48	1696.04	1499.40	1329.10	1147.68	1021.28	910.08	792.45	712.28
180.0	1848.20	1600.06	1392.31	1216.16	1028.88	901.31	797.72	709.94	610.45
225.0	1161.61	1074.18	925.07	773.26	674.65	591.19	503.70	447.46	400.88
270.0	1316.23	1062.24	835.17	704.67	601.08	505.11	445.41	399.18	350.61
315.0	1014.72	815.75	695.54	601.49	508.91	449.45	400.76	361.96	330.89
360.0	1127.61	1013.49	848.52	741.30	648.66	551.87	488.72	424.93	384.08

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	349.67	320.06	296.59	272.31	255.57	240.94	227.01	211.38	199.50
45.0	477.02	422.01	387.48	350.02	324.86	296.77	296.77	273.59	243.69
90.0	515.99	468.53	419.90	386.13	350.02	324.68	301.68	278.10	261.13
135.0	640.88	579.43	515.06	471.75	432.54	400.35	364.07	338.90	311.98
180.0	546.66	493.40	437.22	398.60	364.65	330.13	306.13	296.77	296.77
225.0	353.07	321.52	294.37	271.54	246.91	230.93	216.88	204.89	190.96
270.0	320.18	299.11	299.11	244.98	227.83	213.55	201.79	188.38	178.73
315.0	297.82	276.40	257.56	238.77	225.96	213.67	200.50	191.25	180.31
360.0	349.67	320.06	296.59	272.31	255.57	240.94	227.01	211.38	199.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	187.80	174.10	162.99	152.39	140.22	131.09	120.61	112.83	105.69
45.0	229.35	213.20	200.56	188.21	177.44	165.44	156.78	148.82	141.10
90.0	245.15	230.75	213.55	200.73	190.20	179.96	168.08	159.53	149.41
135.0	296.18	296.18	254.63	234.91	220.40	203.60	191.78	180.31	169.83
180.0	244.16	227.95	209.80	195.58	182.06	169.66	155.20	144.61	135.13
225.0	181.83	172.99	162.75	154.97	145.72	138.99	132.96	125.88	120.79
270.0	170.18	161.87	155.20	149.47	142.27	137.35	131.50	126.94	122.43
315.0	171.76	163.28	155.49	146.19	138.82	131.91	125.59	118.68	113.59
360.0	187.80	174.10	162.99	152.39	140.22	131.09	120.61	112.83	105.69

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	99.08	92.00	87.32	83.10	79.12	75.20	70.81	67.59	63.50
45.0	132.67	126.41	118.92	112.95	107.39	100.42	95.10	90.30	84.62
90.0	142.33	135.25	127.23	121.49	116.05	110.78	104.87	100.72	96.97
135.0	157.54	148.65	140.51	132.85	123.78	116.93	110.61	104.81	98.32
180.0	124.30	116.58	109.38	101.48	96.21	91.47	85.97	81.81	77.83
225.0	115.99	111.54	107.21	101.83	97.79	93.99	89.89	85.21	81.58
270.0	118.80	115.00	109.91	106.04	102.06	98.61	94.34	90.53	86.79
315.0	108.50	102.47	98.03	93.58	88.08	84.10	80.06	75.49	72.22
360.0	99.08	92.00	87.32	83.10	79.12	75.20	70.81	67.59	63.50

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	60.57	57.82	54.54	52.09	49.74	46.88	44.83	42.66	40.61
45.0	80.70	76.96	73.62	69.70	66.72	63.73	60.98	57.64	55.01
90.0	93.52	89.07	85.85	82.87	79.06	76.37	73.86	70.75	68.41
135.0	93.69	88.19	84.16	80.41	76.14	72.68	69.58	66.42	62.74
180.0	74.15	69.70	66.36	63.44	60.51	57.24	54.66	52.14	49.04
225.0	77.78	74.85	72.16	69.23	66.72	64.43	61.80	59.75	57.82
270.0	82.98	79.88	76.37	73.97	71.46	68.76	67.13	65.60	64.49
315.0	69.23	66.42	63.15	60.51	58.35	55.36	53.14	51.09	48.52
360.0	60.57	57.82	54.54	52.09	49.74	46.88	44.83	42.66	40.61

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	38.27	36.46	34.70	31.72	28.62	26.45	24.40	22.94	21.59
45.0	52.44	49.51	47.29	44.54	42.43	40.50	38.33	36.11	34.29
90.0	66.31	63.79	62.09	60.63	59.40	57.70	56.36	55.01	53.84
135.0	59.87	57.29	54.66	51.44	49.04	46.64	43.66	41.08	38.33
180.0	46.64	43.72	41.43	39.27	37.16	34.59	31.37	28.44	26.45
225.0	55.65	53.20	51.21	49.22	47.46	45.00	42.84	41.02	39.56
270.0	63.67	63.03	62.27	61.68	60.92	60.34	59.34	57.82	56.53
315.0	46.47	44.48	42.14	40.44	38.98	38.74	39.33	39.68	39.85
360.0	38.27	36.46	34.70	31.72	28.62	26.45	24.40	22.94	21.59

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.84	18.32	16.85	15.57	14.98	14.63	14.22	13.81	13.58
45.0	32.25	30.31	27.92	26.28	23.53	21.48	20.95	20.54	19.96
90.0	51.56	37.81	35.23	30.43	27.45	26.22	25.63	24.99	22.94
135.0	36.40	34.35	31.78	29.26	26.74	24.05	22.59	21.48	20.83
180.0	24.11	22.47	20.95	19.37	17.26	15.86	14.92	14.51	14.22
225.0	38.39	32.13	29.50	26.22	23.00	21.42	20.66	20.01	19.14
270.0	55.19	52.61	33.94	31.37	26.51	24.23	23.41	22.94	22.24
315.0	39.33	27.15	25.40	22.65	20.42	19.66	19.14	18.49	17.21
360.0	19.84	18.32	16.85	15.57	14.98	14.63	14.22	13.81	13.58

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.11	12.70	12.11	11.53	10.71	10.59	10.71	10.71	10.59
45.0	18.43	15.39	13.64	12.41	13.05	13.69	16.27	17.03	17.26
90.0	18.02	15.04	12.58	11.94	11.29	11.12	10.89	10.77	10.65
135.0	19.90	16.80	15.04	13.34	13.23	13.64	15.45	16.39	16.44
180.0	13.81	13.52	13.11	12.47	11.82	10.65	10.65	10.77	10.65
225.0	16.50	14.81	12.82	13.52	14.51	17.09	18.14	18.14	18.90
270.0	20.89	17.62	14.69	12.35	11.88	11.24	11.00	10.77	10.59
315.0	14.92	13.81	12.35	12.70	13.11	14.92	15.57	15.74	16.62
360.0	13.11	12.70	12.11	11.53	10.71	10.59	10.71	10.71	10.59

Intensity data(cd)

C/γ(°)	90.0
0.0	10.65
45.0	18.20
90.0	10.59
135.0	17.38
180.0	10.59
225.0	19.02
270.0	10.48
315.0	17.56
360.0	10.65