NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 2-2684-L
Luminaire: 92.70.429.00
Report No: 2024410-B024
Ballast type: AC

Test No: 2024410-C024	Voltage(V): 34.820
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 2713.0	Power (W): 18.454
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2317.28, Efficiency(%): 85.41% , Luminous Efficacy(lm/W): 125.57
Central intensity(cd): 5433.727, Maximum intensity(cd): 5433.727
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=34.0
[C90/270]Total=34.0
Field angle(10%Imax): [C0/180]Total=64.2
[C90/270]Total=64.2
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.41%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.993%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5433.726	0.000	0	0.00%	0.00%
1.0	5424.582	5.195	5.195	0.19%	0.22%
2.0	5394.809	15.529	20.725	0.57%	0.89%
3.0	5333.214	25.658	46.382	0.95%	2.00%
4.0	5254.794	35.441	81.824	1.31%	3.53%
5.0	5141.626	44.725	126.549	1.65%	5.46%
6.0	5016.022	53.381	179.93	1.97%	7.76%
7.0	4871.545	61.372	241.302	2.26%	10.41%
8.0	4706.145	68.546	309.848	2.53%	13.37%
9.0	4527.652	74.835	384.682	2.76%	16.60%
10.0	4318.726	80.056	464.739	2.95%	20.06%
11.0	4113.605	84.256	548.995	3.11%	23.69%
12.0	3872.346	87.298	636.293	3.22%	27.46%
13.0	3653.033	89.307	725.6	3.29%	31.31%
14.0	3412.140	90.434	816.034	3.33%	35.22%
15.0	3176.367	90.450	906.484	3.33%	39.12%
16.0	2937.742	89.589	996.073	3.30%	42.98%
17.0	2713.527	88.005	1084.078	3.24%	46.78%
18.0	2508.260	86.096	1170.174	3.17%	50.50%
19.0	2311.624	83.856	1254.03	3.09%	54.12%
20.0	2138.398	81.448	1335.478	3.00%	57.63%
21.0	1977.314	79.030	1414.508	2.91%	61.04%
22.0	1814.549	76.199	1490.707	2.81%	64.33%
23.0	1671.461	73.146	1563.853	2.70%	67.49%
24.0	1511.870	69.599	1633.452	2.57%	70.49%
25.0	1354.233	65.169	1698.621	2.40%	73.30%
26.0	1225.205	60.888	1759.509	2.24%	75.93%
27.0	1131.306	57.653	1817.161	2.13%	78.42%
28.0	1013.602	54.305	1871.466	2.00%	80.76%
29.0	894.612	49.924	1921.39	1.84%	82.92%
30.0	772.680	45.017	1966.407	1.66%	84.86%
31.0	660.551	39.885	2006.292	1.47%	86.58%
32.0	551.538	34.725	2041.016	1.28%	88.08%
33.0	459.958	29.799	2070.816	1.10%	89.36%
34.0	386.680	25.622	2096.437	0.94%	90.47%
35.0	320.996	21.978	2118.415	0.81%	91.42%
36.0	283.922	19.261	2137.676	0.71%	92.25%
37.0	236.350	16.968	2154.644	0.63%	92.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	193.329	14.342	2168.986	0.53%	93.60%
39.0	158.764	12.018	2181.004	0.44%	94.12%
40.0	130.586	10.091	2191.096	0.37%	94.55%
41.0	109.035	8.533	2199.628	0.31%	94.92%
42.0	92.283	7.314	2206.943	0.27%	95.24%
43.0	78.581	6.329	2213.272	0.23%	95.51%
44.0	68.603	5.555	2218.827	0.20%	95.75%
45.0	60.498	4.961	2223.789	0.18%	95.97%
46.0	54.294	4.489	2228.278	0.17%	96.16%
47.0	49.598	4.132	2232.41	0.15%	96.34%
48.0	45.516	3.845	2236.255	0.14%	96.50%
49.0	42.385	3.610	2239.865	0.13%	96.66%
50.0	39.751	3.425	2243.289	0.13%	96.81%
51.0	37.491	3.268	2246.557	0.12%	96.95%
52.0	35.421	3.129	2249.686	0.12%	97.08%
53.0	33.519	2.999	2252.685	0.11%	97.21%
54.0	31.887	2.883	2255.568	0.11%	97.34%
55.0	30.256	2.774	2258.341	0.10%	97.46%
56.0	28.815	2.669	2261.011	0.10%	97.57%
57.0	27.476	2.574	2263.585	0.09%	97.68%
58.0	26.167	2.481	2266.065	0.09%	97.79%
59.0	24.967	2.391	2268.456	0.09%	97.89%
60.0	23.928	2.310	2270.766	0.09%	97.99%
61.0	22.963	2.238	2273.003	0.08%	98.09%
62.0	21.968	2.165	2275.168	0.08%	98.18%
63.0	21.105	2.095	2277.263	0.08%	98.27%
64.0	20.241	2.029	2279.292	0.07%	98.36%
65.0	19.517	1.968	2281.26	0.07%	98.45%
66.0	18.800	1.912	2283.172	0.07%	98.53%
67.0	18.164	1.859	2285.03	0.07%	98.61%
68.0	17.542	1.809	2286.839	0.07%	98.69%
69.0	16.979	1.761	2288.6	0.06%	98.76%
70.0	16.467	1.718	2290.318	0.06%	98.84%
71.0	15.962	1.676	2291.994	0.06%	98.91%
72.0	15.428	1.632	2293.626	0.06%	98.98%
73.0	14.974	1.590	2295.216	0.06%	99.05%
74.0	14.579	1.554	2296.77	0.06%	99.11%
75.0	14.192	1.520	2298.29	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.789	1.485	2299.775	0.05%	99.24%
77.0	13.446	1.452	2301.227	0.05%	99.31%
78.0	13.124	1.422	2302.649	0.05%	99.37%
79.0	12.729	1.389	2304.038	0.05%	99.43%
80.0	12.370	1.353	2305.392	0.05%	99.49%
81.0	12.063	1.321	2306.713	0.05%	99.54%
82.0	11.778	1.293	2308.006	0.05%	99.60%
83.0	11.368	1.258	2309.264	0.05%	99.65%
84.0	11.002	1.219	2310.483	0.04%	99.71%
85.0	10.739	1.187	2311.669	0.04%	99.76%
86.0	10.519	1.162	2312.831	0.04%	99.81%
87.0	10.307	1.140	2313.971	0.04%	99.86%
88.0	10.110	1.118	2315.089	0.04%	99.91%
89.0	9.963	1.100	2316.19	0.04%	99.95%
90.0	9.898	1.089	2317.279	0.04%	100.00%

Zonal flux distribution table

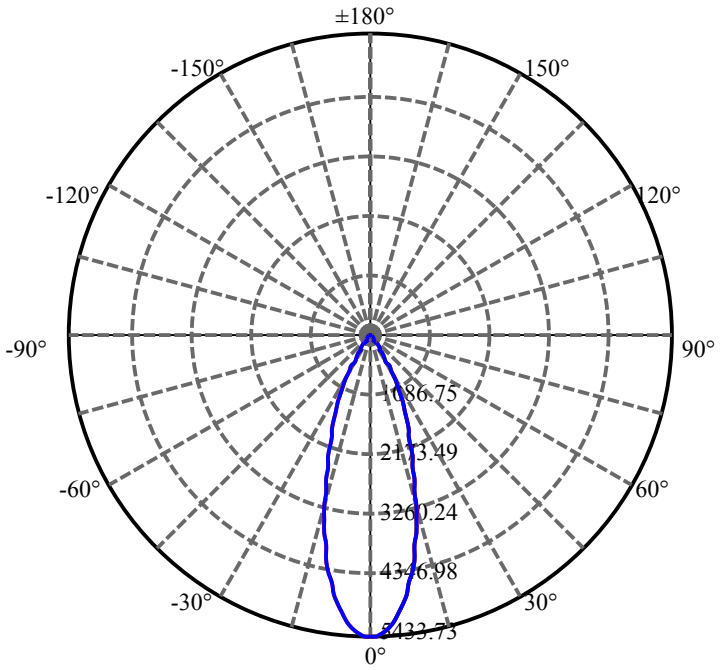
ZONAL LUMEN SUMMARY

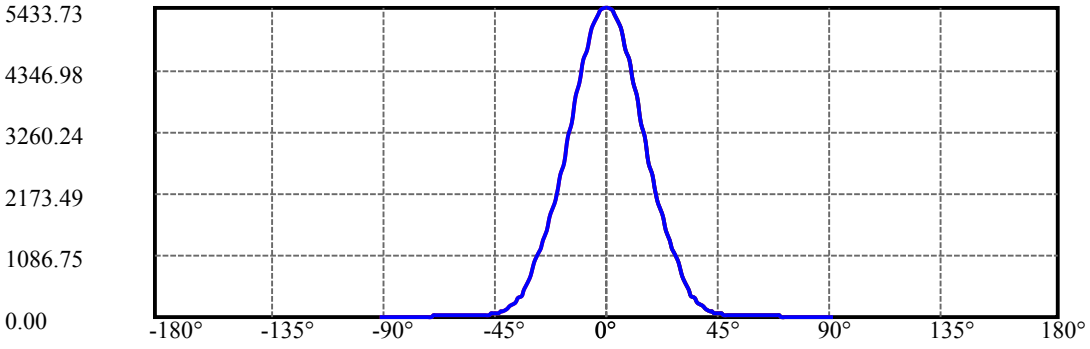
Zone	Lumens	%Lamp	%Fixt
0-30	1966.41	72.48%	84.86%
0-40	2191.10	80.76%	94.55%
0-60	2270.77	83.70%	97.99%
0-90	2316.19	85.37%	99.95%
0-120	2316.19	85.37%	99.95%
0-180	2317.28	85.41%	100.00%
60-90	45.42	1.67%	1.96%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.68	1853.82	68.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	464.74
10-20	870.74
20-30	630.93
30-40	224.69
40-50	52.19
50-60	27.48
60-70	19.55
70-80	15.07
80-90	10.80
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):

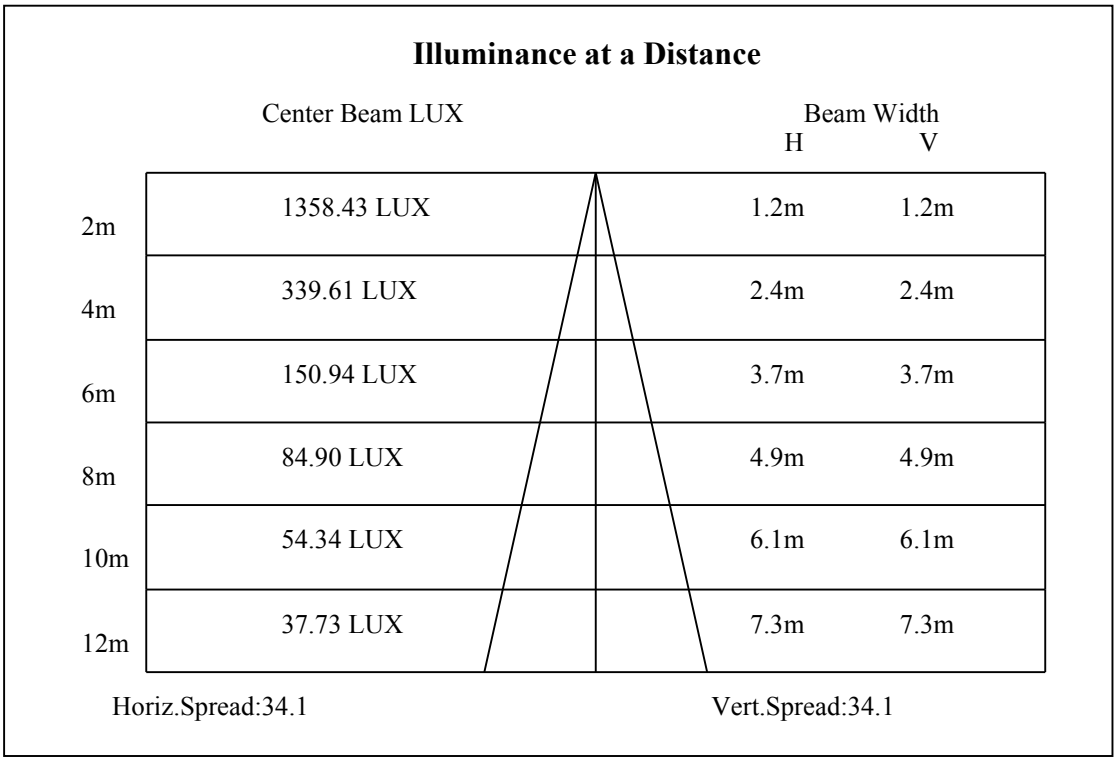
C0/C180:

C90/C270:

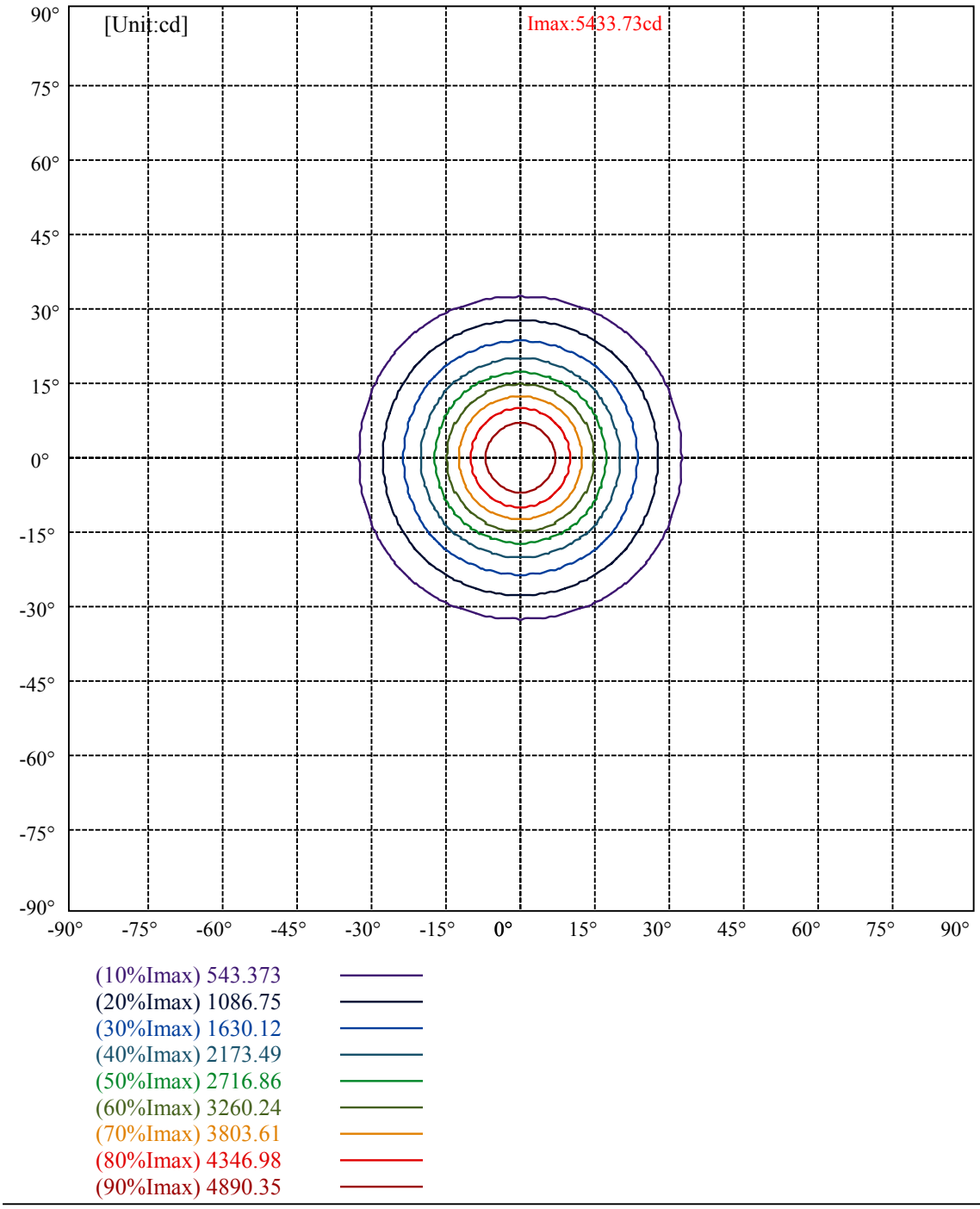
Field angle(10%Imax):C0/180Left:32.1 Right:32.1
:C90/270Left:32.1 Right:32.1

Beam Angle(50%Imax):C0/180Left:17.0 Right:17.0
:C90/270Left:17.0 Right:17.0

Lux distance Curve



ISO-Intensity(V-H)



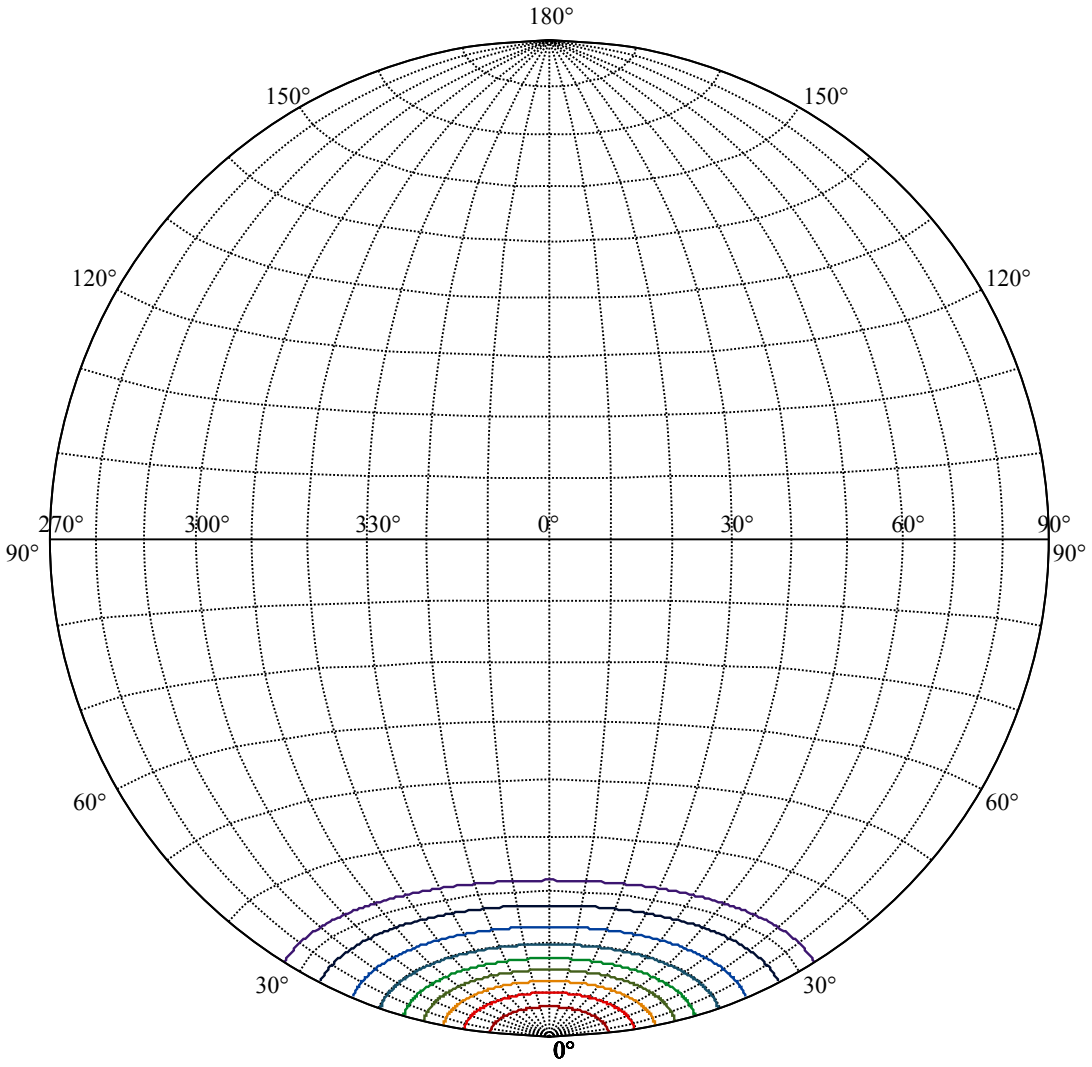
(10%Imax) 543.373
(20%Imax) 1086.75
(30%Imax) 1630.12
(40%Imax) 2173.49
(50%Imax) 2716.86
(60%Imax) 3260.24
(70%Imax) 3803.61
(80%Imax) 4346.98
(90%Imax) 4890.35

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
Humidity(%): 60.0%

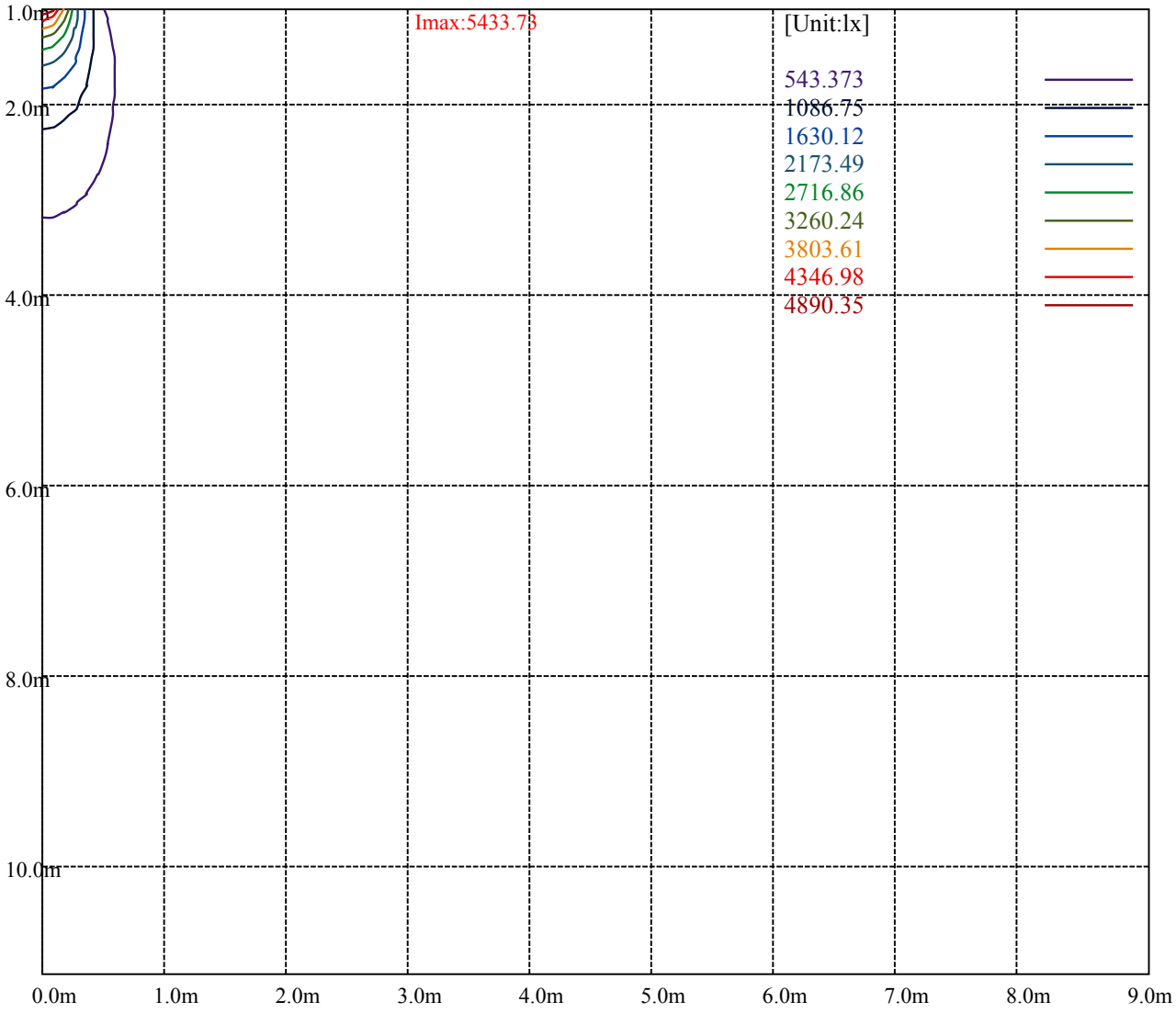
Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



Equipment: GMS1980	Date: 2024/4/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2684-L

Luminance Limitting Curve(no luminous side)

Luminance Table

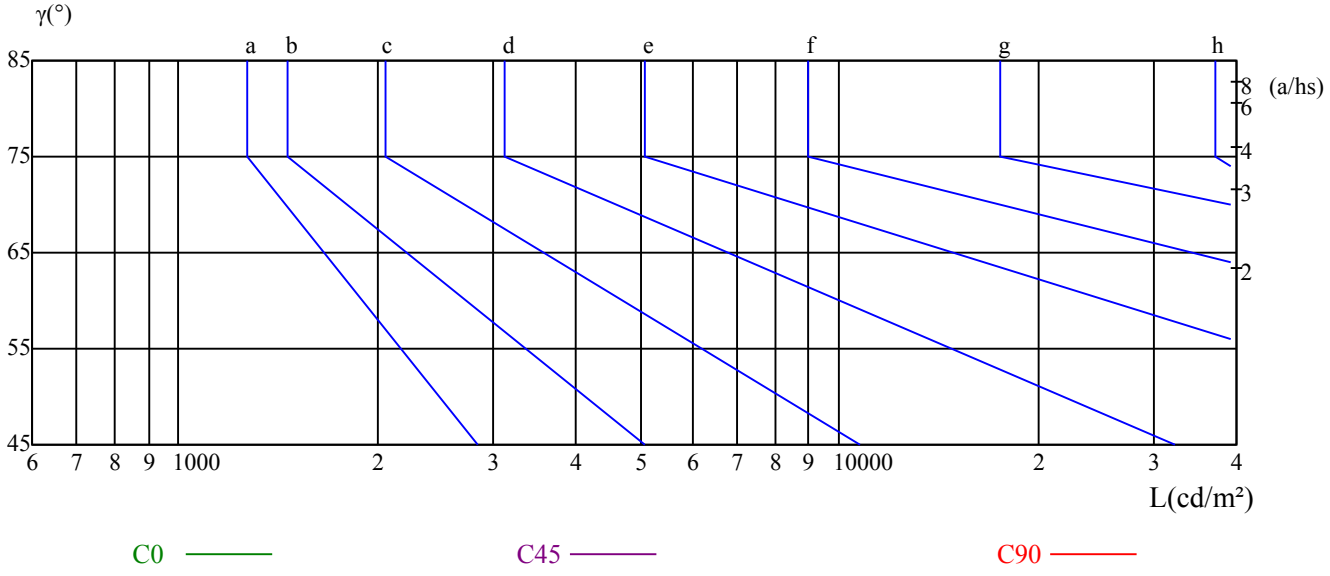
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

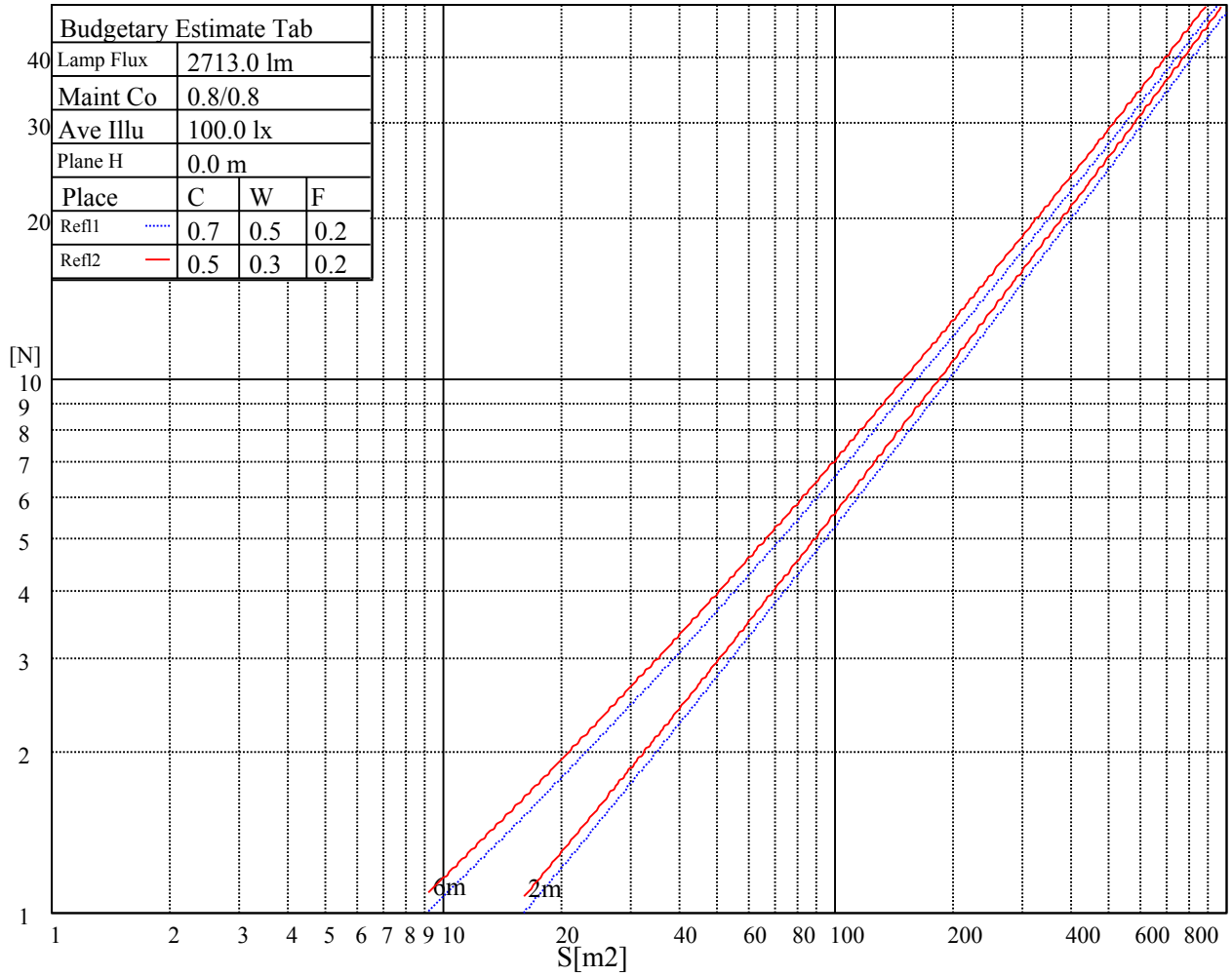


Equipment: GMS1980 Date: 2024/4/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

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

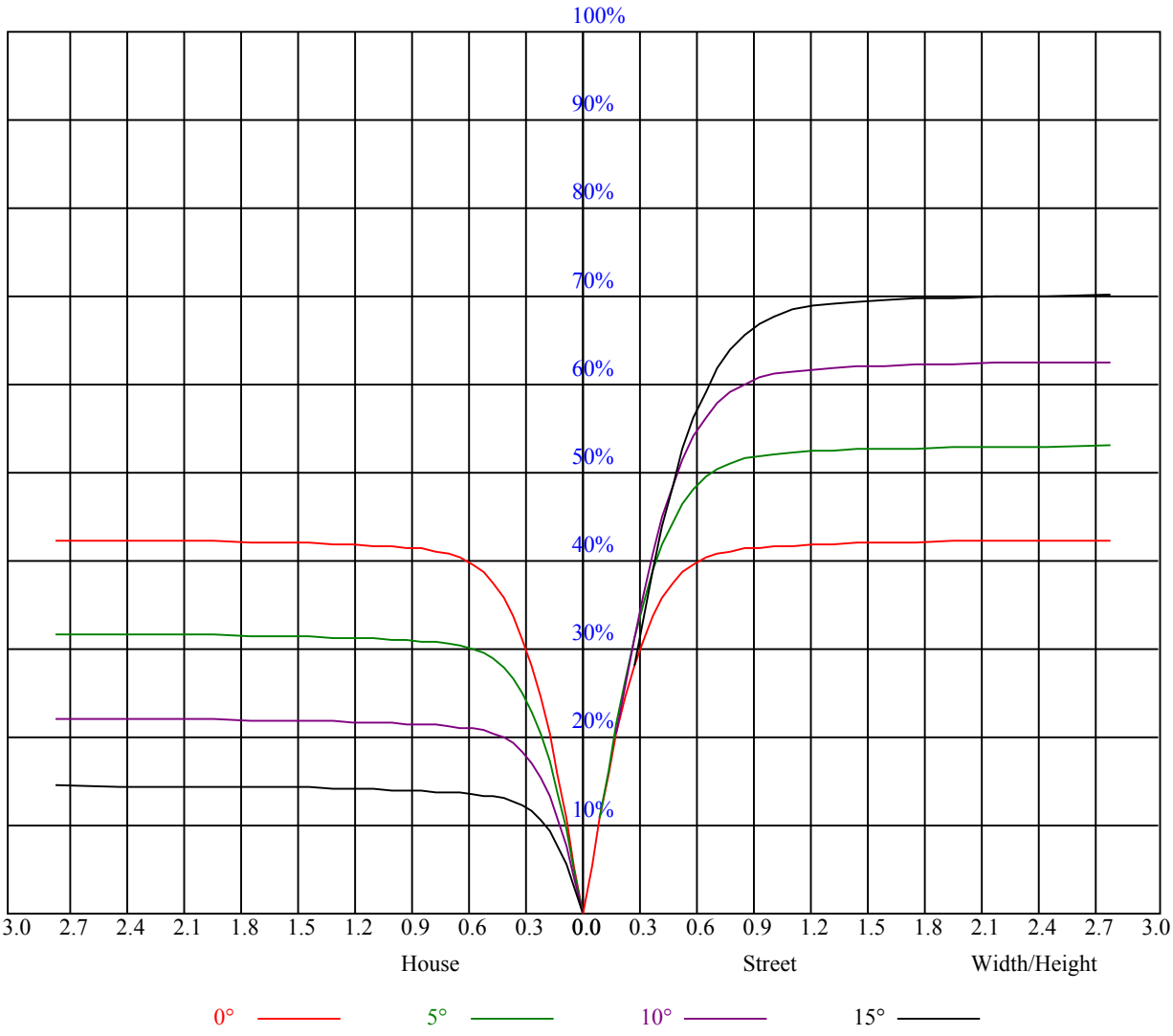


Equipment: GMS1980 Date: 2024/4/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

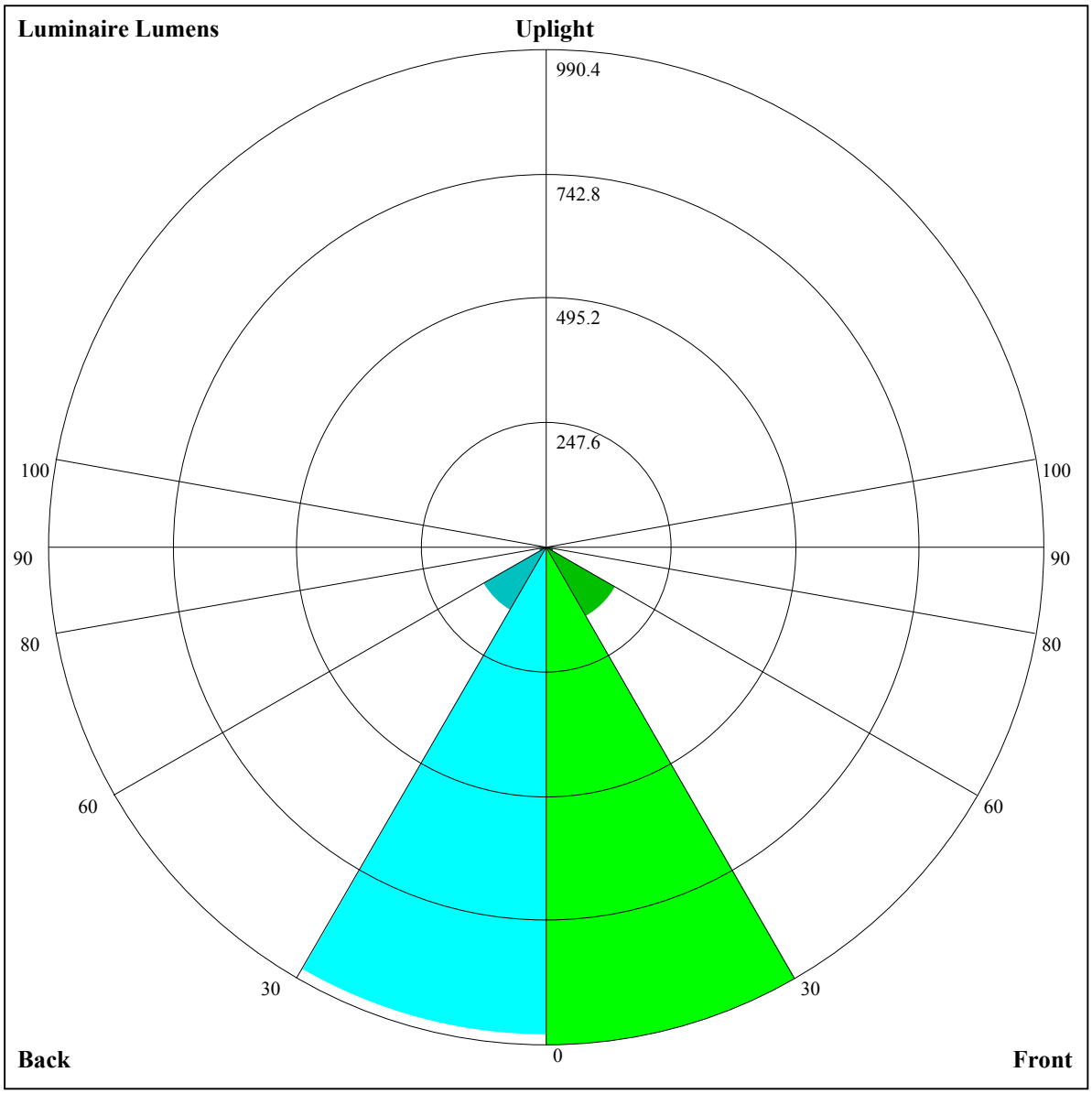
Utilization factor table for indoor luminaire

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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81
2	0.89	0.86	0.83	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.70	0.68
5	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
7	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
8	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54
10	0.60	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=990.4,FM=159.93,FH=17.41,FVH=5.96
BL=972.81,BM=145.99,BH=17.26,BVH=5.95
UL=0,UH=0

BUG Rating:B2-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	5427.44	5397.00	5346.67	5272.35	5190.42	5094.44	4983.83	4876.74	4735.11
45.0	5432.70	5440.31	5433.87	5389.40	5322.09	5247.19	5157.06	5010.17	4874.40
90.0	5457.87	5466.06	5450.84	5385.88	5295.76	5156.48	5034.75	4891.95	4683.03
135.0	5416.90	5449.67	5492.98	5490.64	5449.67	5310.39	5184.57	5044.11	4841.04
180.0	5427.44	5444.41	5440.31	5385.88	5300.44	5182.81	5063.43	4906.00	4736.87
225.0	5432.70	5387.64	5307.46	5214.41	5118.44	4980.91	4799.49	4643.82	4468.84
270.0	5457.87	5427.44	5387.64	5300.44	5227.29	5133.07	5021.87	4843.38	4709.36
315.0	5416.90	5384.13	5298.69	5226.70	5134.24	5027.73	4883.18	4756.18	4600.51
360.0	5427.44	5397.00	5346.67	5272.35	5190.42	5094.44	4983.83	4876.74	4735.11

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4531.46	4340.09	4132.92	3860.79	3633.14	3355.15	3135.11	2922.09	2672.78
45.0	4733.36	4573.01	4407.97	4170.96	3960.28	3690.49	3461.66	3236.94	2973.00
90.0	4502.19	4320.19	4086.10	3884.20	3679.95	3462.25	3170.81	2950.18	2734.23
135.0	4671.91	4477.61	4277.47	4018.80	3821.58	3624.36	3413.09	3126.92	2896.92
180.0	4516.24	4309.66	4112.43	3912.29	3670.00	3440.60	3211.77	2926.77	2719.01
225.0	4288.59	4045.13	3827.43	3609.14	3382.66	3104.68	2890.48	2683.90	2443.96
270.0	4564.81	4320.19	4115.36	3849.08	3623.77	3390.85	3163.78	2892.83	2699.12
315.0	4412.66	4163.93	3949.16	3673.52	3452.89	3228.74	2964.22	2762.32	2569.20
360.0	4531.46	4340.09	4132.92	3860.79	3633.14	3355.15	3135.11	2922.09	2672.78

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2484.92	2307.60	2145.49	1961.73	1824.79	1691.36	1566.71	1415.13	1152.95
45.0	2768.17	2578.56	2359.69	2194.65	2044.83	1900.87	1727.06	1598.31	1473.66
90.0	2538.18	2315.21	2160.71	2012.65	1824.79	1685.51	1553.25	1303.35	1154.06
135.0	2632.40	2441.62	2271.32	2076.44	1922.52	1776.22	1634.59	1461.37	1332.03
180.0	2525.30	2291.80	2125.01	1974.61	1784.41	1634.59	1507.60	1377.09	1220.25
225.0	2265.46	2058.29	1900.28	1750.47	1577.83	1447.32	1138.56	1138.56	1079.04
270.0	2514.19	2326.91	2121.50	1969.34	1827.72	1651.56	1512.28	1386.46	1236.05
315.0	2337.45	2173.00	2023.18	1878.63	1709.50	1584.26	1454.93	1153.60	1153.60
360.0	2484.92	2307.60	2145.49	1961.73	1824.79	1691.36	1566.71	1415.13	1152.95

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1152.95	1071.08	936.01	826.98	716.02	586.40	494.16	416.50	337.85
45.0	1349.59	1201.53	1087.41	949.88	842.78	736.86	602.84	507.45	427.86
90.0	1122.99	1008.11	899.49	791.63	660.19	561.87	472.10	397.02	322.05
135.0	1206.79	1089.75	946.37	837.52	728.66	598.16	504.52	426.10	347.10
180.0	1098.53	982.65	870.87	726.32	619.23	522.08	420.84	356.46	302.03
225.0	938.93	826.63	713.80	606.23	488.49	411.00	348.21	283.66	240.88
270.0	1111.40	970.36	858.58	738.61	630.93	514.47	430.78	361.14	309.06
315.0	1069.26	958.72	844.36	704.26	598.10	481.46	406.20	345.11	281.14
360.0	1152.95	1071.08	936.01	826.98	716.02	586.40	494.16	416.50	337.85

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	285.00	241.41	194.29	163.39	138.52	117.63	96.97	83.69	73.33
45.0	363.48	296.18	296.18	240.18	172.64	139.63	117.86	100.19	85.68
90.0	272.71	231.28	195.11	156.37	131.85	111.49	91.12	78.42	66.07
135.0	306.72	306.72	196.58	164.45	138.05	112.25	95.57	81.99	71.22
180.0	302.03	203.54	171.18	137.41	115.76	97.56	83.04	69.23	60.98
225.0	203.95	164.57	138.46	112.60	95.68	82.34	71.40	61.45	55.71
270.0	297.94	243.28	181.24	153.68	131.32	107.21	91.65	76.72	67.71
315.0	239.53	203.83	173.58	142.03	120.85	104.17	90.65	76.96	68.12
360.0	285.00	241.41	194.29	163.39	138.52	117.63	96.97	83.69	73.33

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	64.96	57.12	52.20	47.17	43.77	40.85	37.98	36.05	34.24
45.0	71.75	63.20	56.65	50.39	46.53	42.55	39.91	37.75	35.41
90.0	58.76	53.14	48.81	44.71	42.08	39.68	37.63	35.41	33.65
135.0	60.92	55.01	50.39	46.64	42.90	40.44	38.22	35.93	34.24
180.0	54.78	50.10	45.71	42.96	40.61	38.10	36.23	34.24	32.60
225.0	51.21	47.52	43.83	41.32	39.15	37.22	35.05	33.36	31.37
270.0	60.45	53.96	49.57	46.12	42.43	40.03	37.86	35.99	33.77
315.0	61.16	54.31	49.63	44.83	41.61	39.15	37.04	34.65	32.89
360.0	64.96	57.12	52.20	47.17	43.77	40.85	37.98	36.05	34.24

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.13	30.67	29.14	27.74	26.28	25.16	24.05	23.12	22.06
45.0	33.65	32.07	30.61	29.20	27.56	26.34	25.28	24.23	22.94
90.0	32.07	30.31	28.85	27.56	26.16	25.05	24.05	22.82	22.00
135.0	32.66	30.78	29.44	28.09	26.51	25.46	24.46	23.47	22.36
180.0	31.13	29.44	28.09	26.86	25.81	24.52	23.53	22.65	21.83
225.0	30.02	28.68	27.10	25.93	24.93	23.88	22.77	22.00	21.07
270.0	32.13	30.61	29.20	27.56	26.39	24.99	23.94	22.94	21.89
315.0	31.31	29.50	28.09	26.86	25.69	24.35	23.35	22.47	21.59
360.0	32.13	30.67	29.14	27.74	26.28	25.16	24.05	23.12	22.06

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.24	20.48	19.61	18.96	18.14	17.56	17.03	16.50	15.92
45.0	22.06	21.07	20.31	19.43	18.90	18.32	17.73	17.09	16.56
90.0	21.19	20.19	19.55	18.90	18.32	17.56	17.03	16.56	16.09
135.0	21.59	20.78	19.96	19.20	18.61	18.02	17.32	16.80	16.27
180.0	20.83	20.07	19.37	18.61	18.02	17.38	16.80	16.39	15.92
225.0	20.25	19.37	18.79	18.14	17.38	16.91	16.33	15.86	15.33
270.0	21.07	20.19	19.55	18.79	18.20	17.56	17.03	16.44	16.04
315.0	20.60	19.78	19.02	18.38	17.73	17.03	16.56	16.09	15.57
360.0	21.24	20.48	19.61	18.96	18.14	17.56	17.03	16.50	15.92

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.39	14.98	14.63	14.22	13.75	13.46	13.11	12.70	12.29
45.0	16.04	15.51	14.98	14.63	14.28	13.87	13.46	13.11	12.87
90.0	15.45	15.04	14.57	14.22	13.87	13.46	13.11	12.82	12.41
135.0	15.74	15.27	14.92	14.40	14.10	13.75	13.46	13.05	12.64
180.0	15.27	14.92	14.51	14.16	13.69	13.34	13.11	12.76	12.23
225.0	14.98	14.46	14.10	13.75	13.40	12.99	12.64	12.23	12.00
270.0	15.51	14.92	14.63	14.22	13.75	13.46	13.17	12.76	12.35
315.0	15.04	14.69	14.28	13.93	13.46	13.23	12.93	12.41	12.17
360.0	15.39	14.98	14.63	14.22	13.75	13.46	13.11	12.70	12.29

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.06	11.76	11.29	11.00	10.77	10.53	10.24	10.01	9.89
45.0	12.41	12.17	11.70	11.41	10.94	10.77	10.53	10.24	10.12
90.0	12.06	11.76	11.47	11.00	10.83	10.65	10.36	10.18	9.95
135.0	12.29	12.06	11.70	11.18	10.89	10.65	10.48	10.24	10.30
180.0	12.00	11.70	11.29	10.89	10.71	10.42	10.24	10.24	9.83
225.0	11.76	11.35	10.94	10.77	10.48	10.30	10.18	9.89	9.95
270.0	12.06	11.76	11.41	10.94	10.71	10.48	10.24	10.12	9.83
315.0	11.88	11.65	11.12	10.83	10.59	10.36	10.18	9.95	9.83
360.0	12.06	11.76	11.29	11.00	10.77	10.53	10.24	10.01	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.89
90.0	9.89
135.0	9.89
180.0	10.01
225.0	9.89
270.0	9.89
315.0	9.89
360.0	9.83