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

NT

Client: NT
LumCAT: 61-0220
Luminaire: 92.70.427.00
Report No: 2024923-B011
Ballast type: AC

Test No: 2024923-C011	Voltage(V): 36.340
LampCAT: CITIZEN CLU028 LES9.8	Current(A): 0.360
Lamp flux(lm): 1715.5	Power (W): 13.082
Number of Lamps: 1	PF: 0.000
Length(mm): 50	Width(mm): 50
Phm Type: C	Height(mm): 24

Photometric Results

Lumens(lm): 1614.79, Efficiency(%): 94.13% , Luminous Efficacy(lm/W): 123.44
Central intensity(cd): 1680.093, Maximum intensity(cd): 1692.676
Angle of maximum intensity: C=0.0 γ=7.0
Beam Angle(50%Imax): [C0/180]Total=61.0
[C90/270]Total=61.0
Field angle(10%Imax): [C0/180]Total=79.0
[C90/270]Total=79.0
Maximum s/h(1/2): C0_180=0.99 C90_270=0.99
Maximum s/h(1/4): C0_180=0.89 C90_270=0.89
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.13%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.226%

Equipment: GMS1980	Date: 2024/9/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1680.093	0.000	0	0.00%	0.00%
1.0	1681.190	1.608	1.608	0.09%	0.10%
2.0	1679.654	4.824	6.432	0.28%	0.40%
3.0	1681.483	8.039	14.471	0.47%	0.90%
4.0	1684.117	11.266	25.737	0.66%	1.59%
5.0	1688.140	14.507	40.244	0.85%	2.49%
6.0	1691.578	17.761	58.005	1.04%	3.59%
7.0	1692.676	21.006	79.011	1.22%	4.89%
8.0	1688.725	24.200	103.211	1.41%	6.39%
9.0	1681.044	27.310	130.521	1.59%	8.08%
10.0	1672.924	30.352	160.874	1.77%	9.96%
11.0	1659.683	33.300	194.173	1.94%	12.02%
12.0	1647.760	36.155	230.328	2.11%	14.26%
13.0	1630.861	38.909	269.237	2.27%	16.67%
14.0	1612.427	41.514	310.751	2.42%	19.24%
15.0	1593.626	44.014	354.765	2.57%	21.97%
16.0	1572.631	46.395	401.16	2.70%	24.84%
17.0	1547.759	48.593	449.753	2.83%	27.85%
18.0	1522.082	50.615	500.368	2.95%	30.99%
19.0	1496.333	52.514	552.882	3.06%	34.24%
20.0	1467.364	54.244	607.126	3.16%	37.60%
21.0	1435.689	55.744	662.87	3.25%	41.05%
22.0	1401.160	57.008	719.878	3.32%	44.58%
23.0	1357.707	57.888	777.766	3.37%	48.17%
24.0	1302.382	58.159	835.925	3.39%	51.77%
25.0	1255.717	58.166	894.091	3.39%	55.37%
26.0	1195.681	57.866	951.957	3.37%	58.95%
27.0	1135.761	57.039	1008.996	3.33%	62.48%
28.0	1067.692	55.787	1064.783	3.25%	65.94%
29.0	986.426	53.742	1118.524	3.13%	69.27%
30.0	889.301	50.644	1169.168	2.95%	72.40%
31.0	800.463	47.024	1216.192	2.74%	75.32%
32.0	706.981	43.187	1259.378	2.52%	77.99%
33.0	609.980	38.798	1298.177	2.26%	80.39%
34.0	510.119	33.897	1332.074	1.98%	82.49%
35.0	429.562	29.183	1361.257	1.70%	84.30%
36.0	352.218	24.892	1386.149	1.45%	85.84%
37.0	287.199	20.854	1407.003	1.22%	87.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	228.962	17.229	1424.232	1.00%	88.20%
39.0	195.326	14.482	1438.714	0.84%	89.10%
40.0	140.322	11.706	1450.421	0.68%	89.82%
41.0	108.640	8.865	1459.286	0.52%	90.37%
42.0	88.779	7.173	1466.458	0.42%	90.81%
43.0	75.062	6.069	1472.528	0.35%	91.19%
44.0	66.416	5.340	1477.867	0.31%	91.52%
45.0	60.702	4.885	1482.753	0.28%	91.82%
46.0	56.050	4.566	1487.319	0.27%	92.11%
47.0	52.231	4.307	1491.625	0.25%	92.37%
48.0	49.334	4.106	1495.731	0.24%	92.63%
49.0	46.789	3.947	1499.678	0.23%	92.87%
50.0	44.455	3.804	1503.483	0.22%	93.11%
51.0	42.604	3.683	1507.166	0.21%	93.34%
52.0	41.163	3.595	1510.761	0.21%	93.56%
53.0	39.956	3.529	1514.289	0.21%	93.78%
54.0	38.866	3.474	1517.763	0.20%	93.99%
55.0	37.915	3.427	1521.191	0.20%	94.20%
56.0	36.964	3.384	1524.574	0.20%	94.41%
57.0	36.138	3.342	1527.917	0.19%	94.62%
58.0	35.201	3.299	1531.216	0.19%	94.82%
59.0	34.470	3.257	1534.473	0.19%	95.03%
60.0	33.819	3.226	1537.699	0.19%	95.23%
61.0	33.248	3.201	1540.9	0.19%	95.42%
62.0	32.721	3.179	1544.079	0.19%	95.62%
63.0	32.180	3.156	1547.235	0.18%	95.82%
64.0	31.602	3.130	1550.365	0.18%	96.01%
65.0	31.017	3.099	1553.464	0.18%	96.20%
66.0	30.454	3.067	1556.531	0.18%	96.39%
67.0	29.810	3.030	1559.561	0.18%	96.58%
68.0	29.181	2.988	1562.549	0.17%	96.77%
69.0	28.632	2.949	1565.499	0.17%	96.95%
70.0	27.981	2.908	1568.406	0.17%	97.13%
71.0	27.396	2.862	1571.268	0.17%	97.31%
72.0	26.759	2.816	1574.084	0.16%	97.48%
73.0	26.152	2.767	1576.851	0.16%	97.65%
74.0	25.574	2.719	1579.571	0.16%	97.82%
75.0	24.916	2.668	1582.238	0.16%	97.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	24.206	2.608	1584.846	0.15%	98.15%
77.0	23.541	2.546	1587.391	0.15%	98.30%
78.0	22.926	2.487	1589.879	0.15%	98.46%
79.0	22.253	2.427	1592.306	0.14%	98.61%
80.0	21.580	2.363	1594.67	0.14%	98.75%
81.0	20.995	2.302	1596.972	0.13%	98.90%
82.0	20.329	2.241	1599.213	0.13%	99.04%
83.0	19.722	2.177	1601.39	0.13%	99.17%
84.0	19.210	2.121	1603.511	0.12%	99.30%
85.0	19.151	2.094	1605.605	0.12%	99.43%
86.0	18.325	2.049	1607.653	0.12%	99.56%
87.0	17.198	1.944	1609.597	0.11%	99.68%
88.0	16.028	1.820	1611.417	0.11%	99.79%
89.0	15.296	1.717	1613.134	0.10%	99.90%
90.0	14.814	1.651	1614.785	0.10%	100.00%

Zonal flux distribution table

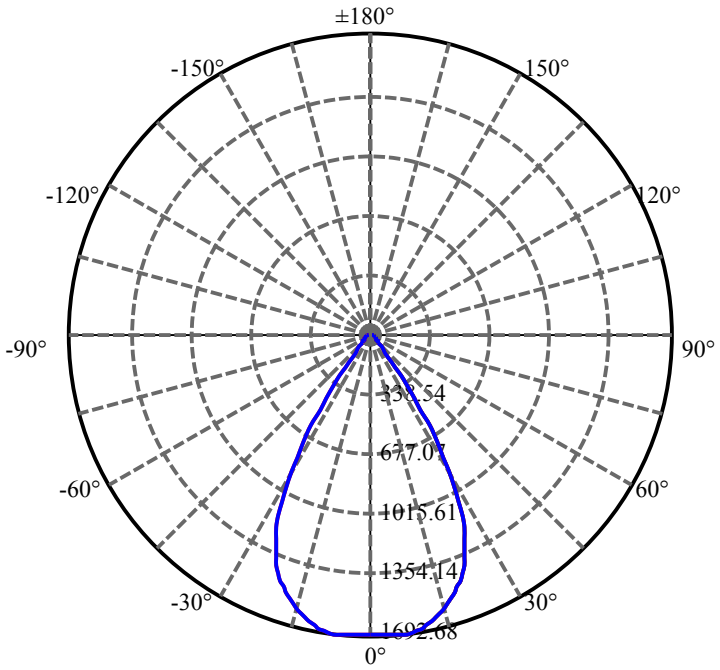
ZONAL LUMEN SUMMARY

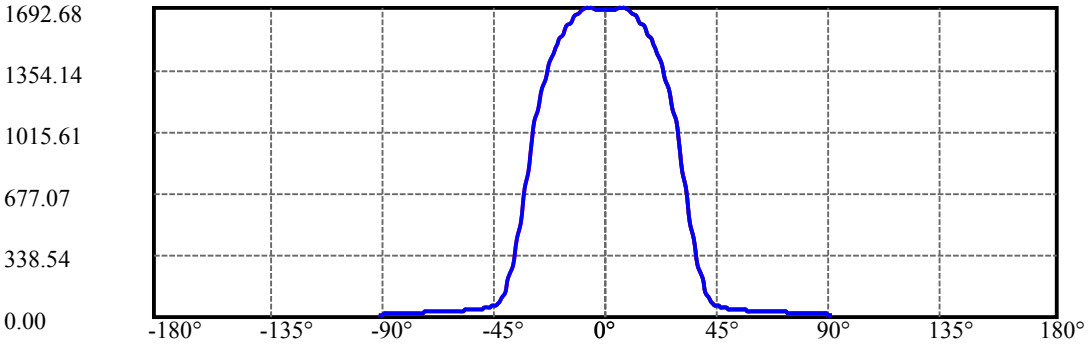
Zone	Lumens	%Lamp	%Fixt
0-30	1169.17	68.16%	72.40%
0-40	1450.42	84.55%	89.82%
0-60	1537.70	89.64%	95.23%
0-90	1613.13	94.04%	99.90%
0-120	1613.13	94.04%	99.90%
0-180	1614.79	94.13%	100.00%
60-90	75.44	4.40%	4.67%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.84	1291.83	75.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	160.87
10-20	446.25
20-30	562.04
30-40	281.25
40-50	53.06
50-60	34.22
60-70	30.71
70-80	26.26
80-90	18.46
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):

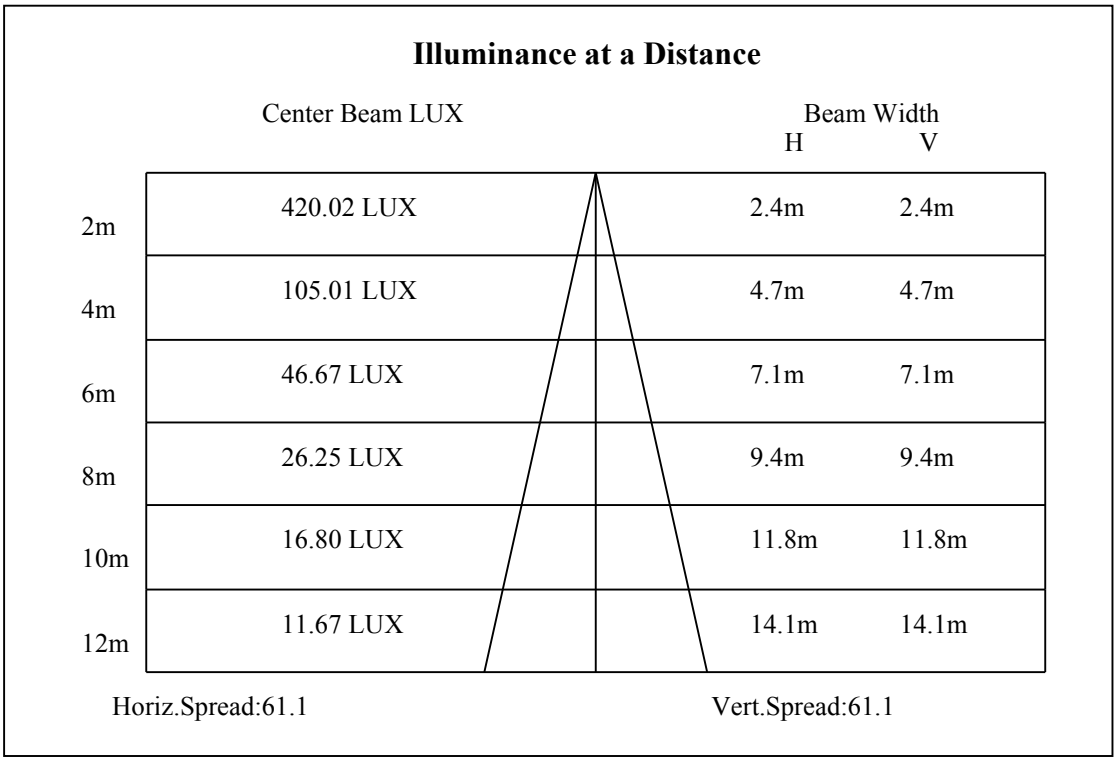
C0/C180:

C90/C270:

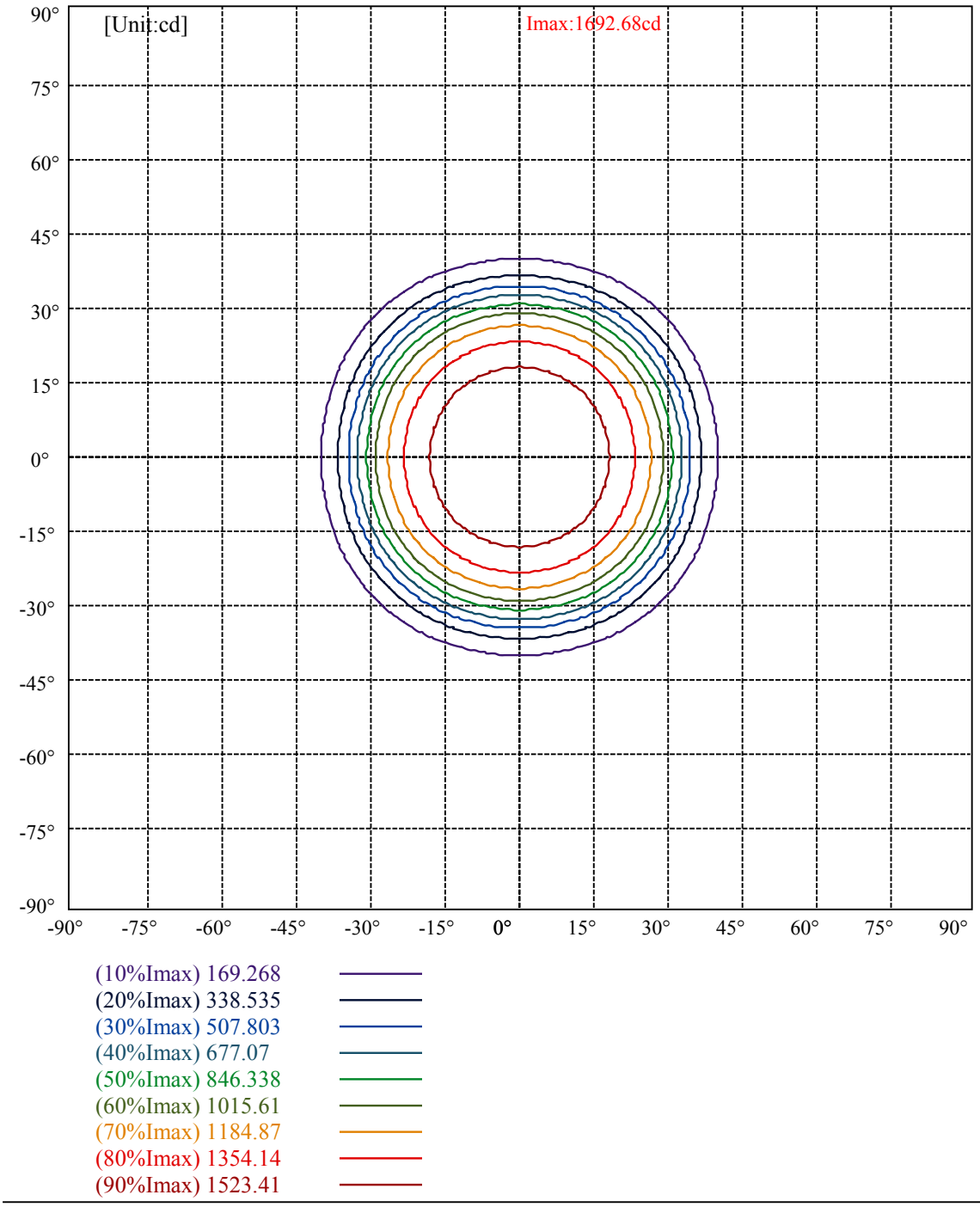
Field angle(10%Imax):C0/180Left:46.5 Right:32.5
:C90/270Left:46.5 Right:32.5

Beam Angle(50%Imax):C0/180Left:37.5 Right:23.5
:C90/270Left:37.5 Right:23.5

Lux distance Curve



ISO-Intensity(V-H)

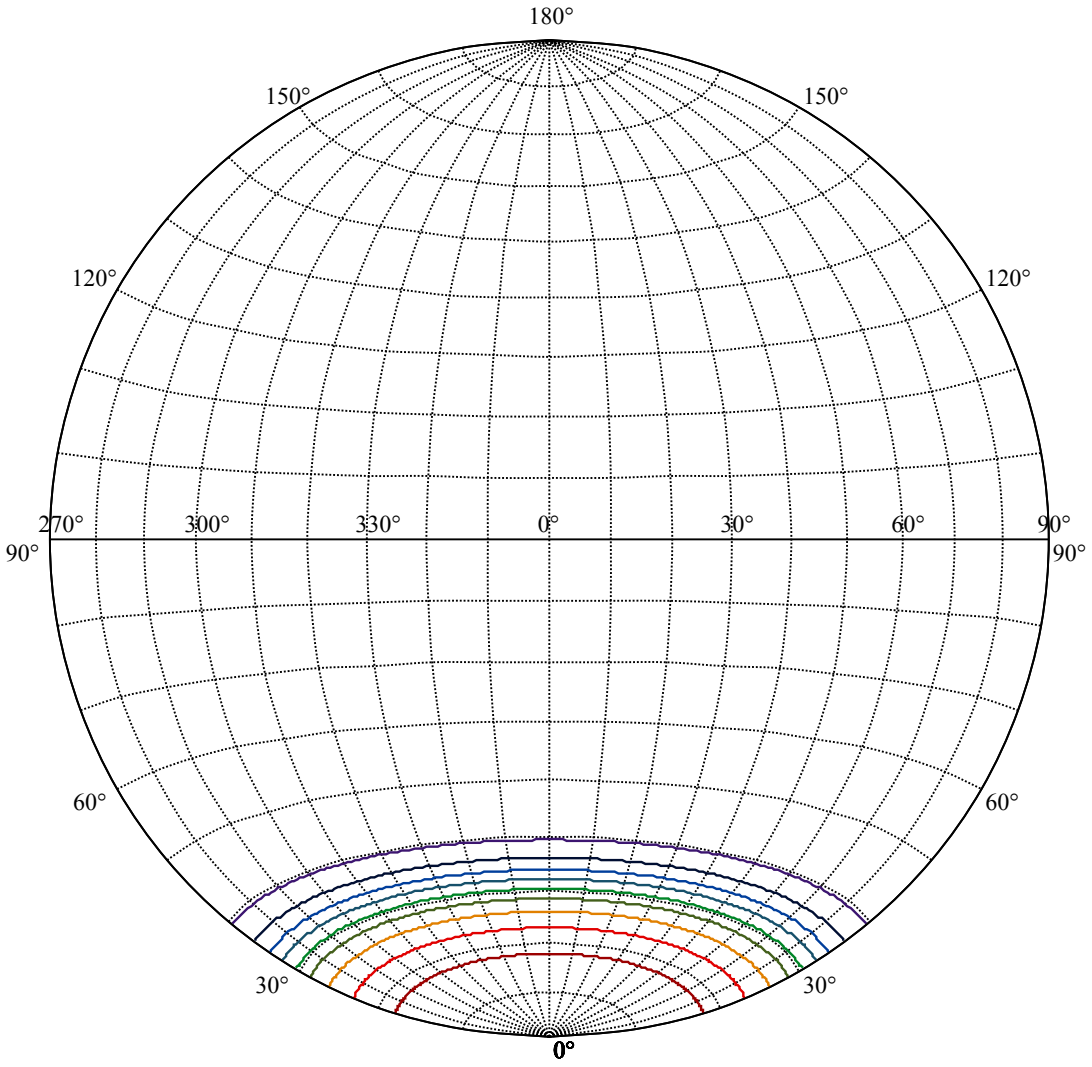


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/9/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



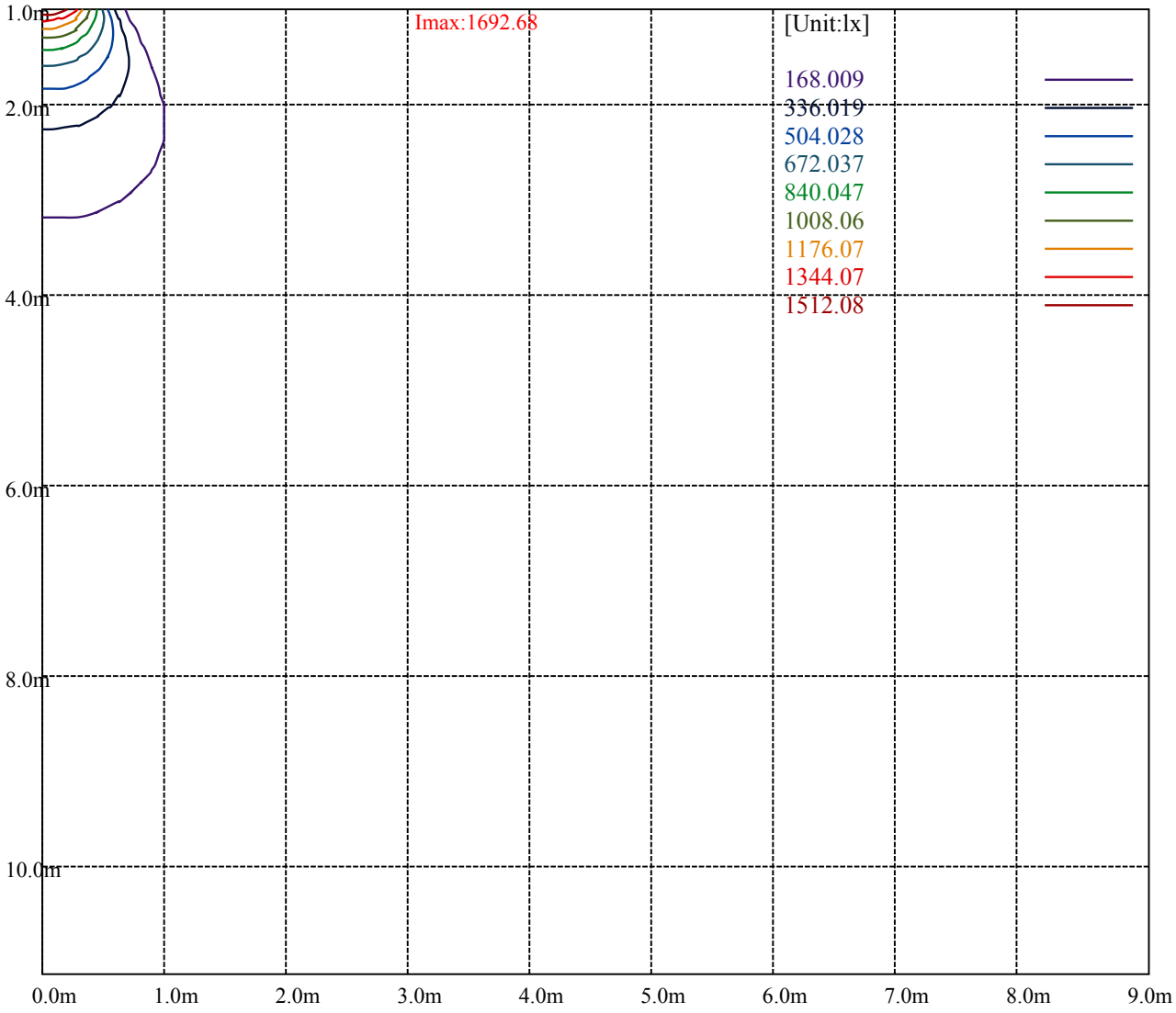
[Unit:cd]

Imax:1692.68

(10%Imax) 169.268
(20%Imax) 338.535
(30%Imax) 507.803
(40%Imax) 677.07
(50%Imax) 846.338
(60%Imax) 1015.61
(70%Imax) 1184.87
(80%Imax) 1354.14
(90%Imax) 1523.41

Equipment: GMS1980	Date: 2024/9/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/9/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 61-0220

Luminance Limitting Curve(no luminous side)

Luminance Table

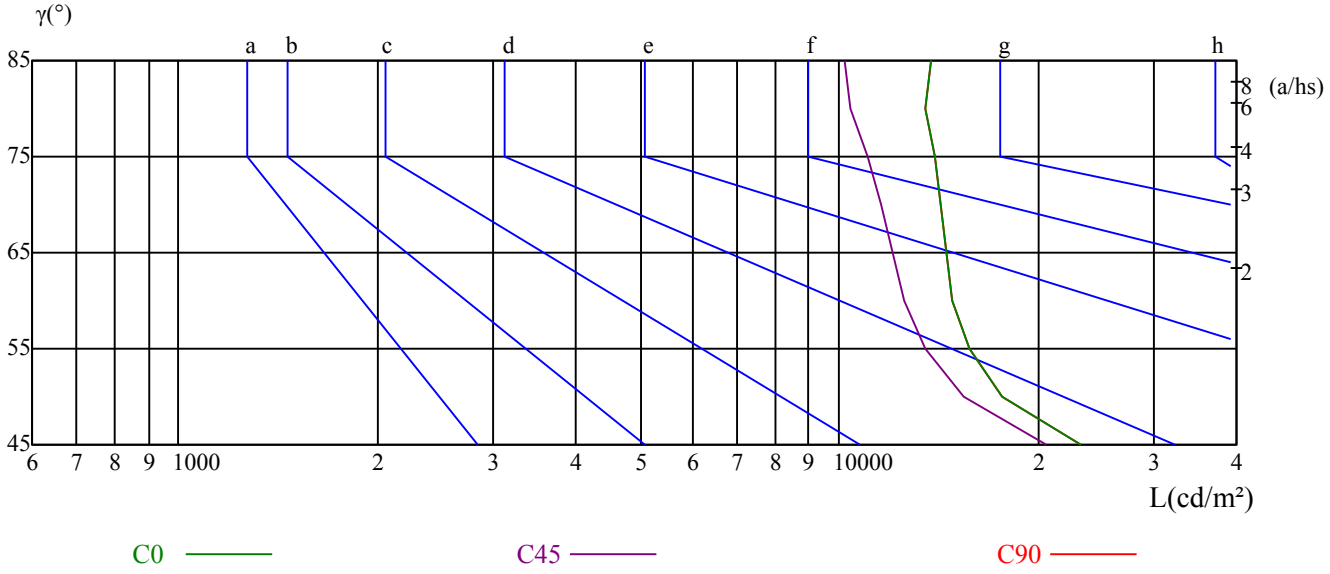
γ	45	50	55	60	65	70	75	80	85
C0	23328	17705	15794	14886	14589	14248	13944	13520	13744
C45	20593	15407	13537	12548	12074	11547	11030	10387	10185
C90	23328	17705	15794	14886	14589	14248	13944	13520	13744

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
29357	29357	29357	38507	38507	38507	87895	87895	87895

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

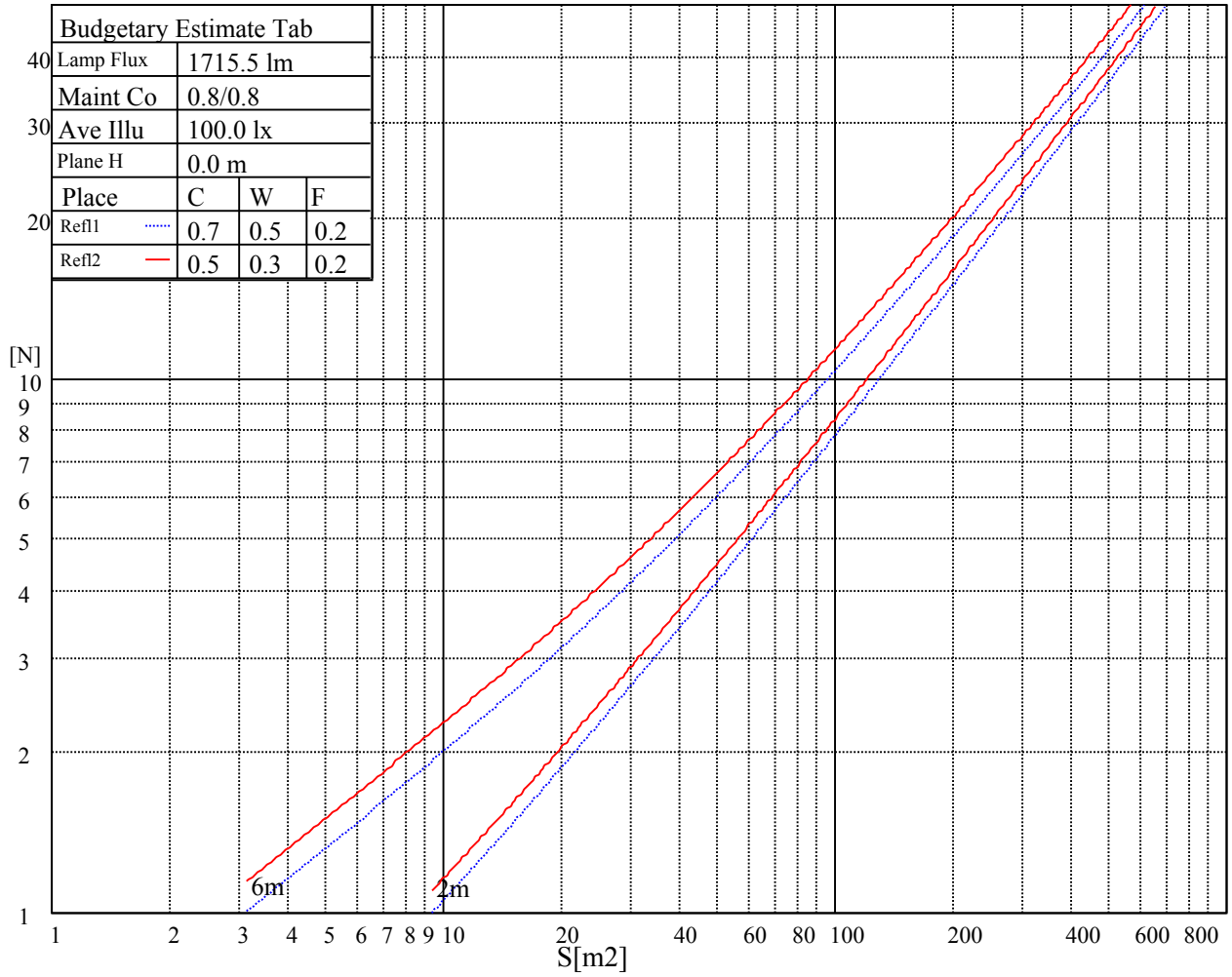


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.37	21.41	20.74	21.72	22.04	21.07	22.11	21.43	22.42	22.74
	3H	20.87	21.80	21.25	22.14	22.48	21.44	22.37	21.82	22.70	23.05
	4H	21.24	22.10	21.64	22.46	22.82	21.72	22.59	22.12	22.94	23.31
	6H	21.67	22.47	22.09	22.84	23.24	22.11	22.90	22.52	23.28	23.68
	8H	21.88	22.64	22.30	23.03	23.43	22.30	23.06	22.72	23.44	23.85
	12H	22.12	22.85	22.55	23.24	23.66	22.52	23.24	22.95	23.64	24.06
4H	2H	20.33	21.20	20.73	21.55	21.92	20.98	21.85	21.38	22.20	22.57
	3H	21.03	21.77	21.46	22.16	22.58	21.52	22.26	21.95	22.65	23.07
	4H	21.62	22.25	22.05	22.68	23.13	22.01	22.65	22.45	23.07	23.52
	6H	22.21	22.78	22.68	23.23	23.68	22.55	23.12	23.02	23.57	24.02
	8H	22.55	23.07	23.03	23.53	24.00	22.87	23.40	23.36	23.86	24.33
	12H	22.93	23.42	23.42	23.87	24.39	23.24	23.72	23.72	24.17	24.69
8H	4H	21.76	22.28	22.24	22.74	23.21	22.12	22.65	22.60	23.10	23.57
	6H	22.53	22.97	23.03	23.44	23.95	22.83	23.26	23.33	23.74	24.25
	8H	23.04	23.41	23.57	23.93	24.43	23.32	23.69	23.85	24.21	24.71
	12H	23.58	23.87	24.12	24.39	24.91	23.84	24.13	24.38	24.65	25.17
12H	4H	21.78	22.26	22.27	22.72	23.23	22.13	22.62	22.62	23.07	23.59
	6H	22.65	23.02	23.18	23.54	24.04	22.94	23.31	23.47	23.83	24.33
	8H	23.19	23.48	23.73	24.00	24.52	23.45	23.75	23.99	24.26	24.78

Variation with the observer position at spacings:		
S = 1.0H	4.0/-2.6	4.0/-2.6
S = 1.5H	5.5/-2.0	5.5/-2.0
S = 2.0H	6.7/-1.7	6.7/-1.7
Standard tables:	BK3	BK3
Uncorrected UGR	4.4	4.4

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

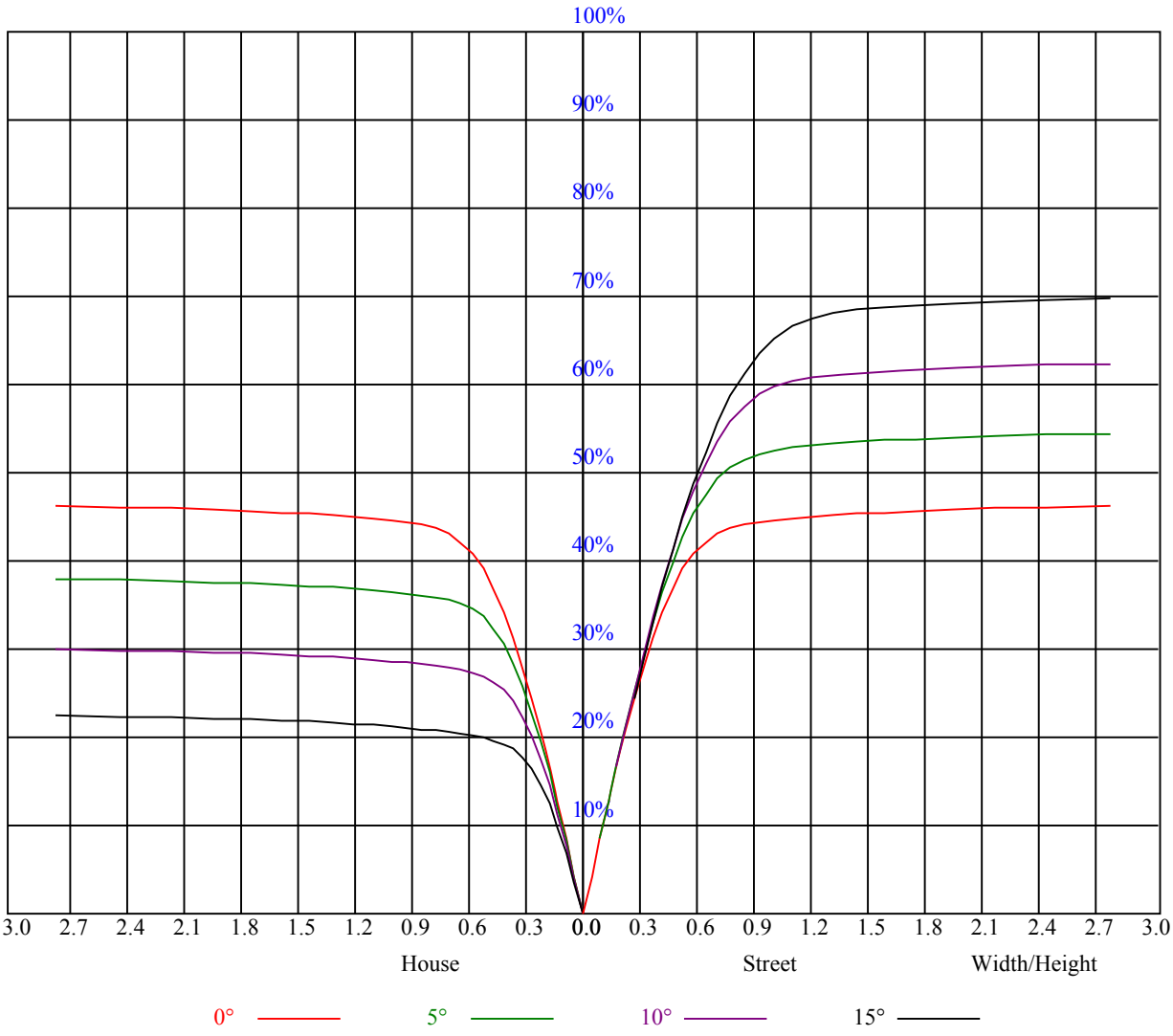


Equipment: GMS1980 Date: 2024/9/23 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

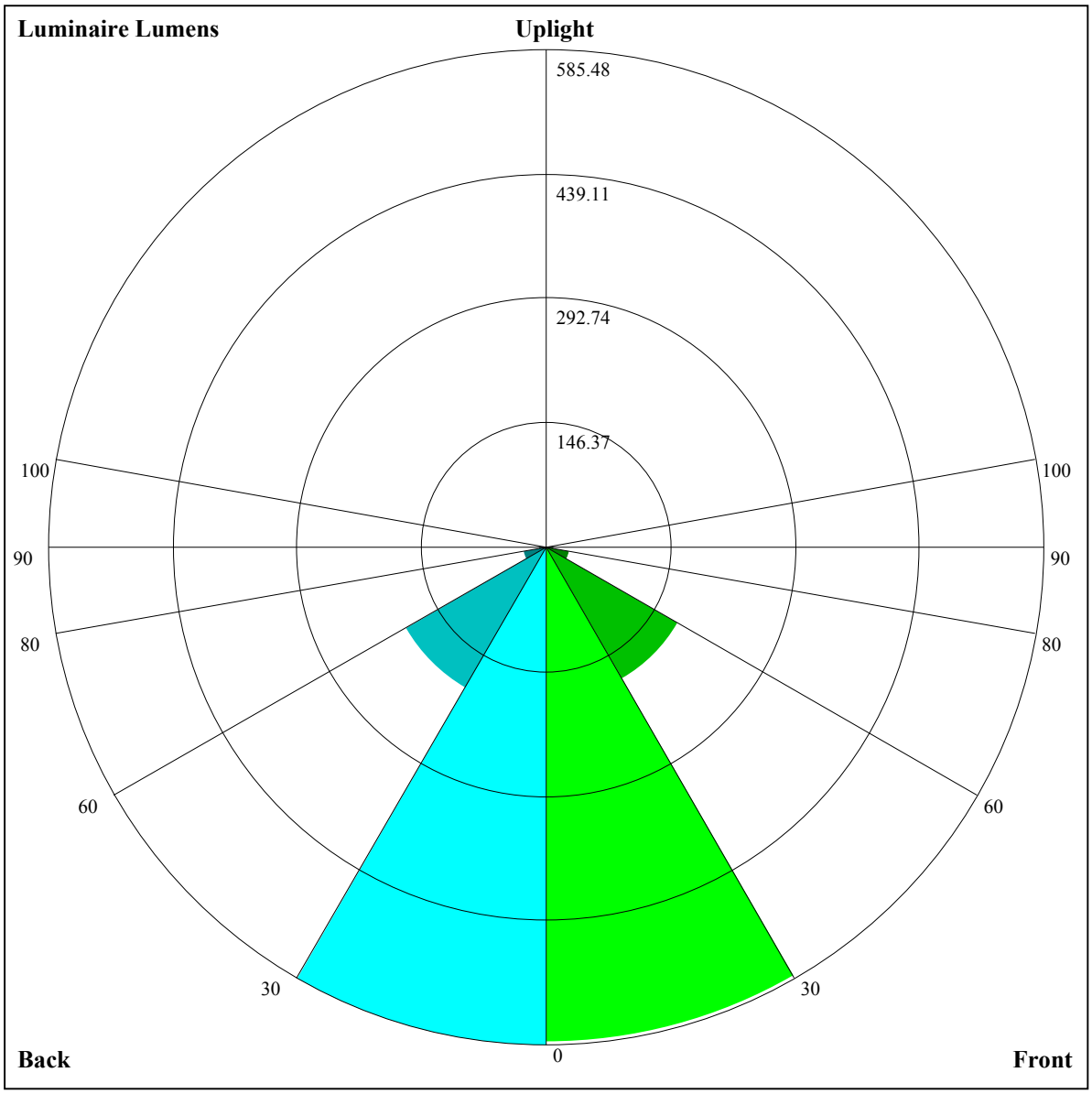
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.12	1.12	1.12	1.09	1.09	1.09	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.03	1.00	0.98	1.01	0.99	0.96	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.86
2	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.81	0.80
3	0.89	0.84	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.79	0.77	0.80	0.78	0.75	0.74
4	0.83	0.77	0.73	0.82	0.77	0.73	0.80	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.69
5	0.78	0.72	0.68	0.77	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.65	0.64
6	0.73	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.60
7	0.68	0.63	0.59	0.68	0.62	0.58	0.67	0.62	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.56
8	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.53
9	0.61	0.55	0.52	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.50
10	0.58	0.52	0.49	0.57	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.47

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/9/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=582.47,FM=178.76,FH=28.1,FVH=10
BL=585.48,BM=191.39,BH=28.71,BVH=10.19
UL=0,UH=0

BUG Rating:B2-U0-G1

Equipment: GMS1980	Date: 2024/9/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

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	1680.24	1683.17	1686.68	1693.70	1703.65	1713.01	1717.11	1714.77	1706.57
45.0	1681.41	1681.41	1680.82	1680.82	1684.34	1691.36	1703.06	1704.82	1708.92
90.0	1679.07	1680.24	1673.22	1677.90	1679.07	1684.92	1689.02	1693.70	1691.94
135.0	1679.65	1680.82	1673.80	1671.46	1670.88	1671.46	1674.39	1680.24	1685.51
180.0	1680.24	1680.82	1677.90	1674.97	1674.97	1673.22	1673.22	1676.73	1679.07
225.0	1681.41	1680.24	1682.58	1683.17	1683.17	1685.51	1684.92	1684.92	1674.39
270.0	1679.07	1682.00	1683.17	1683.75	1686.68	1689.02	1690.19	1695.46	1684.34
315.0	1679.65	1680.82	1679.07	1686.09	1690.19	1696.63	1700.72	1690.77	1679.07
360.0	1680.24	1683.17	1686.68	1693.70	1703.65	1713.01	1717.11	1714.77	1706.57

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1699.55	1690.19	1678.48	1663.85	1642.20	1622.89	1604.75	1584.26	1554.42
45.0	1701.31	1696.63	1689.02	1682.00	1667.36	1652.15	1638.10	1622.89	1597.14
90.0	1684.92	1680.82	1670.29	1662.10	1646.88	1635.76	1617.62	1596.55	1579.00
135.0	1681.41	1680.24	1670.29	1663.85	1650.98	1638.69	1622.30	1605.92	1580.75
180.0	1673.80	1666.78	1650.98	1638.69	1625.81	1604.75	1586.02	1566.71	1539.79
225.0	1658.59	1643.96	1625.23	1607.67	1588.94	1566.12	1540.96	1518.13	1495.31
270.0	1674.97	1666.78	1654.49	1638.10	1618.79	1595.97	1579.00	1549.15	1523.98
315.0	1673.80	1658.00	1638.69	1625.81	1605.92	1583.09	1560.27	1537.44	1511.69
360.0	1699.55	1690.19	1678.48	1663.85	1642.20	1622.89	1604.75	1584.26	1554.42

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1530.42	1503.50	1467.80	1436.79	1401.67	1351.93	1305.70	1163.54	1163.54
45.0	1579.00	1557.93	1530.42	1508.77	1479.51	1442.05	1408.70	1358.95	1310.38
90.0	1556.17	1528.08	1502.92	1478.92	1441.47	1408.70	1373.00	1333.79	1156.81
135.0	1561.44	1542.13	1514.62	1485.94	1457.85	1424.50	1387.04	1349.59	1308.04
180.0	1515.79	1490.63	1466.63	1432.69	1404.60	1373.00	1339.64	1291.65	1248.93
225.0	1463.12	1434.44	1402.84	1368.90	1330.27	1290.48	1165.83	1165.83	1116.73
270.0	1492.97	1464.29	1434.44	1399.33	1361.88	1323.84	1281.70	1224.93	1167.58
315.0	1477.75	1449.66	1419.23	1374.17	1332.03	1247.17	1157.46	1157.46	1093.43
360.0	1530.42	1503.50	1467.80	1436.79	1401.67	1351.93	1305.70	1163.54	1163.54

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1087.93	1008.52	926.00	816.27	725.85	634.03	544.90	436.69	356.75
45.0	1250.10	1183.97	1093.84	1013.08	929.98	841.61	727.49	635.61	549.00
90.0	1156.81	1140.08	1064.76	959.30	871.87	779.05	662.36	569.89	482.40
135.0	1250.68	1190.99	1126.62	1032.40	951.05	865.61	754.41	661.95	570.65
180.0	1197.43	1120.18	1051.12	955.73	870.87	774.31	684.77	568.31	484.04
225.0	1048.14	954.03	872.28	784.38	671.37	583.47	498.44	398.36	325.62
270.0	1096.77	1026.54	926.47	832.25	747.98	631.52	545.49	441.32	366.99
315.0	998.22	917.22	830.32	721.00	634.74	546.25	461.98	368.81	301.04
360.0	1087.93	1008.52	926.00	816.27	725.85	634.03	544.90	436.69	356.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	288.11	217.94	173.17	137.47	105.93	88.78	76.43	66.31	60.92
45.0	462.39	361.14	307.89	307.89	170.30	136.47	105.98	88.78	76.72
90.0	378.35	309.00	249.13	187.27	150.34	121.79	100.83	81.70	71.22
135.0	482.87	381.63	310.23	310.23	235.14	144.20	116.40	91.30	77.66
180.0	402.11	326.03	309.64	234.85	152.51	121.26	94.98	80.76	69.12
225.0	261.89	208.63	155.44	122.96	99.20	82.17	68.47	61.51	56.06
270.0	298.52	298.52	178.79	142.85	115.41	94.81	77.43	68.41	62.33
315.0	243.51	194.70	147.42	119.09	93.75	79.65	69.70	61.74	57.29
360.0	288.11	217.94	173.17	137.47	105.93	88.78	76.43	66.31	60.92

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	56.83	53.31	49.57	47.11	45.06	43.31	41.61	40.44	39.15
45.0	68.53	61.51	57.47	53.90	50.62	47.05	44.77	42.96	41.08
90.0	63.91	58.99	54.13	50.97	47.58	45.24	43.42	41.43	40.20
135.0	68.35	60.92	56.77	53.14	49.92	46.58	44.42	42.66	41.38
180.0	63.44	59.22	54.84	51.73	48.87	45.94	44.01	42.49	41.32
225.0	52.67	49.80	46.70	44.71	43.07	41.67	40.26	39.33	38.51
270.0	58.05	53.90	50.91	47.81	45.82	44.07	42.19	41.02	40.03
315.0	53.84	50.74	47.46	45.30	43.37	41.79	40.15	38.98	37.98
360.0	56.83	53.31	49.57	47.11	45.06	43.31	41.61	40.44	39.15

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.27	37.40	36.34	35.52	34.82	34.24	33.77	33.30	32.83
45.0	39.97	38.98	37.81	36.93	35.76	34.88	34.18	33.59	33.12
90.0	39.15	37.86	36.99	36.17	35.35	34.47	33.83	33.36	32.89
135.0	40.20	39.44	38.68	37.92	37.10	36.28	35.35	34.59	33.88
180.0	40.09	39.21	38.33	37.51	36.40	35.58	34.65	34.06	33.65
225.0	37.81	36.81	36.05	35.35	34.35	33.77	33.42	32.83	32.36
270.0	38.80	37.92	36.93	35.87	34.82	34.06	33.53	32.95	32.25
315.0	36.64	35.70	34.59	33.83	33.01	32.48	31.84	31.31	30.78
360.0	38.27	37.40	36.34	35.52	34.82	34.24	33.77	33.30	32.83

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	32.30	31.78	31.19	30.67	29.96	29.44	28.97	28.38	27.97
45.0	32.60	32.07	31.60	31.08	30.43	29.90	29.32	28.68	28.09
90.0	32.30	31.66	30.96	30.37	29.79	29.03	28.44	27.80	27.21
135.0	33.36	32.77	32.19	31.43	30.78	30.02	29.50	28.62	28.03
180.0	33.18	32.77	32.30	31.89	31.25	30.72	30.26	29.73	29.09
225.0	31.84	31.19	30.67	30.08	29.50	28.79	28.21	27.62	26.98
270.0	31.66	31.08	30.31	29.73	28.97	28.38	27.80	27.15	26.45
315.0	30.20	29.50	28.91	28.38	27.80	27.15	26.57	25.87	25.34
360.0	32.30	31.78	31.19	30.67	29.96	29.44	28.97	28.38	27.97

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	27.27	26.69	26.16	25.40	24.11	23.35	22.65	22.00	21.19
45.0	27.39	26.80	26.22	25.52	24.93	24.35	23.70	22.94	22.30
90.0	26.51	25.93	25.46	24.87	24.17	23.64	23.00	22.30	21.71
135.0	27.39	26.80	26.10	25.46	24.81	24.23	23.64	22.94	22.36
180.0	28.50	27.86	27.27	26.51	25.75	24.70	23.99	23.29	22.41
225.0	26.28	25.69	24.99	24.40	23.88	23.17	22.59	22.00	21.30
270.0	25.93	25.34	24.81	24.11	23.58	23.00	22.47	21.71	21.19
315.0	24.81	24.11	23.58	23.06	22.41	21.89	21.36	20.83	20.19
360.0	27.27	26.69	26.16	25.40	24.11	23.35	22.65	22.00	21.19

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	20.60	19.96	19.31	19.02	20.19	17.73	16.39	15.63	14.92
45.0	21.65	20.95	20.25	19.49	19.14	18.90	17.50	16.15	15.33
90.0	21.24	20.60	20.07	19.72	20.37	18.73	17.38	16.44	15.51
135.0	21.77	21.07	20.48	19.90	19.25	19.25	18.67	17.15	16.15
180.0	21.71	20.89	20.19	19.55	18.84	18.84	18.61	16.27	15.45
225.0	20.78	20.07	19.61	18.90	18.67	17.85	16.62	15.92	15.27
270.0	20.54	20.01	19.31	18.79	18.73	18.84	16.91	15.80	15.16
315.0	19.66	19.08	18.55	18.32	18.02	16.44	15.51	14.86	14.57
360.0	20.60	19.96	19.31	19.02	20.19	17.73	16.39	15.63	14.92

Intensity data(cd)

C/γ(°)	90.0
0.0	14.57
45.0	14.69
90.0	14.92
135.0	15.33
180.0	14.81
225.0	15.10
270.0	14.81
315.0	14.28
360.0	14.57