

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
 Luminaire Type:L-R703-COB3-30K-36-WH
 Lamp Type:
 Luminous Width: 70 mm
 Luminous Length: 70 mm
 Luminous Height: 65 mm

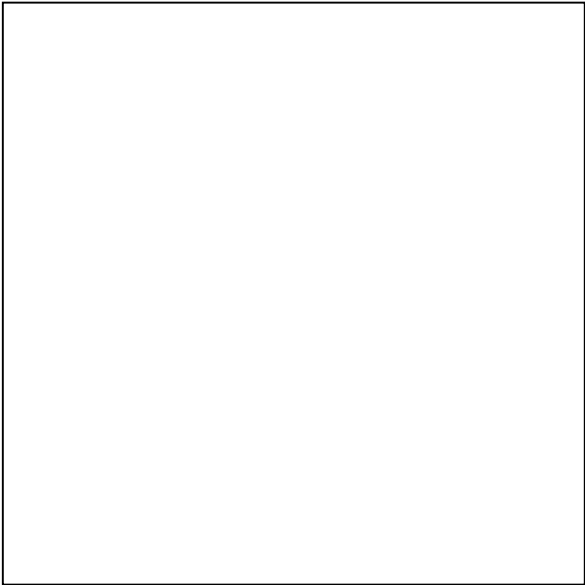
Voltage(V): 221.33 V
 Current(A): 0.0929 A
 Power(W): 12.65 W
 Power Factor: 0.6146
 Lamp Luminous Flux: 1019.44

Photometric Results

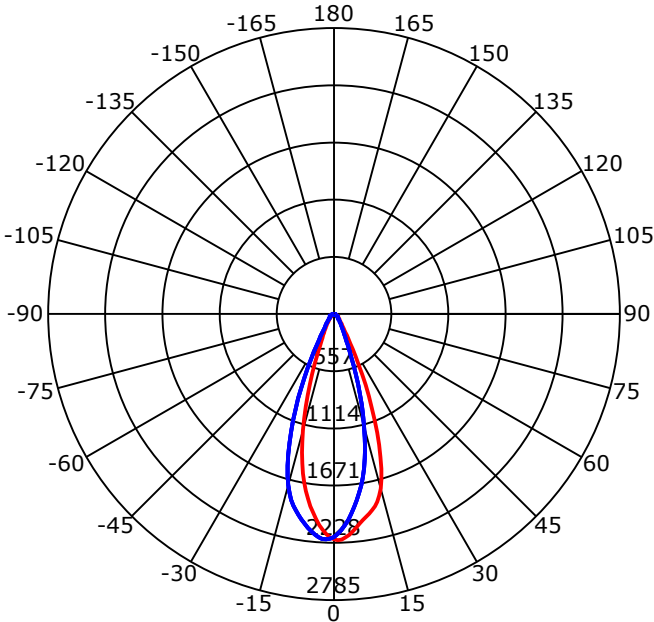
CIE Class: Direct
 Luminaire Luminous Flux: 1019.436 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 80.59 lm/W
 Beam Angle(50%) C0-180,C90-270: 36.6,36.5
 Field Angle(10%) C0-180,C90-270: 59.1,59.0
 S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2227.68 cd
 Max.Intensity Angle: C=315 Gamma=1
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 2194.64 cd
 Effective Luminous Flux: 805.17 lm
 ERP(φuse)(120deg): 981.59 lm

Picture of Luminaire



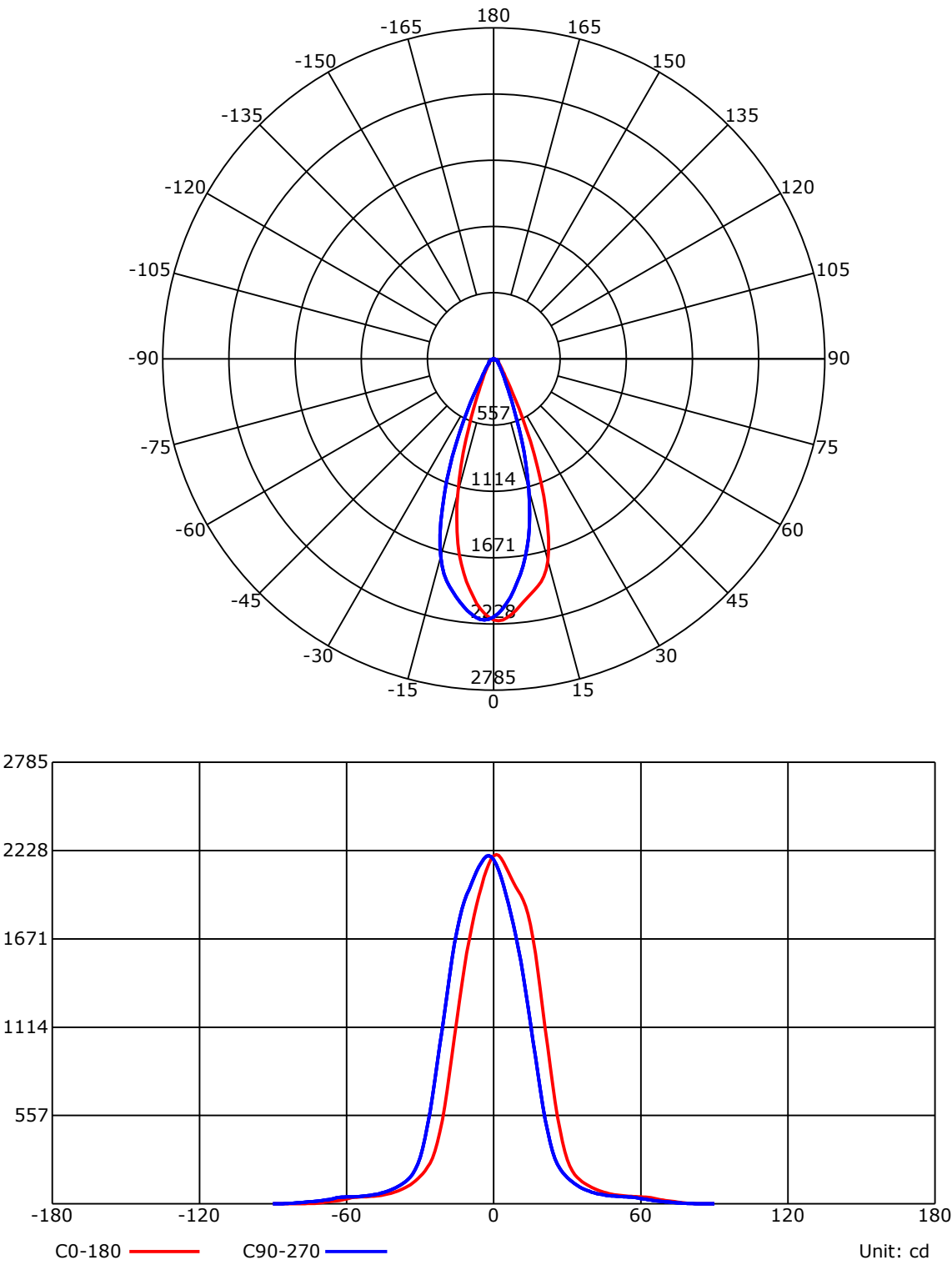
Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.6 deg,36.5 deg

C0-180 — C90-270 —

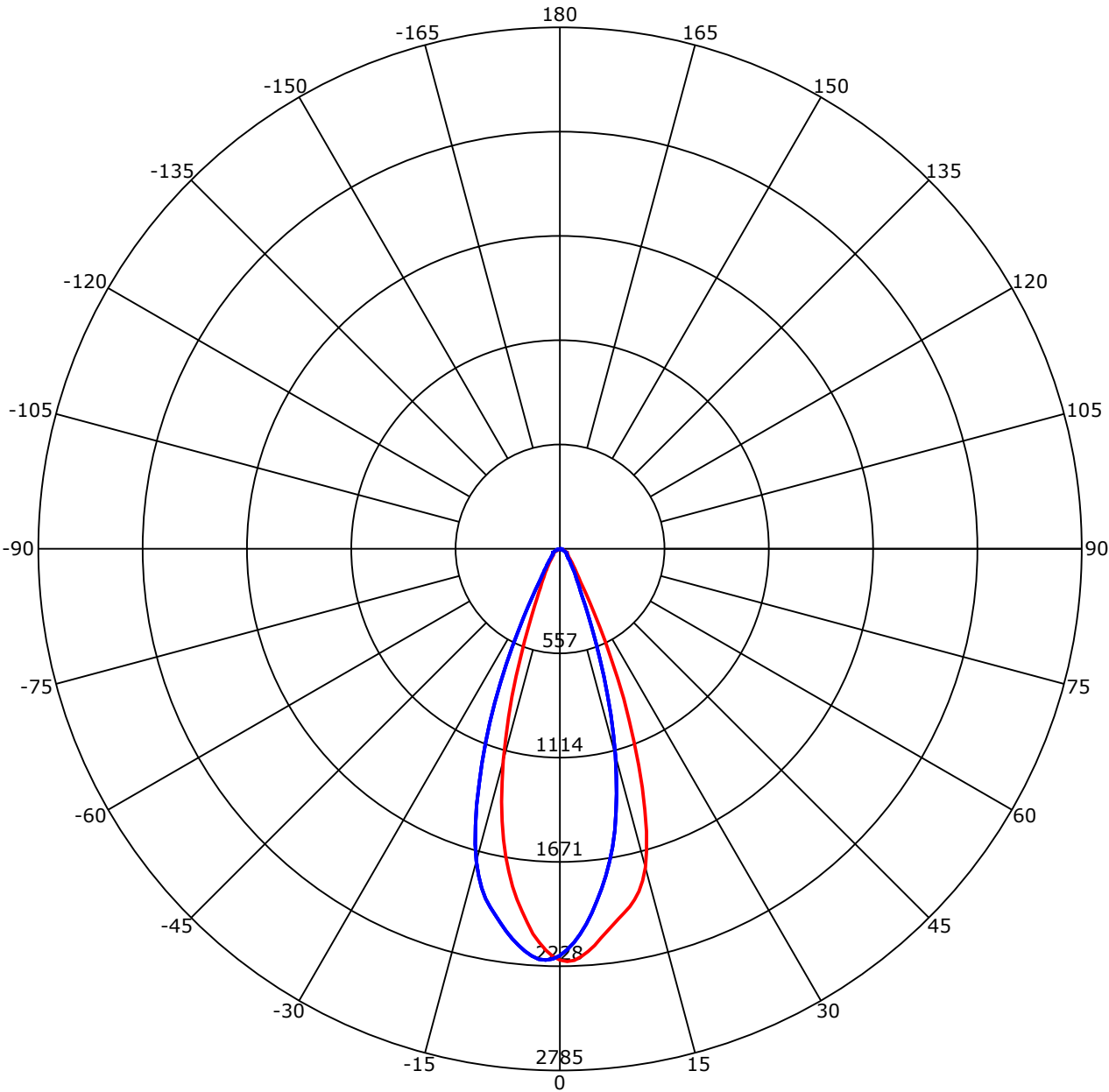
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

Luminous Intensity Distribution Curve

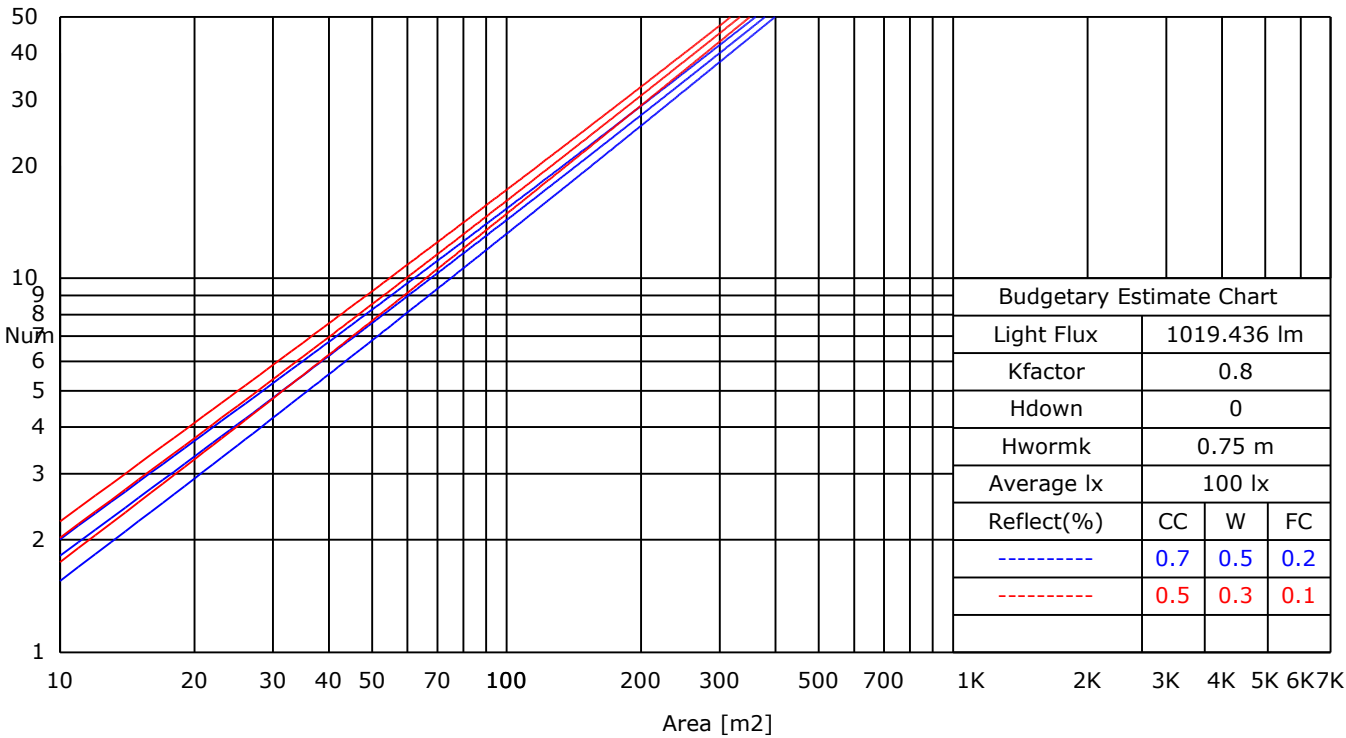


C0-180 C90-270
 Unit: cd/klm

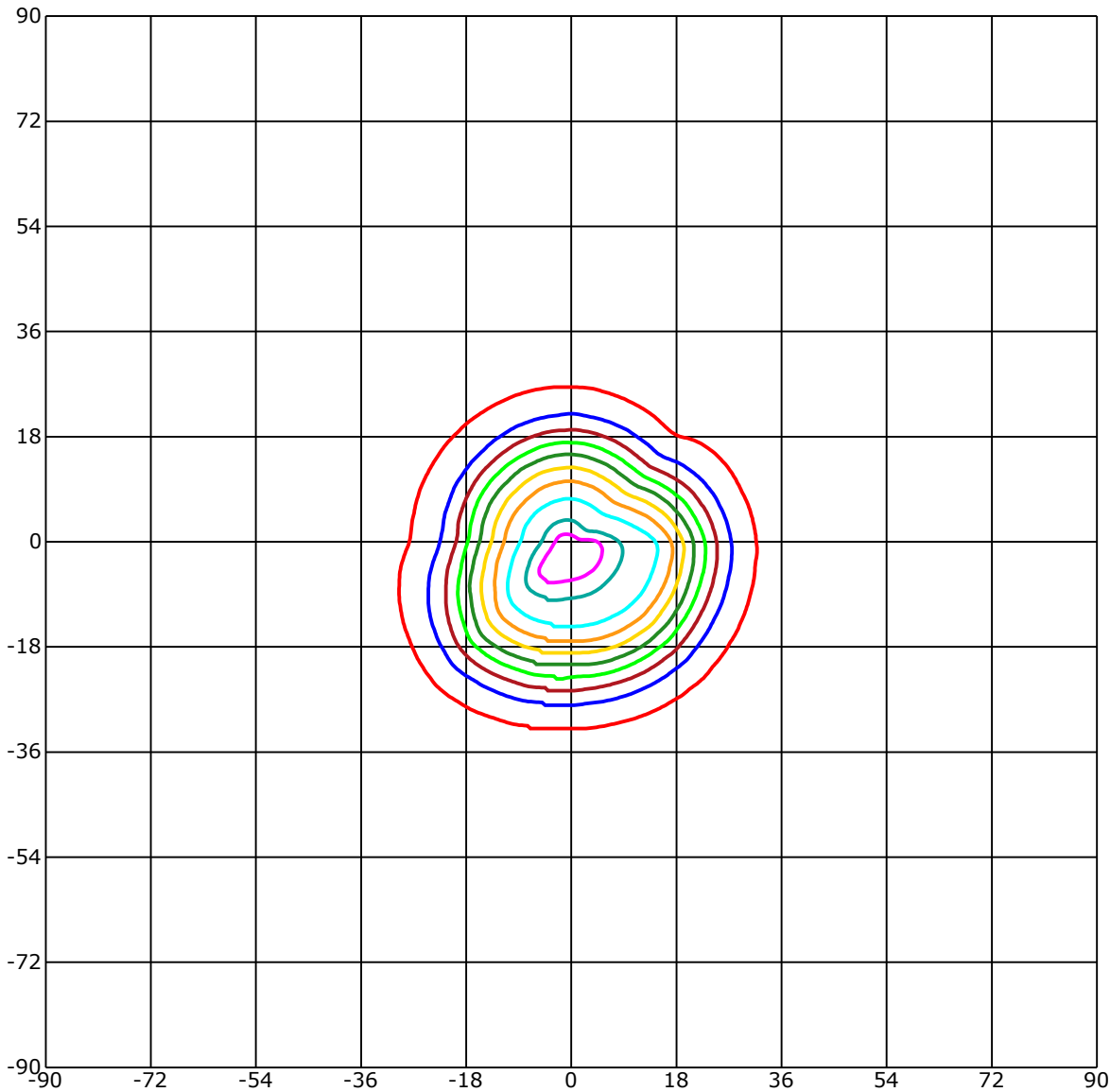
UTILIZATION FACTORS TABLE

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 FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	0.99	0.97	0.95	0.98	0.95	0.93	0.95	0.92	0.89	0.90	0.87	0.85	0.84	0.81	0.79	0.73
2	0.94	0.92	0.90	0.93	0.91	0.89	0.91	0.87	0.85	0.87	0.83	0.80	0.82	0.78	0.75	0.70
3	0.90	0.88	0.87	0.89	0.87	0.85	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.68
4	0.86	0.85	0.83	0.86	0.83	0.81	0.84	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
5	0.83	0.82	0.80	0.83	0.80	0.79	0.81	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
6	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.78	0.77	0.76	0.77	0.75	0.74	0.76	0.73	0.70	0.73	0.70	0.67	0.71	0.66	0.63	0.59
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.68	0.71	0.68	0.65	0.69	0.65	0.61	0.58
9	0.74	0.73	0.72	0.73	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.67	0.63	0.60	0.56
10	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



ISOCANDELA DIAGRAM (RECTANGULAR)



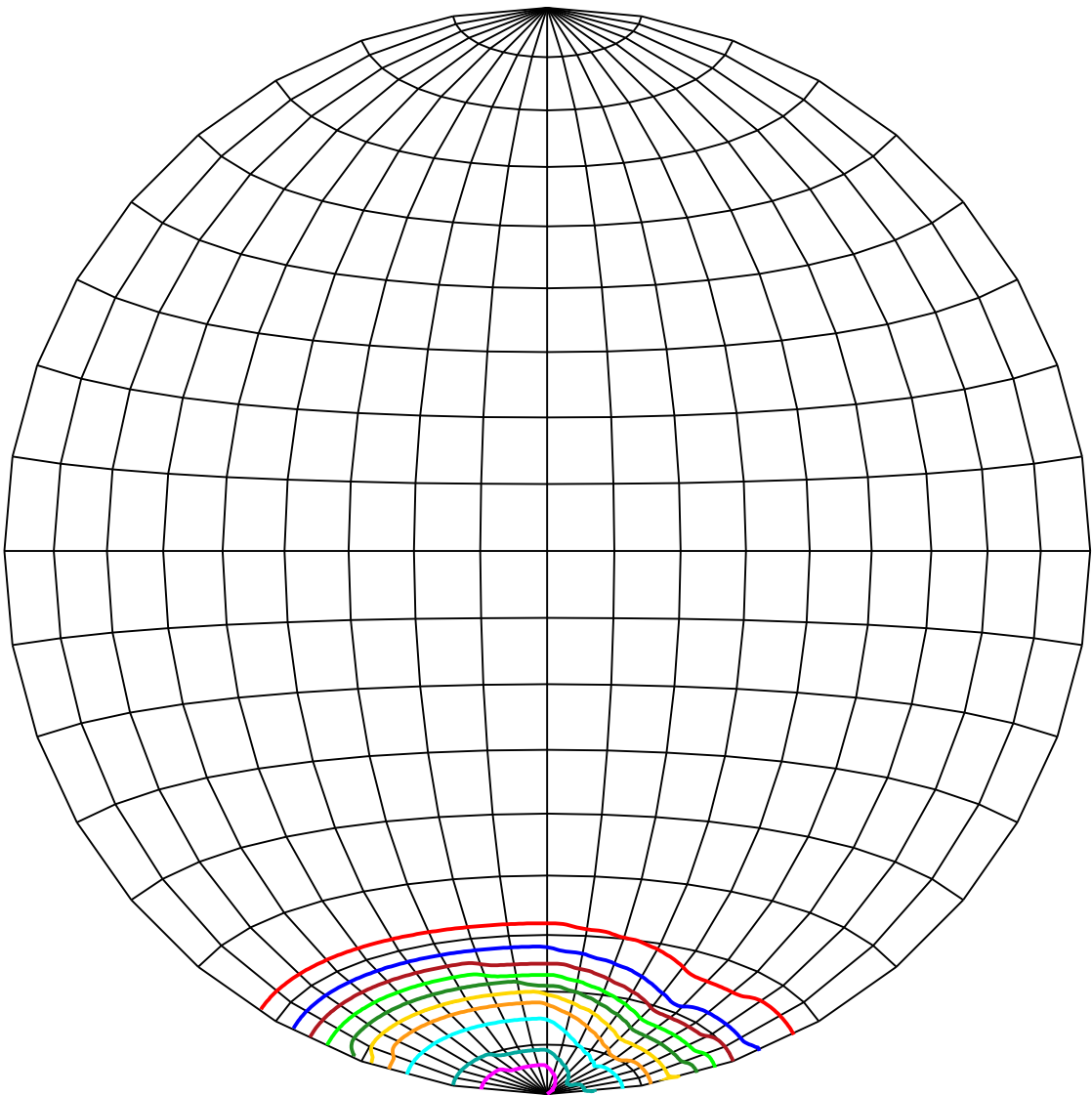
Unit of intensity:cd Imax(100%): 2227.675 cd

- | | |
|-------------------|-------------------|
| 2116.291(95%Imax) | 1113.837(50%Imax) |
| 2004.907(90%Imax) | 891.07(40%Imax) |
| 1782.14(80%Imax) | 668.302(30%Imax) |
| 1559.372(70%Imax) | 445.535(20%Imax) |
| 1336.605(60%Imax) | 222.768(10%Imax) |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

ISOCANDELA DIAGRAM (SPHERE)



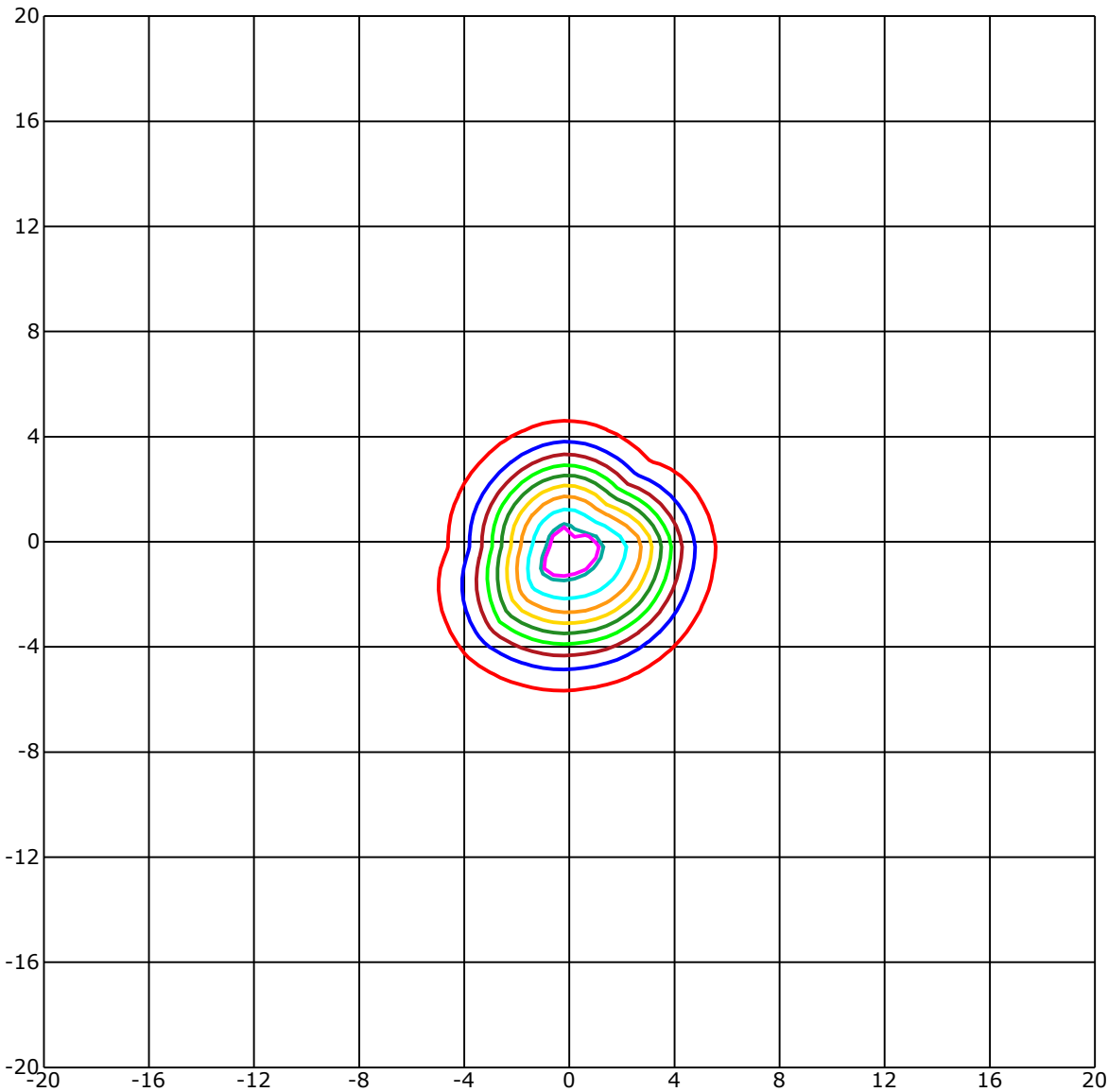
Unit of intensity:cd I_{max}(100%): 2227.675 cd

2116.291(95%I _{max})	1113.837(50%I _{max})
2004.907(90%I _{max})	891.07(40%I _{max})
1782.14(80%I _{max})	668.302(30%I _{max})
1559.372(70%I _{max})	445.535(20%I _{max})
1336.605(60%I _{max})	222.768(10%I _{max})

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

ISOLX DIAGRAM



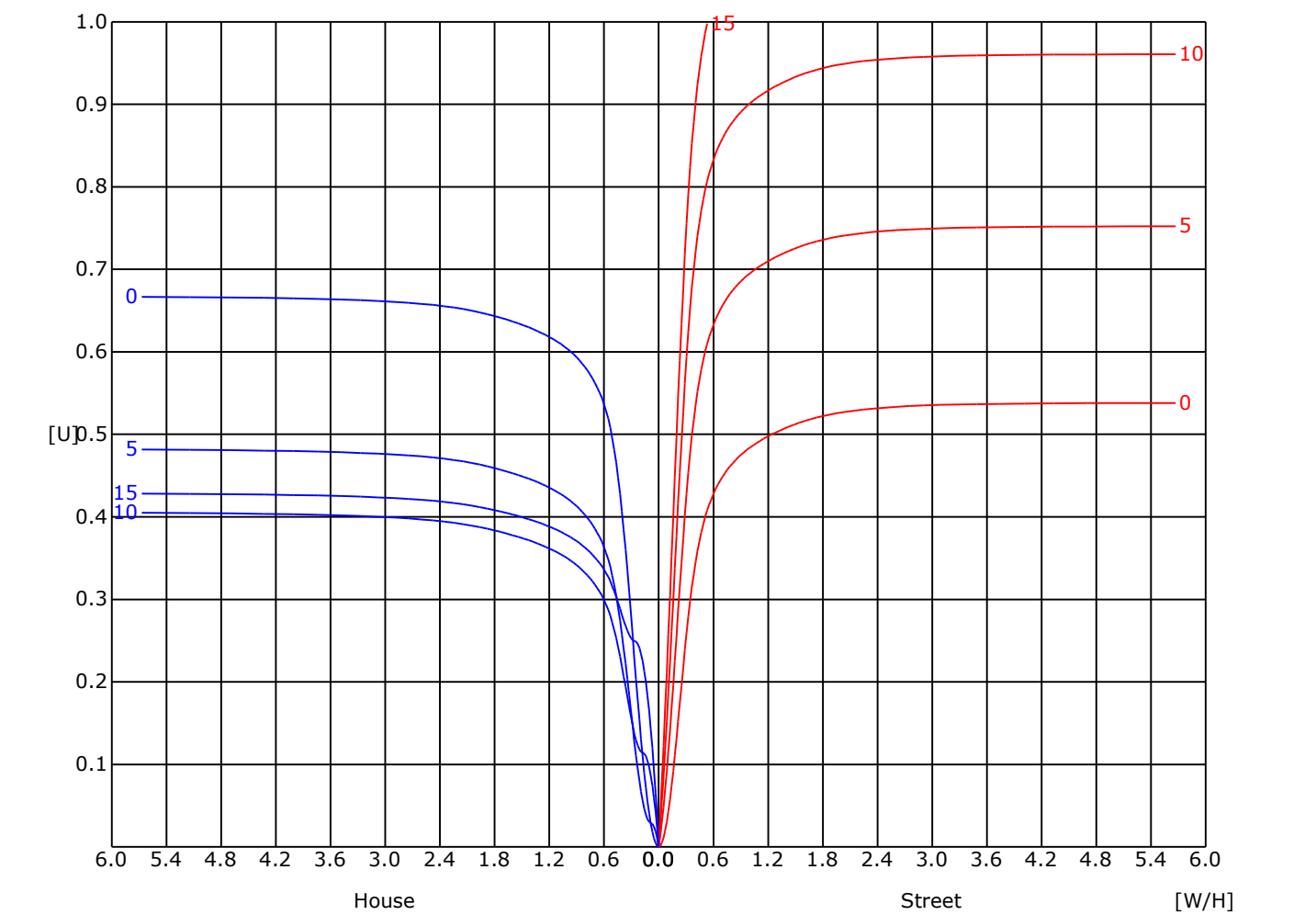
Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

20.485(92%Emax)	11.133(50%Emax)
20.04(90%Emax)	8.907(40%Emax)
17.813(80%Emax)	6.68(30%Emax)
15.587(70%Emax)	4.453(20%Emax)
13.36(60%Emax)	2.227(10%Emax)

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

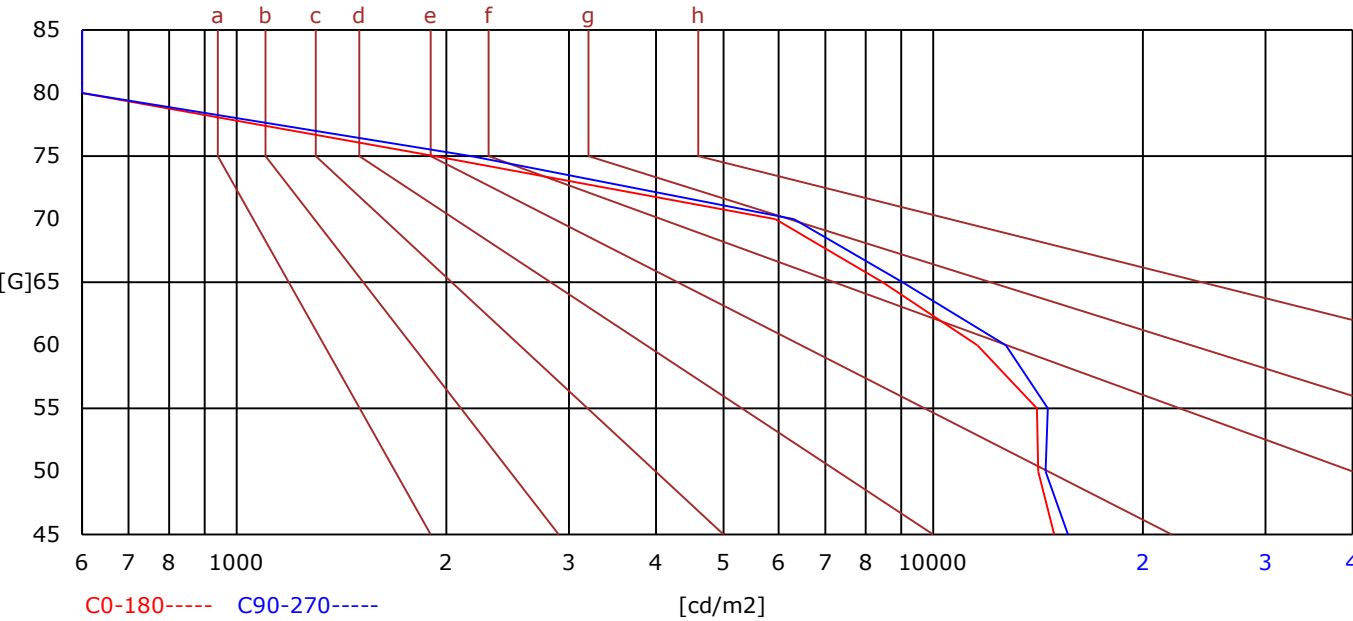


C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 13:52:08

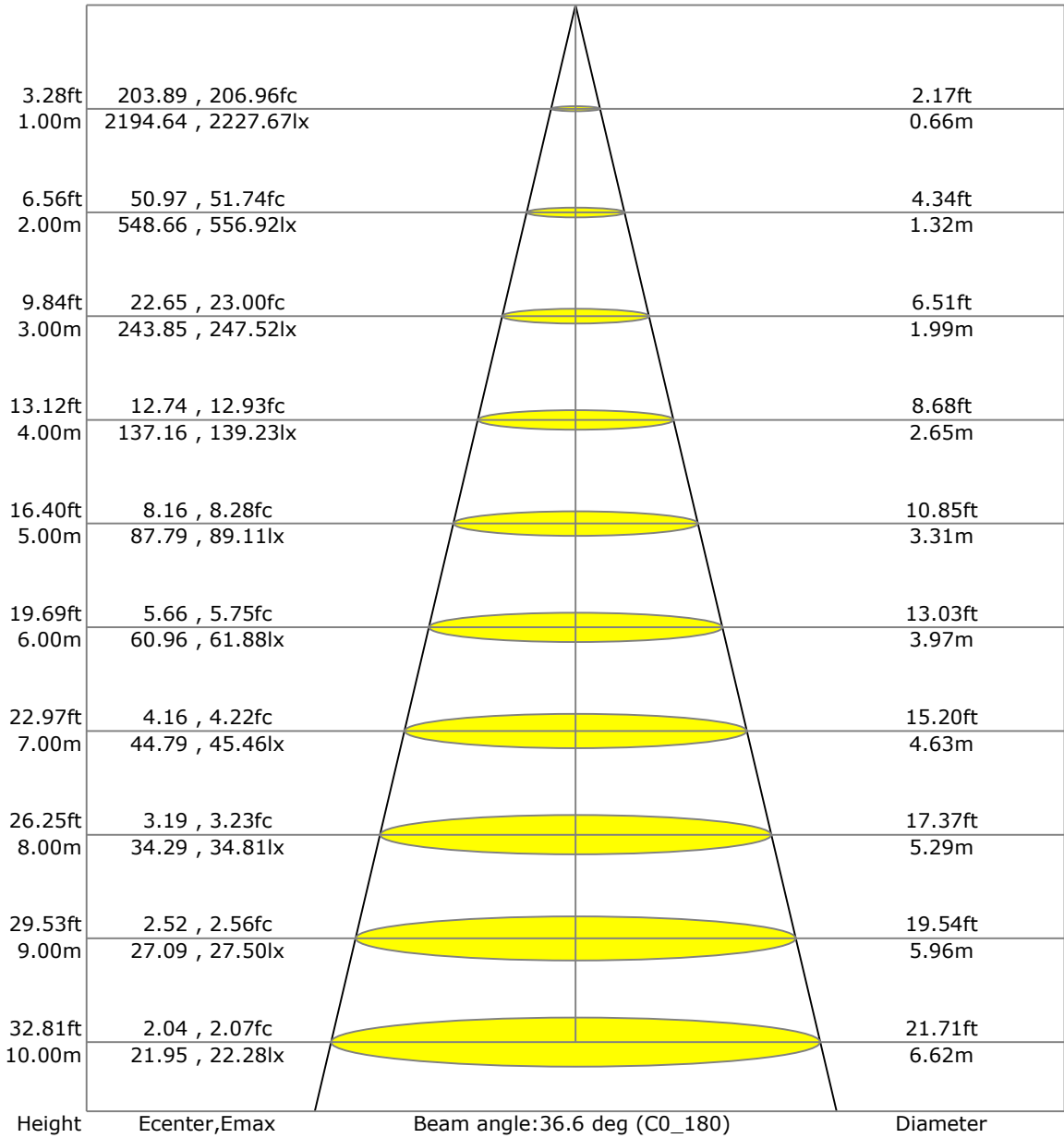
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

BRIGHT LIMIT DIAGRAM

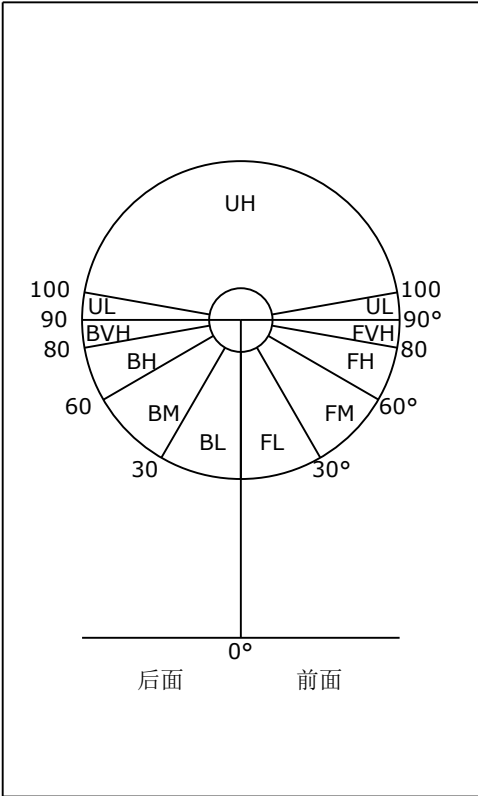
C/G	45	50	55	60	65	70	75	80	85
C0	14916	14144	14092	11569	8460	5936	1924	221	549
C90	15620	14501	14604	12718	9034	6309	2171	257	293
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



LX-DISTANCE DIAGRAM



BUG等级评价表



区域	光通量(lm)	光通量(%)
前面	414.9	40.7
FL (0°-30°)	324.9	31.9
FM (30°-60°)	76.3	7.5
FH (60°-80°)	13.4	1.3
FVH (80°-90°)	0.3	0.0
后面	604.5	59.3
BL (0°-30°)	478.1	46.9
BM (30°-60°)	102.3	10.0
BH (60°-80°)	23.1	2.3
BVH (80°-90°)	1.1	0.1
上面	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0
限制光	NA	NA

BUG评价等级(基于TM-15-07)	
非对称灯具 (Type I , II , III , IV)	B1 U0 G0
对称灯具 (Type V , Area Light)	B1 U0 G0

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	13.19	13.25	13.39	13.43	13.68	12.85	12.90	13.05	13.09	13.33
3H	13.23	13.28	13.44	13.48	13.72	12.93	12.99	13.14	13.18	13.43
4H	13.22	13.27	13.43	13.47	13.72	12.93	12.99	13.14	13.18	13.43
6H	13.20	13.26	13.42	13.46	13.71	12.91	12.97	13.13	13.17	13.42
8H	13.19	13.25	13.41	13.45	13.70	12.90	12.96	13.12	13.16	13.42
12H	13.18	13.24	13.41	13.45	13.70	12.89	12.95	13.12	13.16	13.41
4H 2H	14.73	14.79	14.94	14.98	15.23	13.75	13.80	13.96	14.00	14.25
3H	14.77	14.83	14.99	15.03	15.29	13.84	13.89	14.06	14.10	14.36
4H	14.76	14.81	14.98	15.02	15.28	13.83	13.89	14.06	14.10	14.36
6H	14.73	14.79	14.97	15.01	15.27	13.81	13.86	14.05	14.08	14.35
8H	14.72	14.77	14.96	15.00	15.26	13.80	13.85	14.04	14.08	14.34
12H	14.71	14.76	14.95	14.99	15.26	13.78	13.83	14.03	14.07	14.34
8H 4H	14.78	14.84	15.00	15.04	15.30	13.76	13.82	13.98	14.02	14.27
6H	14.78	14.83	15.03	15.07	15.34	13.81	13.86	14.07	14.10	14.37
8H	14.76	14.81	15.02	15.06	15.33	13.79	13.84	14.06	14.09	14.36
12H	14.75	14.79	15.02	15.04	15.33	13.78	13.82	14.05	14.08	14.36
12H 4H	14.80	14.85	15.04	15.08	15.35	13.83	13.88	14.08	14.11	14.38
6H	14.77	14.81	15.03	15.06	15.34	13.80	13.85	14.06	14.09	14.37

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

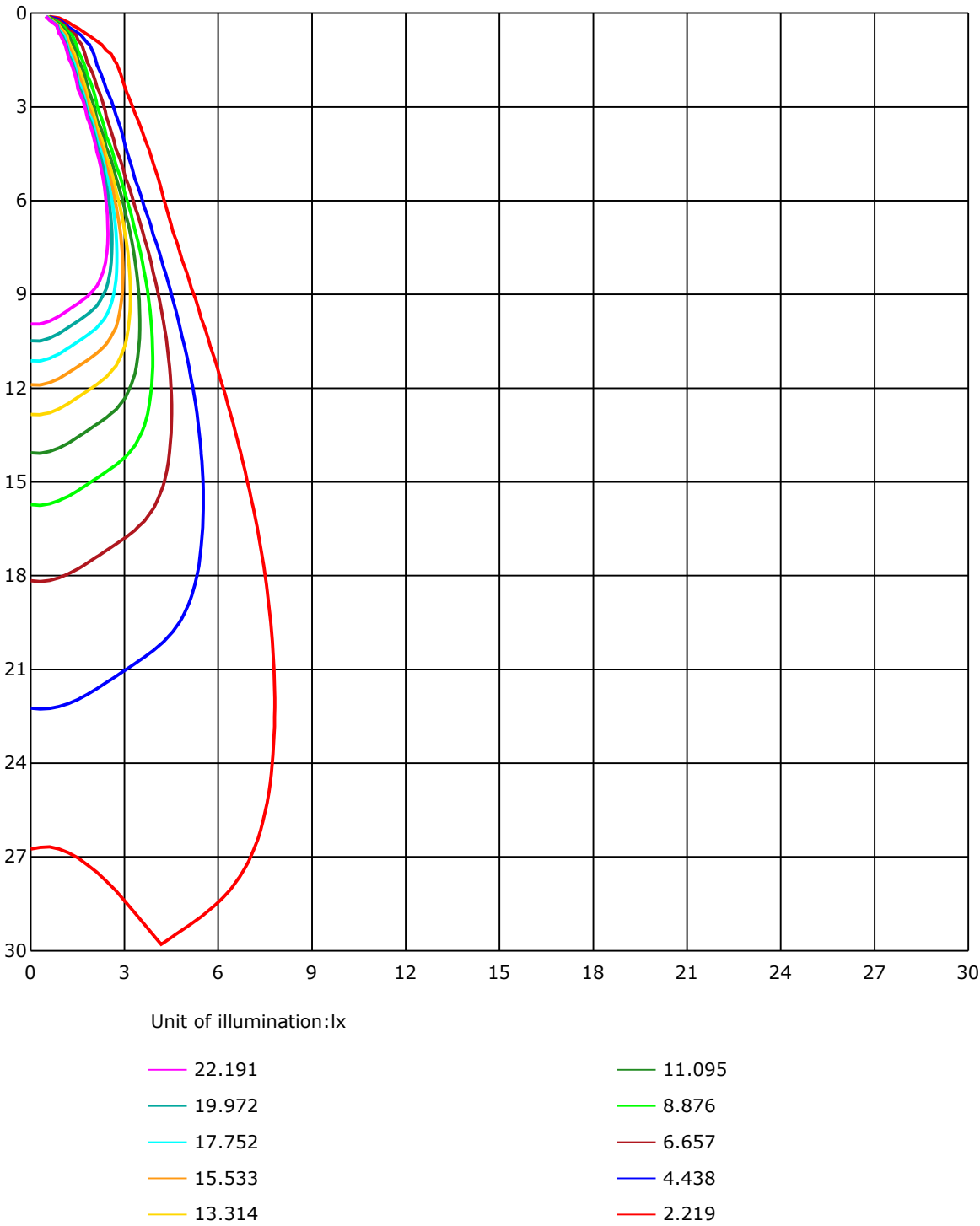
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

SPACE ISOLX DIAGRAM



LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2194.64	2091.4	2171.05	2215.41	2194.64	2091.4	2171.05	2215.41	2194.64	
G1	2202.65	2059.05	2140.83	2185.0	2174.93	2118.31	2188.82	2227.68	2202.65	
G2	2196.83	2018.82	2103.54	2140.64	2143.46	2141.27	2195.83	2225.3	2196.83	
G3	2178.25	1980.53	2059.24	2090.21	2105.48	2160.1	2192.82	2210.72	2178.25	
G4	2153.78	1939.86	2008.12	2033.28	2060.49	2170.74	2177.87	2185.44	2153.78	
G5	2124.25	1892.0	1951.37	1967.95	2003.62	2172.11	2154.35	2152.59	2124.25	
G6	2089.9	1837.38	1889.43	1899.13	1944.74	2167.73	2126.94	2117.05	2089.9	
G7	2057.18	1781.0	1826.11	1836.12	1885.18	2153.16	2096.97	2076.7	2057.18	
G8	2027.33	1713.3	1760.98	1767.49	1818.35	2127.44	2061.37	2039.09	2027.33	
G9	1998.55	1632.84	1690.53	1690.34	1744.96	2093.59	2023.45	2006.25	1998.55	
G10	1973.21	1538.3	1615.2	1606.69	1667.44	2054.67	1986.04	1977.97	1973.21	
G11	1946.06	1445.07	1530.23	1521.97	1582.29	2007.5	1949.68	1949.5	1946.06	
G12	1914.58	1343.96	1437.5	1431.12	1485.62	1954.57	1908.14	1919.21	1914.58	
G13	1876.17	1235.85	1341.21	1330.26	1384.07	1897.19	1856.9	1880.92	1876.17	
G14	1824.99	1124.72	1242.85	1225.9	1280.27	1835.87	1795.52	1830.18	1824.99	
G15	1760.17	1020.8	1139.87	1123.72	1168.21	1764.11	1724.88	1762.29	1760.17	
G16	1676.95	913.49	1032.87	1014.04	1051.77	1686.15	1640.41	1684.46	1676.95	
G17	1577.66	802.12	926.63	899.48	938.65	1605.5	1544.37	1596.8	1577.66	
G18	1465.16	693.76	821.58	784.23	828.46	1520.09	1438.19	1498.76	1465.16	
G19	1348.41	599.9	718.84	682.43	718.03	1421.05	1327.7	1384.13	1348.41	
G20	1228.21	513.0	620.8	586.39	615.98	1318.19	1218.01	1269.82	1228.21	
G21	1106.33	432.16	532.33	497.54	527.01	1216.95	1108.83	1157.07	1106.33	
G22	986.76	360.83	454.37	420.96	450.24	1115.09	999.4	1044.32	986.76	
G23	869.76	306.33	385.23	361.27	385.17	1004.66	890.84	922.32	869.76	
G24	756.57	262.85	328.55	311.28	331.67	895.66	782.48	805.5	756.57	
G25	647.33	226.56	282.87	271.48	288.94	791.42	678.24	699.32	647.33	
G26	551.04	199.97	248.83	240.76	257.03	693.5	582.07	600.53	551.04	
G27	466.01	181.45	221.74	217.67	230.44	595.46	494.16	504.3	466.01	
G28	391.3	166.18	199.47	198.28	208.16	507.74	416.64	421.96	391.3	
G29	328.48	152.54	181.45	179.88	189.39	432.1	349.32	354.95	328.48	
G30	278.55	139.4	165.56	163.68	173.06	366.21	293.94	300.26	278.55	
G31	240.07	128.89	151.41	150.85	158.55	307.33	250.71	252.78	240.07	
G32	208.29	118.94	138.59	137.65	144.28	263.16	215.73	215.99	208.29	
G33	184.51	109.18	126.33	125.64	131.46	228.75	188.52	190.46	184.51	
G34	166.74	100.55	116.0	114.81	120.44	202.91	168.81	171.56	166.74	
G35	152.85	93.41	106.62	106.49	110.75	181.57	153.1	155.54	152.85	
G36	140.9	86.78	98.8	98.98	102.61	164.74	140.15	142.34	140.9	

Report No.:

Test Time: 2025/12/9 13:52:08

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	130.58	80.65	91.54	91.16	95.1	151.23	128.7	131.71	130.58	
G38	120.38	75.08	85.34	83.72	87.78	138.84	118.44	122.32	120.38	
G39	111.68	70.58	78.77	77.83	81.15	126.89	109.81	113.0	111.68	
G40	103.55	66.38	73.2	72.83	75.39	116.19	101.49	104.43	103.55	
G41	96.29	62.13	68.95	68.14	70.45	107.12	94.04	97.17	96.29	
G42	89.6	59.13	64.88	63.82	66.45	99.23	87.22	90.72	89.6	
G43	83.34	56.37	61.82	60.13	62.38	91.91	81.53	84.53	83.34	
G44	78.08	53.87	58.63	56.87	59.06	85.53	76.02	79.09	78.08	
G45	73.58	51.68	55.81	54.12	55.87	79.9	71.33	74.39	73.58	
G46	69.08	49.8	53.43	51.81	53.43	75.08	67.32	70.08	69.08	
G47	65.07	48.55	51.49	50.05	51.37	70.45	63.38	65.76	65.07	
G48	61.25	47.05	49.99	48.37	49.74	65.88	60.19	62.13	61.25	
G49	58.31	45.74	48.49	46.99	48.24	62.82	57.12	59.31	58.31	
G50	56.12	44.55	47.18	45.67	47.11	59.94	54.62	56.75	56.12	
G51	54.06	43.42	46.18	44.61	45.92	57.0	52.31	54.62	54.06	
G52	52.18	42.61	45.17	43.48	44.86	54.56	50.43	52.81	52.18	
G53	50.49	41.48	44.24	42.67	44.17	52.93	48.8	51.24	50.49	
G54	49.24	40.54	43.92	41.98	43.48	50.87	47.74	49.8	49.24	
G55	48.11	39.61	42.8	41.04	42.55	49.37	46.61	48.43	48.11	
G56	47.05	38.42	41.86	39.86	41.48	47.99	45.8	47.36	47.05	
G57	46.18	36.6	40.73	38.48	40.29	46.93	44.86	46.68	46.18	
G58	45.42	34.35	39.36	36.73	39.11	45.74	44.17	45.67	45.42	
G59	44.67	31.47	36.1	33.6	33.72	44.99	43.8	45.3	44.67	
G60	43.92	28.34	33.22	31.16	30.91	44.3	43.42	44.49	43.92	
G61	43.3	26.47	30.66	29.09	27.59	43.74	42.98	43.8	43.3	
G62	42.36	24.65	28.72	27.15	23.21	43.23	42.11	42.92	42.36	
G63	40.61	22.21	26.47	25.03	21.15	42.42	40.73	41.17	40.61	
G64	38.67	19.65	23.65	21.9	19.58	41.55	38.73	39.23	38.67	
G65	35.73	17.52	20.58	18.71	17.89	40.29	34.1	36.48	35.73	
G66	32.22	16.02	18.58	17.02	16.08	36.41	30.91	33.22	32.22	
G67	28.53	14.64	17.21	15.45	13.83	32.97	27.97	29.66	28.53	
G68	26.53	13.2	15.52	13.95	12.01	30.28	26.03	27.4	26.53	
G69	24.28	11.58	14.45	12.2	10.07	28.47	24.15	25.59	24.28	
G70	20.4	9.95	13.01	10.57	7.88	26.28	21.4	23.15	20.4	
G71	18.33	8.32	11.58	8.88	6.07	23.34	19.08	20.52	18.33	
G72	16.64	6.76	10.14	7.2	4.5	19.96	17.58	18.77	16.64	
G73	14.77	5.19	8.51	5.63	2.94	18.4	16.02	17.33	14.77	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 13:52:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks: