

Report No.: KUPU-YT65-30D

Test Time: 2025/9/28 9:52:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-YT65
Lamp Type:
Luminous Width: 59 mm
Luminous Length: 59 mm
Luminous Height: 21 mm

Voltage(V): 24.00 V
Current(A): 0.2270 A
Power(W): 5.45 W
Power Factor: 1.0000
Lamp Luminous Flux: 603.28

Photometric Results

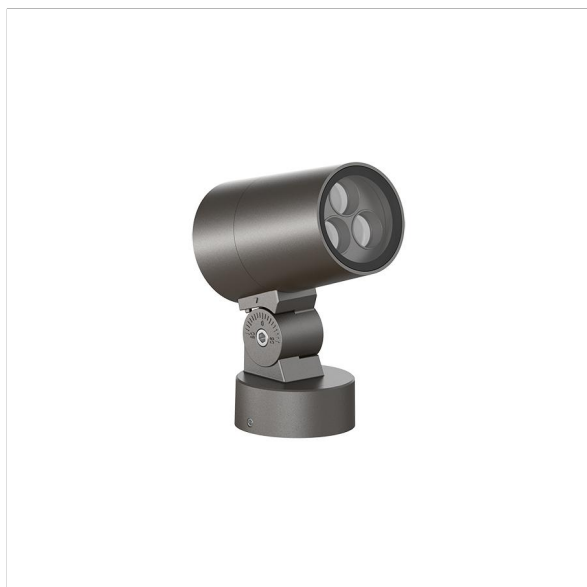
CIE Class: Direct
Luminaire Luminous Flux: 603.2771 lm
Downward Ratio: 0.17%
Luminaire Efficacy Rating(LER): 110.69 lm/W
Beam Angle(50%) C0-180,C90-270: 32.3,31.7
Field Angle(10%) C0-180,C90-270: 60.2,63.1
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 1020.35 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 99.83%
Efficacy: 100.00%
Center Intensity: 1020.35 cd
Effective Luminous Flux: 315.23 lm
ERP(ϕ use)(120deg): 444.31 lm

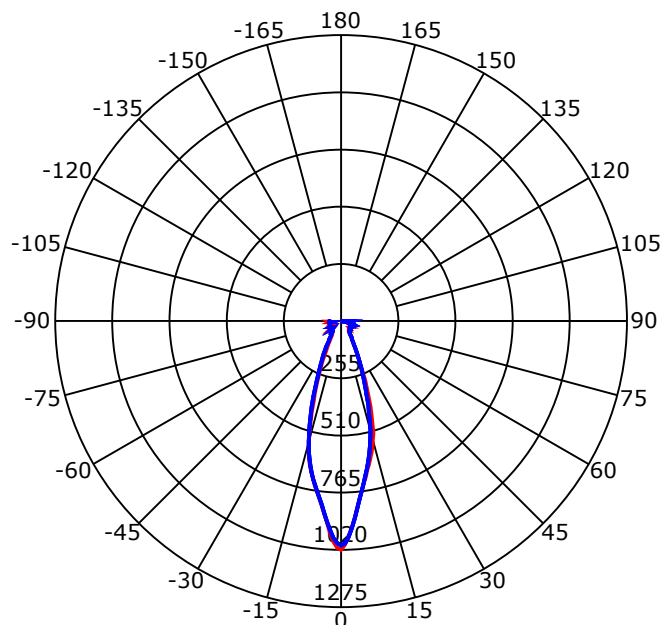
CIE Color Parameter

Chromaticity coordinates: $x=$ $y=$ $u=$ $v=$ $u^*=$ $v^*=0.0000$
Color temperature:K (duv=) Color difference:SDCM(CIE)= Main Wl: $\lambda_d=$ Purity:
Peak wavelength: $\lambda_p=$ FWHM: $\Delta\lambda_p=$ Color ratio:R= G= B=
Color rendering index :Ra=
R1= R2= R3= R4= R5= R6= R7= R8=
R9= R10= R11= R12= R13= R14= R15=

Picture of Luminaire



Luminous Intensity Distribution Curve



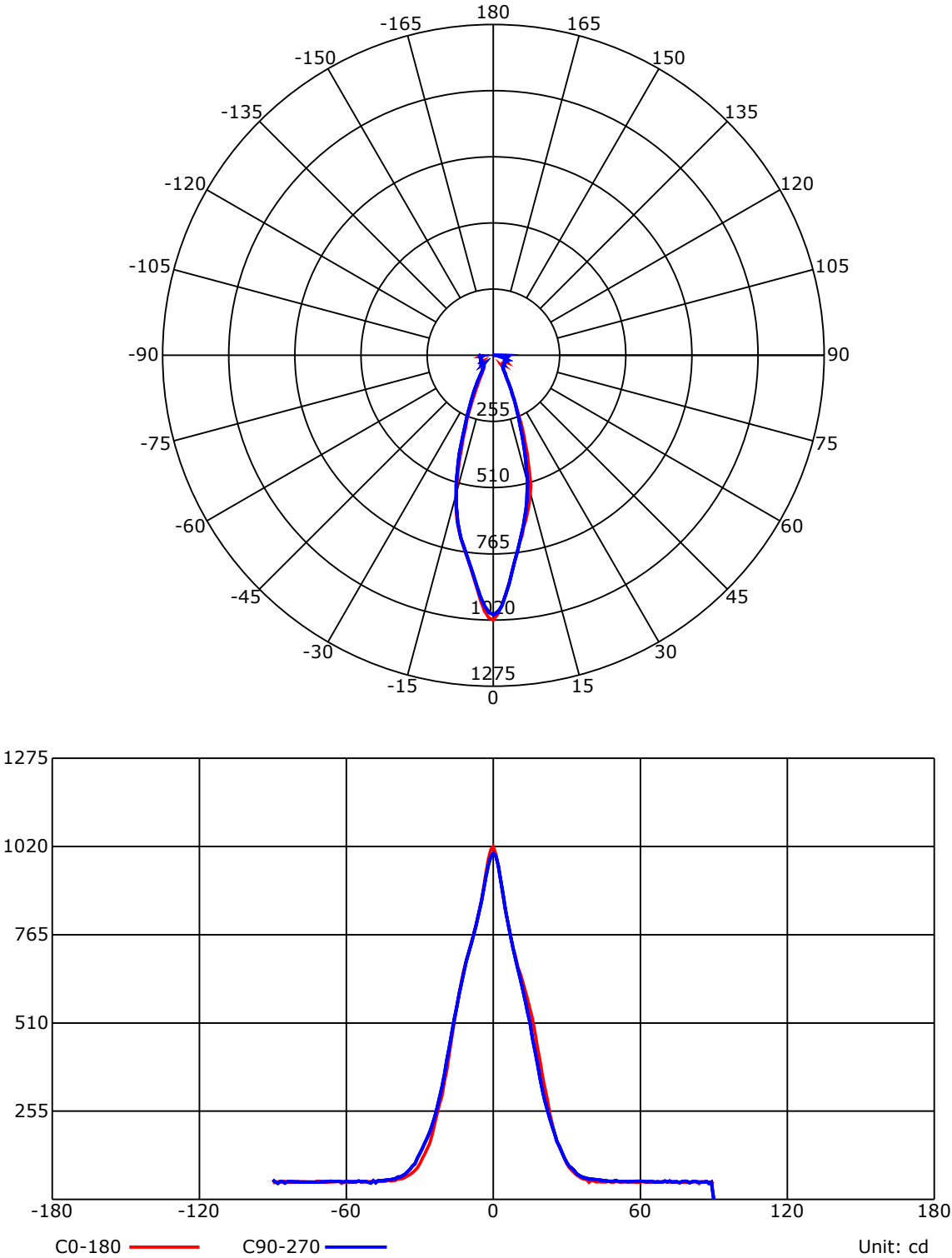
Beam Angle(50%) C0-180,C90-270: 32.3 deg,31.7 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

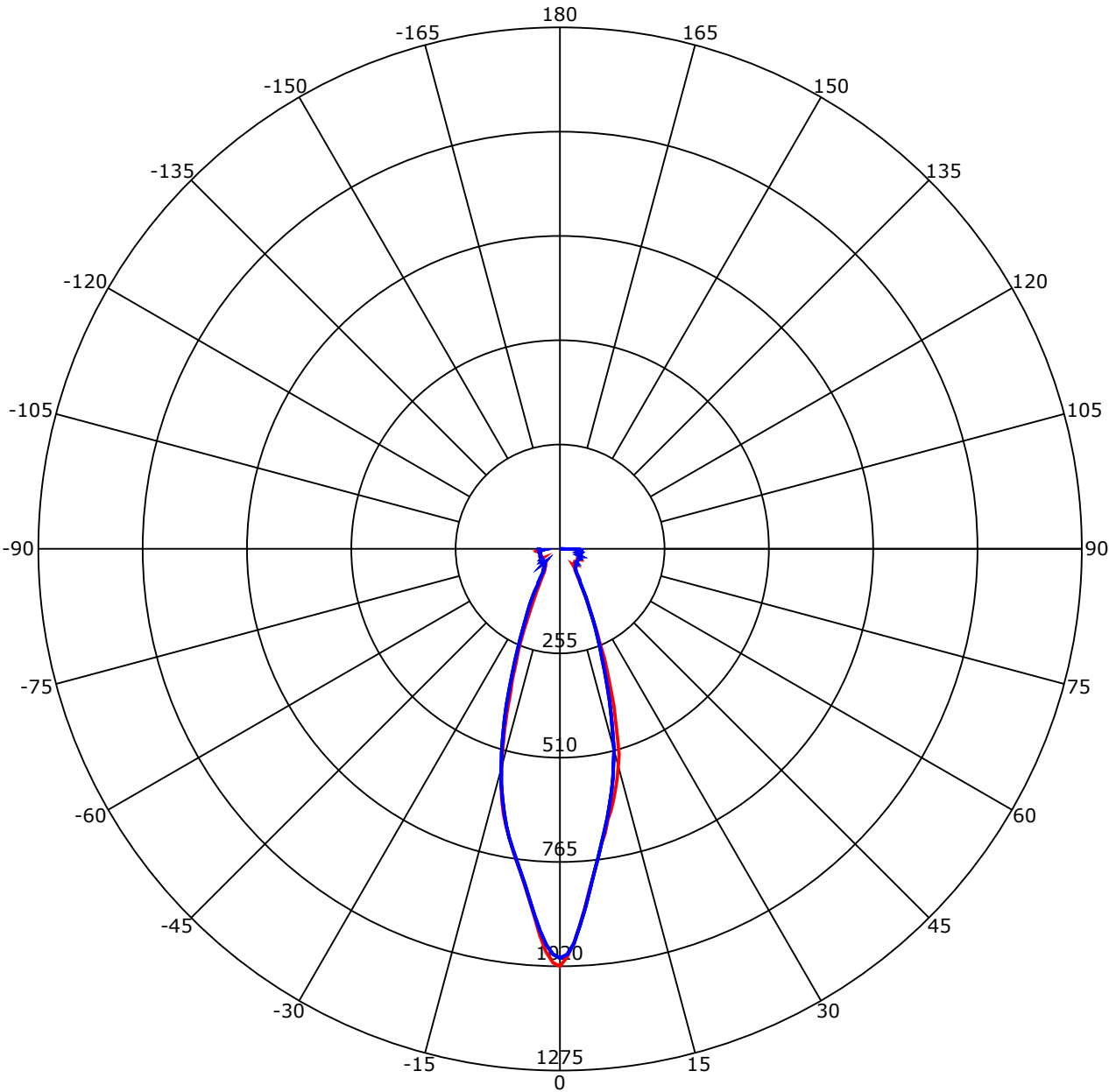
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

Luminous Intensity Distribution Curve

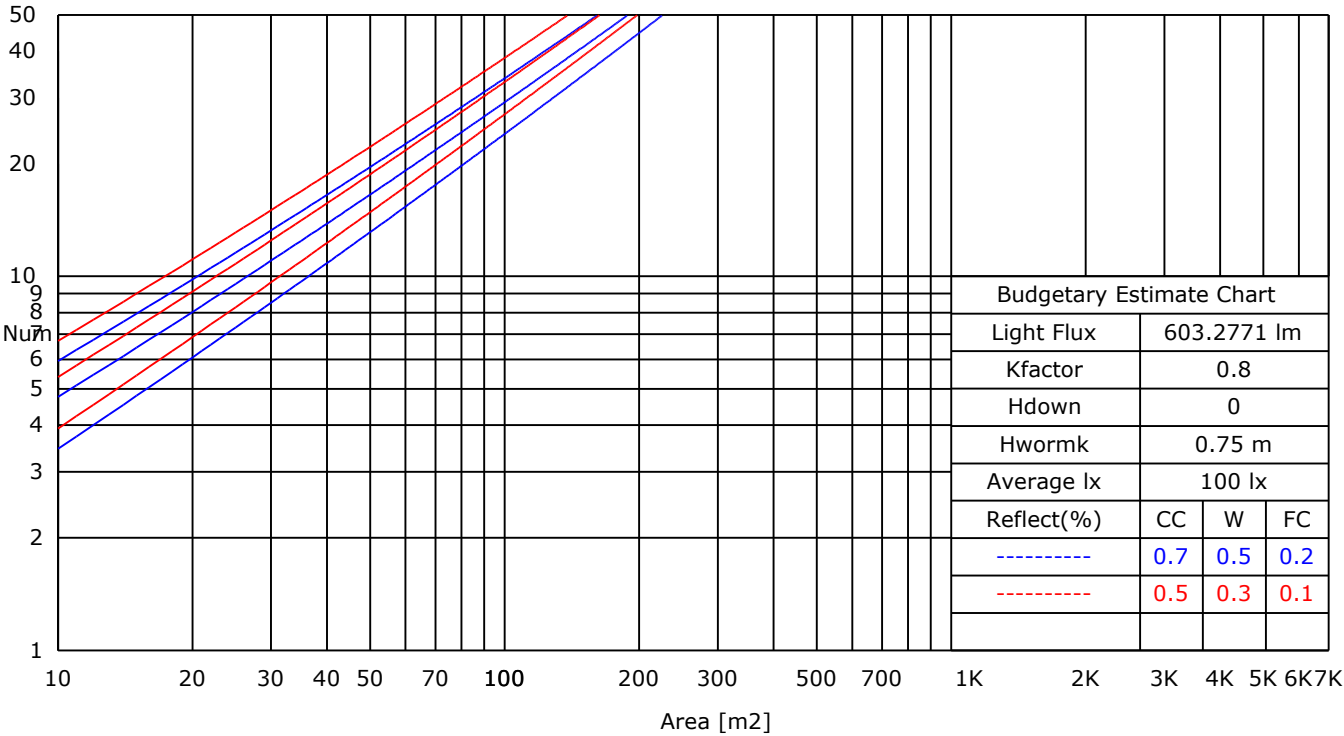


C0-180 — C90-270
Unit: cd/klm

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	0.99	0.98	0.97	0.98	0.97	0.95	0.94	0.93	0.91	0.90	0.88	0.87	0.83	0.82	0.80	0.76
2	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.80	0.77	0.75	0.75	0.72	0.70	0.65
3	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.58
4	0.71	0.69	0.68	0.71	0.68	0.66	0.70	0.66	0.63	0.68	0.64	0.60	0.65	0.60	0.57	0.53
5	0.66	0.64	0.62	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.61	0.56	0.52	0.49
6	0.61	0.59	0.58	0.61	0.59	0.57	0.61	0.57	0.54	0.59	0.55	0.52	0.58	0.53	0.49	0.45
7	0.57	0.56	0.54	0.57	0.55	0.53	0.57	0.53	0.51	0.56	0.52	0.48	0.55	0.50	0.46	0.43
8	0.54	0.52	0.51	0.54	0.52	0.50	0.54	0.50	0.48	0.53	0.49	0.46	0.52	0.47	0.43	0.40
9	0.51	0.50	0.49	0.51	0.49	0.48	0.51	0.48	0.45	0.51	0.46	0.43	0.50	0.45	0.41	0.38
10	0.49	0.47	0.46	0.49	0.47	0.45	0.49	0.45	0.43	0.48	0.44	0.41	0.47	0.43	0.39	0.36

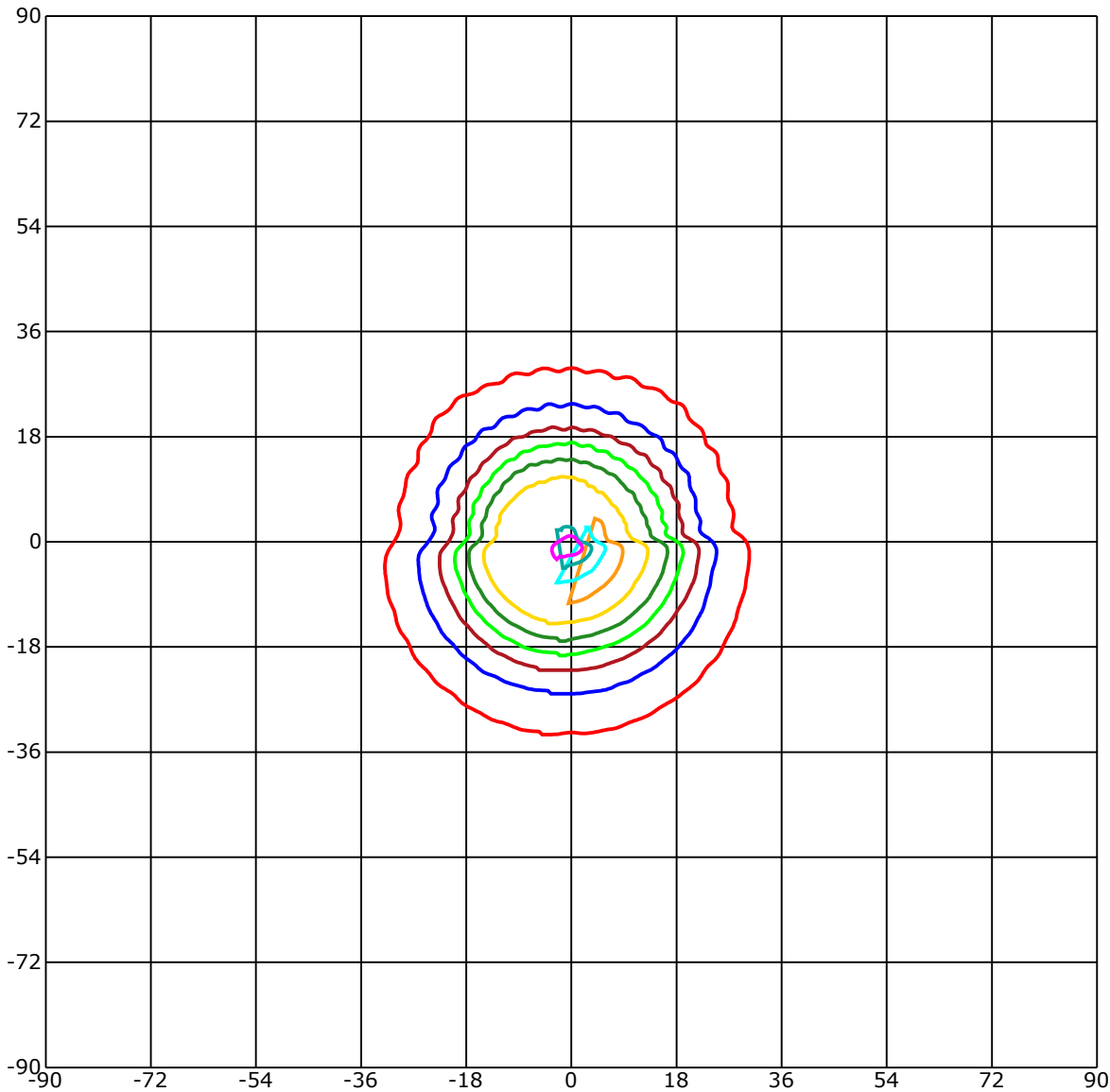
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 1020.345 cd

- | | |
|------------------|------------------|
| 969.328(95%Imax) | 510.173(50%Imax) |
| 918.311(90%Imax) | 408.138(40%Imax) |
| 816.276(80%Imax) | 306.104(30%Imax) |
| 714.242(70%Imax) | 204.069(20%Imax) |
| 612.207(60%Imax) | 102.035(10%Imax) |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

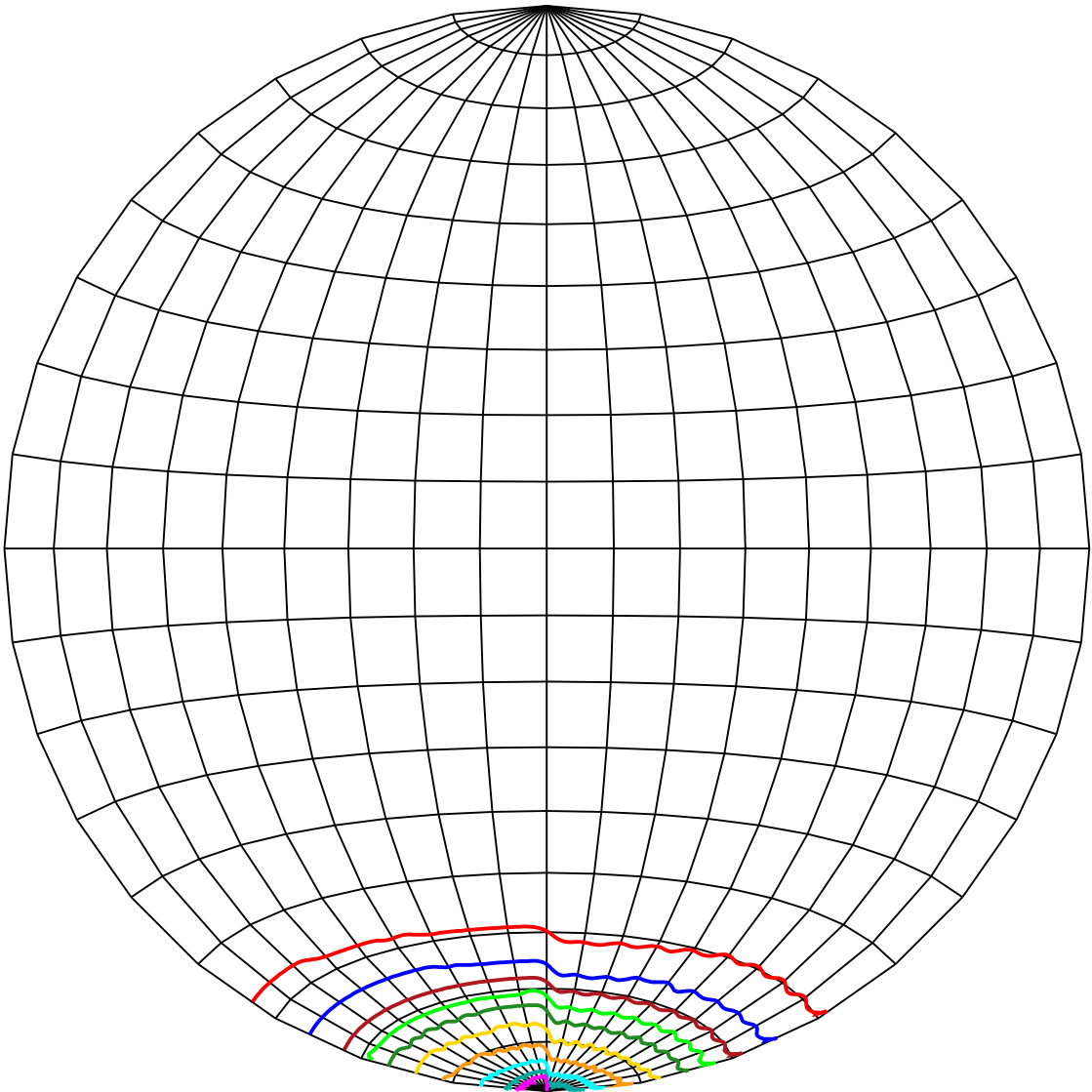
Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

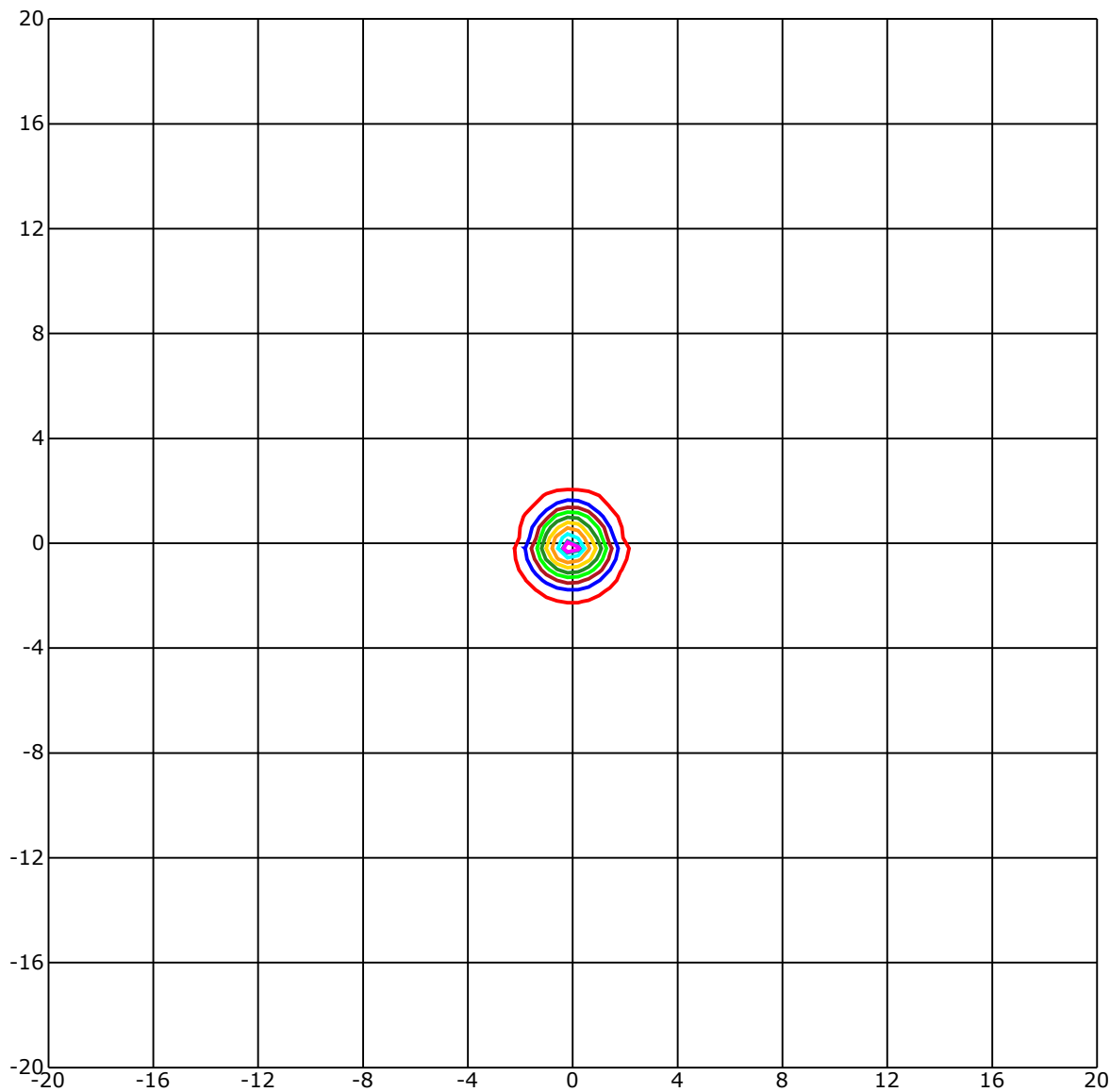
ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1020.345 cd

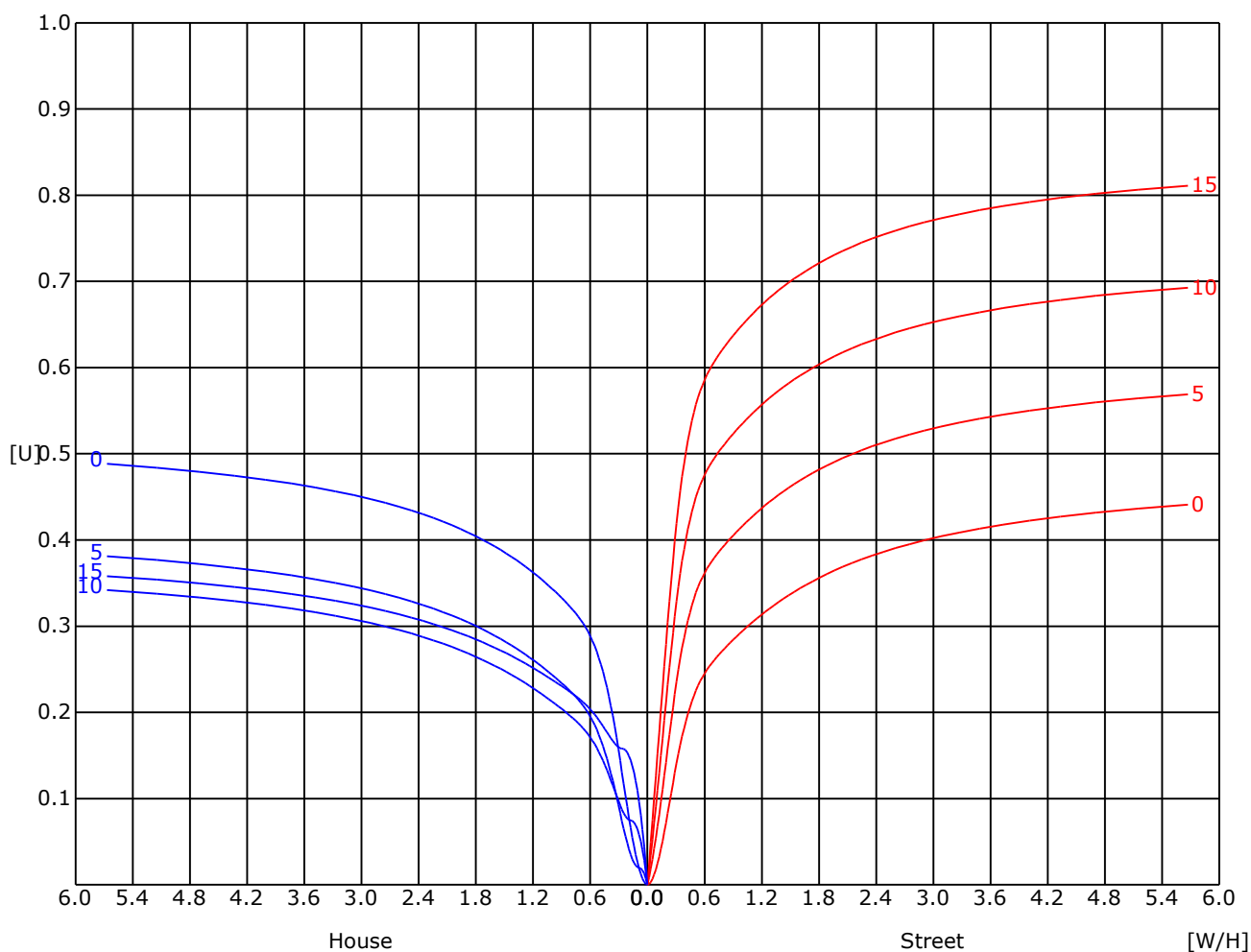
- | | |
|-------------------------------|-------------------------------|
| 969.328(95%I _{max}) | 510.173(50%I _{max}) |
| 918.311(90%I _{max}) | 408.138(40%I _{max}) |
| 816.276(80%I _{max}) | 306.104(30%I _{max}) |
| 714.242(70%I _{max}) | 204.069(20%I _{max}) |
| 612.207(60%I _{max}) | 102.035(10%I _{max}) |

ISOLX DIAGRAM



Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)	
58.67(92%Emax)	31.886(50%Emax)
57.394(90%Emax)	25.509(40%Emax)
51.017(80%Emax)	19.131(30%Emax)
44.64(70%Emax)	12.754(20%Emax)
38.263(60%Emax)	6.377(10%Emax)

UTILIZATION FACTOR DIAGRAM (ROAD)

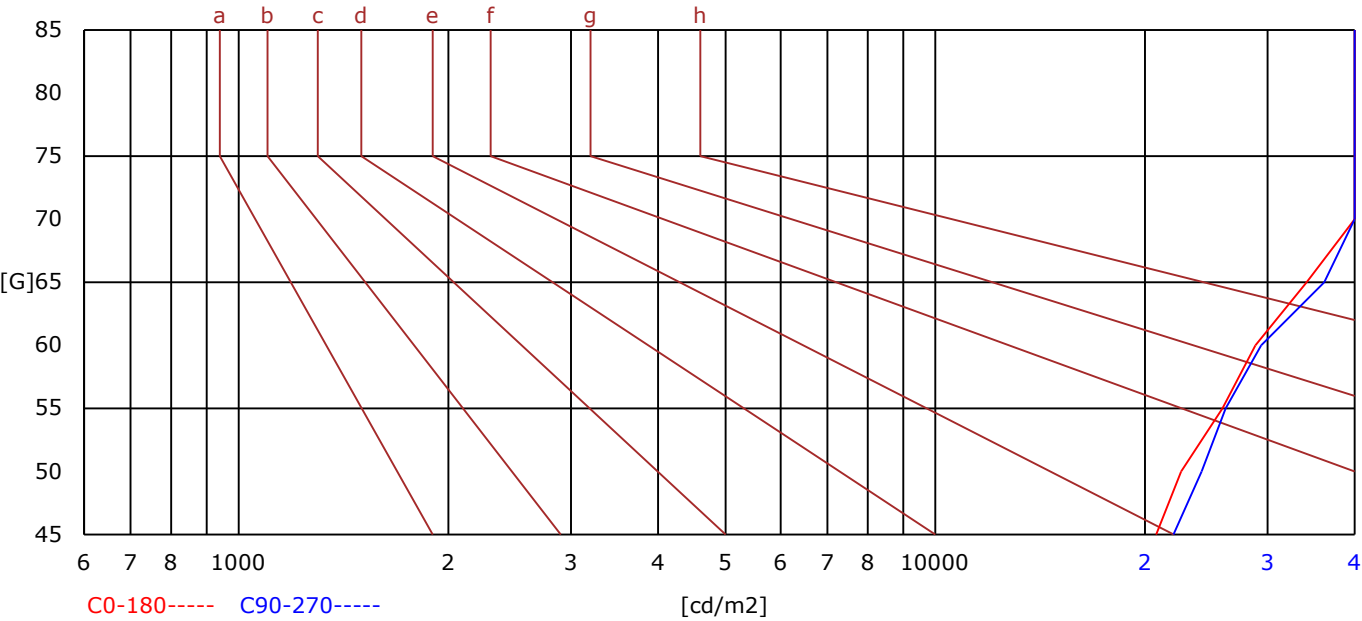


C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/28 9:52:54

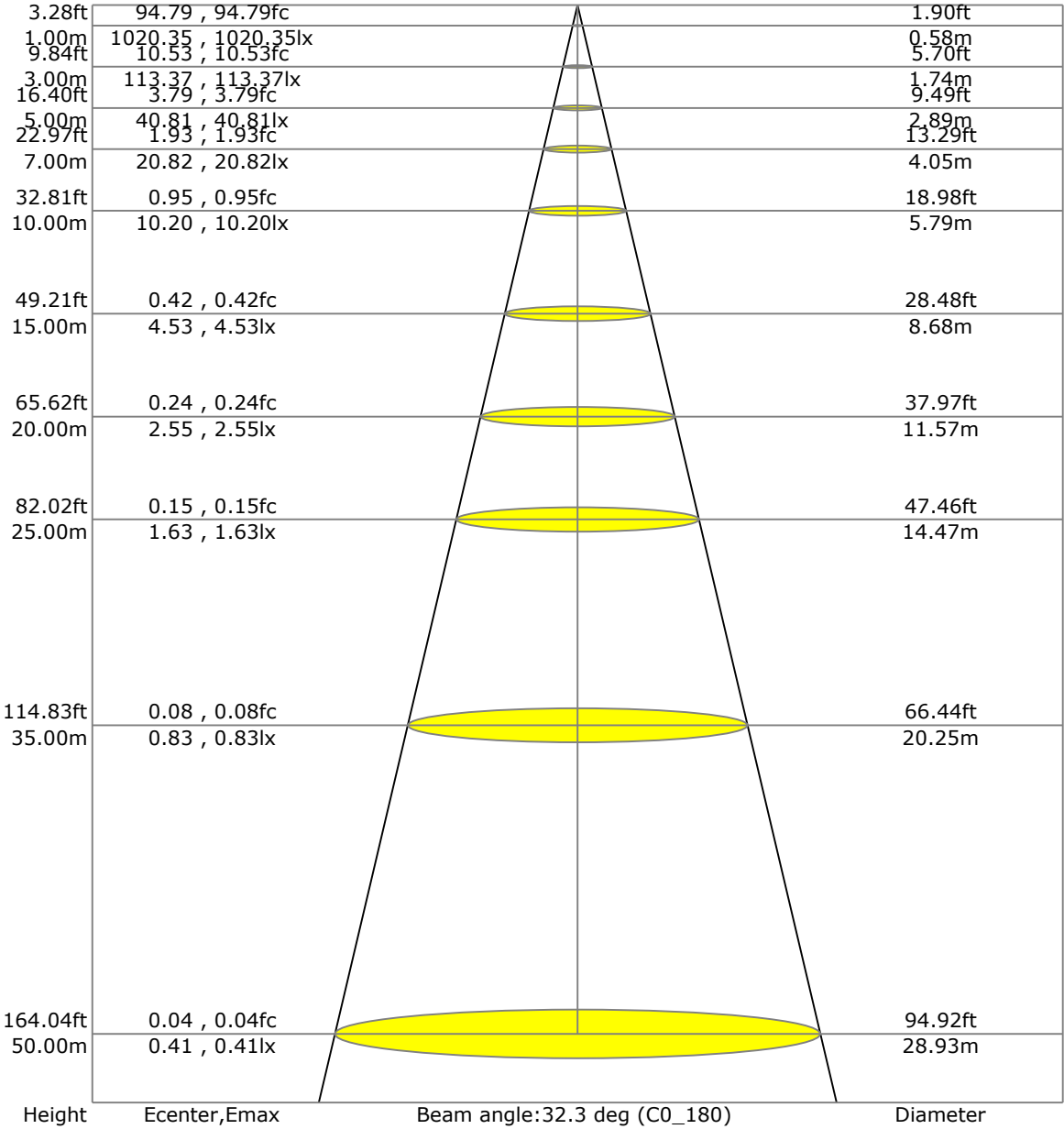
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	20763	22526	25840	28807	34112	42409	55407	84622	164538
C90	21961	24120	26104	29364	36147	42705	57655	87972	166279
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



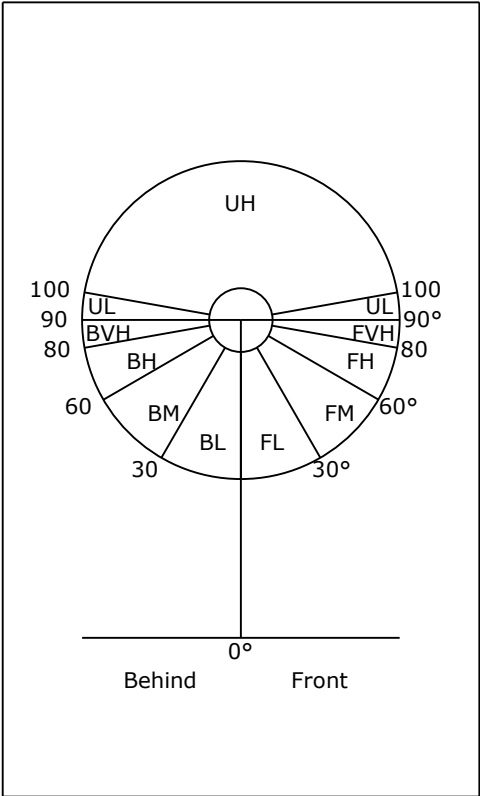
LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	285.2	47.3
FL (0°-30°)	140.7	23.3
FM (30°-60°)	65.1	10.8
FH (60°-80°)	52.2	8.6
FVH (80°-90°)	27.3	4.5

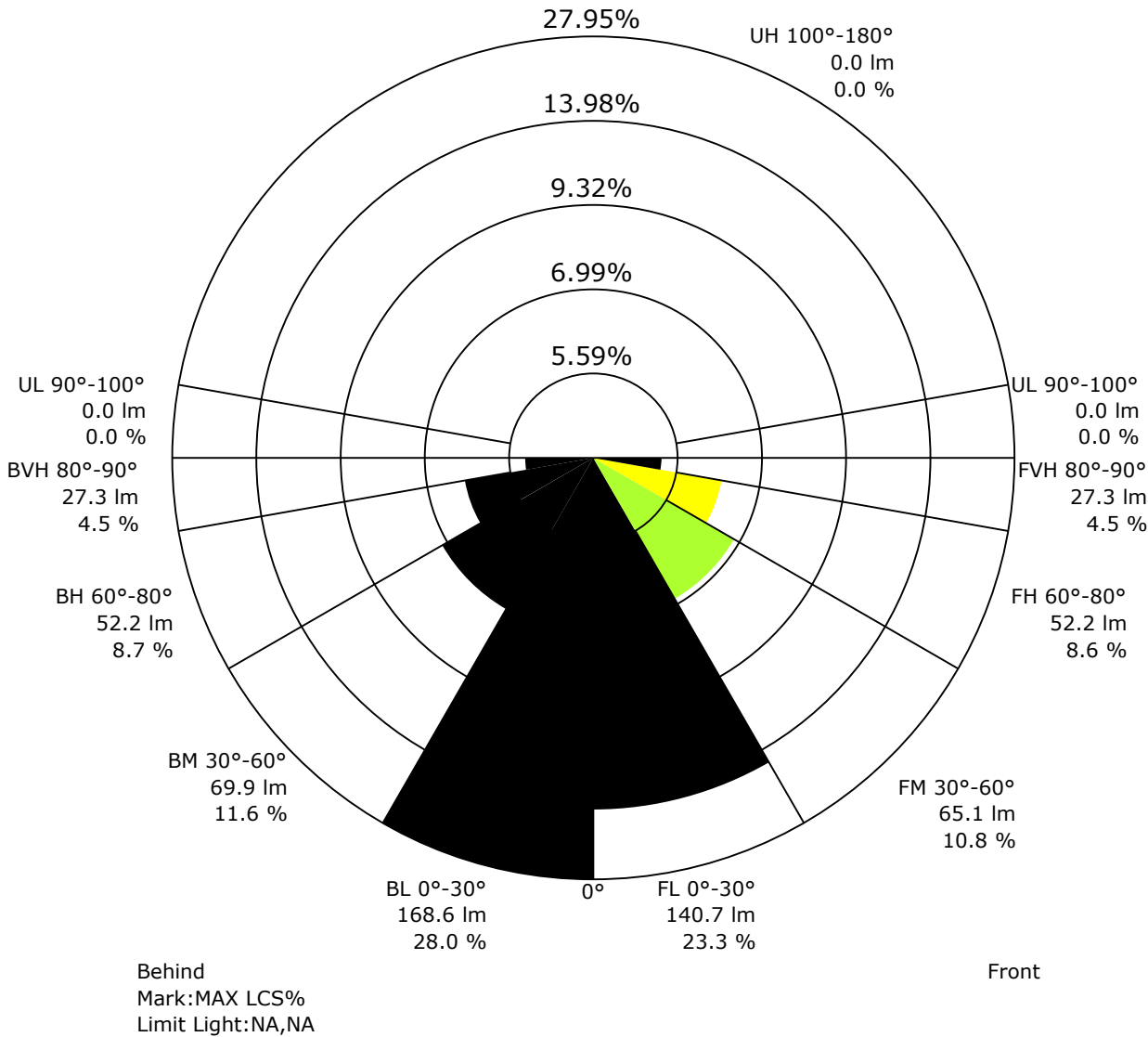
Behind	318.1	52.7
BL (0°-30°)	168.6	28.0
BM (30°-60°)	69.9	11.6
BH (60°-80°)	52.2	8.7
BVH (80°-90°)	27.3	4.5

Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0

Limit Light	NA	NA
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BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B1 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B1 U0 G1

LCS 图



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	22.77	23.21	22.83	23.49	23.83	22.85	23.29	22.91	23.57	23.91
3H	23.00	23.43	23.08	23.72	24.08	23.08	23.50	23.16	23.79	24.16
4H	23.06	23.48	23.16	23.77	24.15	23.14	23.55	23.24	23.85	24.23
6H	23.04	23.44	23.16	23.74	24.14	23.11	23.51	23.23	23.81	24.21
8H	22.96	23.36	23.09	23.66	24.07	23.03	23.43	23.16	23.73	24.14
12H	22.88	23.27	23.02	23.58	23.99	22.95	23.34	23.09	23.65	24.06
4H 2H	27.86	28.27	27.96	28.57	28.95	27.86	28.27	27.96	28.57	28.95
3H	28.30	28.69	28.45	29.00	29.42	28.30	28.69	28.44	29.00	29.41
4H	28.47	28.83	28.64	29.16	29.59	28.46	28.83	28.64	29.15	29.59
6H	28.56	28.90	28.77	29.23	29.70	28.56	28.90	28.77	29.24	29.70
8H	28.57	28.89	28.80	29.24	29.72	28.57	28.90	28.80	29.24	29.72
12H	28.53	28.83	28.77	29.18	29.68	28.53	28.84	28.78	29.19	29.68
8H 4H	30.80	31.20	30.93	31.51	31.91	30.81	31.21	30.94	31.51	31.92
6H	32.22	32.50	32.49	32.86	33.38	32.20	32.49	32.47	32.85	33.36
8H	32.35	32.61	32.65	32.98	33.52	32.34	32.60	32.64	32.97	33.50
12H	32.45	32.67	32.77	33.06	33.61	32.44	32.66	32.76	33.04	33.60
12H 4H	33.20	33.50	33.44	33.85	34.35	33.19	33.50	33.44	33.85	34.35
6H	33.70	33.95	33.99	34.33	34.86	33.70	33.95	33.99	34.33	34.86

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C5	C10	C15	C20	C25	C30	C35	γ	φ zonal	φ total	%lum	%lamp
10	671.8	586.7	621.4	587.2	622.0	574.2	624.2	579.2	10	75.0	75.0	12.4	12.4
20	359.9	244.4	296.8	246.6	297.6	251.9	298.4	253.8	20	142.3	217.3	36.0	36.0
30	103.1	76.2	87.6	77.3	90.9	77.3	93.4	82.1	30	92.0	309.3	51.3	51.3
40	54.6	54.0	51.2	52.3	54.5	54.6	57.4	56.5	40	47.0	356.3	59.1	59.1
50	51.9	50.4	51.5	50.6	52.5	50.8	54.4	52.4	50	41.8	398.1	66.0	66.0
60	49.3	50.1	50.8	52.0	51.0	51.7	51.6	50.5	60	46.2	444.3	73.6	73.6
70	51.1	50.5	52.4	50.3	50.5	50.6	50.8	50.9	70	50.6	495.0	82.0	82.0
80	49.3	51.2	50.6	50.3	51.9	50.6	50.7	50.7	80	53.8	548.7	91.0	91.0
90	46.4	56.0	0.0	50.8	0.0	42.2	0.0	56.0	90	54.6	603.3	100.0	100.0

Conical surface Flux(90deg) : 376.8 lm

%lum = 62.5%

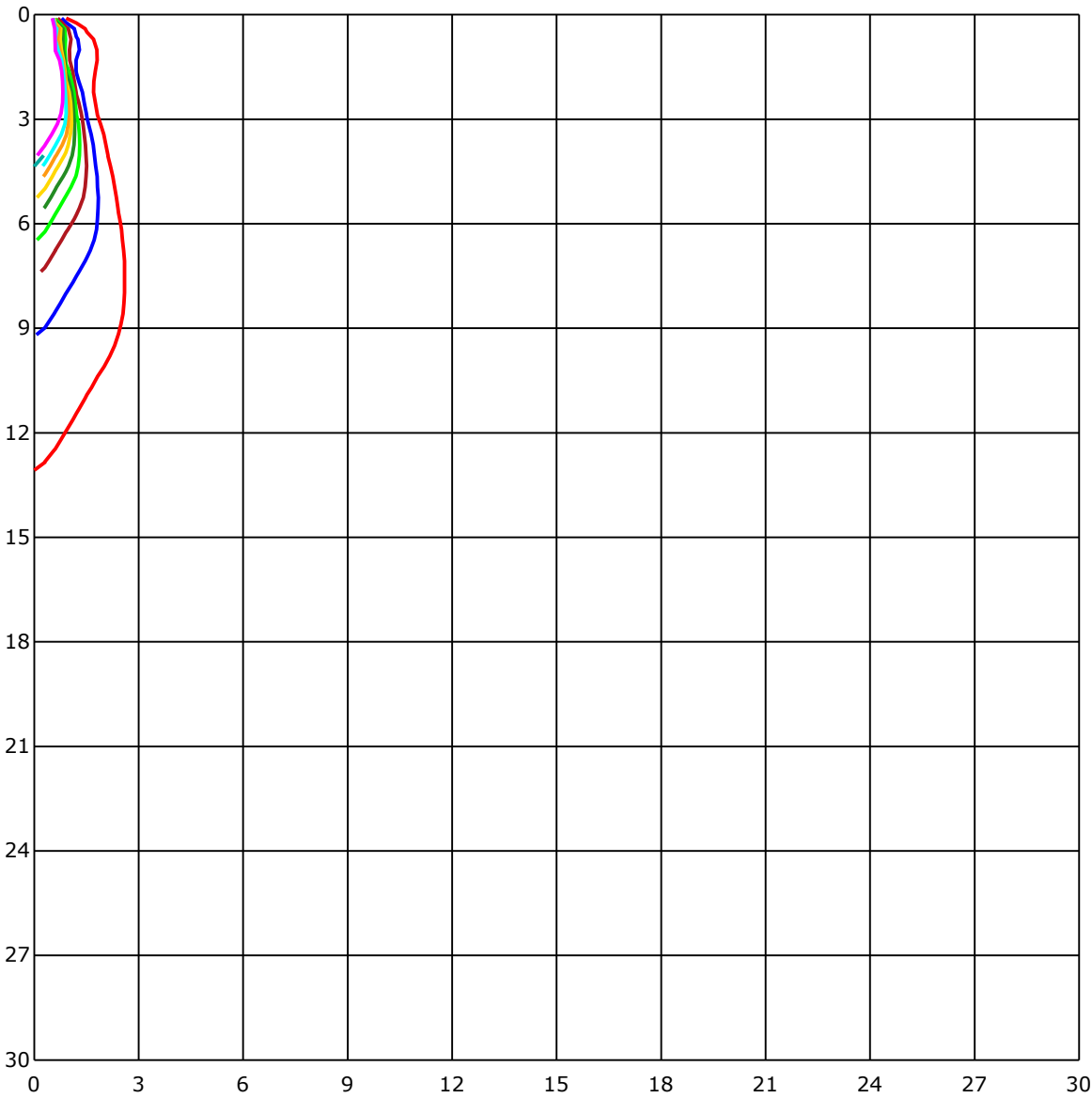
%lamp = 62.5%

Conical surface Flux(120deg) : 444.3 lm

%lum = 73.6%

%lamp = 73.6%

SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|--------|--------|
| 59.701 | 29.851 |
| 53.731 | 23.88 |
| 47.761 | 17.91 |
| 41.791 | 11.94 |
| 35.821 | 5.97 |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G0	1020.35	931.38	989.27	937.94	984.2	944.06	990.46	941.42	990.32	949.16
G1	998.07	884.06	955.06	882.78	958.01	890.97	960.08	899.29	963.25	905.45
G2	963.07	833.48	907.04	836.91	909.85	845.28	915.49	846.11	920.77	855.18
G3	920.82	788.01	849.68	790.96	856.28	798.4	864.12	800.9	869.8	807.9
G4	876.53	749.75	807.02	751.51	814.77	753.1	815.3	757.63	826.61	766.44
G5	833.61	717.49	767.85	719.51	767.18	720.74	774.1	723.65	777.35	731.7
G6	796.46	693.49	734.17	688.3	733.11	691.12	737.91	693.94	740.99	691.95
G7	761.77	660.83	702.52	659.03	704.02	663.16	703.14	663.12	709.17	666.77
G8	727.21	635.34	674.26	637.46	675.31	635.34	678.4	634.42	678.66	638.69
G9	704.5	610.6	647.63	607.35	647.8	607.48	649.17	611.0	650.93	610.03
G10	671.84	586.7	621.43	587.19	622.01	574.16	624.21	579.17	622.67	582.26
G11	652.12	561.3	597.05	554.13	595.95	547.48	596.39	551.75	595.55	553.99
G12	627.73	531.94	571.25	524.77	568.61	522.61	569.4	523.71	568.17	524.06
G13	602.99	499.72	543.65	494.44	540.48	491.0	542.55	486.6	540.0	492.41
G14	577.9	462.39	512.53	457.59	509.53	458.29	505.79	459.44	508.87	457.77
G15	549.64	423.08	477.31	421.76	472.25	420.48	477.53	423.47	475.51	422.64
G16	522.87	384.34	440.29	385.44	439.06	384.25	438.71	387.16	439.85	386.01
G17	480.3	346.62	402.43	350.58	402.12	348.55	402.87	350.36	403.23	351.06
G18	439.19	310.91	366.34	315.45	366.56	318.88	366.38	315.14	366.86	317.12
G19	403.49	274.91	331.12	281.38	331.03	280.89	331.69	283.09	331.87	285.25
G20	359.91	244.4	296.78	246.65	297.58	251.93	298.41	253.78	303.96	254.97
G21	325.09	206.23	261.04	214.6	265.66	224.02	269.4	228.33	269.27	225.91
G22	289.57	180.44	226.18	183.39	232.69	195.23	242.95	205.53	242.29	202.41
G23	248.41	162.96	196.51	162.39	201.79	170.53	217.2	182.82	219.4	188.89
G24	219.57	145.71	173.62	145.62	175.42	150.68	191.36	160.81	198.75	171.06
G25	191.14	131.53	155.66	131.0	158.25	135.27	166.92	139.94	180.75	154.11
G26	168.99	115.73	142.54	116.43	141.39	121.5	146.1	123.48	161.16	137.34
G27	148.66	102.39	124.71	102.04	127.75	109.04	129.99	110.27	140.91	120.84
G28	135.58	88.22	108.55	92.13	113.84	96.27	116.21	99.97	122.82	106.22
G29	118.59	83.11	96.71	81.57	100.98	85.14	104.5	90.95	109.65	93.72
G30	103.1	76.2	87.56	77.34	90.86	77.26	93.41	82.14	97.02	87.29
G31	92.18	70.48	83.64	72.06	82.76	71.05	86.24	74.17	91.34	76.29
G32	83.42	64.62	74.13	67.31	75.8	66.51	75.58	68.63	82.89	73.51
G33	76.51	61.06	71.97	62.73	70.39	62.99	70.12	64.71	75.41	65.41
G34	70.74	58.68	64.09	59.65	65.99	60.4	65.9	61.41	67.09	61.1
G35	65.55	57.09	61.98	57.58	62.46	58.33	65.06	59.12	63.57	58.94
G36	61.1	55.42	60.0	55.95	59.82	56.79	61.54	57.4	61.28	57.23

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G37	58.94	56.57	58.81	54.5	58.24	55.82	60.0	56.17	60.26	58.5
G38	57.67	54.14	57.67	53.48	57.05	55.29	59.21	55.33	58.77	55.69
G39	49.74	53.84	56.96	52.87	58.63	55.29	51.86	54.28	58.11	55.82
G40	54.59	54.01	51.24	52.34	54.54	54.63	57.4	56.48	57.8	55.47
G41	53.4	53.53	54.76	51.94	56.87	54.28	56.26	52.87	56.92	55.03
G42	50.45	52.96	53.44	51.72	53.44	53.7	54.85	52.25	55.95	54.28
G43	51.15	51.9	52.91	52.3	54.19	52.69	53.48	51.94	54.19	53.0
G44	50.67	51.5	52.65	52.47	53.22	52.3	52.91	51.77	53.4	52.87
G45	50.45	51.11	52.43	52.65	53.4	51.77	52.6	53.26	52.87	51.5
G46	50.23	50.84	54.98	52.65	53.48	51.42	55.33	52.21	52.6	51.42
G47	52.65	50.62	51.9	47.76	53.79	51.15	52.25	52.91	55.33	51.37
G48	49.61	50.45	51.59	51.11	53.62	50.93	52.03	52.87	54.98	51.28
G49	49.48	50.4	51.5	50.89	48.55	50.76	51.86	52.69	54.81	50.67
G50	51.94	50.4	51.5	50.62	52.52	50.8	54.41	52.38	51.9	50.93
G51	51.06	50.62	51.86	53.13	51.5	50.71	51.5	51.64	53.22	50.8
G52	49.52	51.02	52.25	50.49	51.28	50.71	53.48	51.2	52.08	50.8
G53	50.36	51.59	52.52	50.45	51.02	53.4	51.55	50.84	52.52	50.76
G54	50.93	51.86	52.69	50.27	50.93	51.11	51.86	50.62	52.87	50.67
G55	50.49	51.59	48.11	50.32	50.98	51.37	52.43	53.22	52.91	50.71
G56	50.45	51.11	51.9	50.32	50.89	51.81	52.69	50.58	52.74	51.06
G57	49.96	50.01	51.15	50.45	51.06	52.21	52.82	50.54	52.34	51.5
G58	49.43	52.52	50.89	51.46	51.02	52.21	48.42	53.13	51.37	52.21
G59	49.26	50.1	50.93	51.81	50.93	51.86	51.99	50.45	51.06	52.3
G60	49.35	50.14	50.84	52.03	51.02	51.72	51.59	50.49	51.15	52.16
G61	51.9	50.14	50.89	45.52	52.03	51.33	51.11	50.49	51.02	46.49
G62	49.35	50.05	50.93	51.11	48.69	50.62	50.93	50.67	50.89	51.11
G63	49.52	50.05	53.44	50.71	52.16	50.62	50.84	51.68	51.11	50.84
G64	49.43	50.01	53.53	50.45	52.47	50.71	50.58	51.2	50.67	50.58
G65	52.08	50.18	50.84	52.91	52.52	53.22	50.89	52.16	51.06	50.45
G66	49.52	50.98	51.02	50.32	52.08	50.58	50.98	52.38	51.28	50.45
G67	50.36	51.37	51.33	50.27	51.64	50.49	50.54	52.16	51.46	50.54
G68	50.54	51.5	52.12	50.32	51.11	50.45	50.89	51.81	48.95	50.54
G69	51.11	51.02	52.38	50.32	50.4	50.49	50.98	51.28	52.52	50.45
G70	51.06	50.49	52.38	50.32	50.54	50.58	50.76	50.89	52.6	50.45
G71	50.76	50.1	52.03	50.4	50.54	52.87	51.33	50.4	52.43	50.45
G72	50.4	50.1	51.11	50.58	50.54	51.02	51.68	50.76	52.12	50.32
G73	49.57	49.87	50.76	47.98	50.49	51.94	46.09	50.49	52.78	51.2

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma\C	C50	C55	C60	C65	C70	C75	C80	C85	C90	C95
G0	992.3	956.56	995.65	964.0	994.07	971.53	997.23	974.65	1000.14	987.07
G1	967.83	911.97	978.0	924.07	979.45	934.46	985.17	947.45	991.73	954.93
G2	927.46	866.23	934.68	876.31	945.33	889.03	955.59	904.04	965.14	912.41
G3	875.69	819.35	888.37	829.65	899.77	843.56	913.9	857.69	922.62	864.95
G4	831.76	776.08	841.36	785.81	854.08	799.67	868.61	813.41	881.46	820.93
G5	787.26	738.84	800.24	748.39	807.95	761.33	821.33	773.52	836.08	782.42
G6	750.19	700.36	758.07	716.43	773.35	725.23	778.5	737.96	795.89	747.86
G7	714.67	672.06	723.52	679.63	735.84	692.61	748.52	705.78	760.49	715.59
G8	682.67	639.79	690.94	647.76	702.43	660.83	715.77	673.47	727.08	685.04
G9	652.51	612.54	659.51	615.89	669.33	631.91	683.37	643.93	696.75	653.39
G10	624.25	584.76	629.89	593.0	638.65	605.23	652.25	622.14	666.91	626.28
G11	596.08	557.03	598.02	565.4	611.0	577.81	625.0	586.09	635.65	595.68
G12	569.27	533.04	575.34	536.69	584.41	541.32	596.25	553.99	605.59	562.14
G13	541.85	501.96	546.95	505.09	555.05	513.41	565.53	522.56	574.24	527.36
G14	510.63	462.26	515.87	469.7	524.1	476.26	533.0	484.0	539.64	489.73
G15	477.22	426.73	482.15	432.81	489.68	438.93	496.81	446.81	509.67	452.44
G16	442.89	390.68	446.32	394.73	452.84	402.92	458.96	406.84	465.82	413.0
G17	407.36	355.95	409.78	357.66	415.24	362.86	421.54	369.99	427.48	374.74
G18	371.53	321.66	373.64	322.76	381.96	326.63	383.33	333.63	391.34	338.16
G19	336.75	289.21	337.94	289.43	341.2	293.04	346.44	300.53	352.16	303.52
G20	302.77	259.59	305.1	259.94	307.13	263.33	312.59	270.2	317.03	272.62
G21	272.05	232.96	274.91	234.32	275.83	237.27	282.43	242.82	286.66	245.9
G22	244.09	209.71	247.17	209.14	248.49	213.28	248.67	218.25	258.71	221.29
G23	219.97	189.07	223.45	190.87	224.9	192.94	230.36	196.77	234.1	199.5
G24	198.09	171.41	201.66	173.53	203.64	174.85	208.3	176.17	211.56	180.53
G25	179.56	154.11	182.46	156.27	184.97	157.2	187.7	157.55	190.65	162.04
G26	162.52	139.15	165.03	139.98	167.19	141.26	165.3	140.29	166.53	144.83
G27	146.98	124.62	148.61	124.84	150.02	126.34	150.86	124.45	152.53	128.5
G28	135.45	111.42	133.25	111.15	133.21	106.31	133.82	114.67	135.05	111.46
G29	119.34	99.84	123.17	98.56	119.03	96.58	118.46	99.0	119.65	101.2
G30	106.53	89.32	105.87	88.66	105.52	88.39	105.52	89.58	106.57	91.12
G31	95.26	80.82	98.69	80.78	93.85	81.61	95.04	81.92	95.7	86.06
G32	78.93	74.44	85.44	74.17	85.44	75.05	89.89	76.29	90.73	76.42
G33	77.83	69.68	80.16	69.29	78.4	70.04	79.24	71.71	83.42	74.39
G34	66.91	66.16	73.07	68.58	72.55	66.07	73.56	67.88	74.04	66.91
G35	67.13	57.89	69.33	62.77	68.58	63.08	69.2	58.99	69.6	63.74
G36	63.13	61.14	66.56	61.28	68.14	60.7	67.53	62.46	65.94	61.28

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

Gamma\C	C100	C105	C110	C115	C120	C125	C130	C135	C140	C145
G0	1003.09	998.34	1007.05	997.5	1007.76	996.0	1010.13	1007.71	1012.64	1005.55
G1	996.79	967.43	1003.49	967.87	1005.64	972.98	1013.39	972.89	1012.03	975.84
G2	978.57	920.2	976.24	927.11	982.66	929.09	984.86	927.42	987.86	929.49
G3	933.8	875.39	940.98	880.1	948.9	880.89	945.69	881.42	946.66	883.53
G4	888.5	830.27	895.72	828.24	898.63	833.74	904.57	835.37	902.15	839.86
G5	847.3	791.53	854.12	794.3	850.82	794.08	852.63	797.73	853.24	803.94
G6	803.02	754.99	806.49	752.17	808.83	757.98	811.34	758.6	820.14	768.86
G7	768.07	721.93	770.53	724.75	770.62	725.19	775.77	732.45	777.93	738.22
G8	732.76	690.24	736.77	692.17	738.66	695.61	743.24	702.56	746.98	710.44
G9	702.52	661.4	704.1	663.43	708.29	667.65	713.7	677.21	717.71	684.65
G10	673.64	630.99	675.14	634.9	679.8	640.27	685.66	651.02	692.22	660.57
G11	643.88	600.22	648.2	605.67	651.63	613.95	659.2	624.3	670.69	640.98
G12	613.38	568.08	614.48	575.92	622.27	586.44	632.79	595.24	645.2	611.13
G13	581.68	535.99	589.21	544.97	592.95	550.52	603.12	563.11	616.81	571.12
G14	545.01	498.44	557.87	509.97	567.55	514.2	578.03	530.49	585.78	530.97
G15	512.18	461.33	523.49	473.53	534.76	481.41	541.32	490.61	549.24	488.71
G16	474.89	422.2	486.51	431.66	496.68	439.45	507.38	446.89	507.91	443.99
G17	435.4	388.52	446.54	391.47	455.74	396.18	459.88	398.34	464.72	400.85
G18	396.62	345.25	405.82	352.56	412.73	355.99	416.43	357.84	414.93	360.48
G19	359.25	311.0	366.12	316.59	371.4	318.0	374.39	321.04	378.84	323.02
G20	323.33	278.74	329.71	283.71	334.42	284.15	335.87	287.67	339.88	288.64
G21	290.71	251.0	296.17	254.0	304.09	260.73	302.24	251.66	303.83	259.32
G22	265.22	226.22	265.79	228.64	268.96	228.73	271.43	231.9	272.18	232.43
G23	234.89	198.58	239.34	205.35	241.36	206.32	244.22	203.07	244.31	208.22
G24	212.62	184.58	216.14	185.02	222.92	187.53	220.72	189.2	224.68	189.33
G25	192.76	165.87	196.15	172.12	196.73	170.27	200.64	171.81	199.28	171.5
G26	173.7	148.3	177.31	149.98	178.41	154.82	176.26	155.22	181.32	158.96
G27	155.26	131.97	159.88	133.6	164.46	139.68	165.65	140.16	169.52	139.41
G28	139.19	116.92	143.15	118.81	145.35	125.06	149.67	125.9	148.92	122.95
G29	123.87	103.4	127.35	106.22	129.95	111.2	134.09	112.78	134.13	107.63
G30	110.01	92.84	113.18	93.54	112.65	98.87	119.56	101.07	120.31	94.95
G31	98.12	83.99	101.64	87.25	98.61	88.52	106.66	90.86	106.97	85.14
G32	88.39	77.3	90.15	79.81	93.59	79.72	95.7	84.25	95.88	77.43
G33	80.65	75.32	82.14	73.91	78.44	72.94	86.06	75.41	85.84	71.62
G34	74.57	70.65	75.85	69.02	73.07	68.23	78.27	67.09	78.4	66.43
G35	69.77	67.22	74.13	65.06	72.68	64.75	72.5	66.21	66.34	62.6
G36	66.07	61.5	67.22	61.94	69.46	64.8	68.45	63.04	68.41	60.4

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 5)

Gamma\C	C150	C155	C160	C165	C170	C175	C180	C185	C190	C195
G0	1014.58	1006.57	1014.84	1005.95	1017.48	1004.76	1020.35	931.38	989.27	937.94
G1	1011.98	975.22	1011.98	971.66	1013.3	972.41	1011.72	979.54	1003.49	979.49
G2	990.37	928.56	987.51	928.56	988.39	928.96	985.53	1002.21	994.11	1000.4
G3	946.52	884.28	944.23	883.84	946.3	887.01	946.35	994.81	970.12	998.03
G4	901.8	842.77	900.08	843.43	896.3	844.88	901.8	975.84	942.74	979.76
G5	858.92	810.85	859.28	809.09	861.43	810.32	862.31	937.28	905.85	936.49
G6	820.27	773.35	822.65	777.44	825.56	780.48	826.92	893.17	862.66	898.85
G7	785.81	745.17	790.87	751.73	793.64	755.12	795.84	851.97	828.11	852.14
G8	755.34	720.7	762.12	725.72	766.26	729.02	769.39	815.92	797.73	816.31
G9	727.7	697.19	737.25	702.48	740.11	705.47	743.37	784.4	770.93	786.33
G10	703.09	672.76	707.8	678.0	715.55	679.19	717.49	759.0	747.68	761.15
G11	679.06	645.91	689.84	650.4	690.59	650.8	691.16	733.29	718.98	737.25
G12	654.23	614.39	663.3	618.48	664.75	618.0	664.13	709.3	693.89	711.72
G13	625.79	578.34	632.88	580.94	636.75	580.32	631.87	684.25	674.39	686.85
G14	593.13	535.02	595.99	537.84	598.54	530.88	595.59	658.76	646.79	658.67
G15	548.98	490.83	554.83	492.85	557.38	491.49	554.43	627.33	613.91	627.38
G16	509.58	445.88	510.28	447.51	513.19	446.28	509.05	591.9	577.55	590.49
G17	465.73	400.98	465.65	404.28	468.6	402.17	465.25	552.45	534.76	549.64
G18	421.14	362.81	420.35	362.29	418.24	363.48	421.19	508.04	489.55	509.93
G19	379.23	322.58	379.76	324.25	383.28	322.76	374.17	463.14	446.54	466.04
G20	339.44	288.46	343.18	290.53	343.71	288.95	341.11	417.75	402.26	417.31
G21	303.92	258.27	307.39	260.03	308.71	259.02	300.39	378.4	367.17	377.39
G22	272.05	231.99	275.79	232.74	276.09	231.46	274.95	338.82	325.31	343.05
G23	244.93	209.54	248.05	208.13	247.79	202.93	245.9	304.0	291.15	306.25
G24	220.63	189.42	224.5	182.07	225.25	177.58	216.76	272.49	261.17	274.91
G25	200.6	170.4	201.52	157.37	192.98	154.51	187.53	245.9	238.94	248.27
G26	181.85	149.8	176.39	136.42	166.7	138.14	162.92	217.68	208.66	223.62
G27	164.15	124.23	154.33	126.69	147.42	125.15	145.62	193.2	182.33	191.71
G28	144.47	116.35	135.67	114.58	132.28	110.71	131.27	165.34	159.66	165.91
G29	122.73	99.88	120.97	102.74	119.12	99.97	118.37	147.64	135.41	151.12
G30	111.81	94.51	108.51	89.89	107.06	88.22	103.8	133.51	127.61	132.24
G31	93.72	84.25	97.11	80.16	94.95	79.28	91.96	121.8	115.6	120.79
G32	85.71	75.32	86.68	72.94	85.0	72.37	83.15	101.42	103.01	108.33
G33	82.05	69.07	78.0	71.05	78.44	67.39	76.95	95.66	90.24	96.05
G34	73.95	64.8	72.06	64.18	66.43	63.43	72.02	85.75	80.78	85.31
G35	67.7	61.45	67.84	60.88	68.85	62.99	67.92	78.53	75.49	77.52
G36	63.65	59.6	65.06	58.63	61.23	57.58	64.09	72.02	69.02	71.84

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 6)

Gamma\C	C200	C205	C210	C215	C220	C225	C230	C235	C240	C245
G0	984.2	944.06	990.46	941.42	990.32	949.16	992.3	956.56	995.65	964.0
G1	1001.42	979.8	1005.07	983.32	1001.68	984.03	998.69	987.07	998.29	990.76
G2	1001.2	1000.71	991.95	1001.06	995.03	1003.84	987.95	998.38	988.43	998.78
G3	983.72	995.21	975.0	995.96	973.99	990.81	965.32	988.56	963.52	980.29
G4	956.47	969.11	939.66	971.22	942.34	965.85	937.23	961.05	929.97	956.38
G5	918.31	931.78	909.41	933.01	904.4	927.37	895.64	927.59	892.38	915.27
G6	879.08	895.77	867.86	891.98	867.68	886.48	859.72	885.38	852.19	874.46
G7	833.66	854.04	833.13	851.09	834.58	847.61	827.62	845.76	820.36	835.37
G8	805.22	817.81	801.39	815.03	800.2	814.68	797.78	811.56	791.18	802.93
G9	773.66	785.45	775.68	791.53	773.52	784.04	770.88	780.57	764.46	772.82
G10	750.81	760.05	751.69	758.78	747.07	759.83	744.29	753.58	737.87	745.79
G11	724.97	735.14	725.85	732.76	721.1	733.38	712.95	723.43	709.52	718.5
G12	697.76	708.55	698.91	705.51	693.19	705.86	687.46	697.72	679.45	690.11
G13	670.96	682.01	669.59	681.52	664.05	675.09	655.2	667.35	649.74	662.72
G14	641.73	658.28	637.77	648.95	632.48	642.78	622.09	636.0	618.7	628.39
G15	609.33	625.13	604.53	615.27	591.68	604.27	587.1	594.89	584.06	595.11
G16	572.04	584.98	566.14	577.5	552.5	568.96	549.55	562.89	541.05	552.98
G17	535.2	544.66	524.46	538.37	518.25	528.33	509.53	523.75	498.49	519.0
G18	488.05	501.61	487.0	495.14	474.67	486.03	468.86	482.2	464.37	477.84
G19	442.49	459.04	438.09	453.06	433.47	445.44	427.44	440.6	423.65	436.81
G20	399.7	416.43	401.9	411.9	393.28	404.72	388.83	400.5	383.77	395.96
G21	362.86	376.64	357.84	372.46	354.23	366.69	351.72	362.59	345.25	357.88
G22	327.33	338.78	323.81	335.3	319.28	335.7	316.51	325.05	310.12	322.4
G23	293.88	302.42	289.61	301.49	286.44	297.58	278.16	298.94	278.74	290.01
G24	263.9	274.29	258.44	270.02	256.55	270.59	256.11	262.93	250.7	260.29
G25	236.61	246.56	235.16	243.34	230.8	241.23	229.61	242.38	225.43	234.67
G26	213.06	221.64	212.4	218.82	208.61	217.81	206.9	218.43	203.59	211.3
G27	190.52	200.42	191.62	202.71	187.92	197.65	186.82	197.78	184.58	191.49
G28	165.82	179.25	171.68	178.37	164.94	173.26	168.11	175.6	168.38	173.84
G29	144.34	157.81	152.49	160.41	153.37	160.98	150.42	159.97	152.93	158.87
G30	126.38	137.74	134.26	142.67	136.37	136.2	134.22	142.85	137.17	143.55
G31	113.66	123.3	117.27	127.09	120.75	127.88	119.29	127.48	122.24	128.89
G32	102.88	109.48	103.76	113.18	106.31	112.69	105.3	108.03	108.55	116.08
G33	92.09	99.71	93.5	101.73	95.35	100.85	94.91	102.52	96.49	103.89
G34	82.49	90.68	84.92	86.15	86.15	90.51	85.88	92.4	86.41	87.56
G35	74.35	81.88	80.91	83.46	78.58	82.49	78.4	84.17	78.8	84.34
G36	69.29	74.35	73.65	75.93	76.11	76.11	74.04	76.86	72.37	76.51

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/28 9:52:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

