

Report No.:

Test Time: 2025/5/30 15:08:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 20w 泛光 BK
Lamp Type:
Luminous Width: 35 mm
Luminous Length: 300 mm
Luminous Height: 0 mm

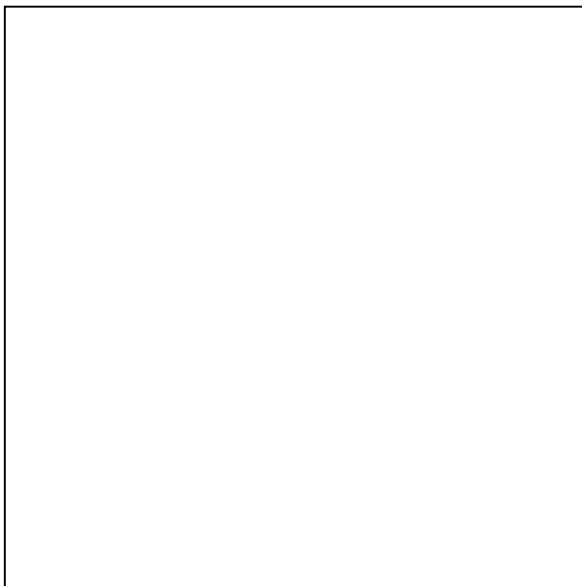
Voltage(V): 231.23 V
Current(A): 0.1464 A
Power(W): 18.77 W
Power Factor: 0.5545
Lamp Luminous Flux: 1084.98

Photometric Results

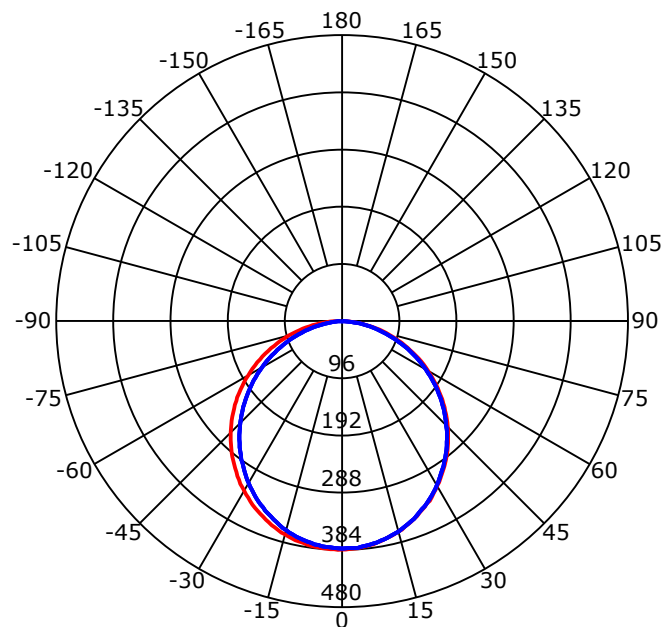
CIE Class: Direct
Luminaire Luminous Flux: 1084.983 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 57.80 lm/W
Beam Angle(50%) C0-180,C90-270: 114.0,109.1
Field Angle(10%) C0-180,C90-270: 165.7,160.1
S/MH C0-180,C90-270: 1.250,1.202

Max. Intensity: 384.08 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 383.69 cd
Effective Luminous Flux: 1069.07 lm
ERP(ϕ use)(120deg): 849.77 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 114.0 deg,109.1 deg

C0-180 — C90-270 —

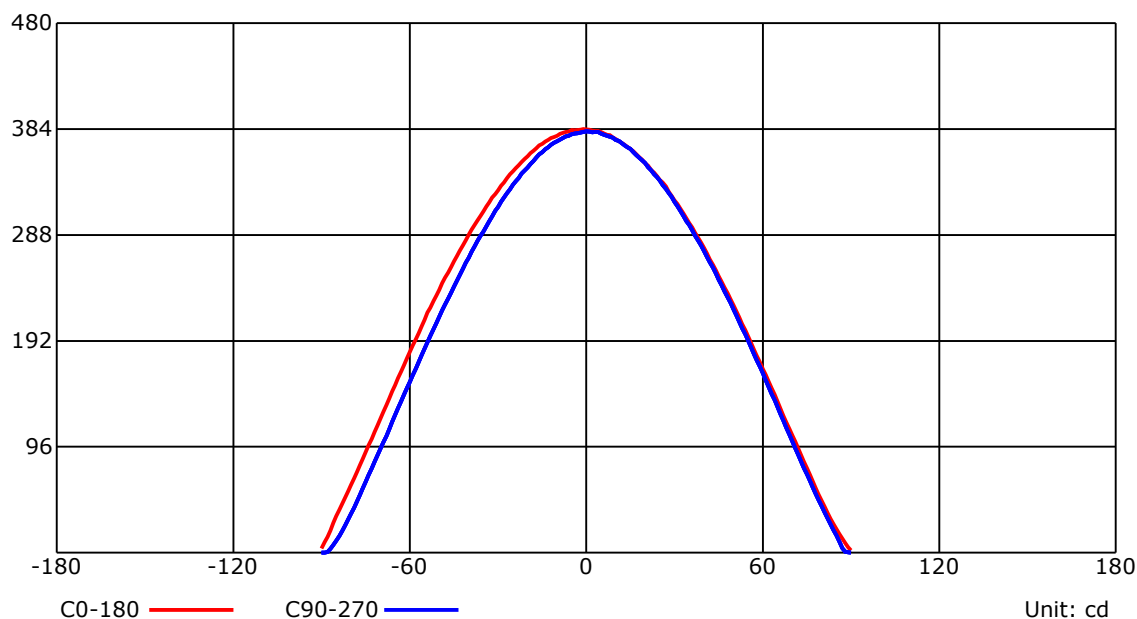
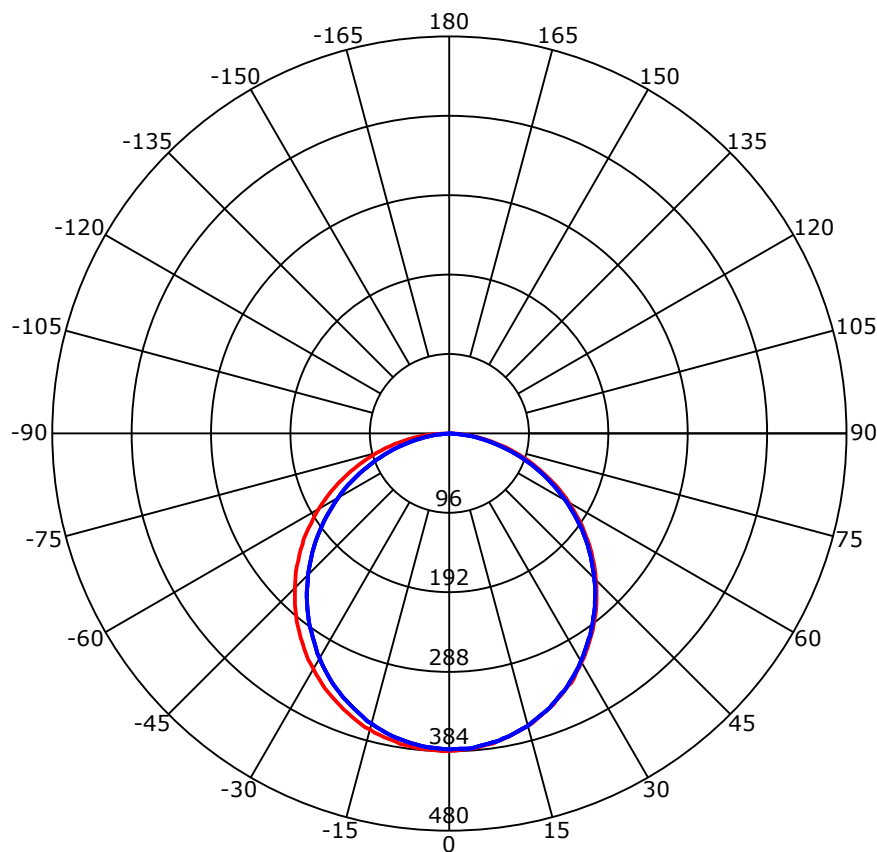
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

Luminous Intensity Distribution Curve



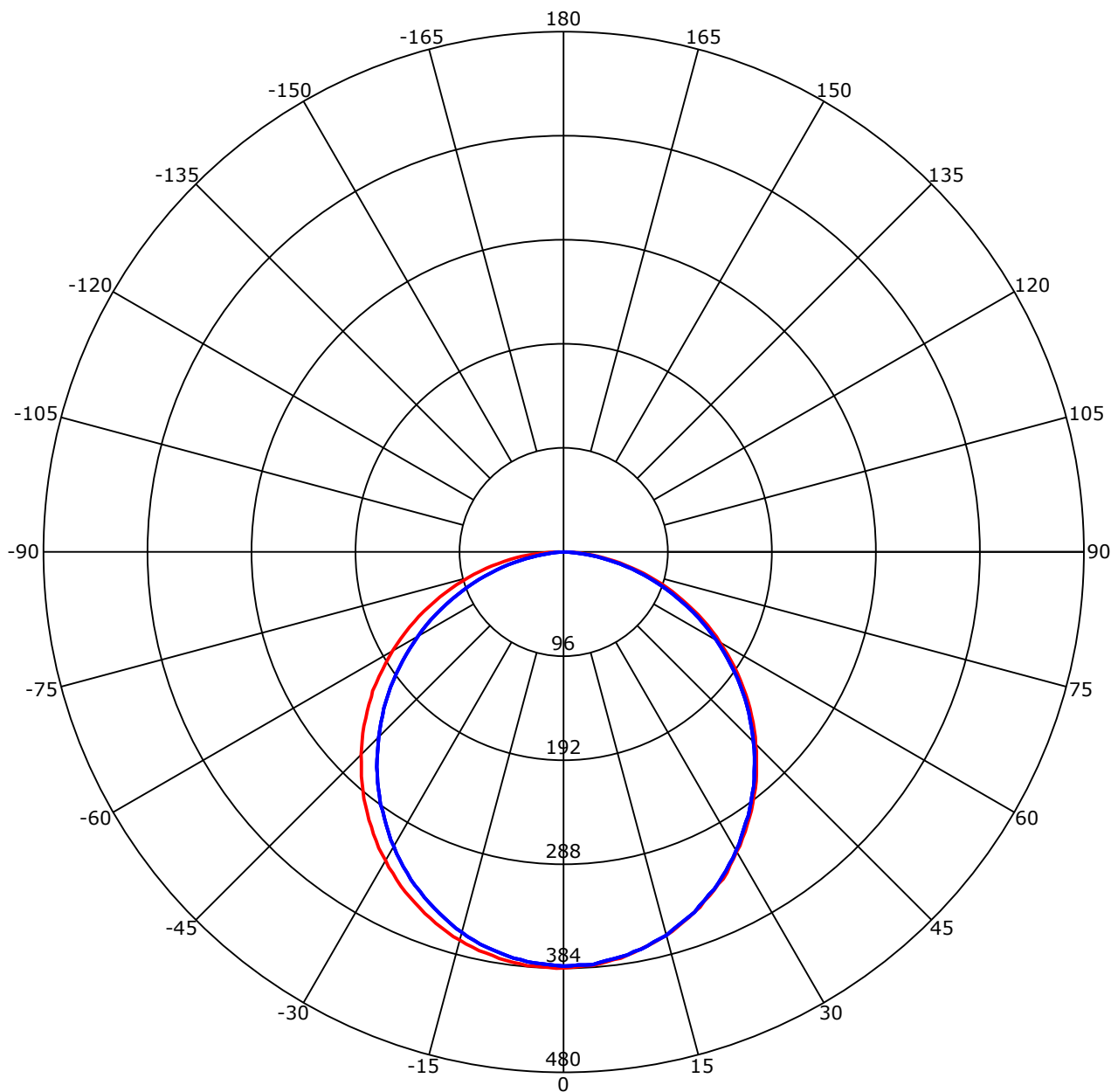
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

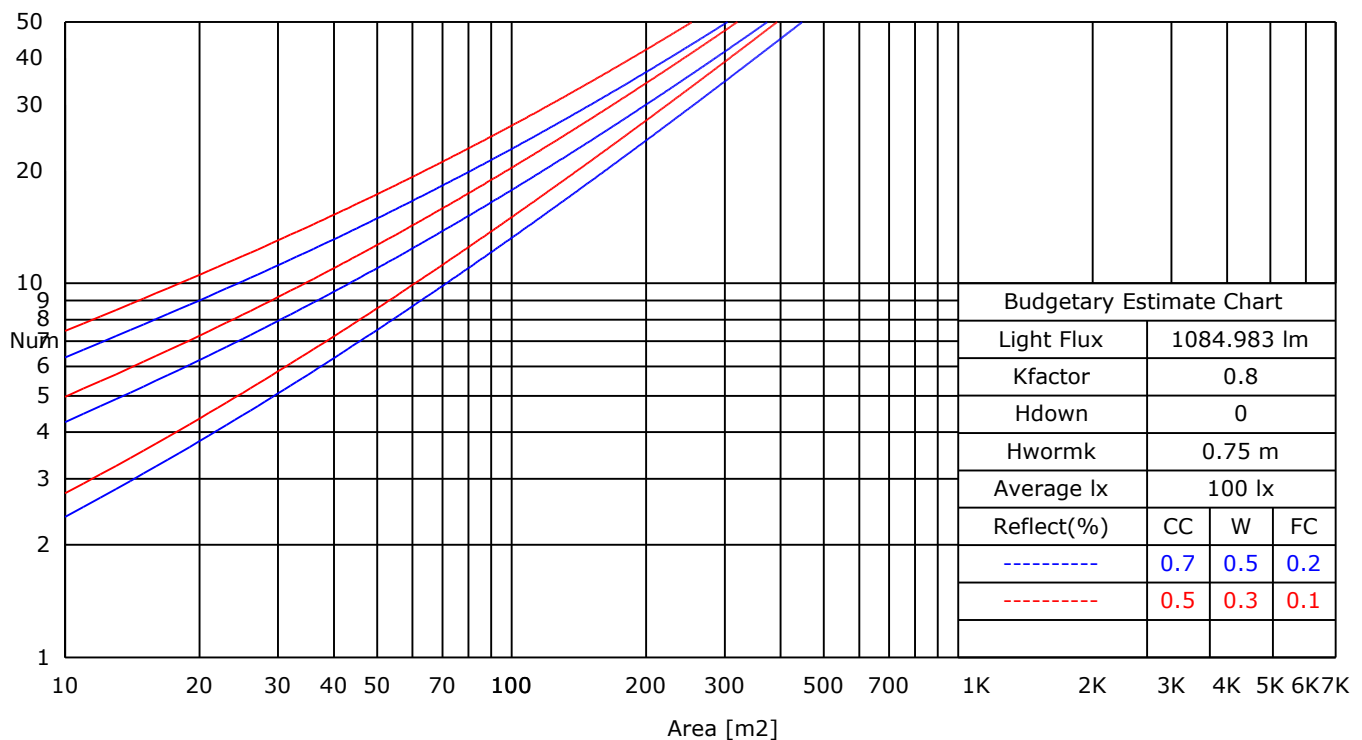
Report No.:

Test Time: 2025/5/30 15:08:26

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	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.04	1.02	1.01	1.02	1.00	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.87	0.85	0.83	0.78
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.81	0.78	0.81	0.78	0.74	0.77	0.73	0.70	0.65
3	0.75	0.72	0.70	0.75	0.71	0.69	0.74	0.69	0.66	0.71	0.67	0.63	0.68	0.63	0.59	0.55
4	0.65	0.62	0.60	0.65	0.61	0.59	0.65	0.60	0.56	0.63	0.58	0.54	0.61	0.55	0.50	0.47
5	0.56	0.53	0.52	0.57	0.53	0.51	0.57	0.52	0.49	0.57	0.51	0.46	0.55	0.49	0.44	0.40
6	0.50	0.47	0.45	0.50	0.47	0.44	0.51	0.46	0.43	0.51	0.45	0.41	0.50	0.44	0.39	0.35
7	0.44	0.42	0.40	0.45	0.41	0.39	0.46	0.41	0.38	0.46	0.40	0.36	0.46	0.39	0.34	0.31
8	0.40	0.37	0.36	0.41	0.37	0.35	0.42	0.37	0.34	0.42	0.36	0.32	0.42	0.36	0.31	0.28
9	0.36	0.33	0.32	0.37	0.33	0.31	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.33	0.28	0.25
10	0.33	0.30	0.29	0.34	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.36	0.30	0.25	0.22

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



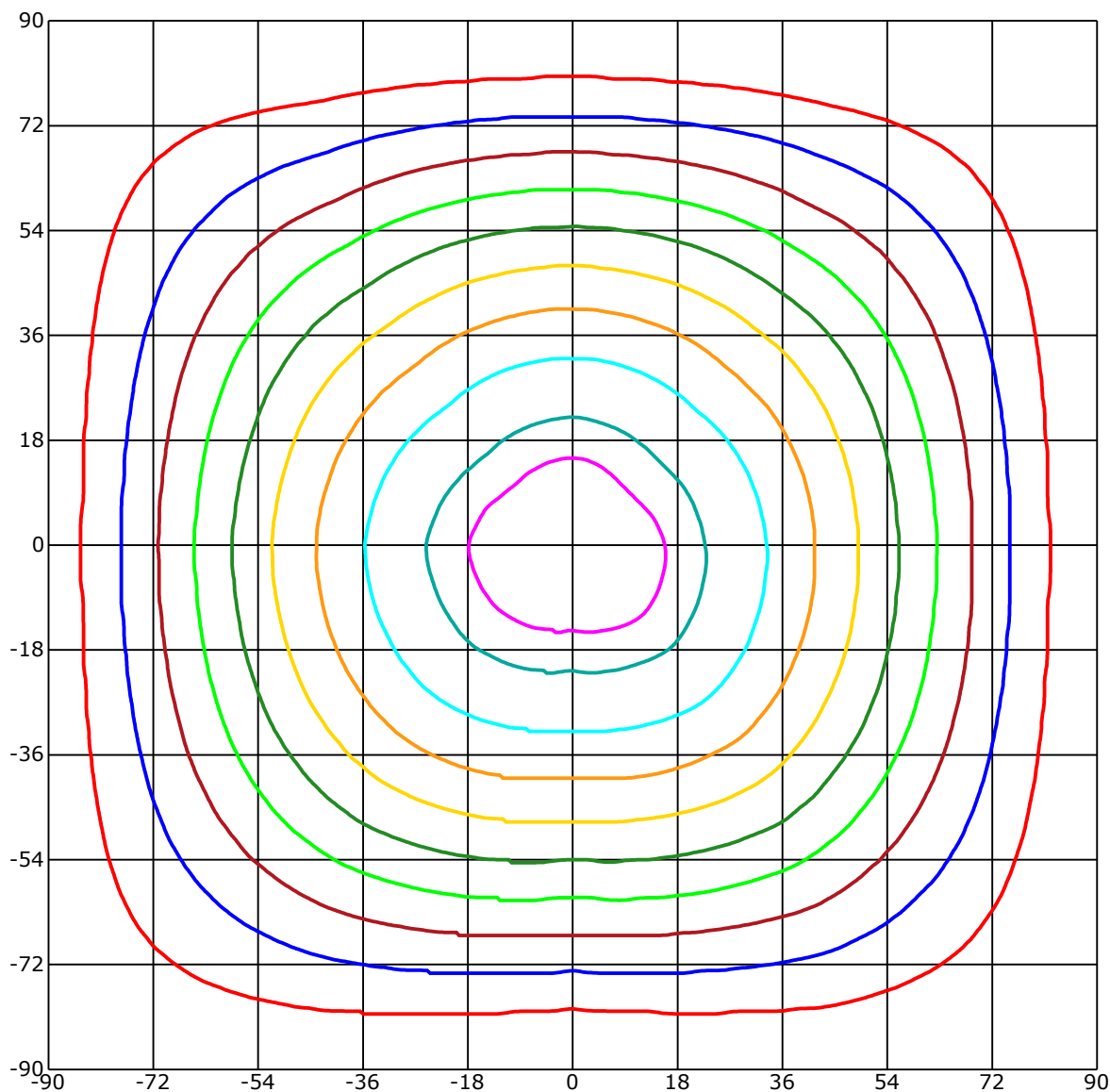
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 384.082 cd

364.878(95%I _{max})	192.041(50%I _{max})
345.674(90%I _{max})	153.633(40%I _{max})
307.265(80%I _{max})	115.225(30%I _{max})
268.857(70%I _{max})	76.816(20%I _{max})
230.449(60%I _{max})	38.408(10%I _{max})

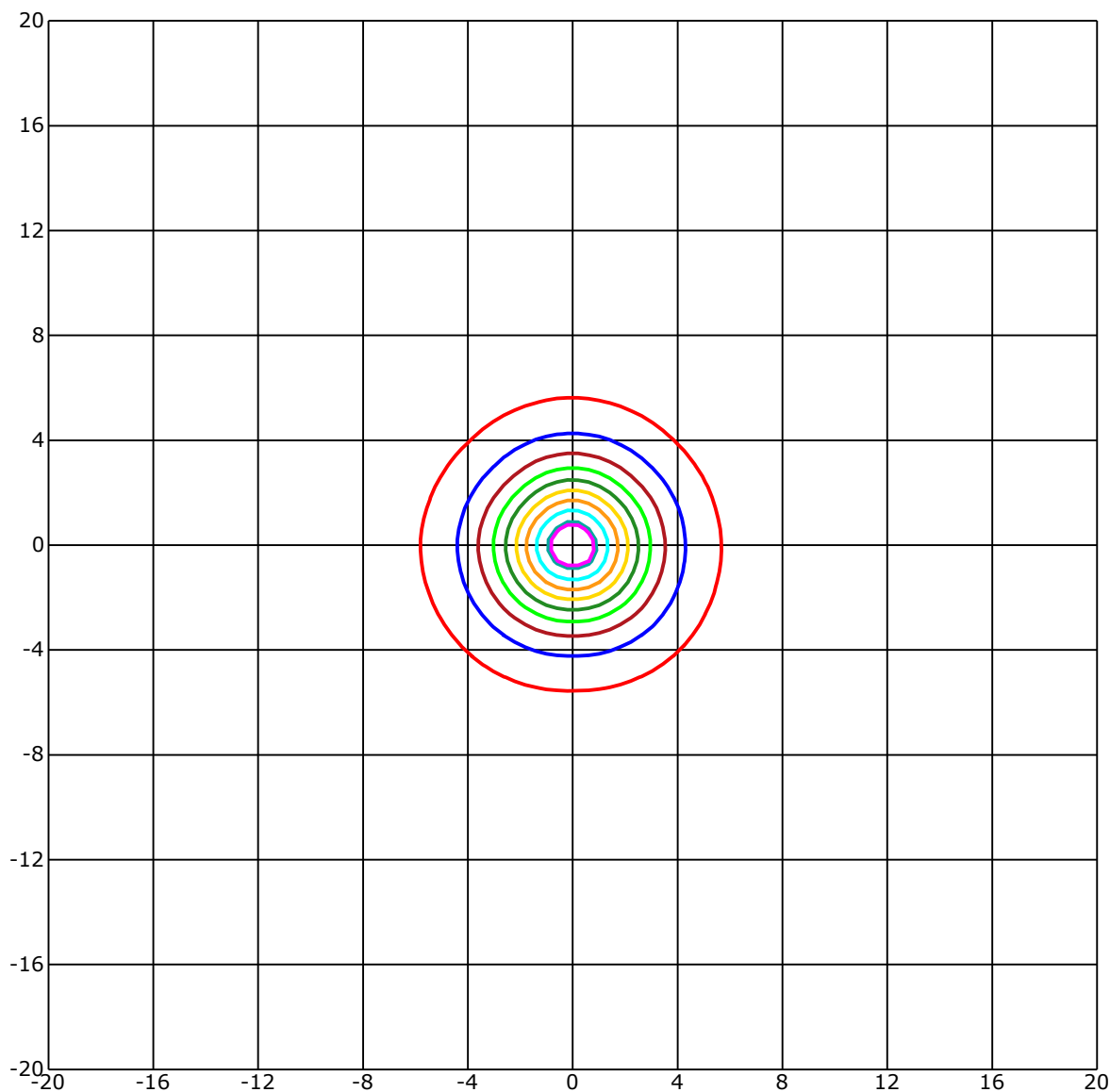
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)

22.075(92%Emax)	11.997(50%Emax)
21.595(90%Emax)	9.598(40%Emax)
19.195(80%Emax)	7.198(30%Emax)
16.796(70%Emax)	4.799(20%Emax)
14.396(60%Emax)	2.399(10%Emax)

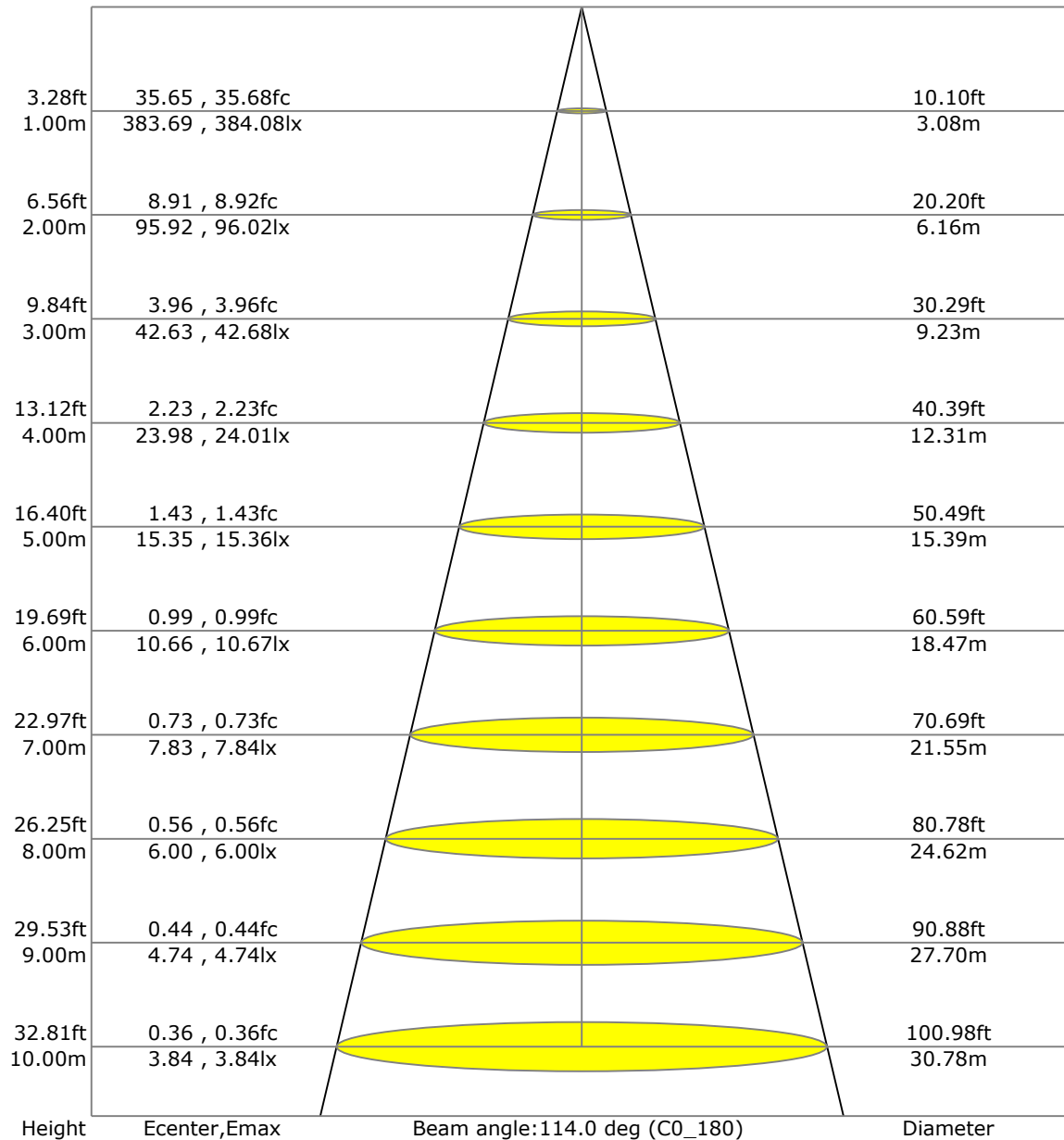
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

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LX-DISTANCE DIAGRAM



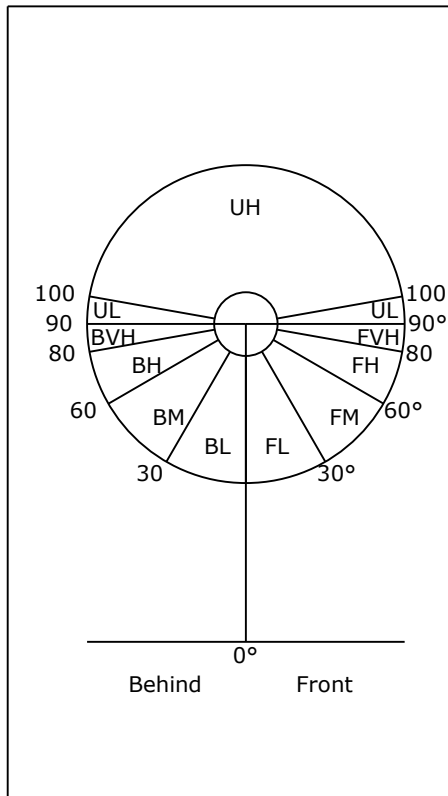
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity:
 Test Distance: 5.95 m
 Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	534.6	49.3
FL (0°-30°)	146.8	13.5
FM (30°-60°)	274.1	25.3
FH (60°-80°)	103.7	9.6
FVH (80°-90°)	9.9	0.9

Behind	550.4	50.7
BL (0°-30°)	148.2	13.7
BM (30°-60°)	280.7	25.9
BH (60°-80°)	109.6	10.1
BVH (80°-90°)	12.0	1.1

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

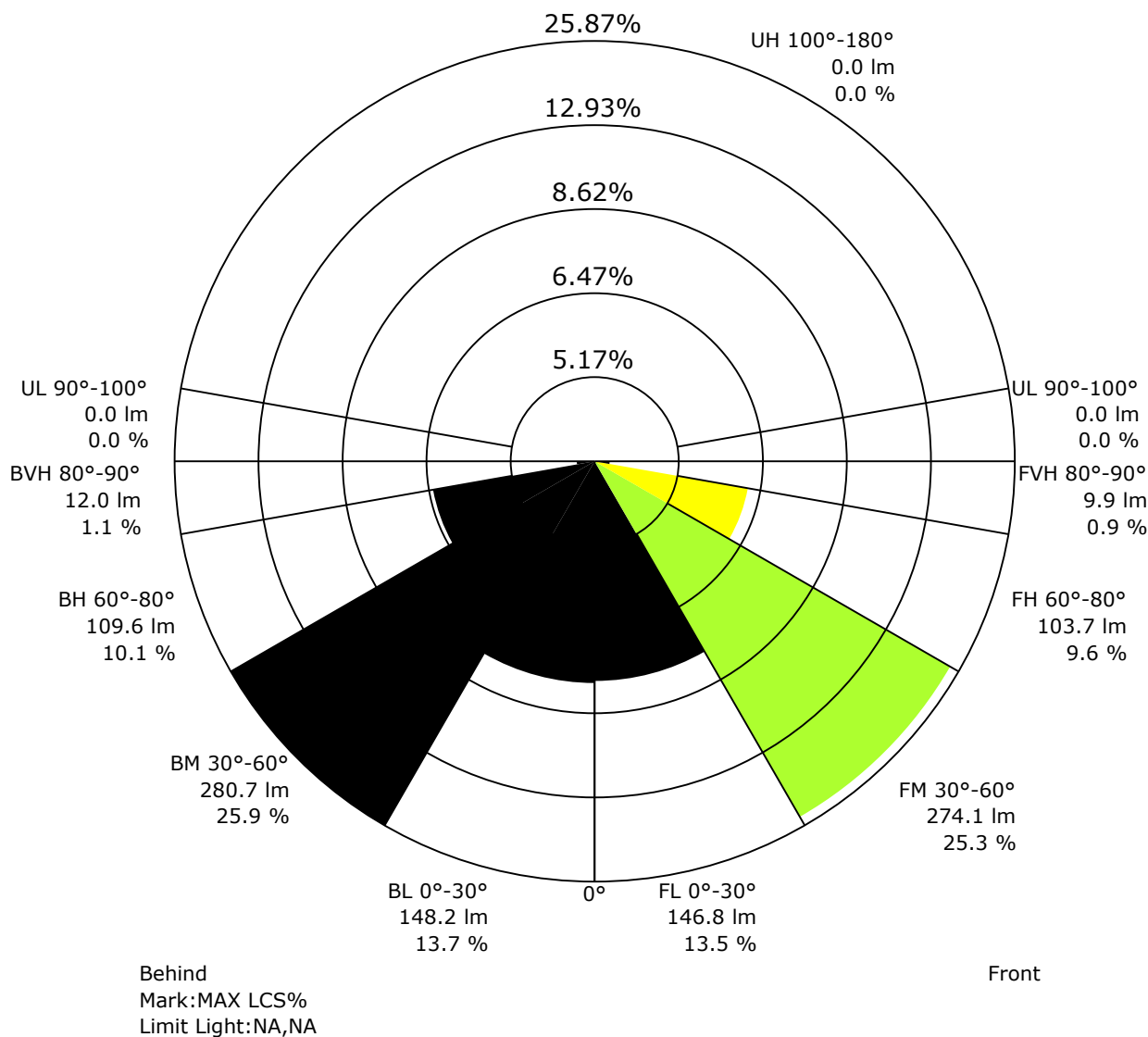
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

LCS 图



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

ZONAL LUMINOUS FLUX TABLE-1

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	375.1	370.4	374.3	373.0	378.1	375.6	373.1	377.6	10	36.1	36.1	3.3	3.3
20	353.2	347.1	353.4	349.7	359.5	356.1	349.4	357.0	20	103.2	139.3	12.8	12.8
30	319.3	311.4	318.0	314.3	328.7	324.5	313.6	324.5	30	155.7	295.0	27.2	27.2
40	276.3	266.5	273.6	269.5	288.2	282.5	267.4	281.8	40	186.8	481.8	44.4	44.4
50	224.5	214.3	220.8	217.7	238.4	231.5	214.1	230.3	50	193.3	675.1	62.2	62.2
60	166.5	155.7	162.5	158.9	182.0	174.2	154.9	172.4	60	174.7	849.8	78.3	78.3
70	106.3	95.5	100.8	98.4	121.4	112.8	94.0	110.8	70	134.2	984.0	90.7	90.7
80	46.9	36.8	41.9	39.1	61.2	52.4	35.2	50.2	80	79.1	1063.1	98.0	98.0
90	2.0	0.2	0.0	0.3	3.9	2.5	0.1	1.0	90	21.9	1085.0	100.0	100.0

Conical surface Flux(90deg) : 579.2 lm

%lum = 53.4%

%lamp = 53.4%

Conical surface Flux(120deg) : 849.8 lm

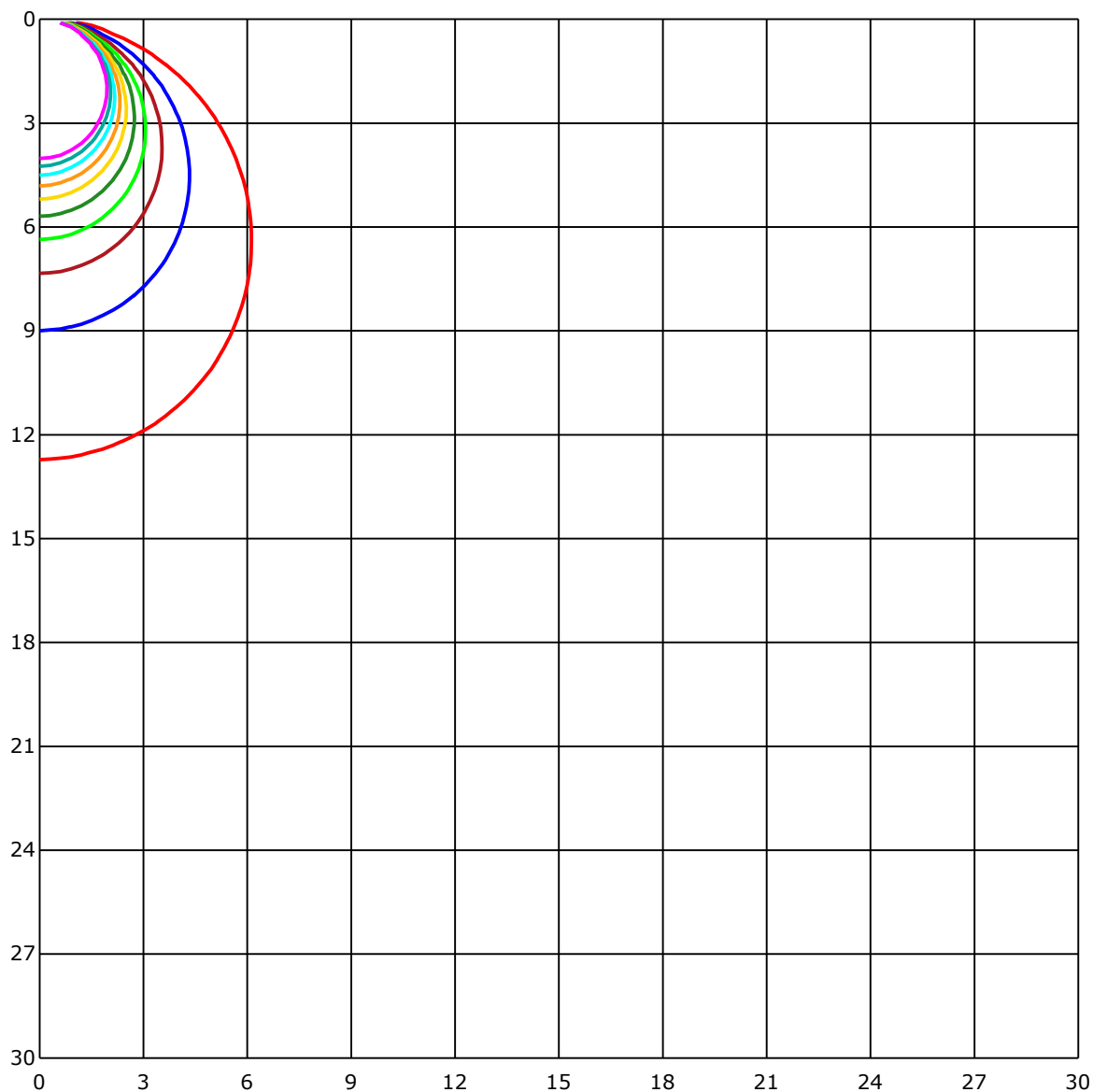
%lum = 78.3%

%lamp = 78.3%

Report No.:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

23.737

21.363

18.989

16.616

14.242

11.868

9.495

7.121

4.747

2.374

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	383.69	380.68	381.96	382.38	383.69	380.68	381.96	382.38	383.69	
G1	383.44	380.12	381.67	382.95	384.08	380.61	381.53	383.02	383.44	
G2	382.74	379.34	381.21	381.39	383.48	380.4	380.93	382.74	382.74	
G3	382.28	379.02	381.46	381.67	383.3	380.54	380.47	382.31	382.28	
G4	382.45	377.96	381.6	380.36	382.98	380.86	380.12	382.81	382.45	
G5	381.36	377.32	380.08	379.2	383.09	379.62	379.59	381.53	381.36	
G6	380.15	376.9	379.02	378.49	381.92	379.09	378.06	381.21	380.15	
G7	378.77	374.84	378.06	377.28	381.39	378.63	377.53	379.87	378.77	
G8	378.52	373.71	377.21	375.97	380.58	377.46	376.01	379.02	378.52	
G9	376.51	372.01	376.36	374.56	379.83	376.51	374.59	377.96	376.51	
G10	375.05	370.38	374.31	372.97	378.06	375.62	373.07	377.6	375.05	
G11	373.18	369.18	373.39	371.48	376.82	374.31	371.62	376.54	373.18	
G12	371.48	366.73	371.44	369.07	375.94	372.61	369.89	374.52	371.48	
G13	369.92	365.0	369.28	367.09	374.1	371.55	367.58	372.61	369.92	
G14	367.97	362.84	367.58	365.78	372.75	369.57	365.85	371.41	367.97	
G15	366.17	360.61	366.06	362.73	370.63	367.76	363.23	368.68	366.17	
G16	364.15	358.41	363.16	360.89	369.32	365.78	361.28	366.91	364.15	
G17	361.14	355.58	360.43	357.78	366.81	363.76	358.13	364.72	361.14	
G18	358.59	352.61	357.85	355.37	364.43	361.35	355.19	362.91	358.59	
G19	356.18	350.27	355.72	352.57	362.31	358.95	352.36	359.65	356.18	
G20	353.18	347.09	353.39	349.67	359.55	356.11	349.39	357.0	353.18	
G21	351.05	344.11	349.6	346.73	357.21	353.88	346.56	354.59	351.05	
G22	347.05	340.75	346.56	343.37	354.24	350.73	343.65	352.01	347.05	
G23	344.5	338.16	343.12	340.36	351.44	348.4	339.83	348.79	344.5	
G24	341.35	334.31	340.68	336.78	348.61	345.42	336.89	345.99	341.35	
G25	337.81	330.55	337.32	333.31	345.92	342.02	333.46	342.48	337.81	
G26	335.65	327.4	333.31	329.95	343.05	339.05	329.56	339.16	335.65	
G27	332.08	323.47	329.92	326.06	339.3	335.23	325.81	335.51	332.08	
G28	327.19	319.44	325.92	322.52	335.72	331.76	321.84	332.22	327.19	
G29	323.4	315.72	322.52	318.59	332.75	328.71	318.23	328.57	323.4	
G30	319.3	311.44	318.02	314.34	328.68	324.5	313.6	324.53	319.3	
G31	316.07	307.47	314.13	310.66	325.21	320.71	310.02	320.89	316.07	
G32	311.47	303.22	309.38	306.05	322.13	316.78	304.96	316.6	311.47	
G33	307.54	298.76	305.06	302.51	317.67	313.21	300.5	312.82	307.54	
G34	303.15	294.41	300.64	297.52	313.95	309.13	295.89	309.38	303.15	
G35	298.9	290.16	296.92	293.06	309.42	304.71	291.33	304.11	298.9	
G36	294.94	285.84	292.25	289.59	305.56	300.43	287.54	299.79	294.94	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2025/5/30 15:08:26

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	290.05	281.24	287.54	283.89	300.96	295.82	282.44	295.33	290.05	
G38	285.31	276.14	282.76	279.18	296.96	291.79	277.66	290.8	285.31	
G39	281.06	271.25	278.48	274.62	293.06	286.83	272.99	286.65	281.06	
G40	276.32	266.47	273.63	269.48	288.18	282.51	267.36	281.8	276.32	
G41	271.36	261.31	268.21	264.7	283.5	277.73	263.01	277.17	271.36	
G42	265.94	256.31	263.36	259.75	278.79	272.6	257.41	271.82	265.94	
G43	260.99	251.53	258.4	254.54	273.8	267.86	251.82	267.04	260.99	
G44	256.07	246.51	253.16	249.69	268.85	262.62	246.54	262.12	256.07	
G45	250.69	241.37	247.5	244.42	264.28	257.66	241.37	257.27	250.69	
G46	245.73	236.67	242.37	239.39	259.08	252.53	235.75	251.71	245.73	
G47	240.35	231.0	236.88	234.36	254.12	247.25	230.65	246.19	240.35	
G48	235.18	225.41	231.53	228.59	249.55	242.01	224.95	240.91	235.18	
G49	229.62	219.74	226.58	223.14	244.38	236.7	219.92	235.5	229.62	
G50	224.49	214.26	220.77	217.65	238.4	231.46	214.11	230.29	224.49	
G51	218.96	209.09	215.18	211.81	233.09	226.15	208.31	225.12	218.96	
G52	213.37	202.86	209.48	206.04	228.17	220.45	202.71	219.42	213.37	
G53	207.32	197.01	203.56	200.38	222.08	215.11	196.52	213.41	207.32	
G54	201.69	191.14	198.08	194.5	217.87	209.55	190.75	208.13	201.69	
G55	196.09	185.54	192.09	188.77	211.21	203.74	184.87	202.08	196.09	
G56	190.29	179.88	186.11	182.82	205.41	197.69	179.24	196.02	190.29	
G57	184.09	173.44	180.06	176.62	199.28	191.92	172.94	190.36	184.09	
G58	178.36	167.63	174.18	170.85	193.65	185.97	166.96	184.62	178.36	
G59	172.41	161.79	168.37	164.9	187.88	180.09	160.98	178.61	172.41	
G60	166.53	155.66	162.5	158.92	182.04	174.18	154.92	172.45	166.53	
G61	161.19	149.61	156.16	153.05	176.34	168.27	149.36	166.46	161.19	
G62	155.17	143.45	150.25	146.64	170.14	162.04	143.42	160.48	155.17	
G63	149.22	137.54	144.16	140.55	164.3	156.16	137.4	154.32	149.22	
G64	143.1	131.34	138.11	134.64	158.21	150.35	131.1	148.34	143.1	
G65	136.69	125.32	131.87	128.48	151.98	143.88	124.76	141.82	136.69	
G66	130.32	119.48	125.57	122.95	146.42	137.61	118.67	135.73	130.32	
G67	123.94	113.5	119.63	116.51	139.91	131.38	112.12	129.33	123.94	
G68	118.21	107.45	113.22	110.35	133.79	125.08	105.78	123.13	118.21	
G69	112.01	101.5	107.02	104.37	127.48	119.06	99.91	116.93	112.01	
G70	106.28	95.52	100.79	98.38	121.36	112.79	94.03	110.77	106.28	
G71	100.79	89.89	94.77	92.37	115.34	106.63	88.33	104.47	100.79	
G72	94.7	83.69	88.79	86.28	109.43	100.47	82.38	98.42	94.7	
G73	88.47	77.78	82.81	80.4	103.16	94.35	76.33	92.08	88.47	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/30 15:08:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

