

Report No.:

Test Time: 2025/5/30 15:24:23

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 40w 泛光 BK
Lamp Type:
Luminous Width: 35 mm
Luminous Length: 600 mm
Luminous Height: 0 mm

Voltage(V): 231.09 V
Current(A): 0.2793 A
Power(W): 38.13 W
Power Factor: 0.5908
Lamp Luminous Flux: 2160.20

Photometric Results

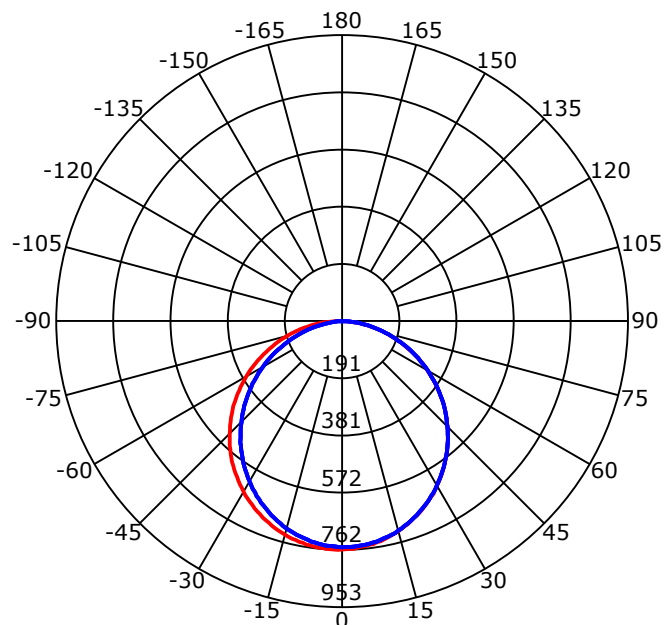
CIE Class: Direct
Luminaire Luminous Flux: 2160.202 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 56.65 lm/W
Beam Angle(50%) C0-180,C90-270: 114.4,109.8
Field Angle(10%) C0-180,C90-270: 165.9,161.0
S/MH C0-180,C90-270: 1.250,1.202

Max. Intensity: 762.22 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 760.84 cd
Effective Luminous Flux: 2130.40 lm
ERP(ϕ use)(120deg): 1685.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 114.4 deg,109.8 deg

C0-180 — C90-270 —

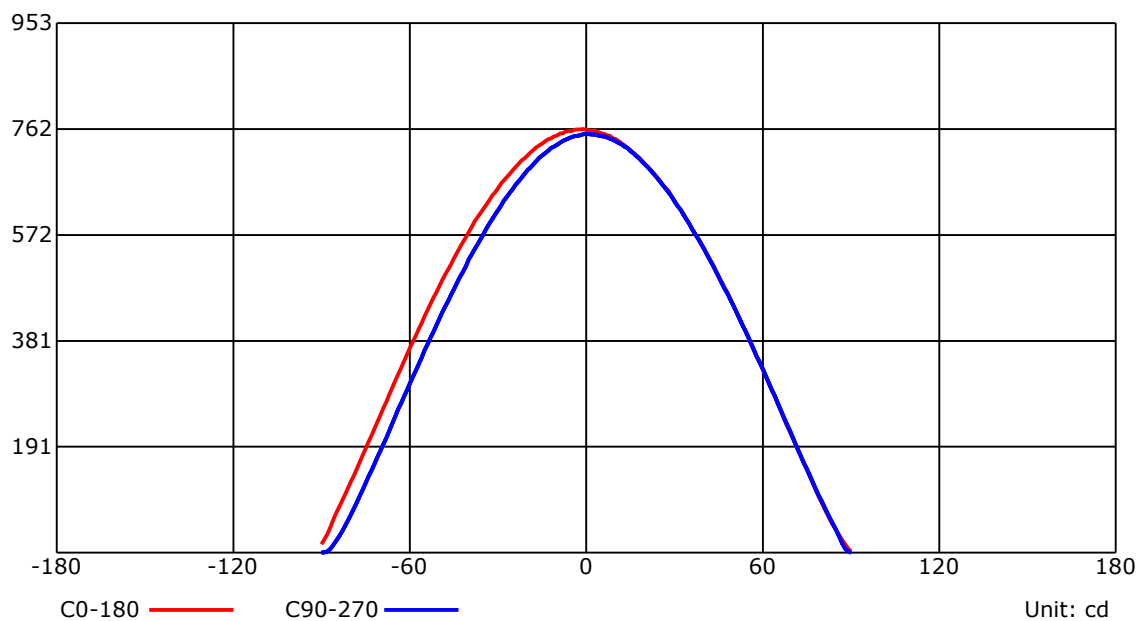
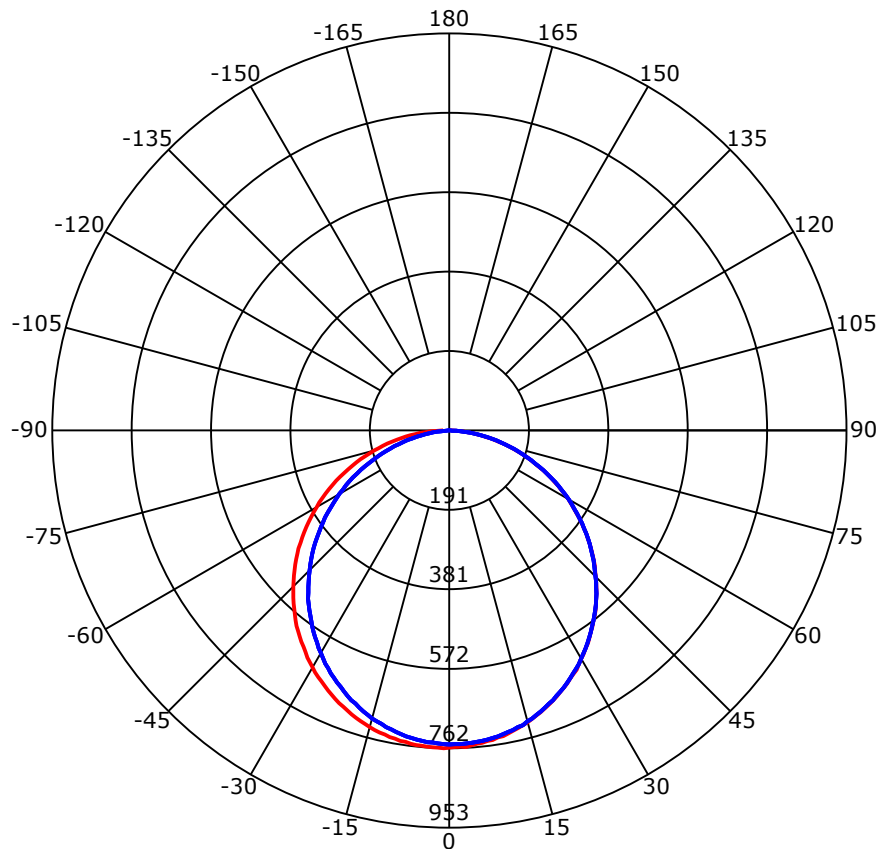
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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 15:24:23

Luminous Intensity Distribution Curve



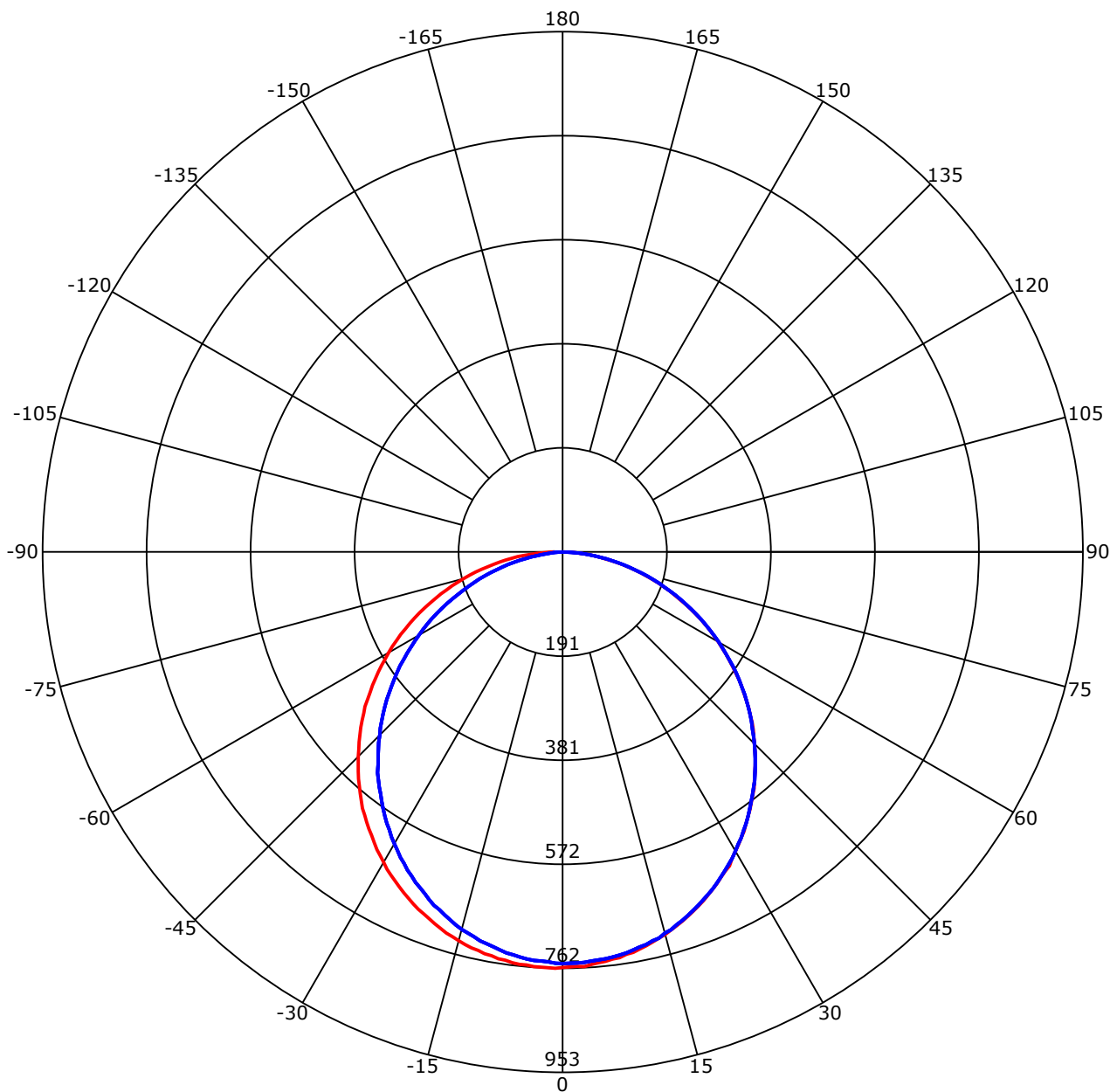
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

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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 15:24:23

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

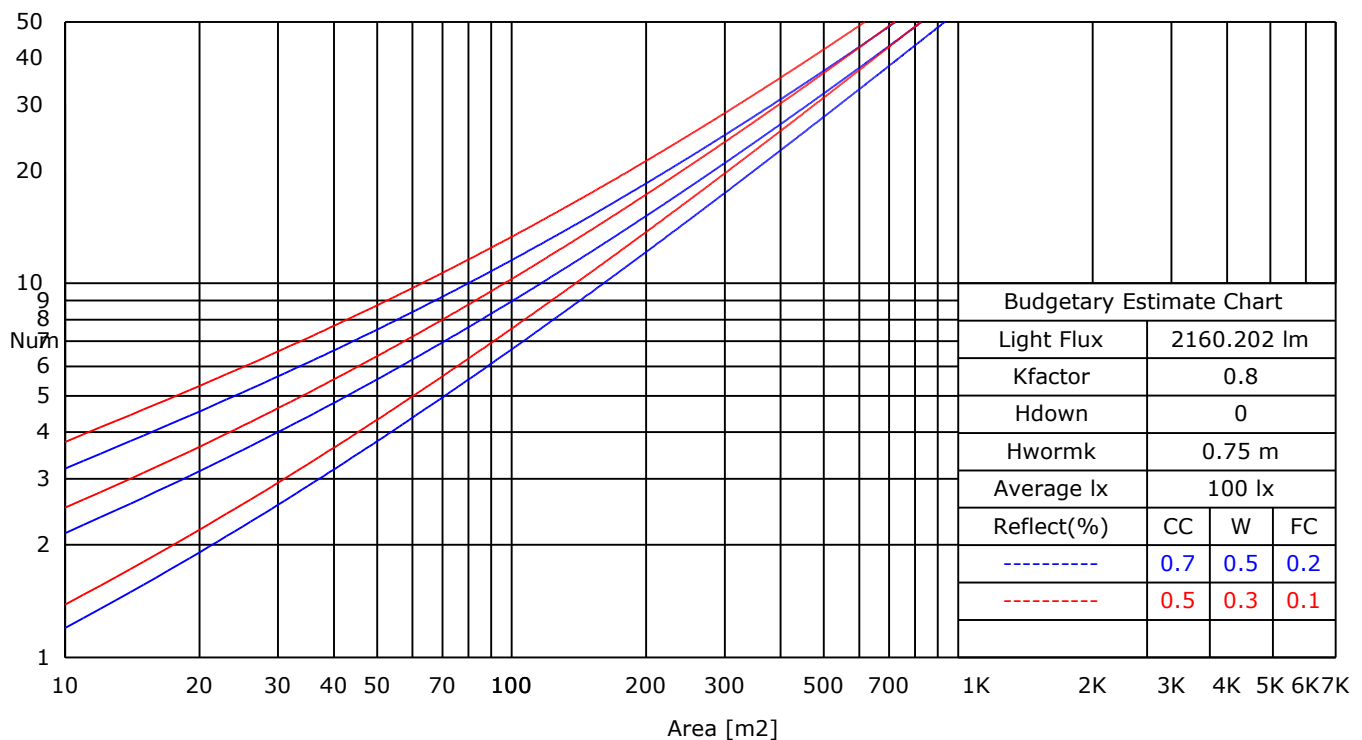
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UTILIZATION FACTORS TABLE

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	1.16	1.16	1.16	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	1.03	1.02	1.00	1.02	1.00	0.99	0.98	0.96	0.95	0.94	0.92	0.90	0.87	0.85	0.83	0.78
2	0.87	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	0.69	0.65
3	0.75	0.72	0.70	0.75	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.62	0.68	0.63	0.59	0.54
4	0.64	0.61	0.60	0.65	0.61	0.58	0.64	0.60	0.56	0.63	0.58	0.53	0.61	0.55	0.50	0.46
5	0.56	0.53	0.51	0.57	0.53	0.50	0.57	0.52	0.48	0.56	0.51	0.46	0.55	0.49	0.44	0.40
6	0.49	0.47	0.45	0.50	0.47	0.44	0.51	0.46	0.42	0.51	0.45	0.40	0.50	0.44	0.38	0.35
7	0.44	0.41	0.40	0.45	0.41	0.39	0.46	0.41	0.37	0.46	0.40	0.36	0.46	0.39	0.34	0.31
8	0.39	0.37	0.35	0.40	0.37	0.35	0.42	0.37	0.33	0.42	0.36	0.32	0.42	0.36	0.31	0.27
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	0.32	0.28	0.25
10	0.32	0.30	0.29	0.33	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



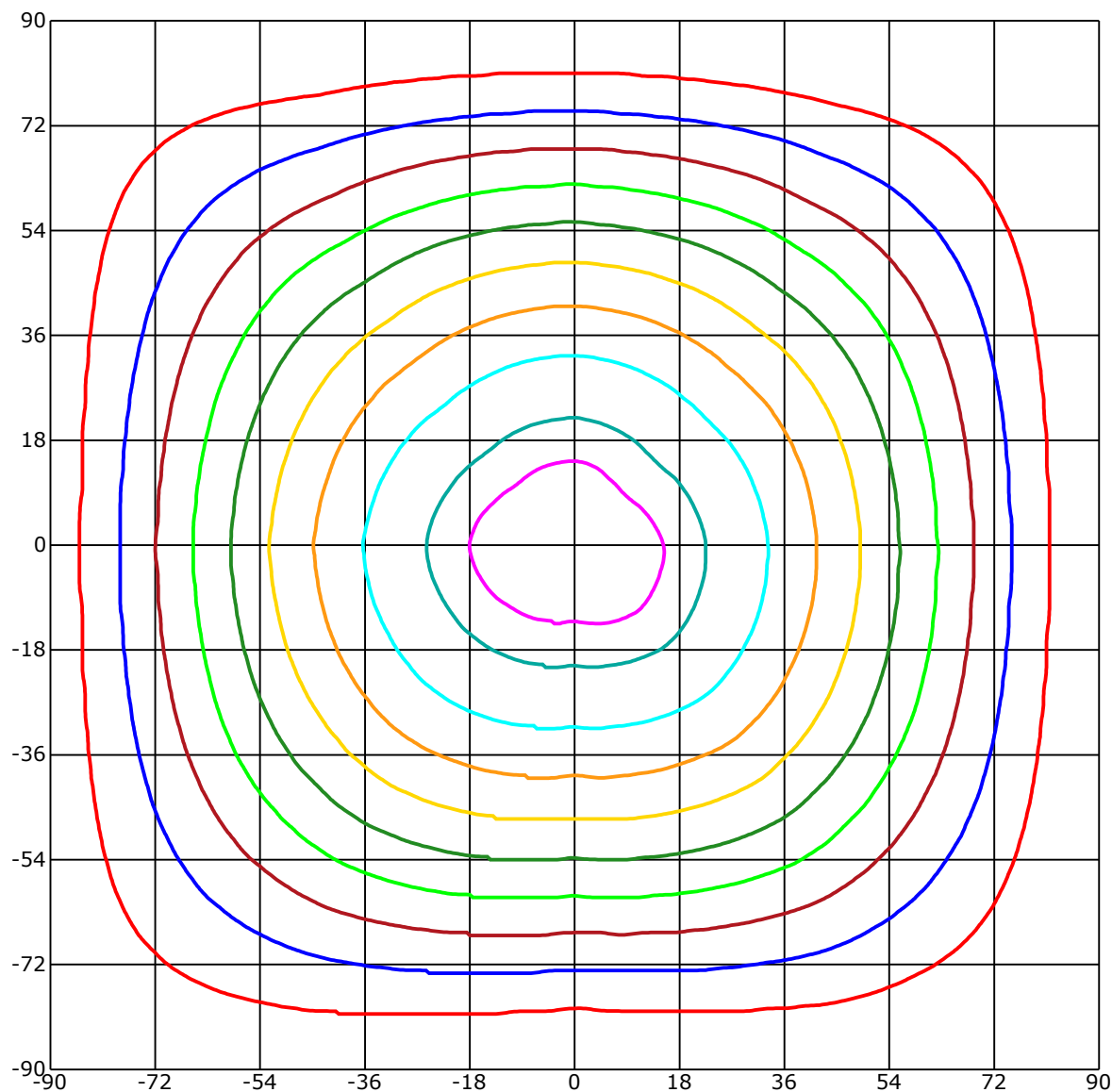
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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.:

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ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 762.216 cd

724.105(95%I _{max})	381.108(50%I _{max})
685.994(90%I _{max})	304.886(40%I _{max})
609.773(80%I _{max})	228.665(30%I _{max})
533.551(70%I _{max})	152.443(20%I _{max})
457.33(60%I _{max})	76.222(10%I _{max})

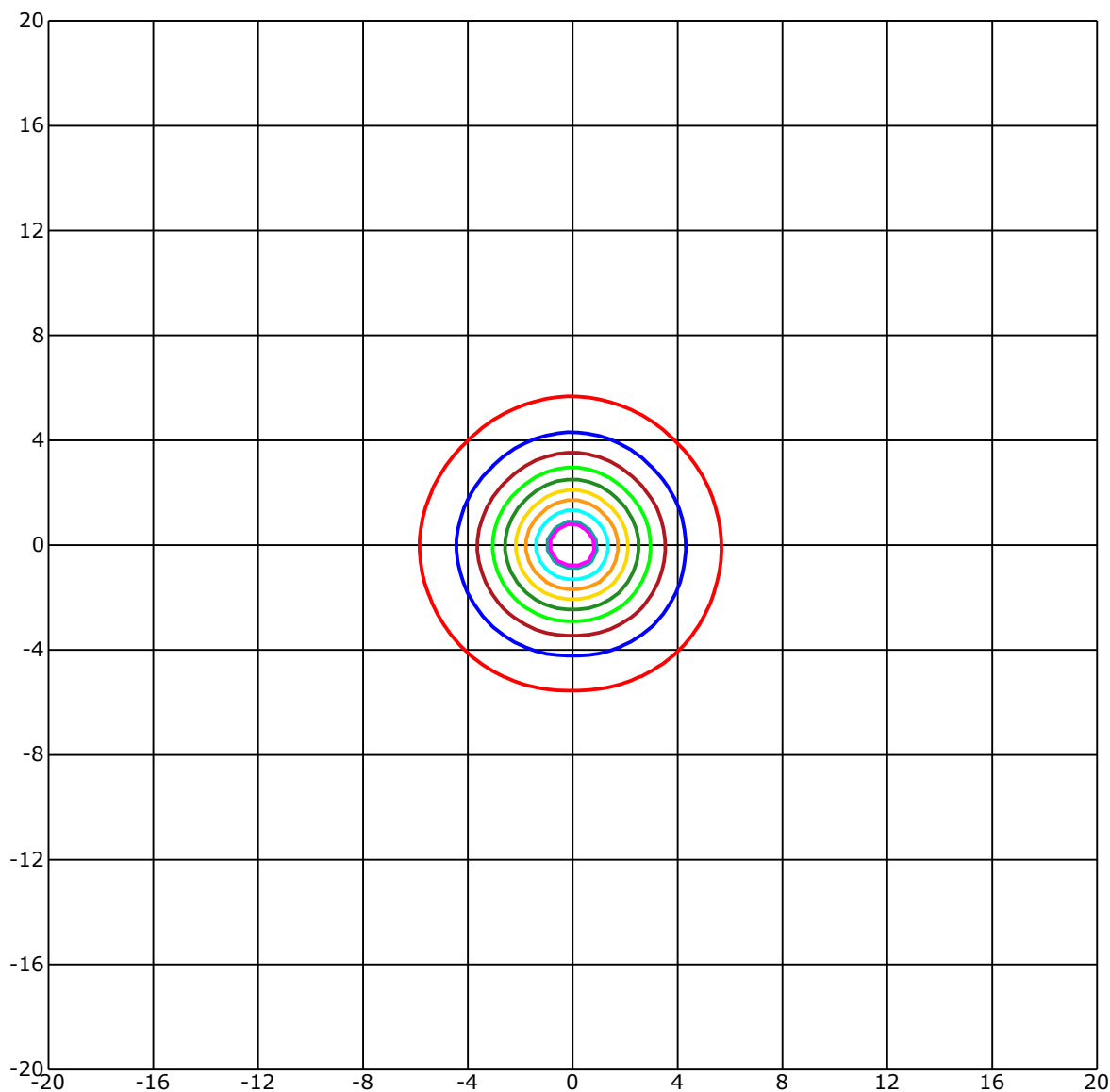
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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)

43.807(92%Emax)	23.808(50%Emax)
42.855(90%Emax)	19.047(40%Emax)
38.093(80%Emax)	14.285(30%Emax)
33.332(70%Emax)	9.523(20%Emax)
28.57(60%Emax)	4.762(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/30 15:24:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

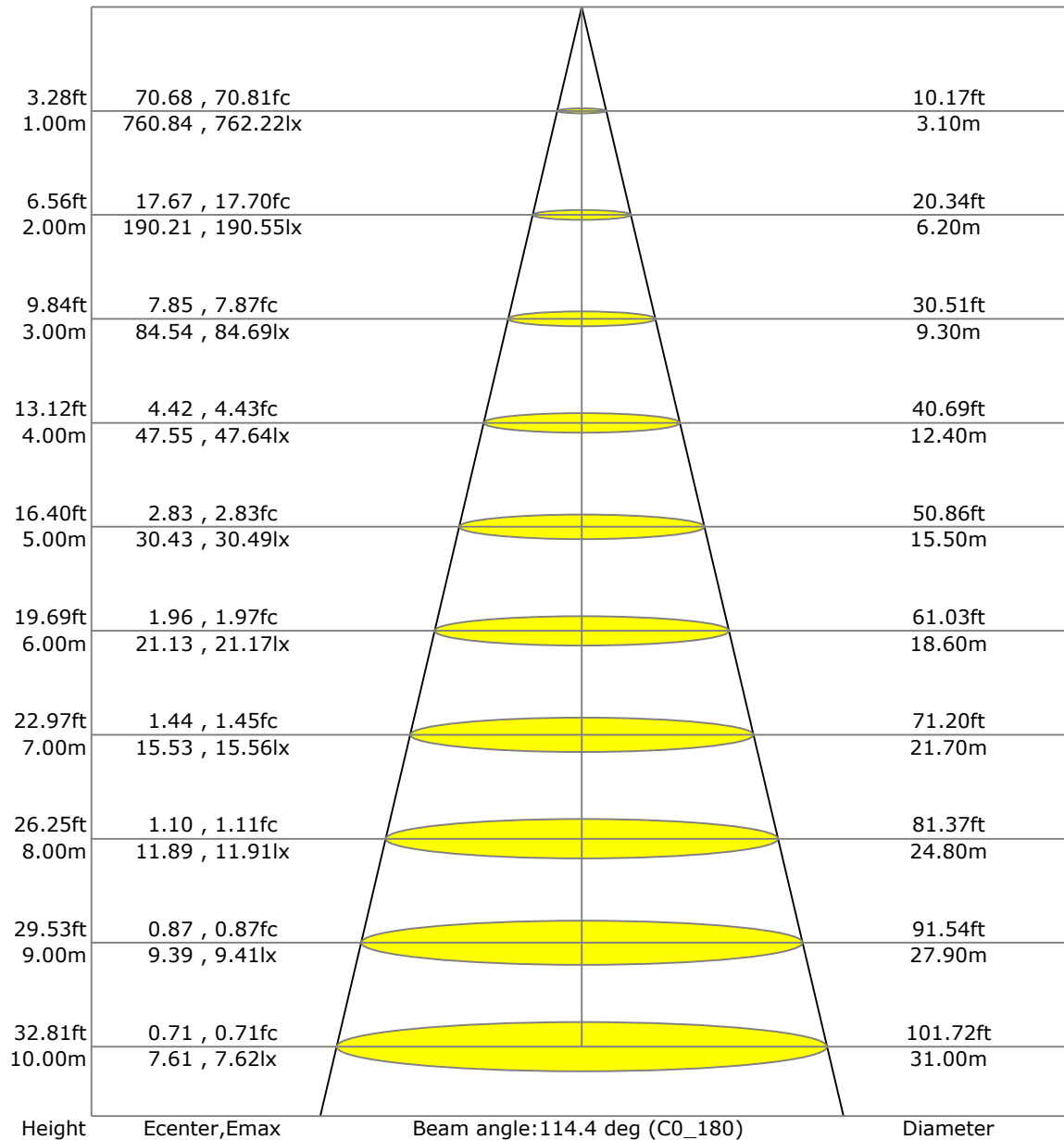
Test Distance: 5.95 m

Remarks:

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LX-DISTANCE DIAGRAM



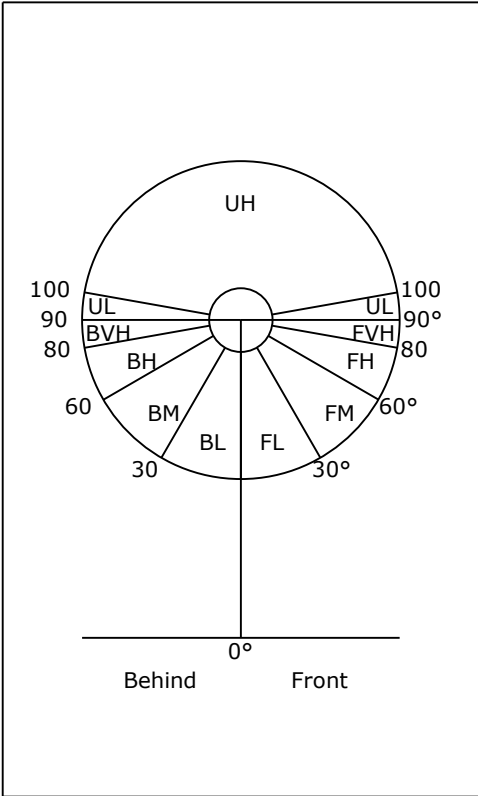
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/5/30 15:24:23

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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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	1073.5	49.7
FL (0°-30°)	291.0	13.5
FM (30°-60°)	548.4	25.4
FH (60°-80°)	211.7	9.8
FVH (80°-90°)	22.4	1.0
Behind	1086.7	50.3
BL (0°-30°)	292.4	13.5
BM (30°-60°)	554.2	25.7
BH (60°-80°)	216.3	10.0
BVH (80°-90°)	23.9	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

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

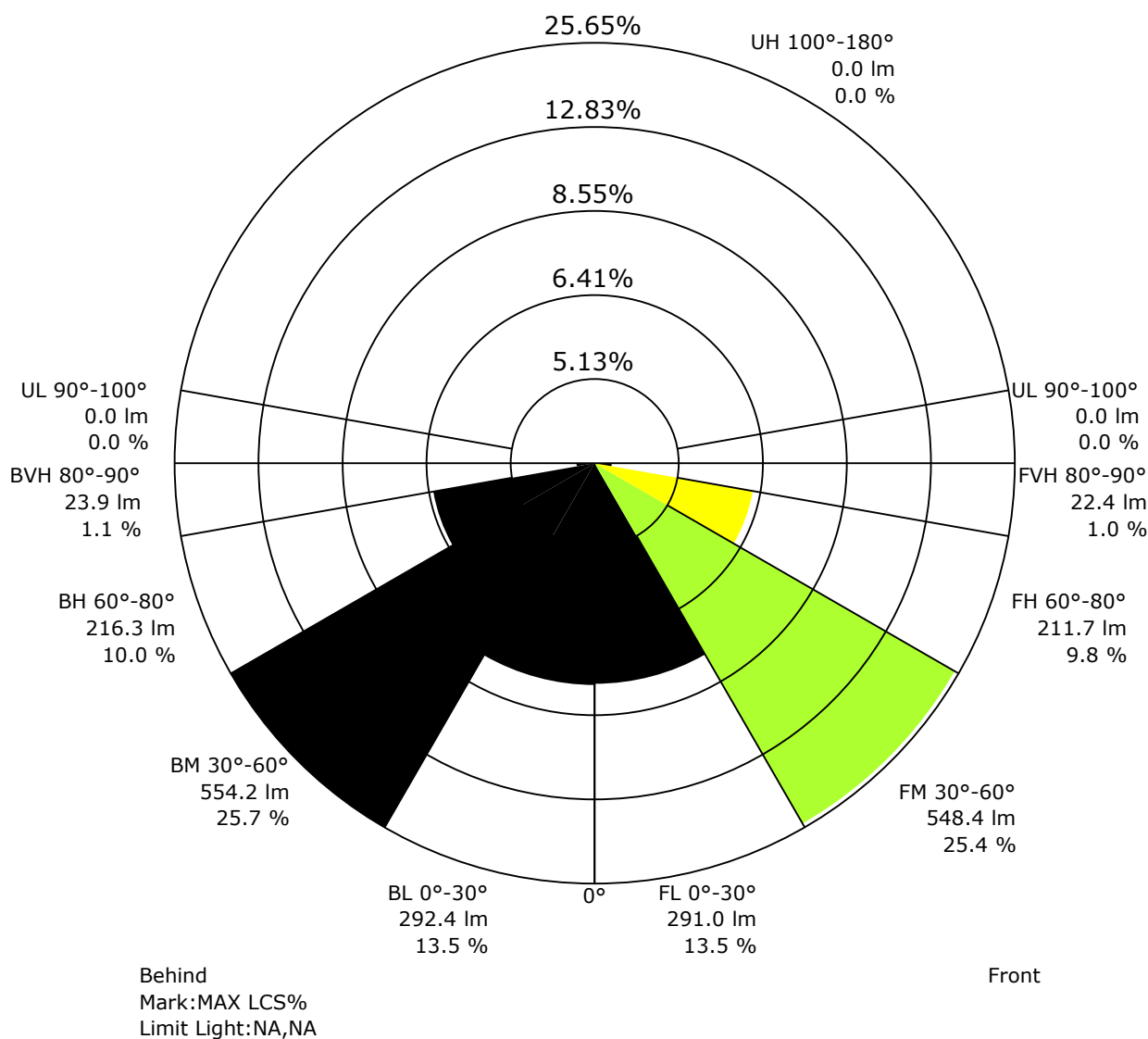
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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 15:24:23

LCS 图



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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

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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ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	744.3	731.0	740.2	739.5	750.6	739.9	734.1	743.9	10	71.4	71.4	3.3	3.3
20	699.3	684.6	698.2	695.9	714.9	702.3	688.6	703.9	20	203.9	275.3	12.7	12.7
30	632.7	616.3	632.1	629.9	656.1	640.0	616.5	638.4	30	308.1	583.4	27.0	27.0
40	546.5	528.2	546.7	541.5	576.8	557.6	527.6	553.8	40	370.5	953.9	44.2	44.2
50	445.1	426.2	444.1	440.2	479.5	458.5	420.6	451.2	50	384.1	1338.0	61.9	61.9
60	329.1	310.3	330.1	325.0	368.0	345.4	304.3	336.6	60	348.0	1686.0	78.0	78.0
70	207.7	191.9	209.0	205.8	247.5	225.2	183.5	214.5	70	268.3	1954.3	90.5	90.5
80	89.6	75.7	92.2	87.4	127.8	106.2	68.9	95.6	80	159.7	2114.0	97.9	97.9
90	2.4	0.6	0.0	2.0	15.2	7.4	0.4	1.6	90	46.3	2160.2	100.0	100.0

Conical surface Flux(90deg) : 1147.3 lm

%lum = 53.1%

%lamp = 53.1%

Conical surface Flux(120deg) : 1686.0 lm

%lum = 78.0%

%lamp = 78.0%

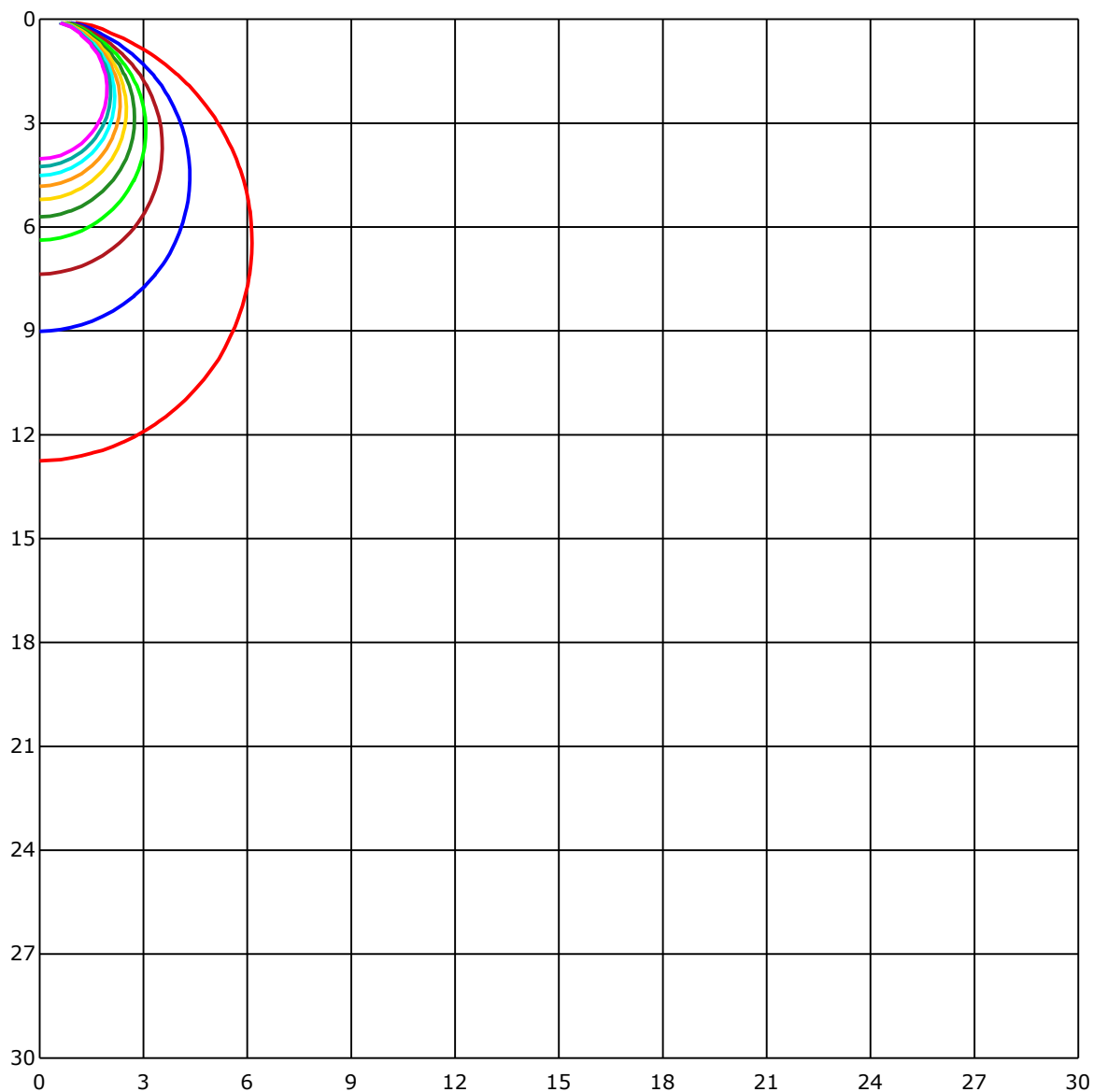
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/30 15:24:23

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.:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

46.817

42.135

37.454

32.772

28.09

23.409

18.727

14.045

9.363

4.682

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/30 15:24:23

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 15:24:23

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	760.84	749.15	753.33	756.48	760.84	749.15	753.33	756.48	760.84	
G1	759.77	748.55	752.94	757.79	762.22	750.0	752.94	755.98	759.77	
G2	758.99	748.23	752.73	755.49	761.65	749.44	751.1	755.74	758.99	
G3	760.06	746.57	752.23	754.04	761.4	749.29	750.04	756.27	760.06	
G4	757.05	746.67	750.92	752.83	760.84	748.8	749.72	754.96	757.05	
G5	754.85	743.31	749.82	751.84	758.92	747.91	748.02	753.26	754.85	
G6	753.47	741.79	748.94	750.53	758.92	749.4	745.54	752.37	753.47	
G7	750.75	741.01	747.21	747.35	757.54	745.29	743.17	751.21	750.75	
G8	749.93	736.8	745.12	745.01	754.78	743.63	741.19	748.13	749.93	
G9	745.65	733.47	743.35	742.92	754.07	742.14	737.68	746.96	745.65	
G10	744.3	730.96	740.16	739.52	750.64	739.88	734.11	743.88	744.3	
G11	740.55	727.1	736.76	737.36	749.29	736.76	730.57	741.54	740.55	
G12	736.58	724.37	734.74	732.9	745.58	734.5	728.02	737.4	736.58	
G13	732.97	719.45	730.67	729.75	743.7	731.42	722.92	734.53	732.97	
G14	728.51	715.2	728.51	725.72	740.55	728.05	719.2	731.42	728.51	
G15	724.76	711.31	722.42	721.5	736.58	724.02	715.13	726.49	724.76	
G16	719.73	706.6	719.13	717.5	732.87	721.15	710.28	722.32	719.73	
G17	714.95	701.57	713.5	713.22	729.4	715.87	704.58	717.86	714.95	
G18	710.42	696.33	709.18	707.13	724.62	711.94	699.16	713.11	710.42	
G19	704.72	691.3	703.55	701.36	720.19	707.77	693.07	709.68	704.72	
G20	699.27	684.61	698.17	695.91	714.92	702.31	688.65	703.94	699.27	
G21	694.07	679.34	692.97	690.74	709.89	696.69	681.99	698.07	694.07	
G22	688.22	673.21	686.6	684.79	705.68	691.27	674.74	692.86	688.22	
G23	681.64	666.49	681.04	678.63	699.84	685.57	668.15	686.91	681.64	
G24	675.83	660.96	674.91	671.83	694.38	679.76	662.45	681.32	675.83	
G25	669.39	654.52	668.47	666.1	688.61	673.67	654.63	673.46	669.39	
G26	662.2	646.02	661.32	658.73	682.1	667.37	648.33	666.88	662.2	
G27	655.65	639.37	654.42	651.23	675.83	661.81	639.94	660.65	655.65	
G28	650.7	631.47	647.65	643.94	670.28	654.59	633.53	653.18	650.7	
G29	640.47	623.79	640.68	637.28	664.04	647.16	624.64	646.87	640.47	
G30	632.75	616.32	632.08	629.92	656.15	639.97	616.46	638.45	632.75	
G31	624.89	608.21	624.15	620.57	648.96	632.93	608.99	631.19	624.89	
G32	616.85	600.04	616.92	612.43	642.45	624.85	599.54	623.69	616.85	
G33	609.88	591.29	608.14	604.71	633.88	617.42	591.68	614.73	609.88	
G34	600.28	584.5	600.04	596.36	626.06	609.45	582.9	607.4	600.28	
G35	591.79	574.51	591.54	587.26	618.69	600.82	573.52	598.05	591.79	
G36	583.08	565.17	582.09	579.72	611.19	594.23	563.96	589.88	583.08	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

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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 15:24:23

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	574.23	556.49	573.41	569.98	603.15	584.04	554.26	580.67	574.23	
G38	565.31	546.9	564.56	560.85	595.54	575.26	545.73	572.03	565.31	
G39	556.95	538.68	555.43	551.15	586.05	566.9	536.21	563.57	556.95	
G40	546.47	528.24	546.72	541.48	576.81	557.55	527.6	553.84	546.47	
G41	536.67	518.12	536.95	532.91	567.68	549.02	515.21	544.21	536.67	
G42	526.97	508.42	527.21	522.43	558.86	539.11	505.12	534.47	526.97	
G43	517.97	499.03	516.84	512.73	549.06	529.48	495.46	524.52	517.97	
G44	506.96	489.12	506.72	502.89	539.32	519.21	485.33	514.4	506.96	
G45	496.7	479.14	496.34	492.98	529.98	509.44	474.11	504.03	496.7	
G46	486.86	469.19	485.69	482.43	519.35	500.17	464.23	493.79	486.86	
G47	476.84	458.43	475.35	472.48	510.22	489.12	452.98	483.95	476.84	
G48	466.75	447.42	465.65	461.68	499.92	478.85	442.53	473.08	466.75	
G49	454.99	436.76	454.82	451.67	490.08	468.38	432.05	462.71	454.99	
G50	445.12	426.25	444.09	440.23	479.46	458.5	420.58	451.2	445.12	
G51	433.54	414.74	433.26	430.67	468.59	447.24	409.11	440.44	433.54	
G52	421.33	404.26	422.53	418.07	459.52	436.51	397.43	429.47	421.33	
G53	410.88	391.87	410.88	406.85	446.89	425.4	386.35	418.1	410.88	
G54	399.41	380.86	399.62	394.56	436.05	414.24	374.74	407.02	399.41	
G55	387.52	368.75	388.26	383.48	425.18	403.59	364.01	395.23	387.52	
G56	375.27	357.14	376.82	372.79	413.43	392.15	351.16	383.9	375.27	
G57	363.55	345.56	365.07	360.4	402.85	380.51	339.51	372.04	363.55	
G58	352.11	334.13	352.93	348.64	390.81	368.79	327.79	360.68	352.11	
G59	340.29	322.55	341.53	336.54	379.16	357.03	315.86	348.4	340.29	
G60	329.07	310.27	330.13	325.03	368.01	345.42	304.32	336.57	329.07	
G61	317.1	298.58	318.09	313.38	356.61	334.02	292.39	324.96	317.1	
G62	305.35	286.41	305.95	301.13	344.86	322.52	281.2	312.82	305.35	
G63	293.52	274.48	294.05	288.74	332.75	310.3	269.17	301.28	293.52	
G64	281.13	262.44	282.33	276.81	320.46	298.37	257.45	288.96	281.13	
G65	268.78	250.61	269.87	265.2	308.82	286.16	244.49	276.21	268.78	
G66	256.53	238.86	257.69	252.99	296.85	274.69	232.13	263.89	256.53	
G67	243.89	227.28	245.62	241.16	284.85	262.23	219.42	251.68	243.89	
G68	231.11	215.32	233.37	229.34	271.82	249.48	207.0	238.97	231.11	
G69	219.32	203.53	221.3	217.97	260.14	237.2	194.82	226.79	219.32	
G70	207.74	191.92	209.02	205.79	247.53	225.2	183.49	214.47	207.74	
G71	195.88	180.55	196.8	194.04	235.75	212.84	172.16	202.36	195.88	
G72	183.92	168.41	185.26	182.0	223.78	200.98	160.48	190.22	183.92	
G73	172.16	156.62	173.15	170.29	211.67	188.66	148.55	177.86	172.16	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/30 15:24:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Remarks: