

Report No.:

Test Time: 2024/8/27 16:27:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT090-14.3W
Lamp Type:
Luminous Width: 82 mm
Luminous Length: 82 mm
Luminous Height: 45 mm

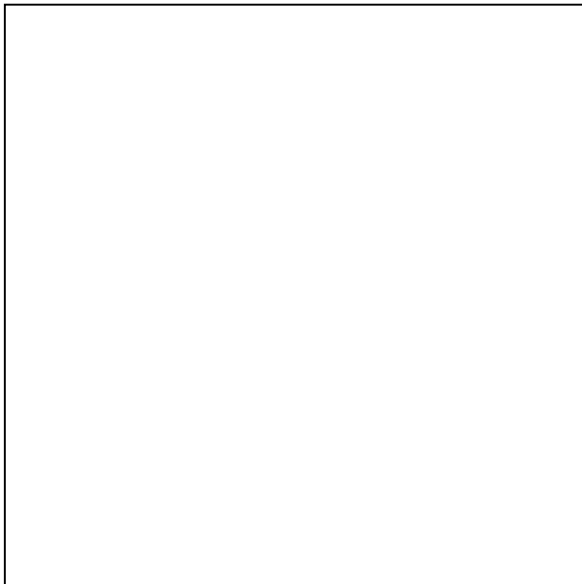
Voltage(V): 219.90 V
Current(A): 0.0680 A
Power(W): 14.28 W
Power Factor: 0.9440
Lamp Luminous Flux: 821.43

Photometric Results

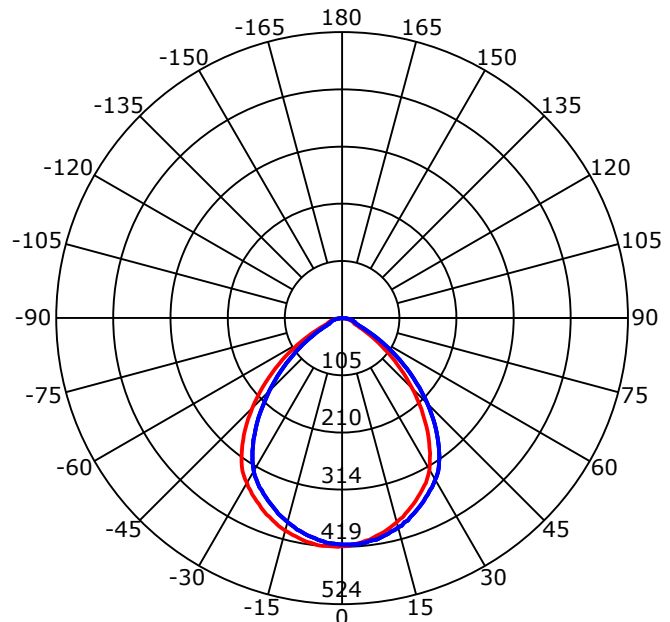
CIE Class: Direct
Luminaire Luminous Flux: 821.4305 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 57.52 lm/W
Beam Angle(50%) C0-180,C90-270: 89.5,89.2
Field Angle(10%) C0-180,C90-270: 127.2,127.1
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 419.08 cd
Max.Intensity Angle: C=180 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 417.87 cd
Effective Luminous Flux: 773.90 lm
ERP(ϕ use)(120deg): 754.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.5 deg,89.2 deg

C0-180 — C90-270 —

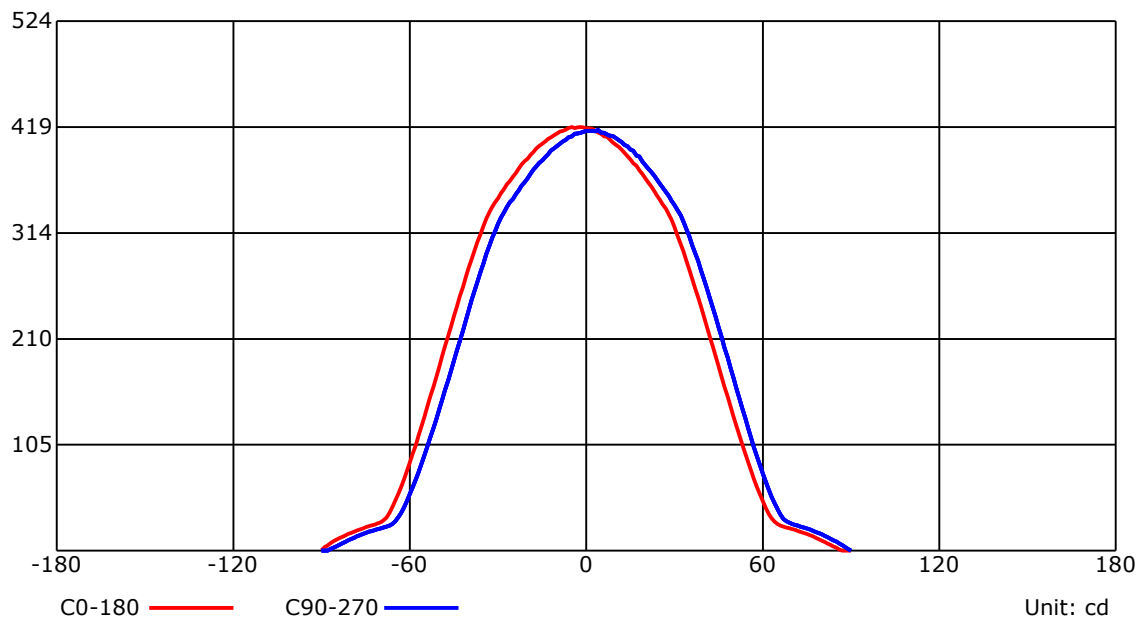
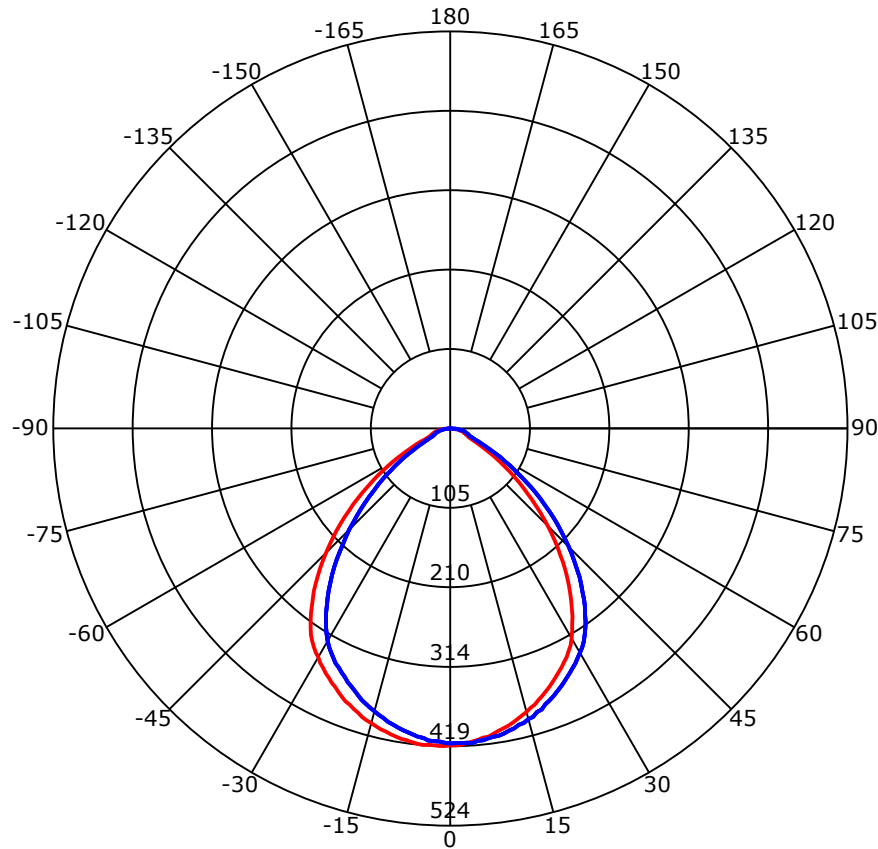
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

Luminous Intensity Distribution Curve



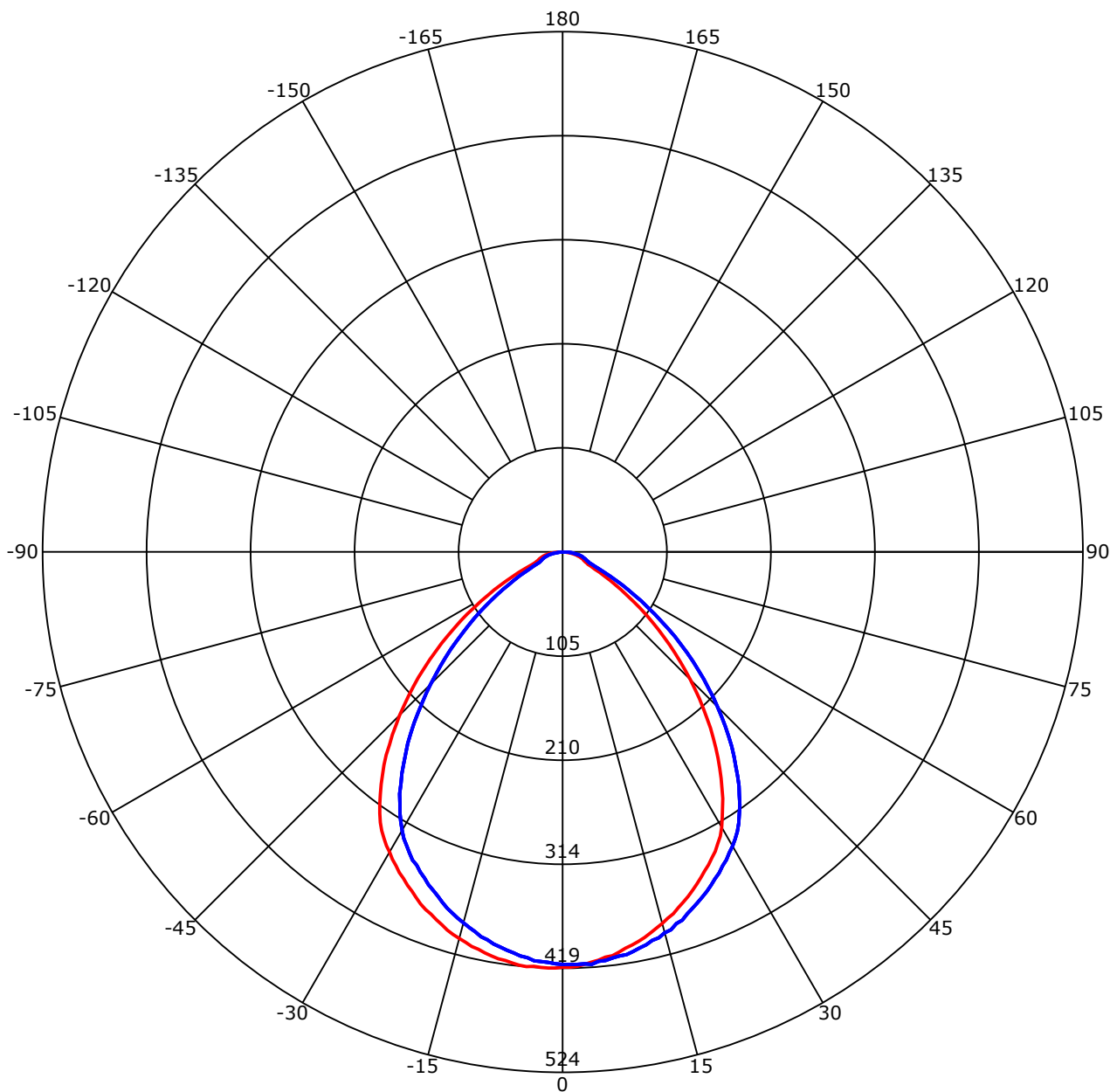
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

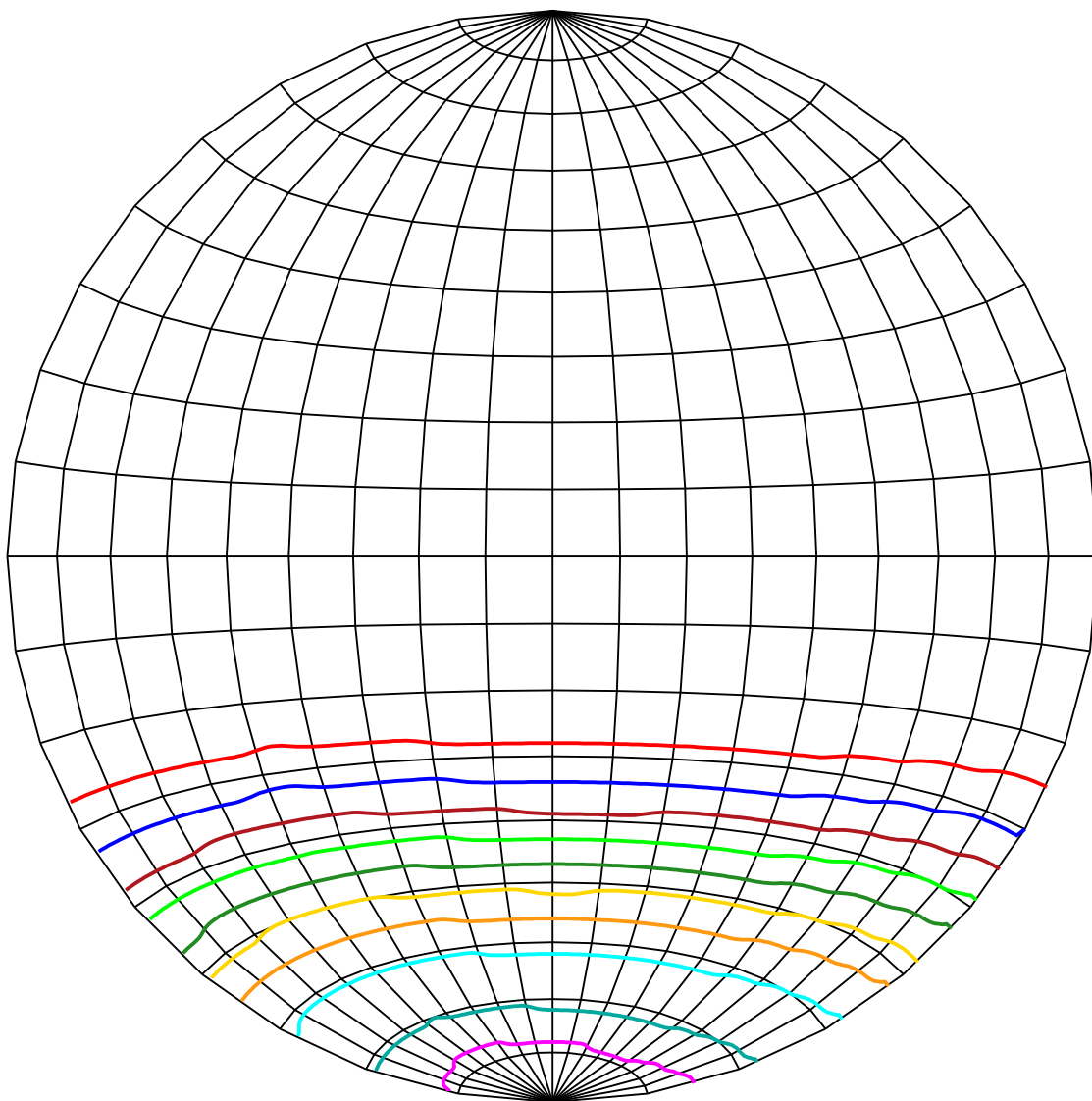
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 419.084 cd

398.13(95%Imax)	209.542(50%Imax)
377.176(90%Imax)	167.634(40%Imax)
335.268(80%Imax)	125.725(30%Imax)
293.359(70%Imax)	83.817(20%Imax)
251.451(60%Imax)	41.908(10%Imax)

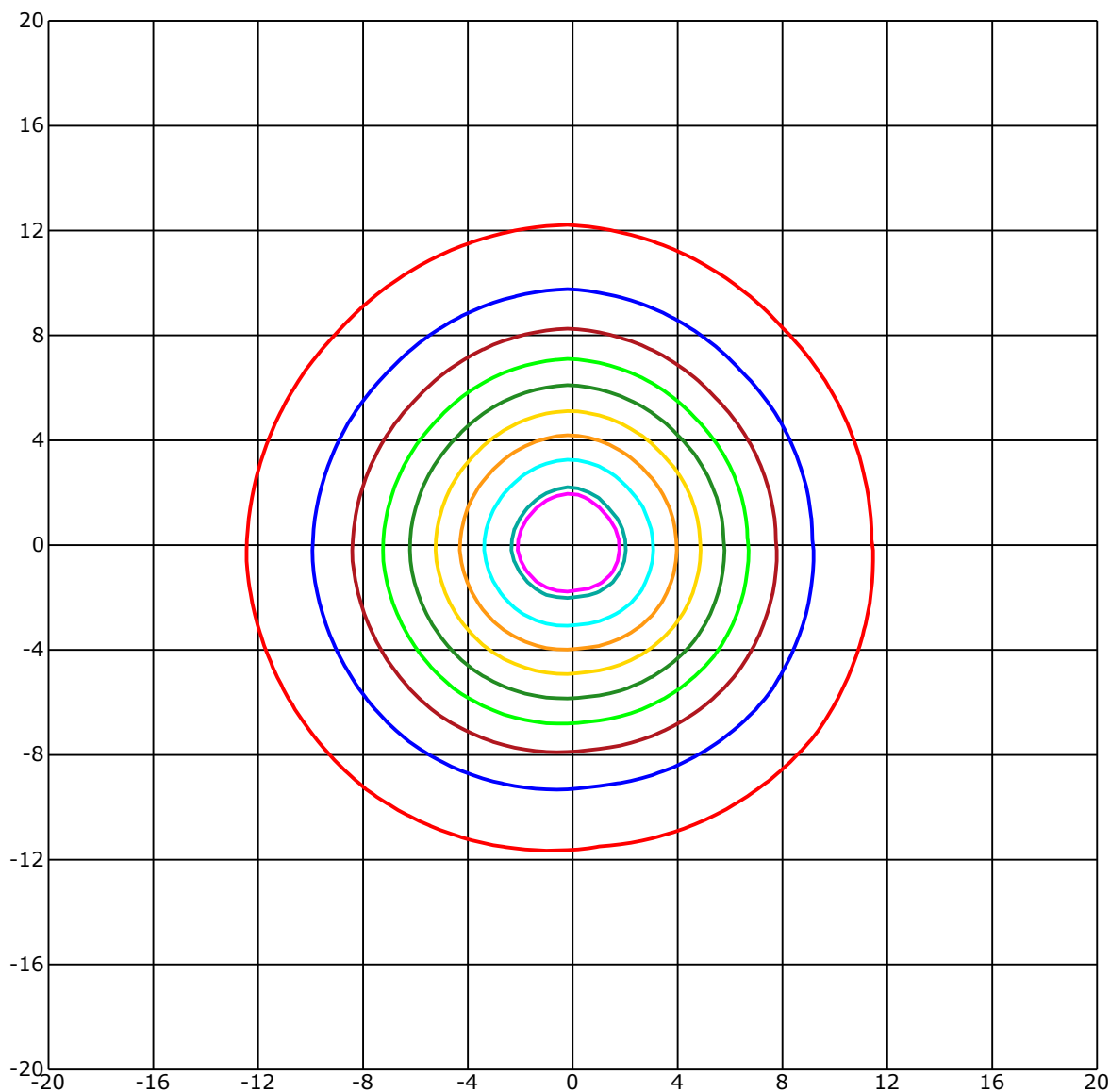
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

ISOLX DIAGRAM



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

3.852(92%Emax)	2.093(50%Emax)
3.768(90%Emax)	1.675(40%Emax)
3.349(80%Emax)	1.256(30%Emax)
2.931(70%Emax)	0.837(20%Emax)
2.512(60%Emax)	0.419(10%Emax)

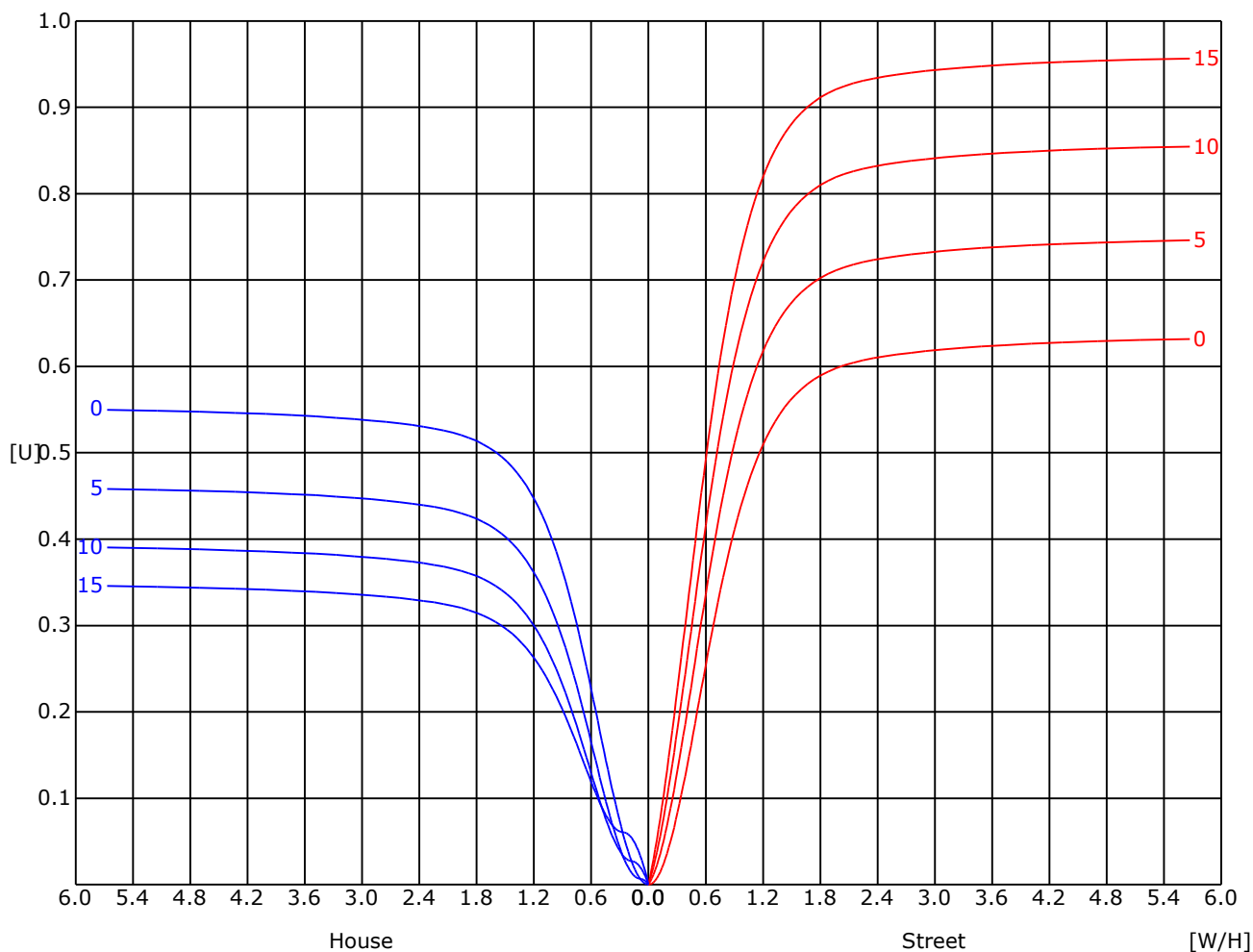
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

UTILIZATION FACTOR DIAGRAM (ROAD)



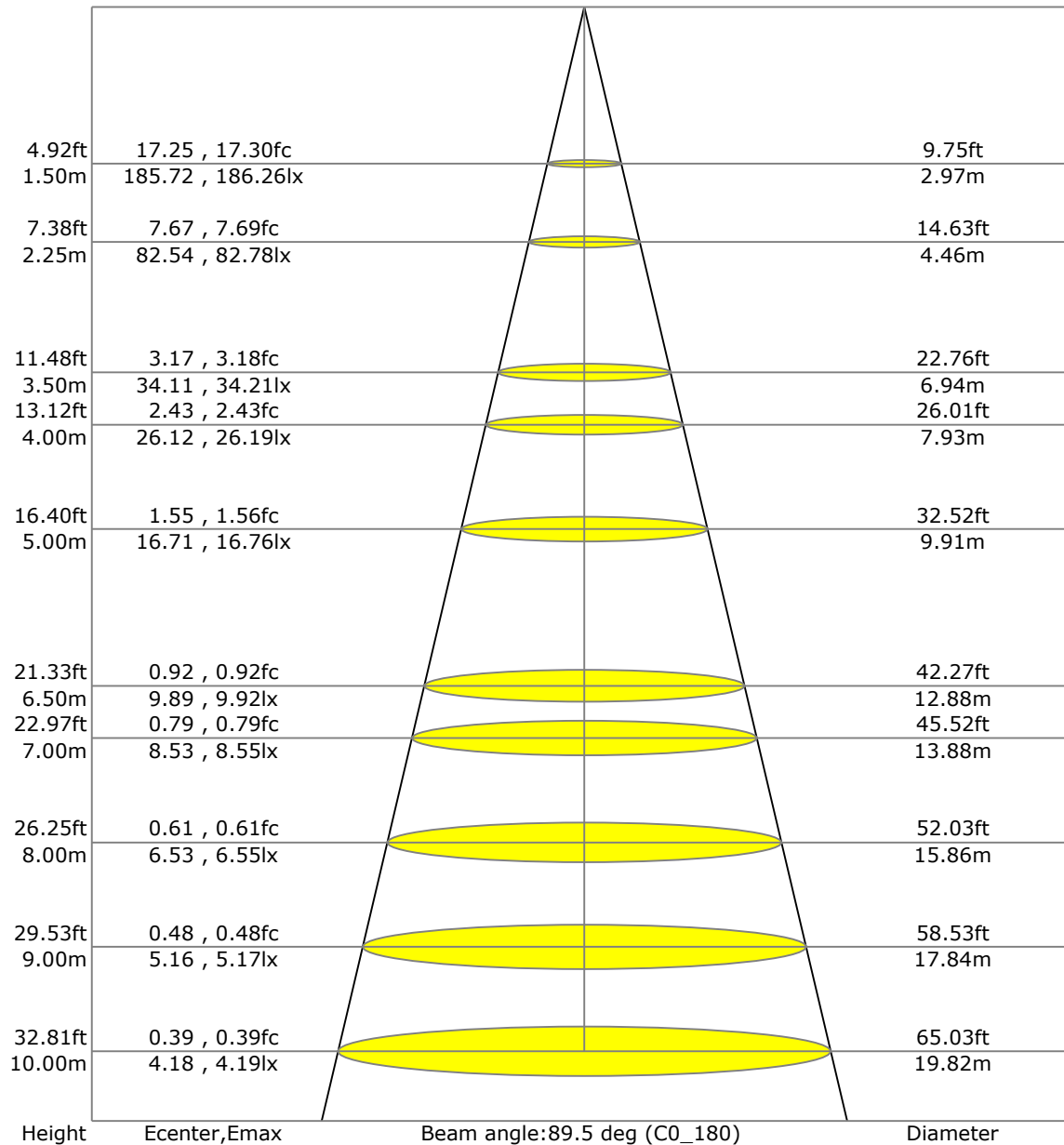
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

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	19.60	19.67	19.80	19.85	20.10	20.09	20.15	20.29	20.34	20.58
3H	19.60	19.66	19.80	19.85	20.10	20.07	20.13	20.28	20.33	20.57
4H	19.58	19.65	19.79	19.84	20.09	20.05	20.12	20.26	20.31	20.56
6H	19.56	19.62	19.78	19.82	20.07	20.03	20.09	20.25	20.29	20.54
8H	19.55	19.61	19.77	19.81	20.06	20.02	20.08	20.23	20.28	20.53
12H	19.53	19.59	19.76	19.80	20.05	20.00	20.06	20.22	20.27	20.52
4H 2H	20.02	20.08	20.23	20.28	20.53	20.63	20.69	20.84	20.89	21.14
3H	20.09	20.15	20.32	20.36	20.61	20.69	20.74	20.91	20.95	21.21
4H	20.11	20.16	20.34	20.38	20.64	20.69	20.75	20.92	20.96	21.22
6H	20.10	20.15	20.34	20.37	20.64	20.67	20.72	20.91	20.95	21.21
8H	20.09	20.14	20.33	20.36	20.63	20.66	20.71	20.90	20.93	21.20
12H	20.07	20.12	20.32	20.35	20.62	20.64	20.69	20.89	20.92	21.19
8H 4H	20.16	20.22	20.38	20.42	20.68	20.88	20.94	21.10	21.14	21.40
6H	20.35	20.40	20.61	20.64	20.91	21.06	21.11	21.32	21.35	21.62
8H	20.35	20.39	20.61	20.64	20.91	21.05	21.09	21.31	21.34	21.62
12H	20.33	20.37	20.60	20.63	20.91	21.03	21.07	21.30	21.33	21.61
12H 4H	20.35	20.40	20.60	20.63	20.90	21.16	21.21	21.41	21.44	21.71
6H	20.38	20.42	20.64	20.66	20.94	21.18	21.23	21.45	21.47	21.75

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

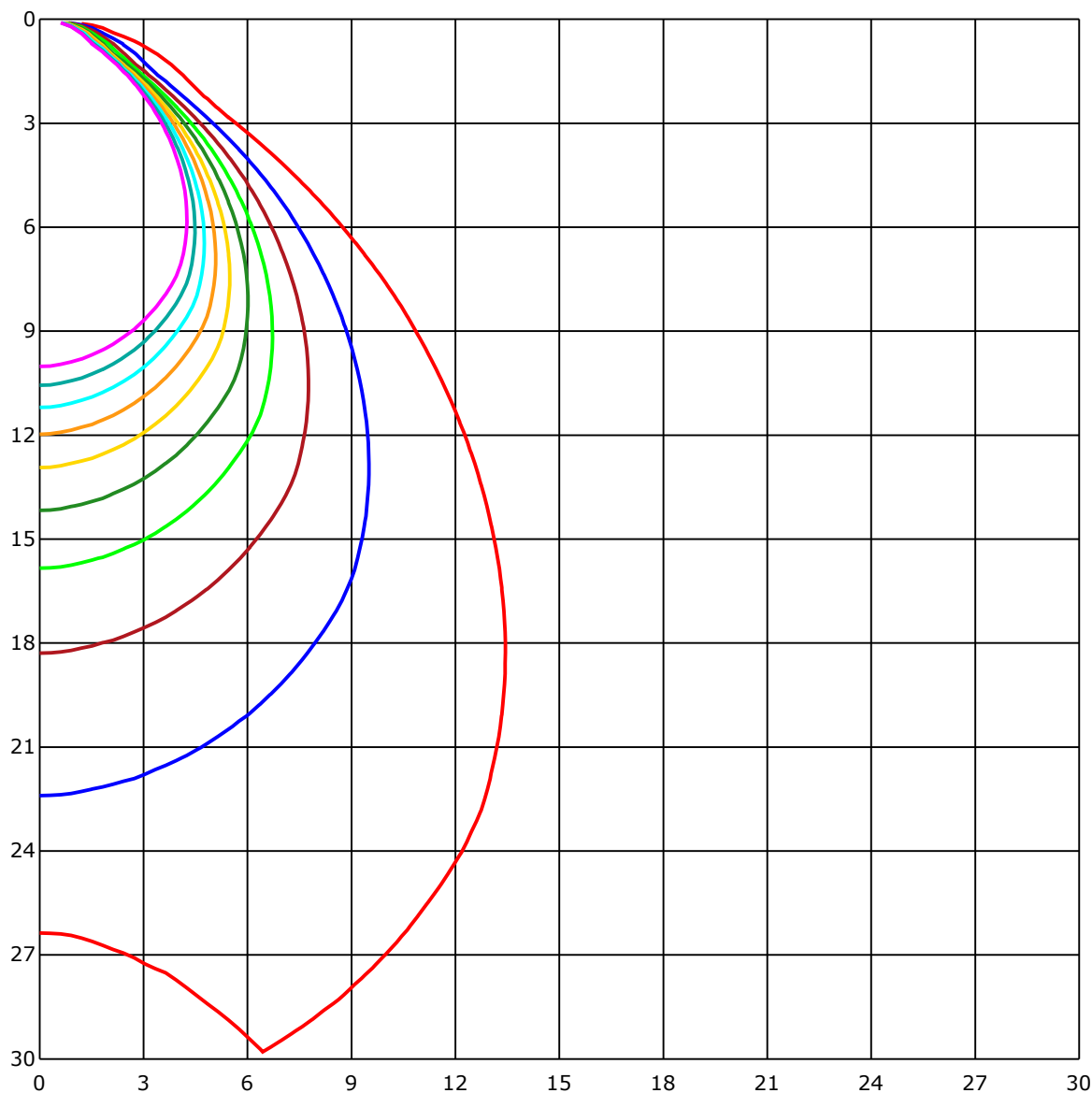
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	417.87	414.9	415.26	418.45	417.87	414.9	415.26	418.45	417.87	
G1	417.87	414.31	415.21	418.0	418.86	414.0	414.49	417.19	417.87	
G2	417.24	412.83	415.3	416.61	419.04	414.72	413.32	417.28	417.24	
G3	415.66	413.05	415.12	417.28	418.72	414.22	412.92	415.71	415.66	
G4	413.82	412.06	416.2	415.57	418.18	414.18	412.51	414.04	413.82	
G5	412.51	409.13	413.68	416.11	419.08	412.6	409.9	412.92	412.51	
G6	410.08	407.47	413.5	415.08	418.27	412.47	408.91	411.43	410.08	
G7	409.49	405.71	411.75	412.92	416.7	411.16	406.48	411.34	409.49	
G8	406.7	404.23	410.66	411.12	415.3	410.66	404.77	409.0	406.7	
G9	403.82	401.52	410.39	411.16	414.72	408.59	402.74	406.39	403.82	
G10	401.71	399.27	408.46	408.5	412.92	406.66	400.53	403.51	401.71	
G11	399.41	396.71	406.03	406.7	411.03	405.22	397.74	401.89	399.41	
G12	396.66	394.91	404.36	404.27	408.82	404.18	395.99	399.36	396.66	
G13	393.47	391.98	401.25	402.34	407.47	400.67	392.16	397.07	393.47	
G14	390.13	389.41	400.17	398.87	404.9	398.64	389.41	393.87	390.13	
G15	387.21	385.77	396.98	397.74	402.7	395.9	386.31	391.03	387.21	
G16	383.43	382.75	395.67	393.69	400.49	394.68	383.61	387.34	383.43	
G17	380.9	380.23	391.03	390.99	398.01	390.94	380.23	385.54	380.9	
G18	376.36	375.46	389.86	388.02	394.37	388.51	377.12	382.48	376.36	
G19	372.75	371.76	385.09	385.32	391.48	384.51	372.75	377.57	372.75	
G20	368.88	368.93	381.85	380.72	387.75	381.26	368.48	374.02	368.88	
G21	364.79	364.06	378.34	377.26	385.68	378.16	364.52	370.64	364.79	
G22	360.6	360.69	374.87	375.19	382.07	373.7	361.18	366.09	360.6	
G23	356.01	355.6	371.13	370.1	378.02	369.78	356.5	362.35	356.01	
G24	351.46	352.31	367.22	365.33	373.61	367.04	352.67	358.08	351.46	
G25	347.36	348.08	362.98	361.72	370.14	363.66	347.9	353.71	347.36	
G26	342.59	343.94	359.29	357.18	365.78	358.89	344.93	348.53	342.59	
G27	338.4	338.58	354.7	353.53	362.35	354.88	339.93	345.51	338.4	
G28	332.5	333.54	351.01	348.85	357.72	350.24	334.62	339.75	332.5	
G29	327.15	328.14	346.1	343.94	353.75	345.65	329.89	334.98	327.15	
G30	320.03	322.82	341.91	338.58	348.67	340.97	323.68	329.49	320.03	
G31	311.66	314.72	337.1	333.4	344.88	335.92	316.61	323.27	311.66	
G32	303.55	307.83	331.96	328.54	339.89	331.92	309.23	316.02	303.55	
G33	295.76	299.59	325.3	321.52	334.66	325.48	301.21	308.28	295.76	
G34	286.76	291.08	318.14	313.37	328.5	319.09	293.65	300.31	286.76	
G35	278.25	282.39	311.03	306.34	321.11	310.53	284.1	291.98	278.25	
G36	269.11	273.97	302.29	297.56	313.32	303.46	275.82	282.21	269.11	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/27 16:27:43

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	259.92	264.7	294.77	288.92	305.4	295.13	265.96	273.61	259.92	
G38	250.42	256.23	286.26	280.05	296.89	286.4	256.91	265.1	250.42	
G39	240.97	246.42	276.9	271.5	288.2	277.84	248.04	255.15	240.97	
G40	231.29	236.96	268.3	262.04	280.05	268.97	238.04	245.16	231.29	
G41	221.38	226.79	259.47	252.86	270.77	258.93	227.91	236.29	221.38	
G42	211.52	217.47	249.93	243.09	260.69	249.88	217.56	226.25	211.52	
G43	201.57	207.43	239.89	233.68	251.46	239.44	207.25	216.79	201.57	
G44	191.62	197.3	230.57	224.04	241.37	230.52	197.88	207.16	191.62	
G45	181.76	187.3	220.48	214.49	232.19	220.03	188.11	197.39	181.76	
G46	171.63	177.4	211.34	204.36	222.19	209.9	178.34	186.94	171.63	
G47	162.0	167.62	200.49	195.22	212.47	199.73	168.44	177.71	162.0	
G48	152.27	158.17	191.08	185.0	202.52	189.73	158.98	167.71	152.27	
G49	142.55	147.99	180.77	175.23	192.66	179.47	149.3	158.3	142.55	
G50	132.87	138.4	171.14	165.37	181.99	169.88	139.93	148.71	132.87	
G51	123.73	128.81	160.56	156.28	172.13	160.2	130.34	139.39	123.73	
G52	114.68	119.54	151.06	146.24	162.4	150.97	121.34	130.3	114.68	
G53	105.58	110.22	141.38	137.05	152.72	140.84	112.25	120.57	105.58	
G54	96.08	101.21	131.11	127.15	142.82	131.43	103.42	111.12	96.08	
G55	87.48	91.89	120.98	117.29	132.91	121.52	94.69	102.2	87.48	
G56	79.11	83.29	111.57	108.06	123.68	112.38	86.63	93.15	79.11	
G57	70.73	75.06	102.02	99.19	114.59	103.38	78.39	84.87	70.73	
G58	62.99	67.58	93.38	89.87	104.68	94.69	70.73	76.68	62.99	
G59	55.65	59.93	84.24	81.22	96.13	86.13	62.94	68.84	55.65	
G60	48.72	53.04	76.18	72.85	87.08	78.12	56.01	61.41	48.72	
G61	42.28	46.06	68.26	64.92	78.88	70.33	49.26	54.97	42.28	
G62	36.6	40.34	60.6	56.69	70.64	62.94	42.91	48.58	36.6	
G63	32.06	34.85	53.44	49.57	62.99	55.78	37.37	42.46	32.06	
G64	28.5	30.35	46.55	42.37	55.6	49.26	32.6	37.37	28.5	
G65	26.47	27.1	40.79	36.47	49.17	42.95	28.91	33.27	26.47	
G66	24.72	25.17	35.61	31.56	42.73	37.73	26.34	30.3	24.72	
G67	23.73	23.77	31.52	28.0	37.14	33.32	24.67	28.32	23.73	
G68	23.01	23.1	29.36	25.75	32.78	30.53	23.68	26.92	23.01	
G69	22.2	22.29	27.51	24.27	29.99	28.23	22.83	26.02	22.2	
G70	21.34	21.66	26.52	23.19	28.0	26.88	22.06	25.03	21.34	
G71	20.58	20.89	25.48	22.38	26.97	26.11	21.16	24.09	20.58	
G72	19.54	19.68	24.67	21.79	25.89	25.26	20.31	23.32	19.54	
G73	18.59	18.82	23.64	20.85	25.21	24.27	19.54	22.2	18.59	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 6

Test Distance: 6.71 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:27:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 6
Test Distance: 6.71 m
Remarks: