

Report No.: IBDL240CT145-22W

Test Time: 2023/7/29 14:46:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL240CT145-22W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

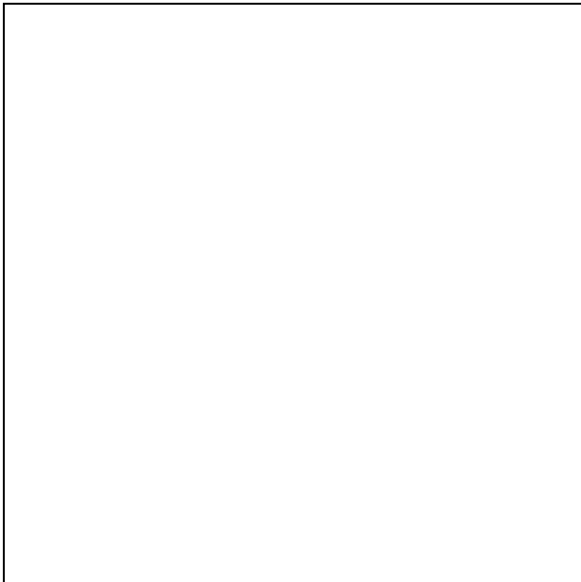
Voltage(V): 219.70 V
Current(A): 0.0990 A
Power(W): 21.33 W
Power Factor: 0.9750
Lamp Luminous Flux: 2533.68

Photometric Results

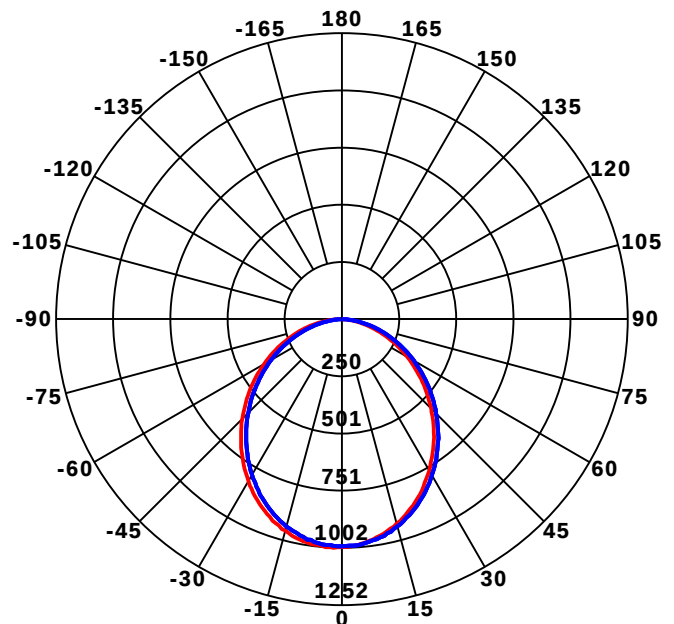
CIE Class: Direct
Luminaire Luminous Flux: 2533.675 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 118.78 lm/W
Beam Angle(50%) C0-180,C90-270: 101.4,101.6
Field Angle(10%) C0-180,C90-270: 158.6,158.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1001.86 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 999.38 cd
Effective Luminous Flux: 2482.50 lm
ERP(ϕ use)(120deg): 2040.78 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



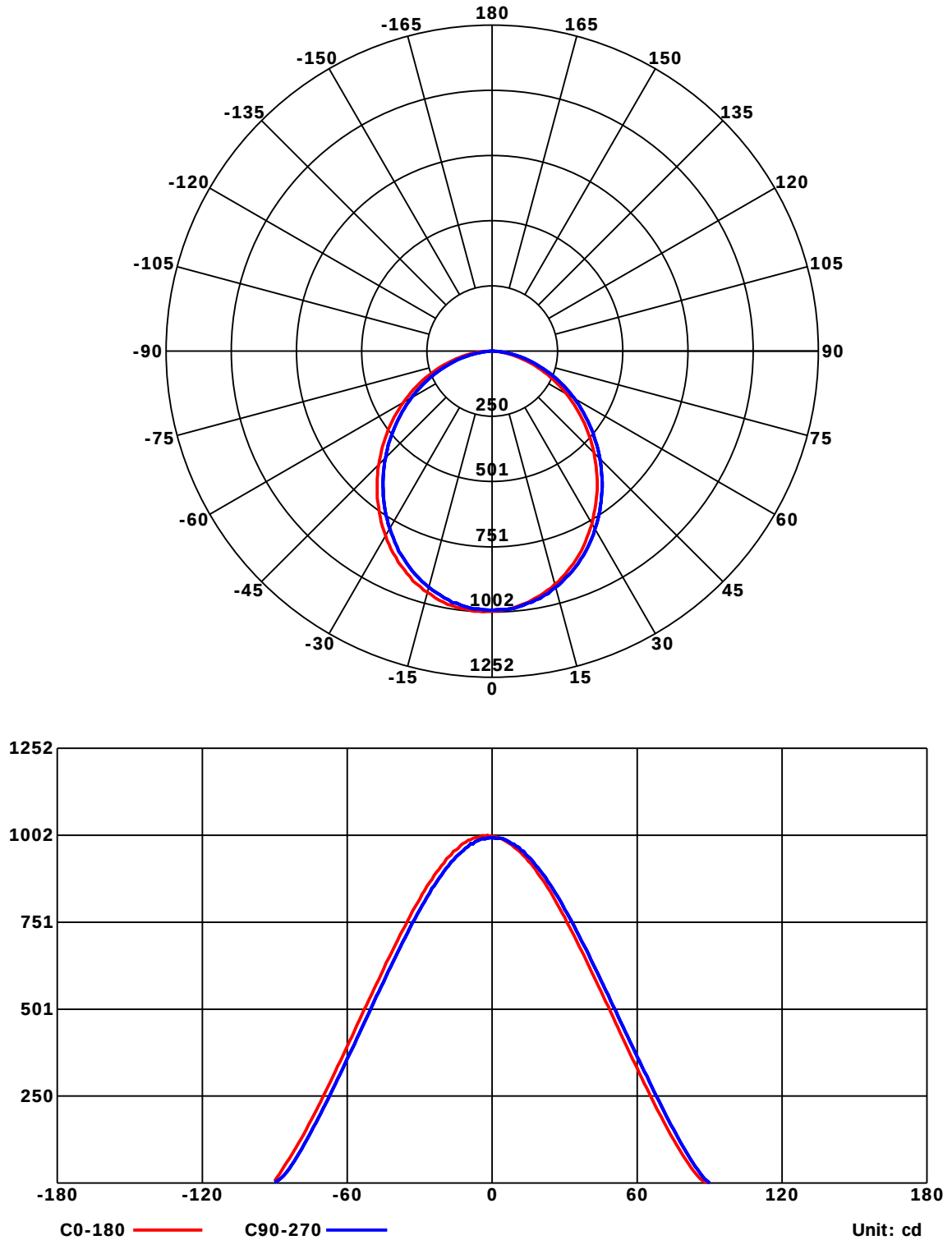
Beam Angle(50%) C0-180,C90-270: 101.4 deg,101.6 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 60
Test Distance: 6.66 m
Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

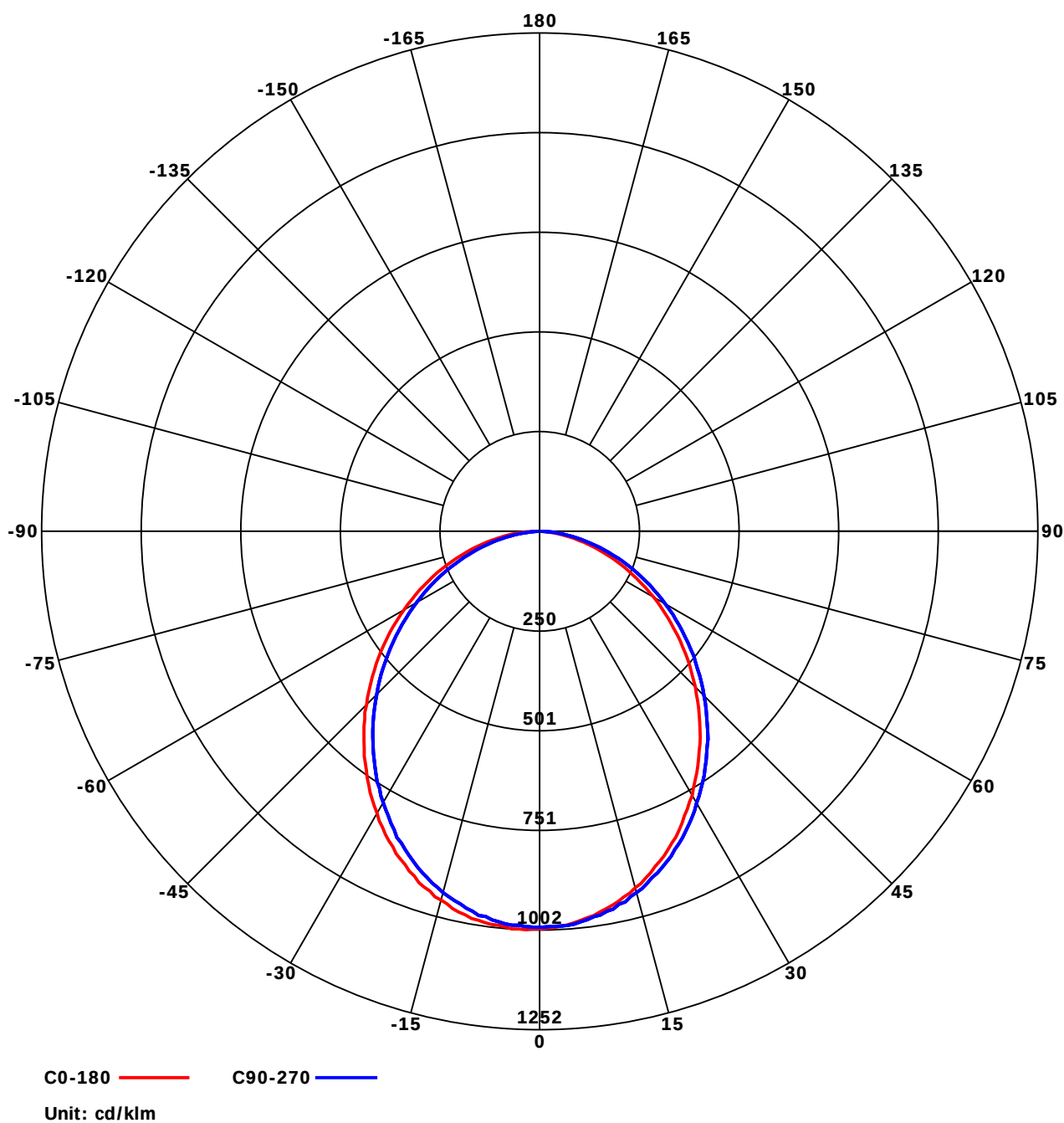
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

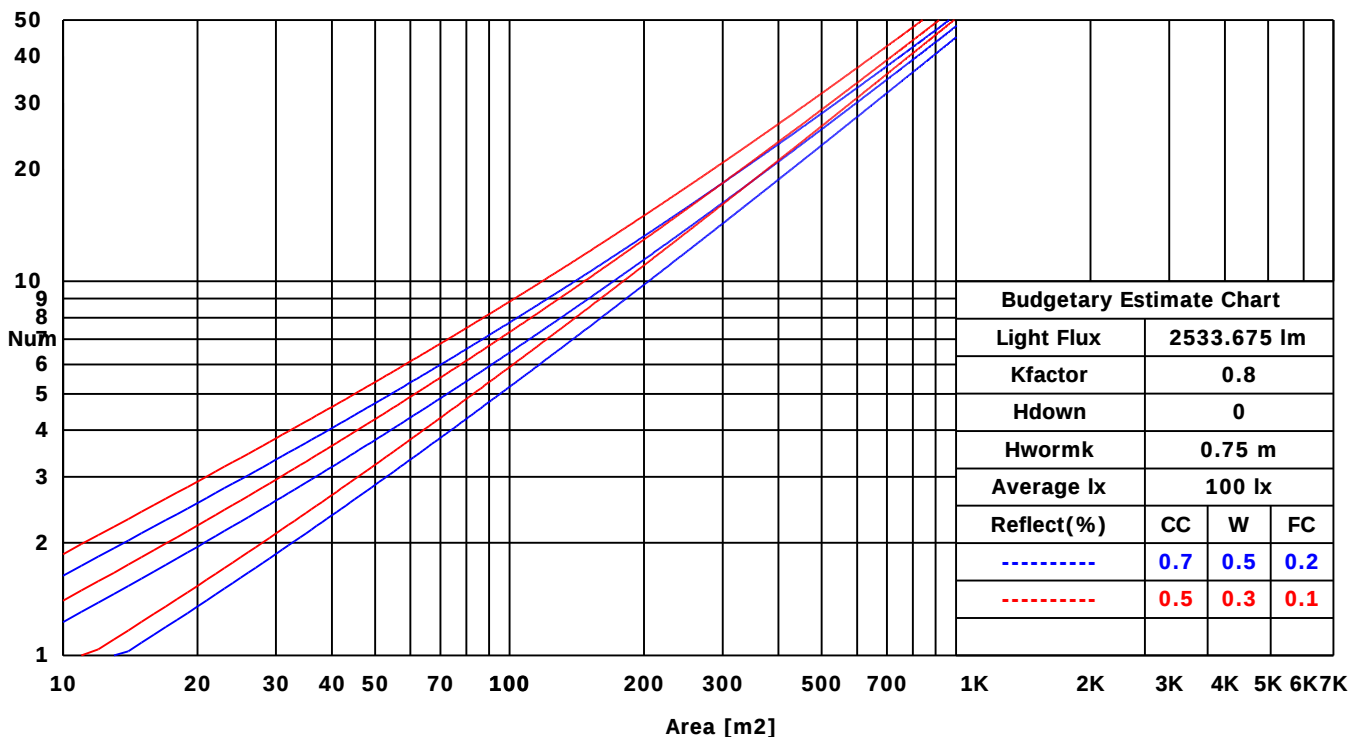
Test Distance: 6.66 m

Remarks:

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	1.19	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	1.07	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.64
4	0.77	0.74	0.73	0.77	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.70	0.67	0.66	0.70	0.66	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.65	0.60	0.55	0.51
6	0.63	0.61	0.60	0.64	0.60	0.58	0.63	0.59	0.56	0.62	0.57	0.53	0.60	0.55	0.50	0.47
7	0.58	0.56	0.55	0.58	0.55	0.54	0.58	0.54	0.51	0.58	0.53	0.49	0.56	0.51	0.46	0.43
8	0.54	0.52	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.39
9	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.47	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.37
10	0.47	0.45	0.44	0.47	0.44	0.43	0.47	0.43	0.41	0.47	0.42	0.39	0.47	0.41	0.37	0.34

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

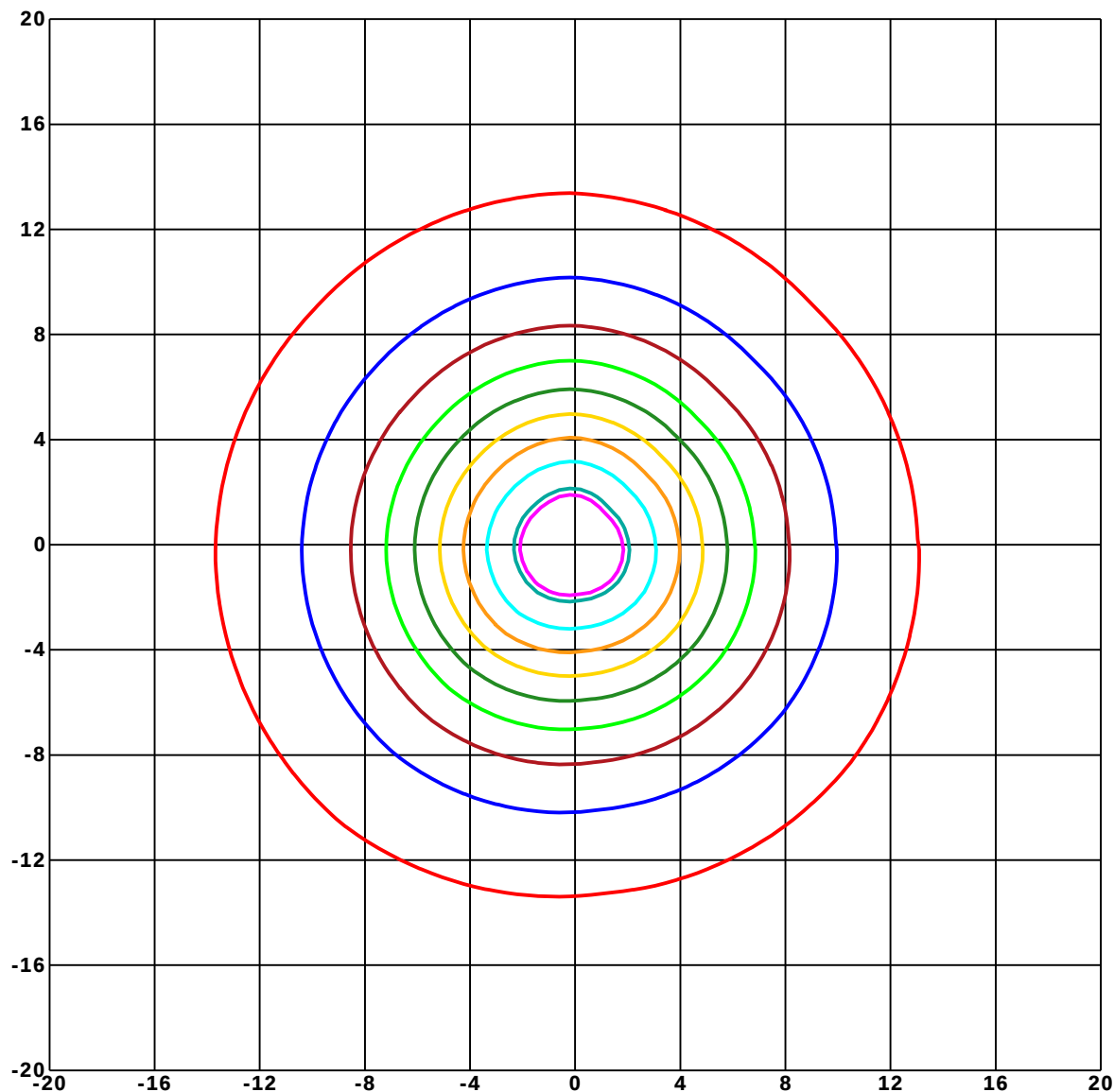
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:10.0(m)/32.81(ft)



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

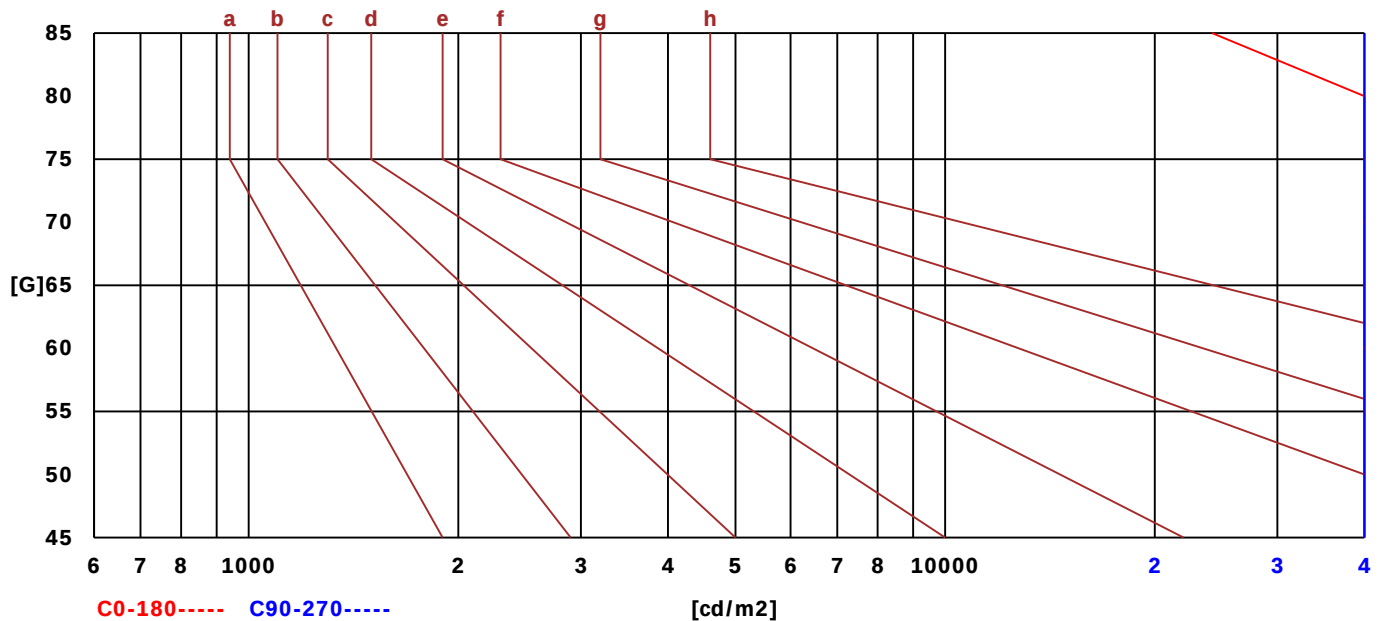
Humidity: 60

Test Distance: 6.66 m

Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	117635	111573	104809	98234	89638	80305	68310	52444	24174
C90	129259	124080	119212	113301	107234	100204	91767	80821	64967
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



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G Interval: 1.0 Deg

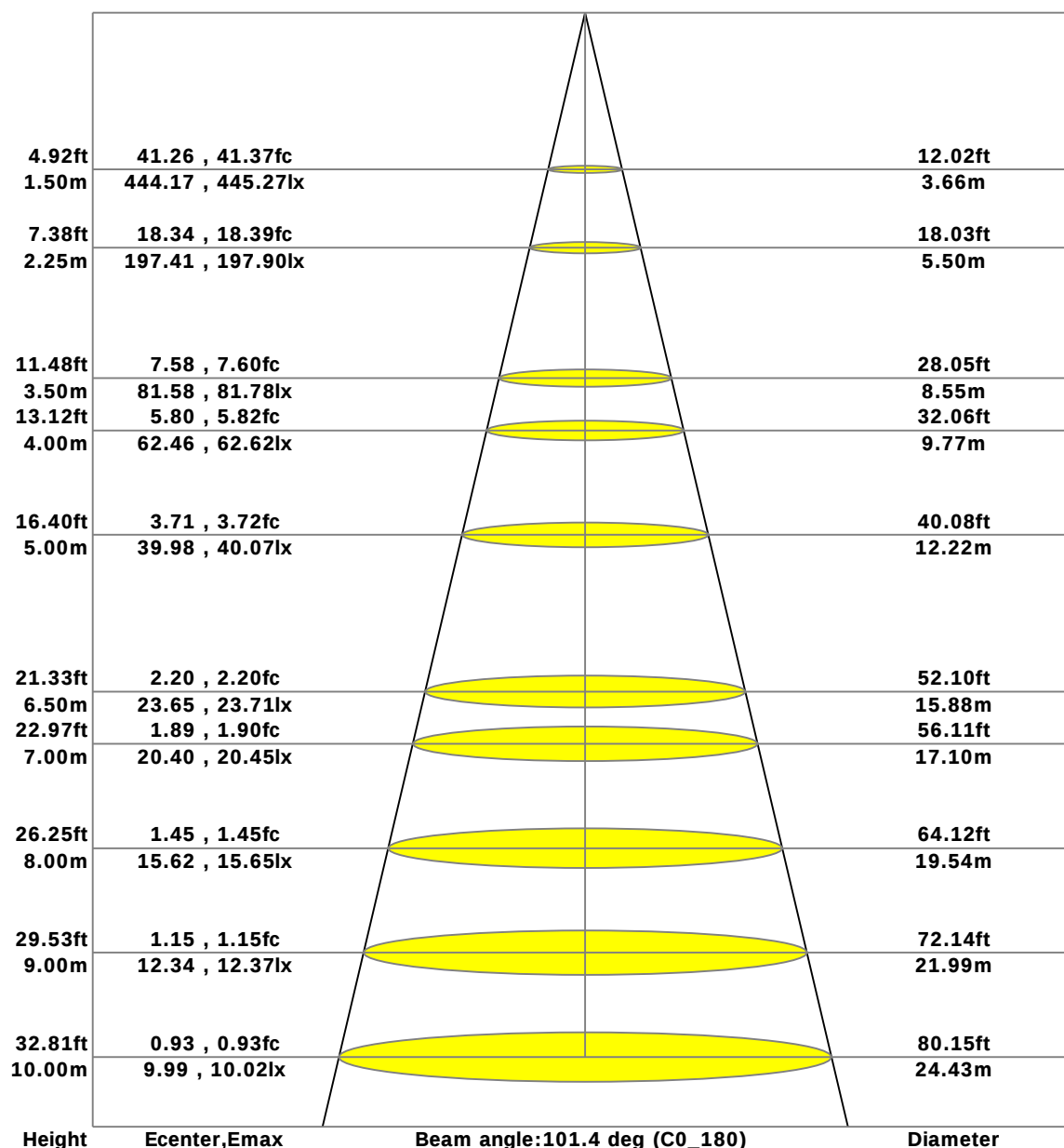
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

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	24.63	24.71	24.83	24.89	25.14	24.86	24.94	25.06	25.12	25.37
3H	24.74	24.81	24.95	25.01	25.25	24.95	25.02	25.15	25.21	25.46
4H	24.75	24.82	24.96	25.02	25.27	24.95	25.02	25.16	25.22	25.46
6H	24.73	24.80	24.95	25.00	25.25	24.93	25.00	25.14	25.20	25.45
8H	24.72	24.78	24.94	24.99	25.24	24.91	24.98	25.13	25.18	25.44
12H	24.70	24.77	24.92	24.97	25.23	24.89	24.96	25.12	25.17	25.42
4H 2H	26.76	26.84	26.98	27.03	27.28	27.24	27.32	27.46	27.51	27.76
3H	26.98	27.05	27.21	27.26	27.51	27.43	27.50	27.66	27.71	27.96
4H	27.03	27.09	27.26	27.30	27.56	27.46	27.53	27.69	27.74	28.00
6H	27.03	27.09	27.27	27.31	27.57	27.45	27.51	27.69	27.73	28.00
8H	27.02	27.07	27.26	27.30	27.56	27.44	27.49	27.68	27.72	27.99
12H	27.00	27.05	27.25	27.28	27.55	27.42	27.47	27.67	27.70	27.97
8H 4H	27.20	27.27	27.42	27.48	27.73	27.86	27.93	28.08	28.13	28.39
6H	27.61	27.66	27.87	27.90	28.17	28.23	28.28	28.49	28.52	28.80
8H	27.61	27.65	27.87	27.90	28.17	28.22	28.27	28.48	28.51	28.79
12H	27.59	27.63	27.86	27.88	28.17	28.20	28.24	28.47	28.50	28.78
12H 4H	27.64	27.69	27.89	27.92	28.19	28.35	28.40	28.60	28.63	28.90
6H	27.68	27.72	27.94	27.97	28.24	28.38	28.43	28.64	28.67	28.95

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ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

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Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

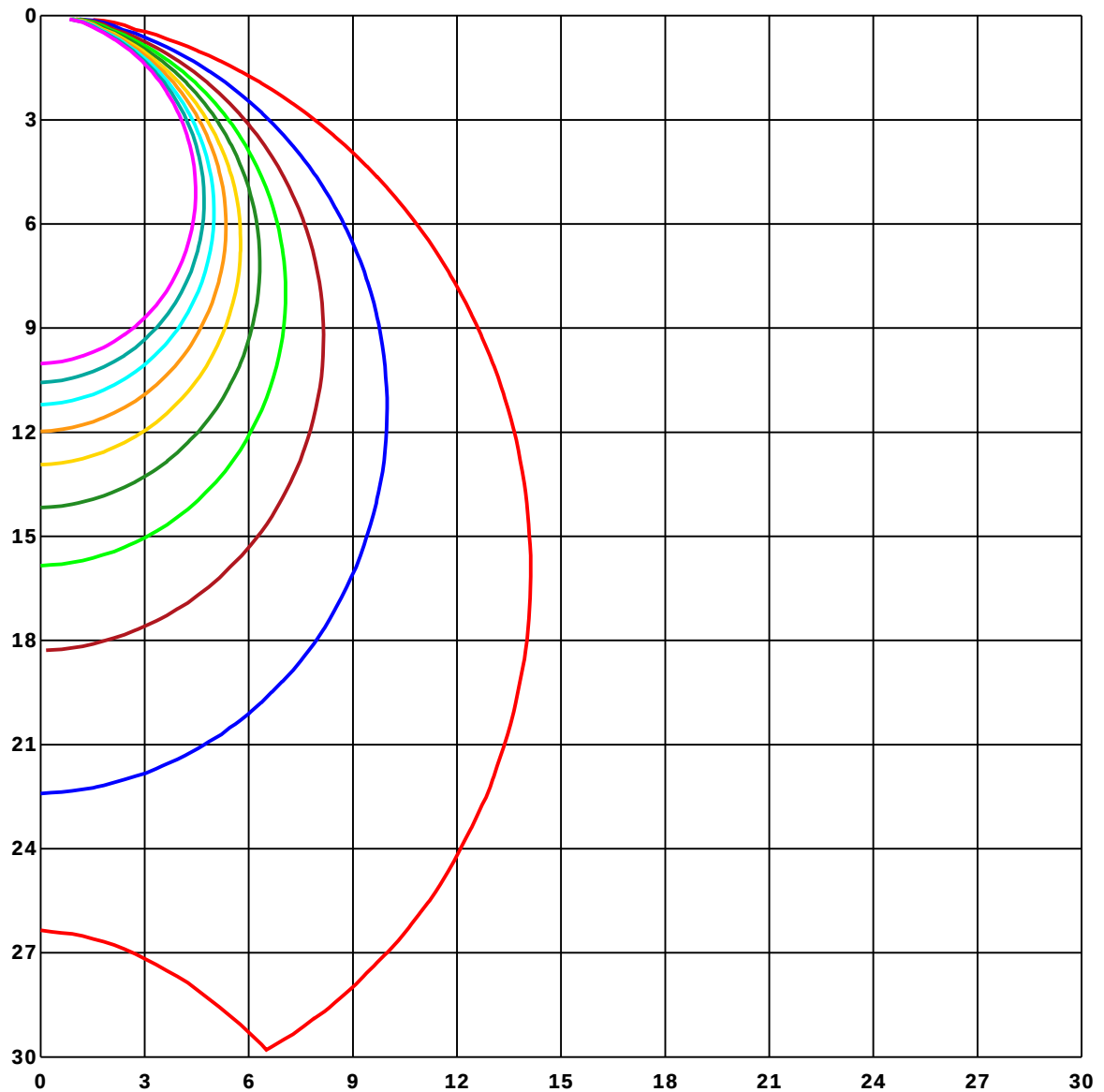
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

9.955
8.959
7.964
6.968
5.973

4.977
3.982
2.986
1.991
0.995

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	999.38	990.68	994.76	996.76	999.38	990.68	994.76	996.76	999.38	
G1	997.25	988.73	993.74	997.29	999.33	993.7	994.45	998.62	997.25	
G2	996.67	986.96	992.9	996.58	1001.86	992.46	993.57	995.74	996.67	
G3	993.7	982.52	993.25	996.76	1000.4	992.23	990.99	996.54	993.7	
G4	991.53	980.61	992.86	993.61	1001.24	995.07	992.06	993.39	991.53	
G5	987.44	975.78	990.59	992.01	997.78	993.7	989.88	991.79	987.44	
G6	982.88	972.23	986.42	989.97	995.25	993.34	986.29	989.53	982.88	
G7	978.44	966.55	983.23	984.61	995.21	991.17	983.59	985.54	978.44	
G8	974.94	961.85	977.42	982.34	992.68	990.46	976.89	980.39	974.94	
G9	968.19	955.33	975.87	977.55	989.4	985.05	977.77	978.88	968.19	
G10	962.56	948.94	969.75	971.3	987.75	983.32	969.57	973.38	962.56	
G11	957.11	942.25	967.31	966.86	981.5	979.64	965.04	967.31	957.11	
G12	950.32	937.9	958.13	964.11	978.09	974.89	957.24	961.5	950.32	
G13	942.51	928.1	955.86	955.06	972.98	970.32	951.87	955.42	942.51	
G14	937.1	920.56	945.84	951.16	964.65	965.22	946.02	948.06	937.1	
G15	926.94	910.27	939.63	943.58	959.28	959.77	939.54	943.04	926.94	
G16	920.73	902.73	933.69	936.12	955.55	954.75	930.98	932.84	920.73	
G17	910.84	892.7	924.42	927.7	945.08	948.15	924.68	927.65	910.84	
G18	902.1	883.92	914.52	918.65	940.07	940.56	914.83	918.47	902.1	
G19	890.75	873.76	908.09	911.29	933.64	934.66	906.98	909.64	890.75	
G20	881.88	863.38	899.09	900.15	921.62	926.28	897.85	898.64	881.88	
G21	873.05	851.58	889.73	891.33	914.66	916.3	887.78	891.73	873.05	
G22	861.74	841.38	880.55	880.95	903.61	910.18	877.93	879.22	861.74	
G23	850.74	830.87	868.44	874.16	895.58	899.71	867.2	871.23	850.74	
G24	840.76	820.0	859.21	860.68	886.89	892.92	856.77	859.43	840.76	
G25	828.39	806.78	849.01	851.67	874.16	880.24	848.97	848.66	828.39	
G26	815.7	796.14	837.48	837.61	865.6	870.88	834.51	836.37	815.7	
G27	801.82	781.28	826.12	827.76	854.91	859.83	823.59	826.34	801.82	
G28	790.28	770.15	814.68	816.28	841.96	849.68	810.29	813.22	790.28	
G29	776.93	756.8	802.48	803.59	832.2	838.45	799.51	802.44	776.93	
G30	766.73	745.17	788.64	790.99	818.23	827.1	786.78	789.97	766.73	
G31	750.9	730.23	777.42	780.08	806.25	814.72	775.6	777.51	750.9	
G32	737.1	717.45	764.42	765.71	794.72	804.48	760.7	762.87	737.1	
G33	724.37	702.15	751.83	753.82	783.19	791.26	750.05	752.14	724.37	
G34	710.8	688.84	739.19	739.36	768.95	779.19	735.9	738.34	710.8	
G35	696.47	675.31	724.81	727.96	755.91	765.22	721.93	724.59	696.47	
G36	682.14	663.47	712.17	711.91	741.54	753.96	708.18	709.91	682.14	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	669.59	647.64	697.62	699.84	728.67	739.23	694.56	698.47	669.59	
G38	655.13	633.58	684.01	684.19	716.74	726.63	680.41	682.81	655.13	
G39	640.27	619.56	672.16	671.41	701.4	714.3	666.4	670.48	640.27	
G40	625.86	606.25	657.08	657.48	687.6	702.19	652.29	655.35	625.86	
G41	610.6	590.46	641.87	643.64	673.81	685.52	638.19	641.83	610.6	
G42	597.07	575.87	627.63	627.68	659.79	672.39	624.44	626.43	597.07	
G43	581.28	560.88	612.91	614.59	645.2	657.13	609.36	612.6	581.28	
G44	566.2	549.17	598.98	599.64	632.87	644.09	594.76	597.2	566.2	
G45	553.03	532.36	584.16	584.96	615.7	629.36	578.66	583.14	553.03	
G46	537.9	518.21	570.46	568.99	601.68	615.26	565.49	568.9	537.9	
G47	522.29	503.08	555.11	555.86	586.56	599.2	550.32	554.4	522.29	
G48	508.71	488.84	541.54	540.83	572.19	585.72	536.84	538.3	508.71	
G49	493.46	472.96	525.13	526.37	557.77	570.46	521.27	525.3	493.46	
G50	478.38	458.99	510.89	510.44	542.69	556.8	506.01	509.29	478.38	
G51	463.12	442.85	498.16	496.43	528.32	541.76	490.71	495.27	463.12	
G52	448.97	430.07	482.54	480.73	513.68	527.83	476.51	479.97	448.97	
G53	433.31	414.81	467.46	466.98	499.31	511.69	460.46	465.65	433.31	
G54	417.61	400.4	452.47	451.23	483.65	497.98	446.44	450.34	417.61	
G55	402.97	384.74	437.39	437.61	469.02	481.92	431.09	435.84	402.97	
G56	388.33	371.12	423.2	421.82	455.35	467.55	417.08	420.36	388.33	
G57	373.25	355.78	407.98	407.81	439.03	451.63	400.84	407.01	373.25	
G58	359.1	341.58	394.5	391.66	423.6	438.54	386.96	390.55	359.1	
G59	344.78	327.12	378.75	377.55	408.91	422.13	372.1	377.24	344.78	
G60	330.85	314.35	363.89	362.56	393.79	408.56	358.13	361.45	330.85	
G61	315.19	298.56	350.59	348.59	379.46	392.72	343.0	347.35	315.19	
G62	301.17	284.14	335.95	332.8	364.2	379.15	328.14	332.62	301.17	
G63	286.18	270.08	321.0	318.87	350.1	364.07	313.55	318.52	286.18	
G64	272.52	257.26	308.05	304.5	336.53	349.7	299.18	303.92	272.52	
G65	258.19	242.45	292.53	290.04	320.25	333.95	284.45	289.38	258.19	
G66	243.96	228.65	277.75	275.0	306.41	320.34	270.66	275.14	243.96	
G67	230.38	214.99	263.43	261.52	292.04	304.86	256.02	261.17	230.38	
G68	216.37	201.95	249.77	246.57	278.07	290.84	241.92	246.44	216.37	
G69	202.71	188.33	236.33	233.44	263.12	276.38	227.72	232.96	202.71	
G70	189.89	175.78	222.31	219.34	249.15	261.96	214.68	218.81	189.89	
G71	176.49	162.47	208.74	205.99	234.38	247.15	200.31	205.23	176.49	
G72	163.54	150.23	194.23	192.28	221.25	233.89	187.4	191.31	163.54	
G73	150.94	137.41	181.02	178.89	207.36	219.43	173.7	177.95	150.94	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:46:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 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

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