

Report No.:

Test Time: 2025/8/1 15:18:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-EB-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.2070 A
Power(W): 43.18 W
Power Factor: 0.9480
Lamp Luminous Flux: 2872.79

Photometric Results

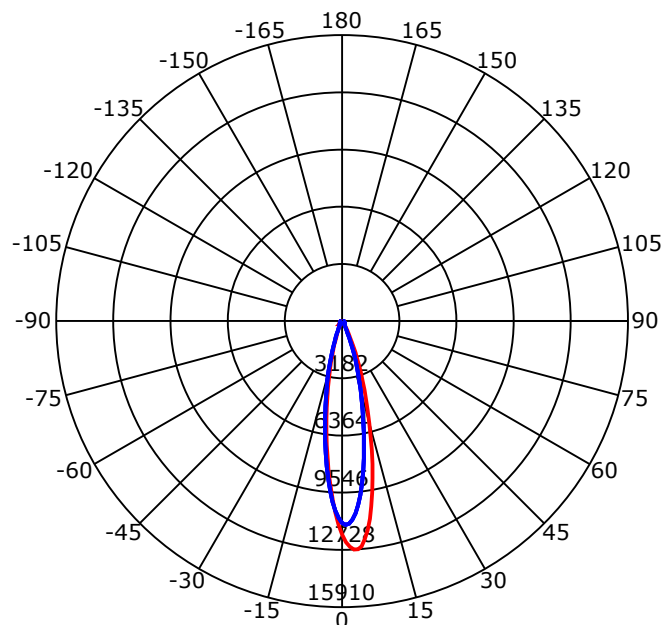
CIE Class: Direct
Luminaire Luminous Flux: 2872.788 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 66.53 lm/W
Beam Angle(50%) C0-180,C90-270: 22.1,21.6
Field Angle(10%) C0-180,C90-270: 43.8,43.0
S/MH C0-180,C90-270: 0.425,0.353

Max. Intensity: 12728.01 cd
Max.Intensity Angle: C=0 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11880.40 cd
Effective Luminous Flux: 2046.38 lm
ERP(ϕ use)(120deg): 2724.54 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.1 deg,21.6 deg

C0-180 — C90-270 —

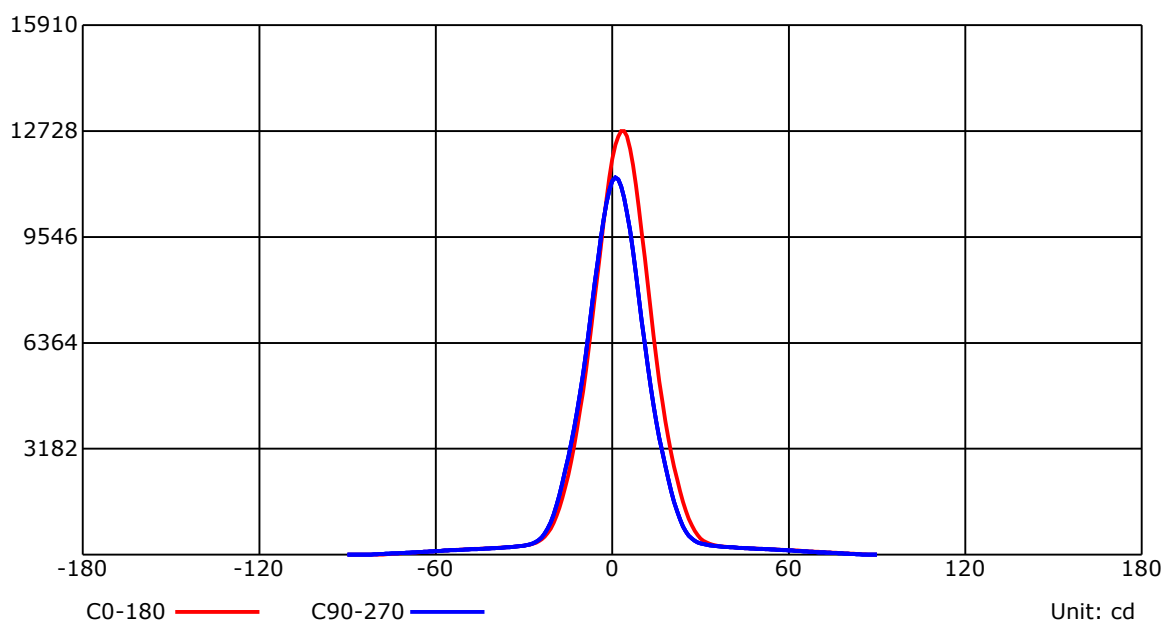
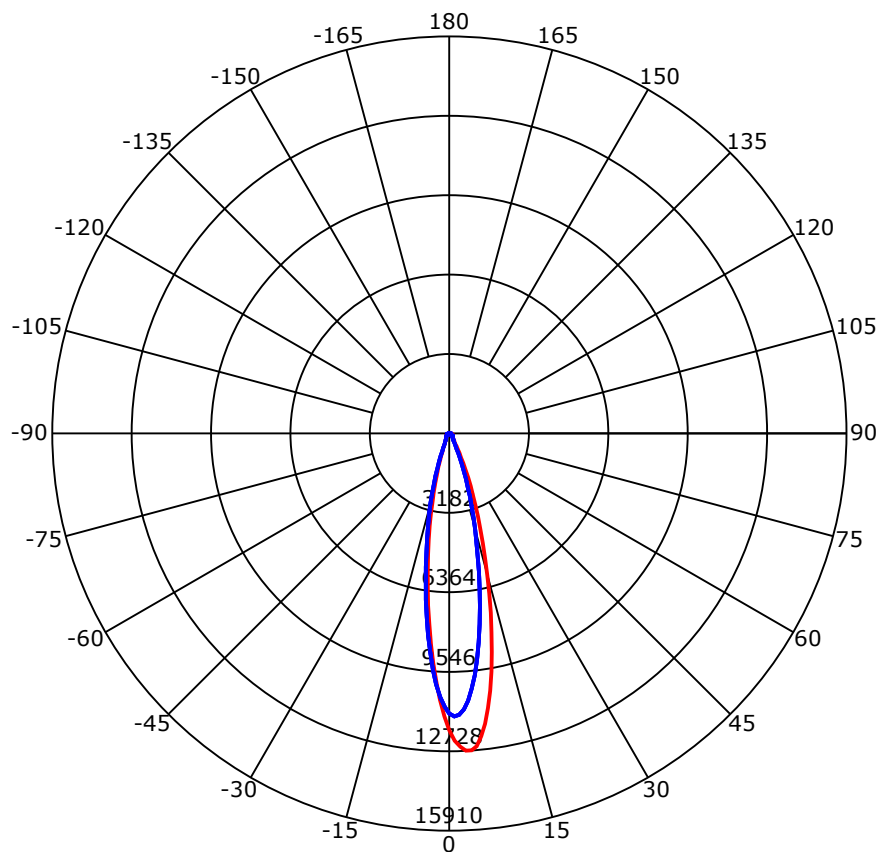
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 15:18:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



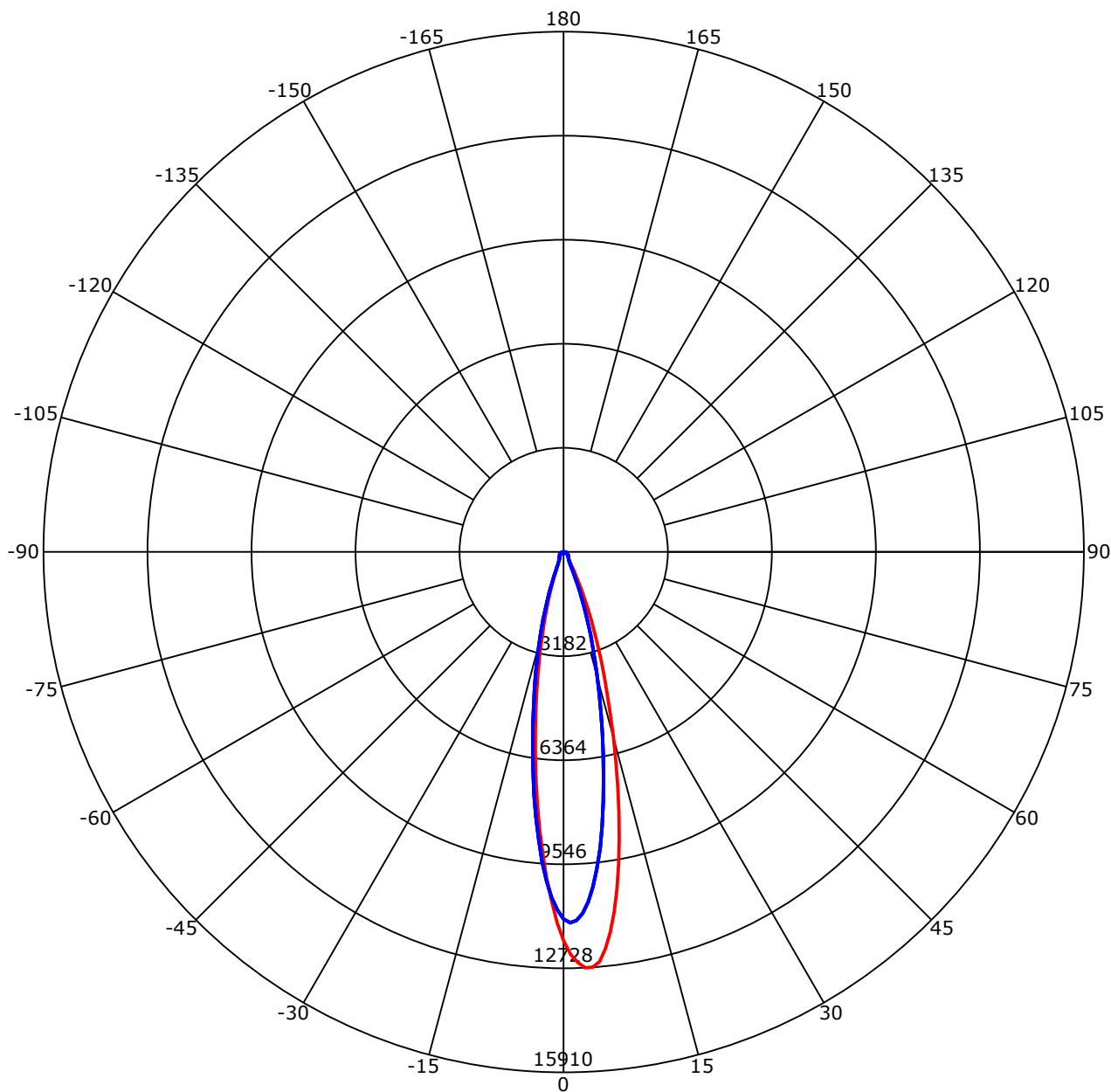
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Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 15:18:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

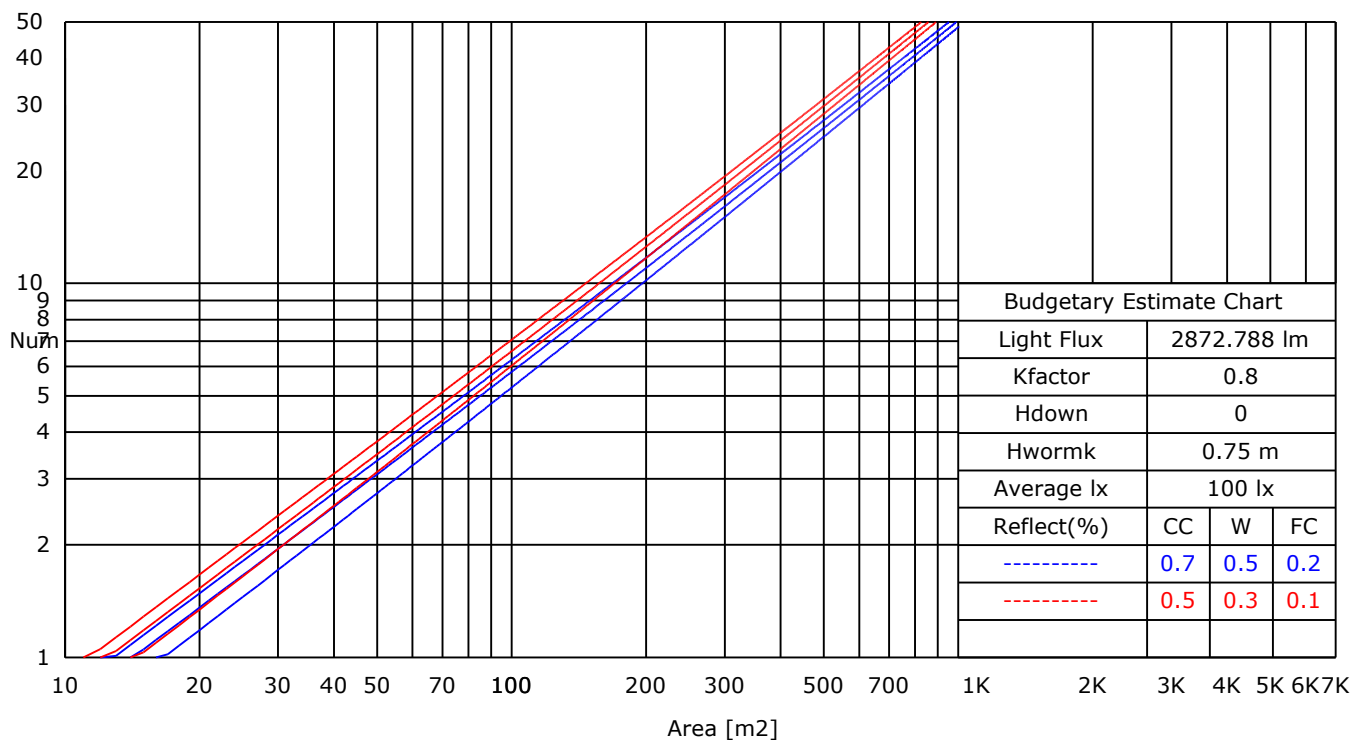
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UTILIZATION FACTORS TABLE

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	1.19	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	0.88	0.85	0.82	0.88	0.84	0.81	0.85	0.81	0.78	0.82	0.77	0.74	0.77	0.72	0.68	0.63
2	0.83	0.80	0.78	0.83	0.79	0.76	0.81	0.77	0.73	0.78	0.73	0.70	0.74	0.69	0.65	0.60
3	0.79	0.76	0.74	0.79	0.75	0.73	0.77	0.73	0.70	0.75	0.70	0.66	0.71	0.66	0.62	0.58
4	0.75	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.60	0.56
5	0.72	0.70	0.69	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.54
6	0.70	0.68	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.59	0.65	0.60	0.56	0.52
7	0.68	0.66	0.65	0.67	0.65	0.63	0.67	0.63	0.60	0.65	0.61	0.57	0.63	0.58	0.54	0.51
8	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.49
9	0.64	0.63	0.62	0.64	0.62	0.60	0.63	0.60	0.57	0.62	0.58	0.55	0.60	0.55	0.52	0.48
10	0.63	0.61	0.60	0.63	0.60	0.59	0.62	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.50	0.47

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



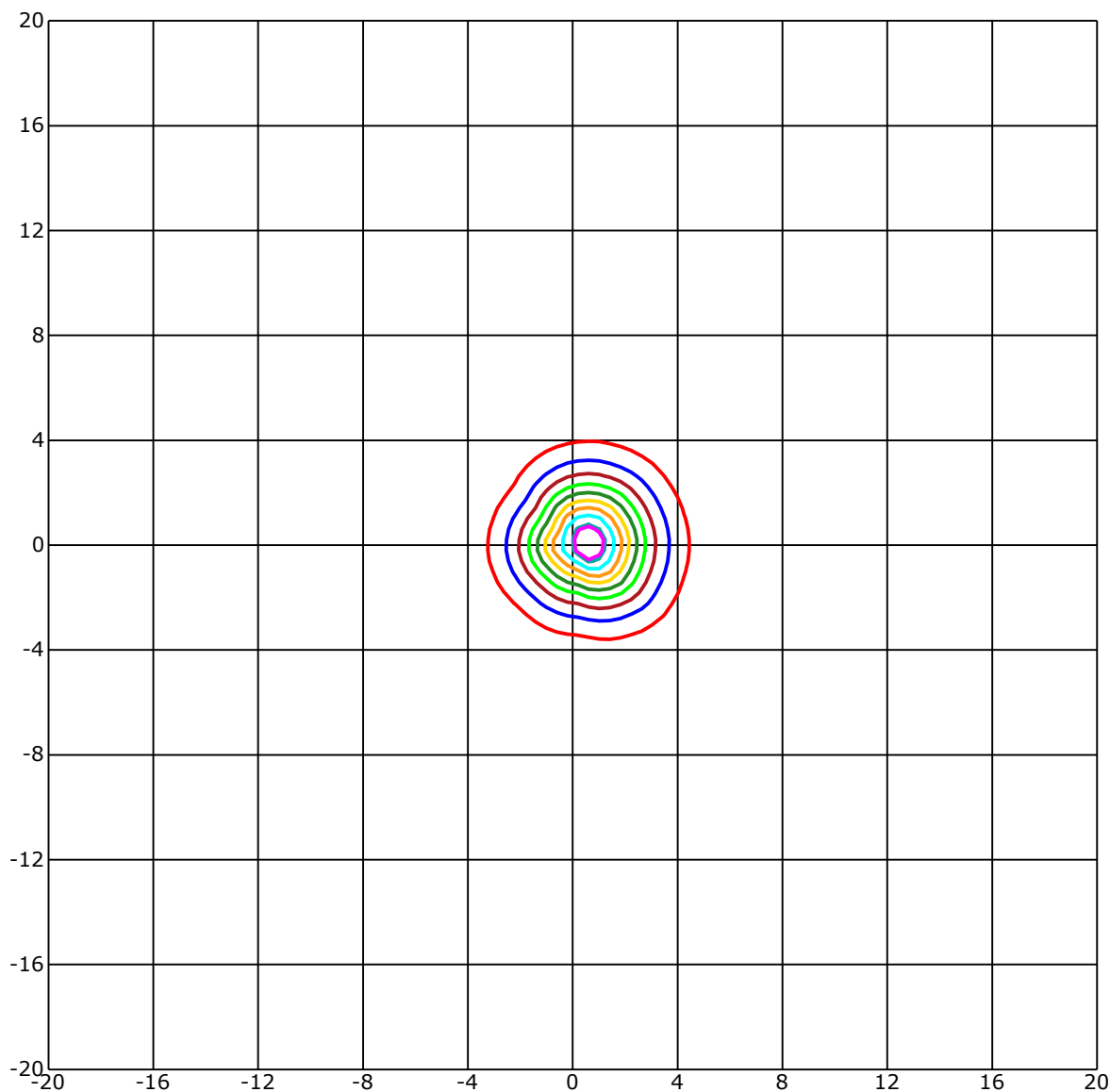
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

116.604(92%Emax)	63.372(50%Emax)
114.07(90%Emax)	50.698(40%Emax)
101.395(80%Emax)	38.023(30%Emax)
88.721(70%Emax)	25.349(20%Emax)
76.046(60%Emax)	12.674(10%Emax)

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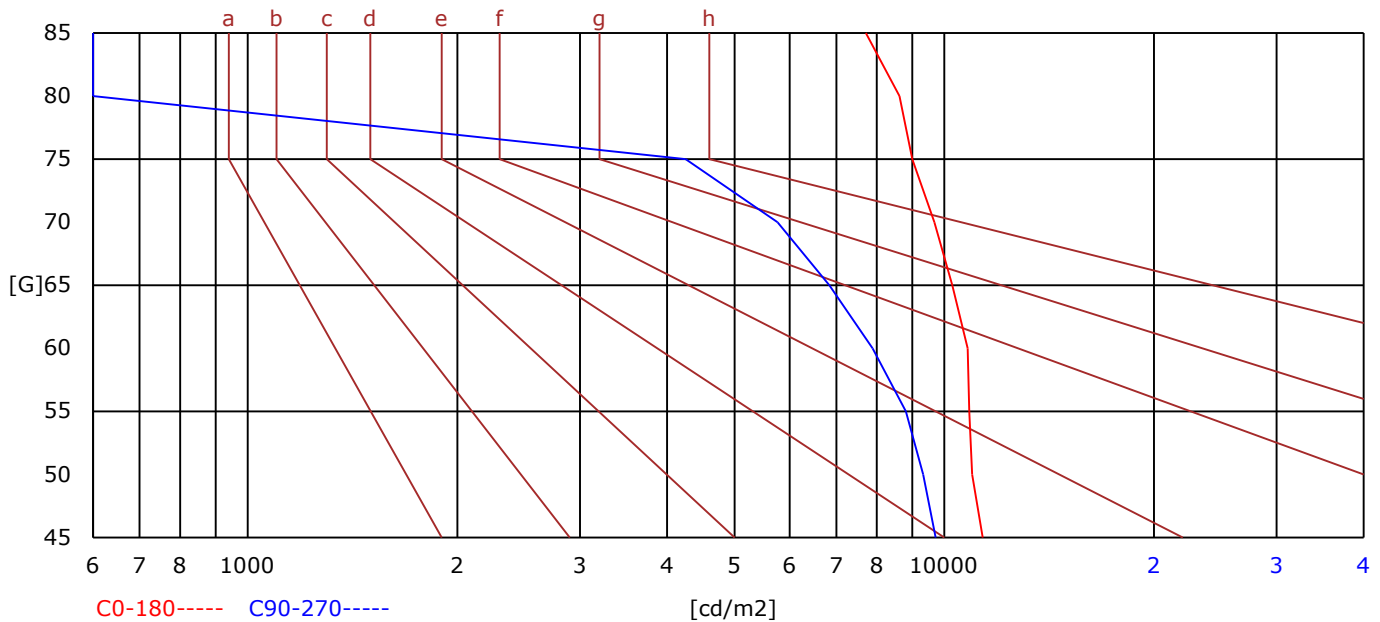
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11360	10967	10864	10799	10268	9676	8995	8628	7715
C90	9721	9327	8813	7892	6842	5766	4255	0	0
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



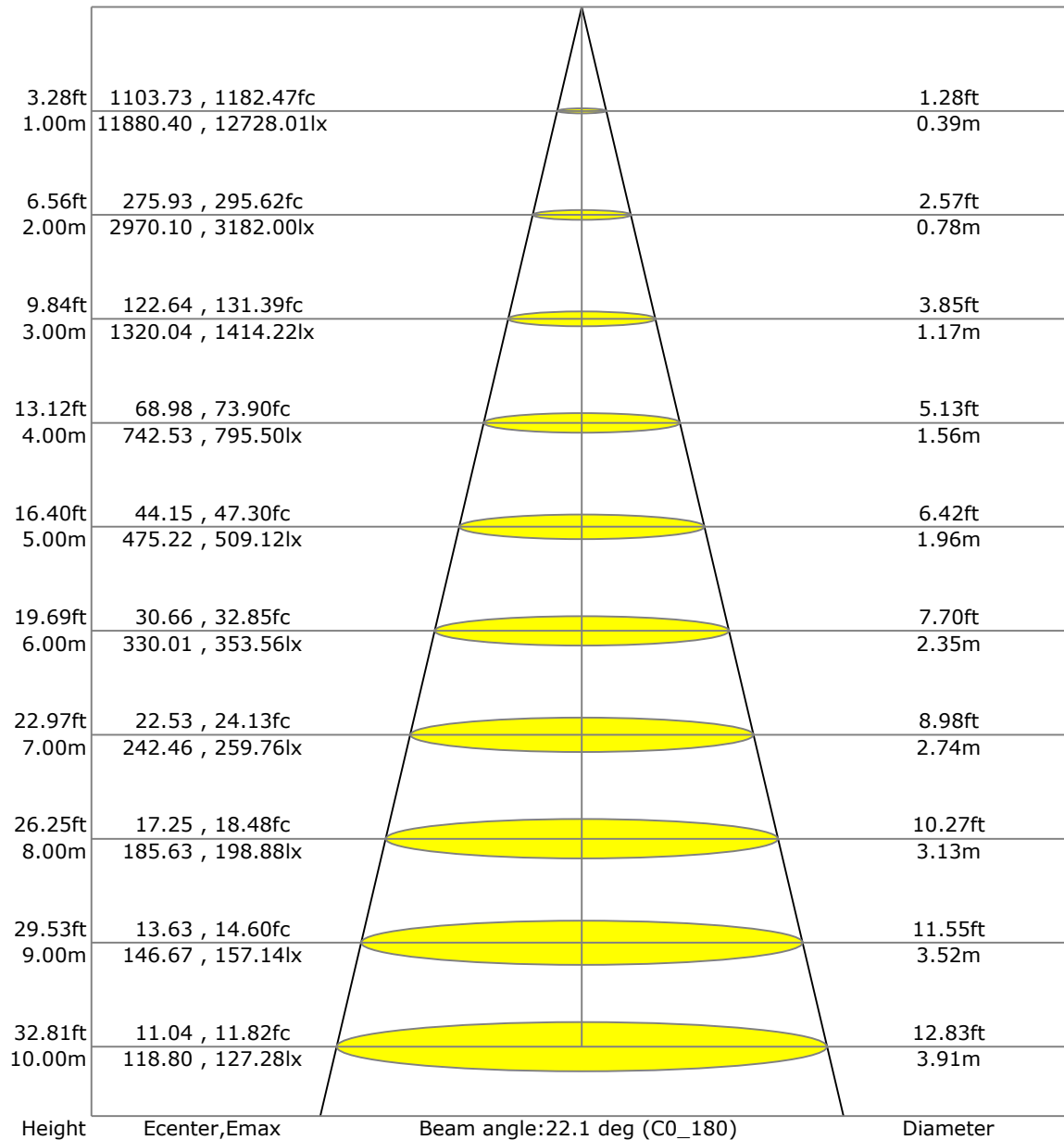
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 15:18:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/8/1 15:18:10

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

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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	10.00	10.07	10.20	10.25	10.50	9.95	10.01	10.15	10.20	10.44
3H	10.16	10.23	10.37	10.42	10.67	10.12	10.19	10.33	10.38	10.63
4H	10.18	10.24	10.39	10.44	10.69	10.15	10.21	10.36	10.41	10.66
6H	10.17	10.24	10.39	10.44	10.69	10.14	10.21	10.36	10.41	10.66
8H	10.16	10.23	10.38	10.43	10.68	10.13	10.20	10.35	10.40	10.65
12H	10.15	10.22	10.37	10.42	10.68	10.12	10.19	10.34	10.39	10.65
4H 2H	12.25	12.31	12.46	12.51	12.76	11.99	12.06	12.20	12.26	12.50
3H	12.58	12.65	12.81	12.86	13.11	12.35	12.42	12.57	12.62	12.88
4H	12.66	12.73	12.89	12.94	13.20	12.44	12.51	12.67	12.72	12.98
6H	12.68	12.74	12.92	12.96	13.23	12.47	12.53	12.71	12.75	13.02
8H	12.67	12.74	12.92	12.96	13.23	12.46	12.53	12.71	12.76	13.02
12H	12.66	12.72	12.91	12.95	13.22	12.45	12.52	12.70	12.75	13.02
8H 4H	12.79	12.86	13.01	13.06	13.32	12.41	12.47	12.63	12.68	12.93
6H	13.50	13.56	13.75	13.80	14.07	13.13	13.19	13.39	13.43	13.71
8H	13.51	13.57	13.77	13.82	14.10	13.15	13.21	13.42	13.46	13.74
12H	13.50	13.56	13.78	13.82	14.10	13.15	13.21	13.43	13.46	13.75
12H 4H	13.53	13.60	13.78	13.83	14.10	13.09	13.15	13.34	13.39	13.66
6H	13.65	13.71	13.91	13.96	14.24	13.21	13.27	13.48	13.52	13.80

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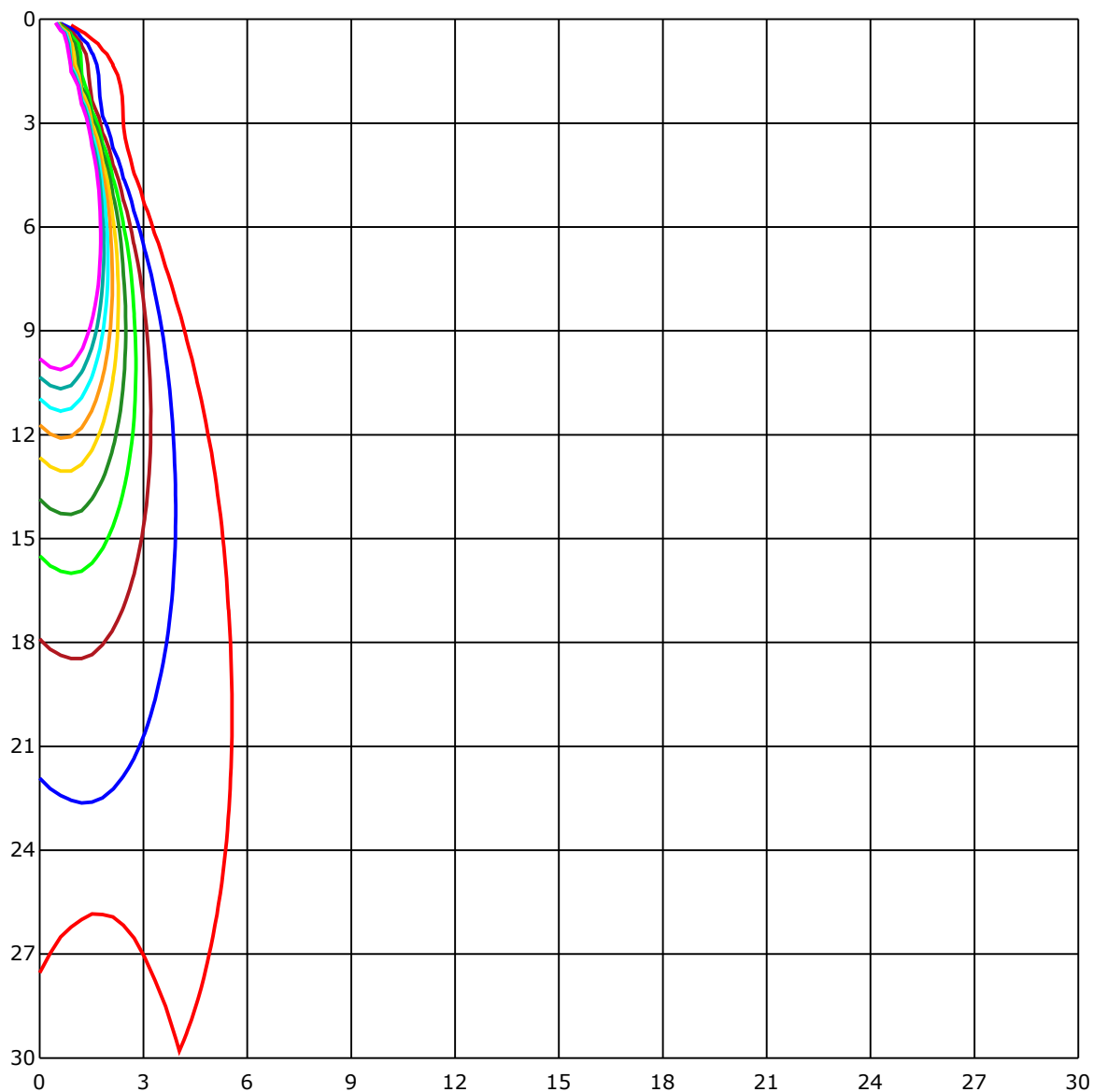
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

123.68	61.84
111.312	49.472
98.944	37.104
86.576	24.736
74.208	12.368

C Range: 0 - 360 Deg
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Test Date: 2025/8/1 15:18:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11880.4	11290.68	11224.51	11270.43	11880.4	11290.68	11224.51	11270.43	11880.4	
G1	12310.98	11705.96	11337.88	10757.31	11331.6	10739.99	10945.1	11673.35	12310.98	
G2	12560.7	11983.76	11275.48	10134.78	10668.58	10130.72	10564.93	11901.88	12560.7	
G3	12726.64	12086.56	11067.77	9466.0	9973.41	9434.38	10066.58	11991.74	12726.64	
G4	12728.01	12007.83	10729.46	8739.92	9211.28	8724.82	9482.9	11923.68	12728.01	
G5	12574.06	11837.74	10274.34	8013.14	8476.37	7960.37	8821.57	11754.29	12574.06	
G6	12191.34	11502.64	9735.97	7258.98	7696.4	7217.87	8136.75	11396.78	12191.34	
G7	11713.84	11052.66	9124.72	6535.83	6950.59	6487.21	7434.79	10941.89	11713.84	
G8	11114.07	10455.91	8449.24	5837.36	6222.16	5809.42	6735.19	10368.83	11114.07	
G9	10430.7	9807.37	7736.56	5181.98	5537.52	5159.85	6056.02	9729.12	10430.7	
G10	9686.03	9119.53	7027.67	4571.92	4901.87	4568.47	5427.93	9025.04	9686.03	
G11	8917.15	8378.54	6330.9	4023.77	4318.71	4019.67	4825.74	8308.07	8917.15	
G12	8138.4	7626.08	5681.61	3508.52	3768.67	3514.75	4293.88	7567.55	8138.4	
G13	7370.22	6897.26	5064.98	3051.14	3267.82	3054.54	3806.9	6864.32	7370.22	
G14	6596.0	6187.51	4498.71	2627.36	2807.98	2633.63	3355.32	6187.37	6596.0	
G15	5890.08	5518.03	3978.98	2244.83	2394.68	2234.58	2937.06	5557.53	5890.08	
G16	5206.48	4897.76	3504.65	1892.97	2026.73	1880.66	2534.14	4951.66	5206.48	
G17	4590.09	4329.66	3069.88	1583.93	1699.51	1552.45	2143.21	4399.46	4590.09	
G18	4017.97	3814.78	2665.21	1302.21	1410.29	1271.86	1794.85	3888.08	4017.97	
G19	3522.73	3329.69	2284.24	1059.57	1166.24	1034.13	1482.17	3411.16	3522.73	
G20	3064.87	2891.94	1920.06	859.69	955.36	844.54	1207.77	2966.42	3064.87	
G21	2646.24	2482.75	1593.7	697.81	785.31	689.83	972.96	2552.36	2646.24	
G22	2263.38	2105.12	1304.38	571.7	649.81	570.37	781.77	2166.29	2263.38	
G23	1907.18	1761.67	1056.36	479.52	544.23	483.44	633.62	1823.17	1907.18	
G24	1591.15	1451.12	852.42	407.88	460.03	415.47	526.39	1511.25	1591.15	
G25	1318.3	1182.9	692.57	360.44	401.88	367.48	442.71	1249.35	1318.3	
G26	1078.5	955.88	572.5	326.08	359.03	334.77	385.22	1025.68	1078.5	
G27	879.23	768.18	483.96	301.64	328.49	309.33	344.02	841.0	879.23	
G28	716.45	624.98	416.56	283.09	303.81	292.24	314.71	692.61	716.45	
G29	585.34	518.41	371.68	268.5	289.08	277.99	293.23	578.92	585.34	
G30	487.97	436.1	341.47	256.94	272.37	264.49	276.34	491.65	487.97	
G31	416.61	379.18	318.06	247.83	262.84	254.3	262.75	424.21	416.61	
G32	364.36	339.35	300.22	238.53	252.98	245.33	253.02	376.25	364.36	
G33	327.78	310.7	285.35	232.07	243.44	236.27	242.12	340.62	327.78	
G34	299.51	291.96	272.85	224.85	235.75	229.47	234.47	313.81	299.51	
G35	280.77	276.43	263.08	220.41	229.85	222.49	226.12	294.74	280.77	
G36	264.77	262.13	254.01	213.47	223.76	216.45	220.32	279.31	264.77	

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-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	253.73	252.65	245.71	209.37	218.38	210.83	214.13	266.57	253.73	
G38	244.53	243.96	237.68	205.12	212.95	206.2	207.76	256.0	244.53	
G39	233.96	234.95	230.98	199.64	208.7	201.44	203.37	246.93	233.96	
G40	226.64	228.15	225.88	194.45	202.14	197.47	197.47	238.01	226.64	
G41	221.92	221.31	219.32	189.78	198.98	190.91	191.29	230.51	221.92	
G42	214.7	215.64	214.18	186.38	193.22	187.65	188.36	223.62	214.7	
G43	208.56	209.7	208.89	180.53	189.17	182.32	182.56	218.43	208.56	
G44	204.13	204.41	202.38	176.19	184.59	177.32	178.55	211.39	204.13	
G45	199.41	202.43	199.17	173.21	180.01	173.21	174.16	206.58	199.41	
G46	194.88	195.63	192.89	167.88	175.24	169.15	170.29	202.71	194.88	
G47	191.71	189.87	188.5	163.44	172.41	164.86	165.24	197.14	191.71	
G48	187.28	186.47	185.01	159.67	166.46	160.23	161.84	191.38	187.28	
G49	182.32	181.9	178.97	154.95	164.58	155.99	157.54	188.13	182.32	
G50	177.65	177.65	175.71	151.08	157.68	152.3	154.05	182.65	177.65	
G51	174.16	172.98	171.09	146.4	153.34	147.82	149.43	179.77	174.16	
G52	169.63	169.3	166.79	142.2	148.95	143.76	145.27	174.06	169.63	
G53	166.51	164.86	161.74	137.91	144.75	138.85	141.97	171.23	166.51	
G54	162.07	161.32	158.35	133.33	139.8	134.89	138.52	165.47	162.07	
G55	157.54	157.02	153.48	127.38	133.71	129.46	133.66	162.12	157.54	
G56	154.05	152.78	149.05	121.3	127.15	123.37	129.23	158.16	154.05	
G57	149.94	148.91	145.32	115.87	123.51	117.9	125.02	153.06	149.94	
G58	145.74	144.61	140.46	110.54	117.28	112.66	119.13	148.86	145.74	
G59	141.83	142.06	135.55	104.26	111.62	106.57	112.94	145.56	141.83	
G60	137.96	136.07	130.64	99.44	105.25	101.57	107.8	140.22	137.96	
G61	132.95	131.16	123.89	93.73	101.24	95.62	101.95	136.21	132.95	
G62	127.53	127.2	117.19	88.59	94.21	91.09	97.23	130.5	127.53	
G63	123.7	121.11	111.48	83.3	89.01	85.99	91.42	126.77	123.7	
G64	117.47	115.4	105.77	77.45	84.81	83.16	86.8	119.5	117.47	
G65	111.38	109.36	99.96	72.87	79.48	76.13	82.08	114.17	111.38	
G66	105.49	104.12	96.71	68.11	73.86	71.17	77.45	107.84	105.49	
G67	102.51	98.92	91.14	63.39	69.29	66.83	71.93	103.13	102.51	
G68	95.29	92.36	85.76	58.9	63.72	62.35	67.77	97.46	95.29	
G69	91.0	87.27	79.86	54.75	58.57	58.38	63.01	92.98	91.0	
G70	84.81	83.4	74.62	49.7	53.29	53.76	59.28	86.84	84.81	
G71	80.14	77.21	69.71	45.73	48.24	49.18	55.41	82.22	80.14	
G72	75.42	72.45	65.32	41.86	43.19	44.65	50.93	77.21	75.42	
G73	70.04	68.11	60.41	36.91	38.32	40.16	45.59	73.16	70.04	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 15:18:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 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: 2025/8/1 15:18:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: