

Report No.:

Test Time: 2025/8/1 16:21:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-EB-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

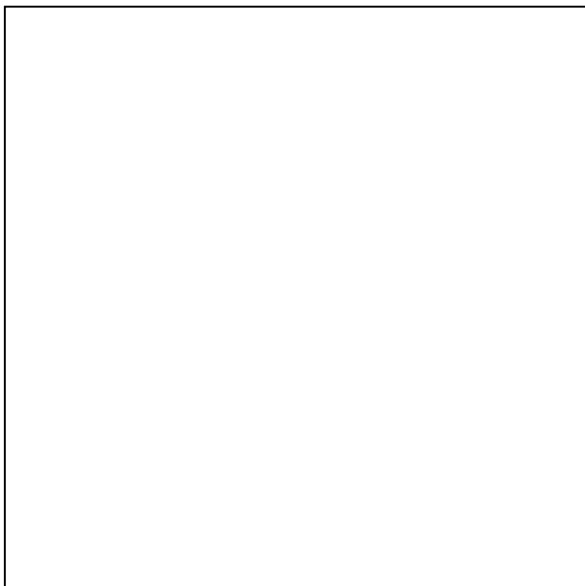
Voltage(V): 219.80 V
Current(A): 0.1370 A
Power(W): 28.66 W
Power Factor: 0.9470
Lamp Luminous Flux: 2009.28

Photometric Results

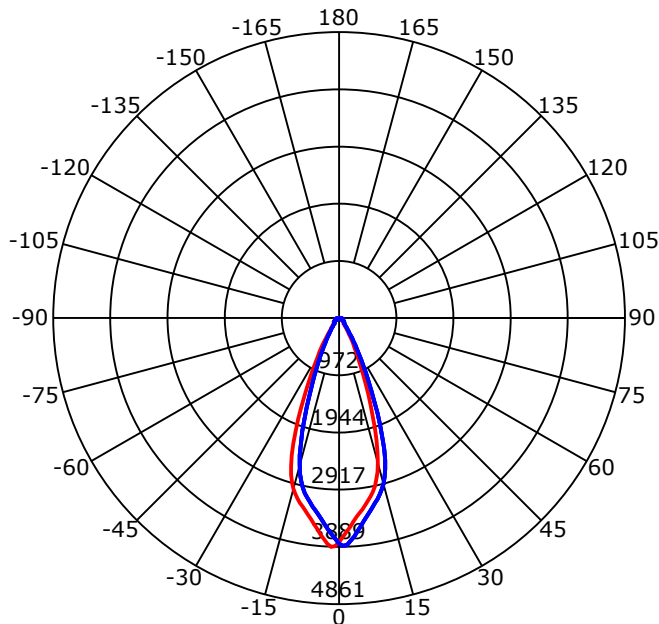
CIE Class: Direct
Luminaire Luminous Flux: 2009.284 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 70.11 lm/W
Beam Angle(50%) C0-180,C90-270: 39.7,39.4
Field Angle(10%) C0-180,C90-270: 64.2,63.9
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 3888.74 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3805.91 cd
Effective Luminous Flux: 1604.37 lm
ERP(ϕ use)(120deg): 1903.57 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.7 deg,39.4 deg

C0-180 — C90-270 —

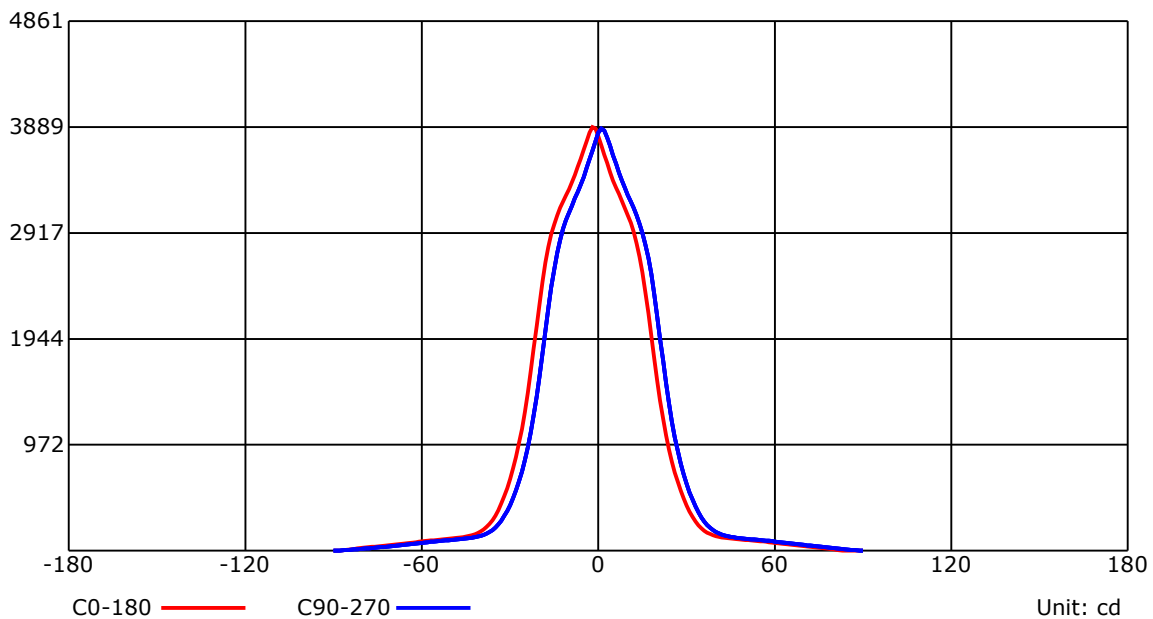
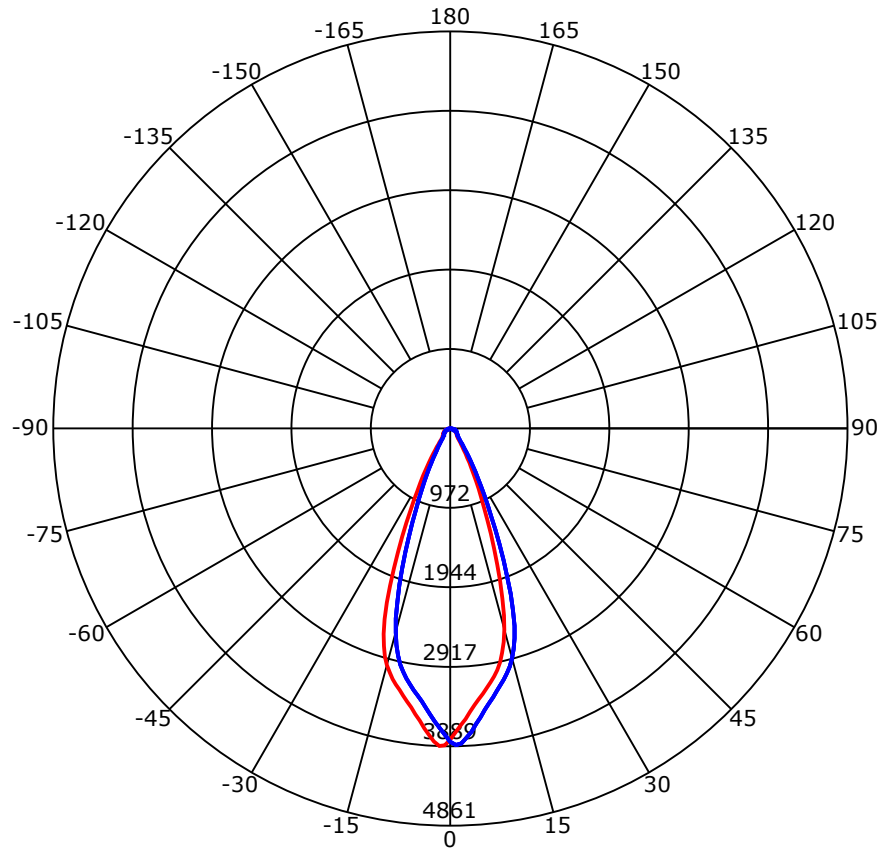
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

Luminous Intensity Distribution Curve



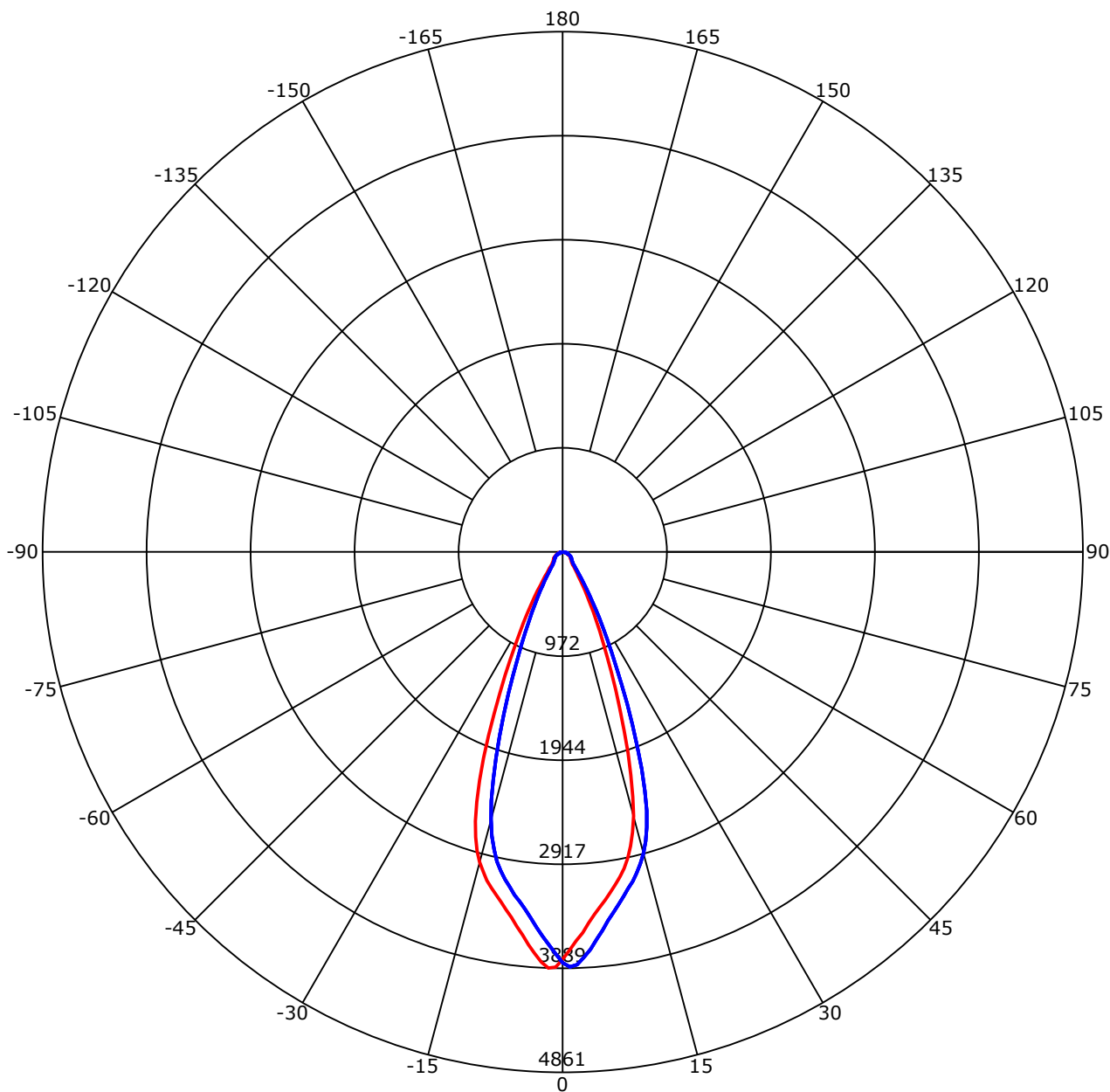
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

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 16:21:01

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

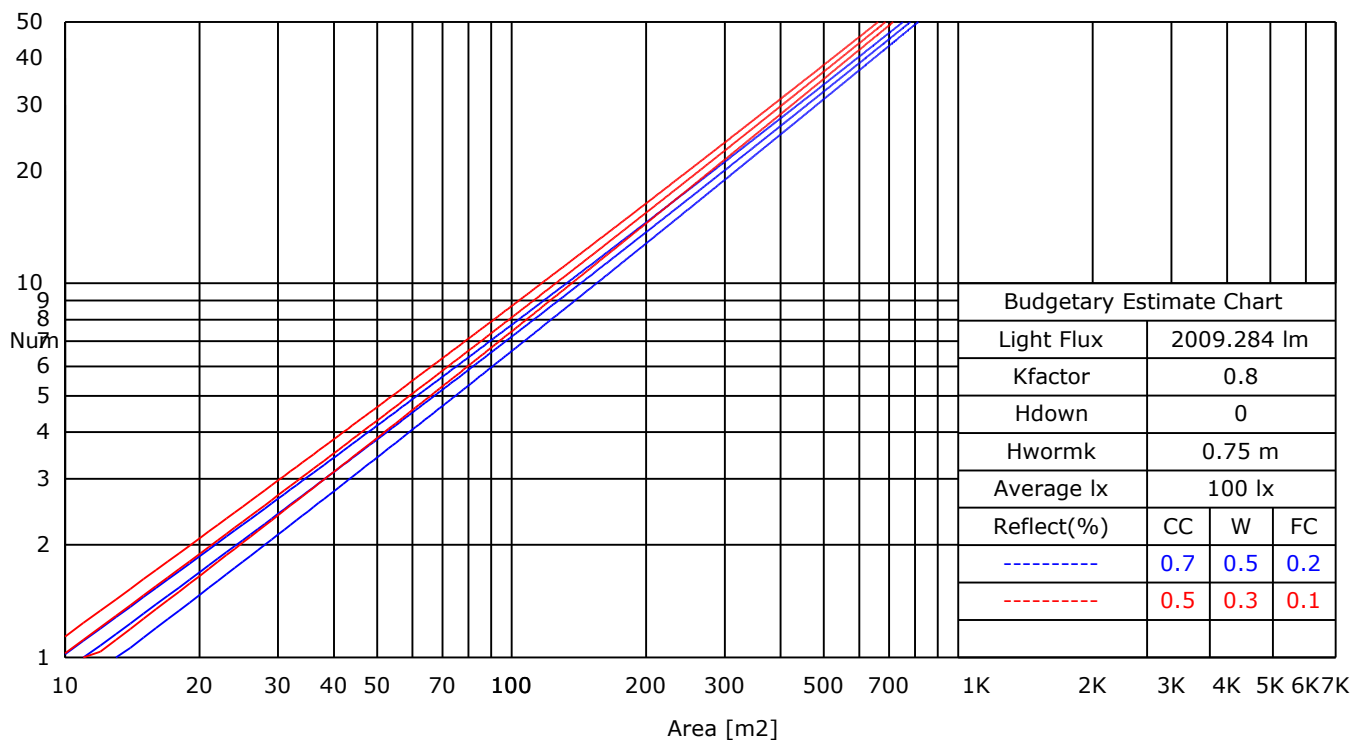
Report No.:

Test Time: 2025/8/1 16:21:01

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	1.01	0.98	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
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	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.67	0.64
6	0.81	0.79	0.78	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
7	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
9	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.71	0.71	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.59	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



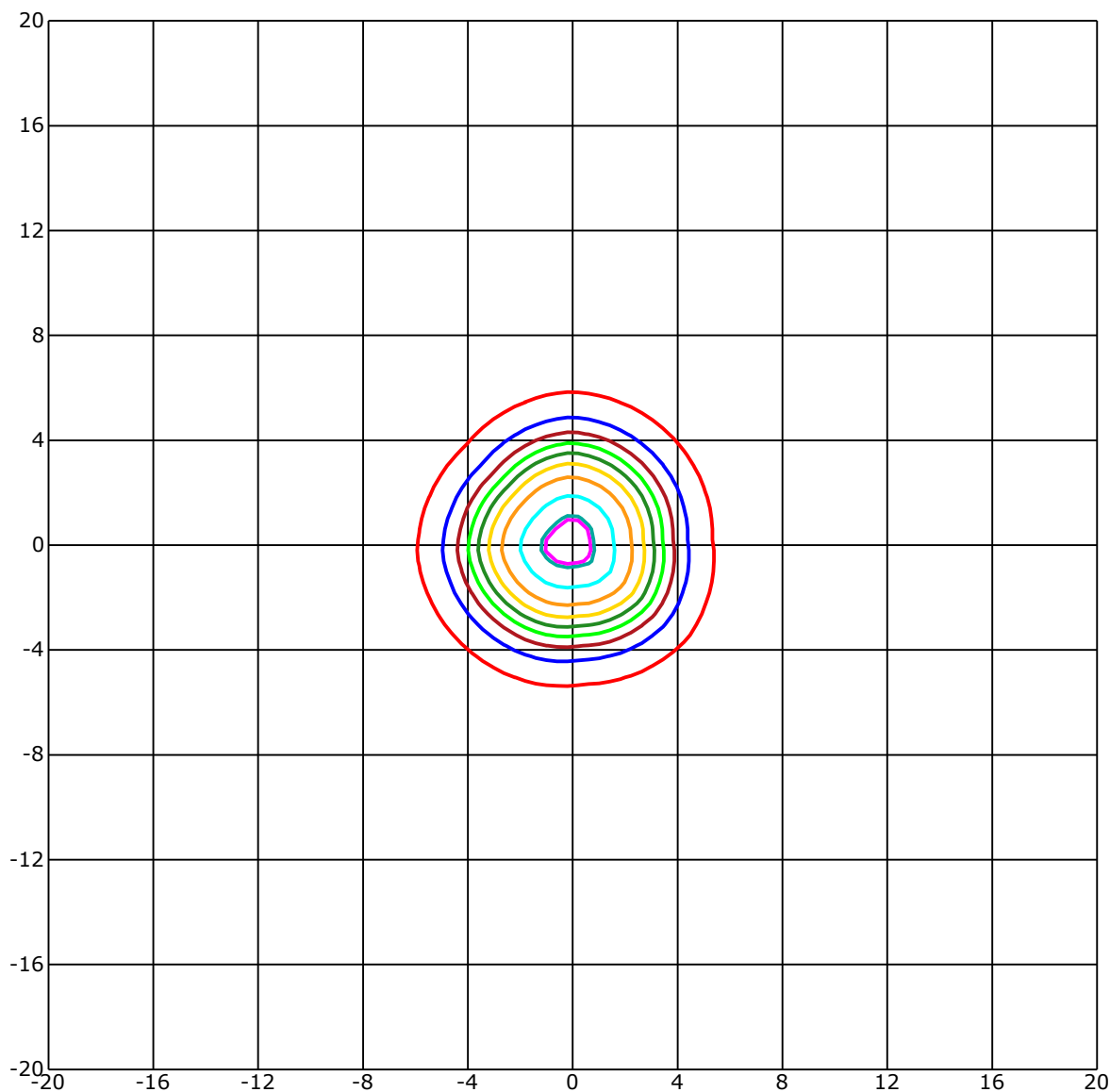
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

ISOLX DIAGRAM



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

35.711(92%Emax)	19.408(50%Emax)
34.935(90%Emax)	15.527(40%Emax)
31.053(80%Emax)	11.645(30%Emax)
27.171(70%Emax)	7.763(20%Emax)
23.29(60%Emax)	3.882(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

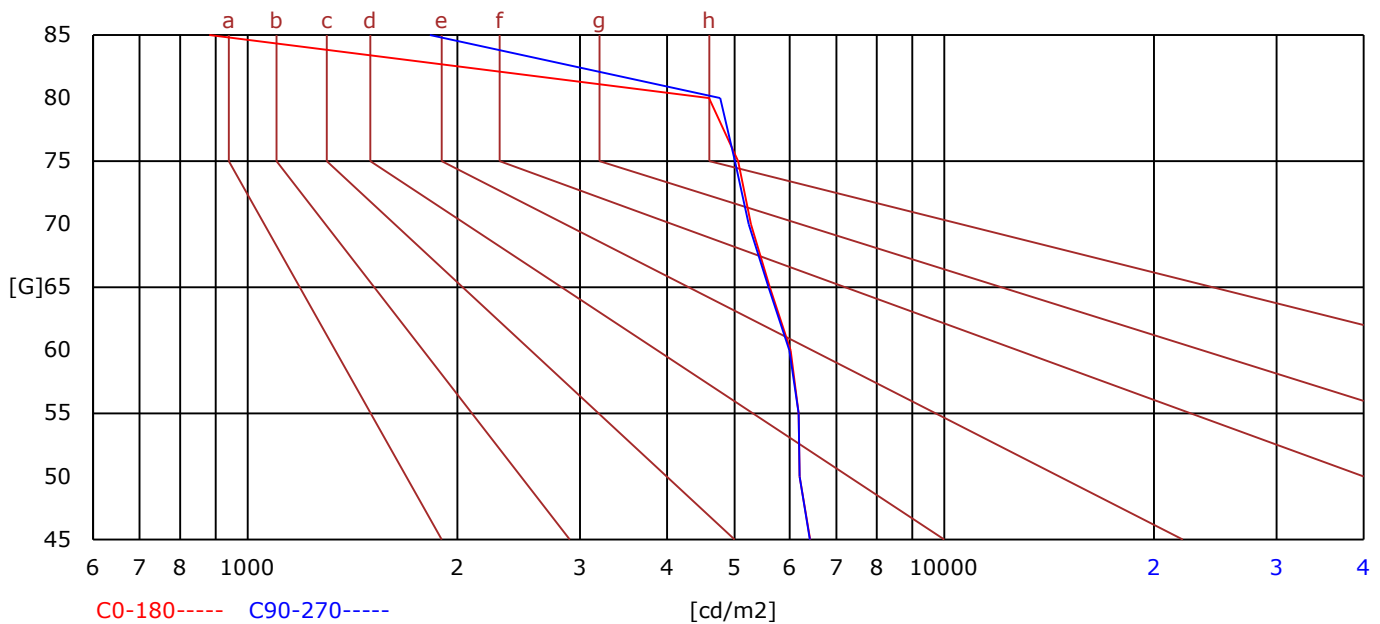
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/8/1 16:21:01

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6423	6200	6178	6019	5619	5279	5058	4595	881
C90	6412	6197	6181	5990	5593	5241	5008	4767	1827
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



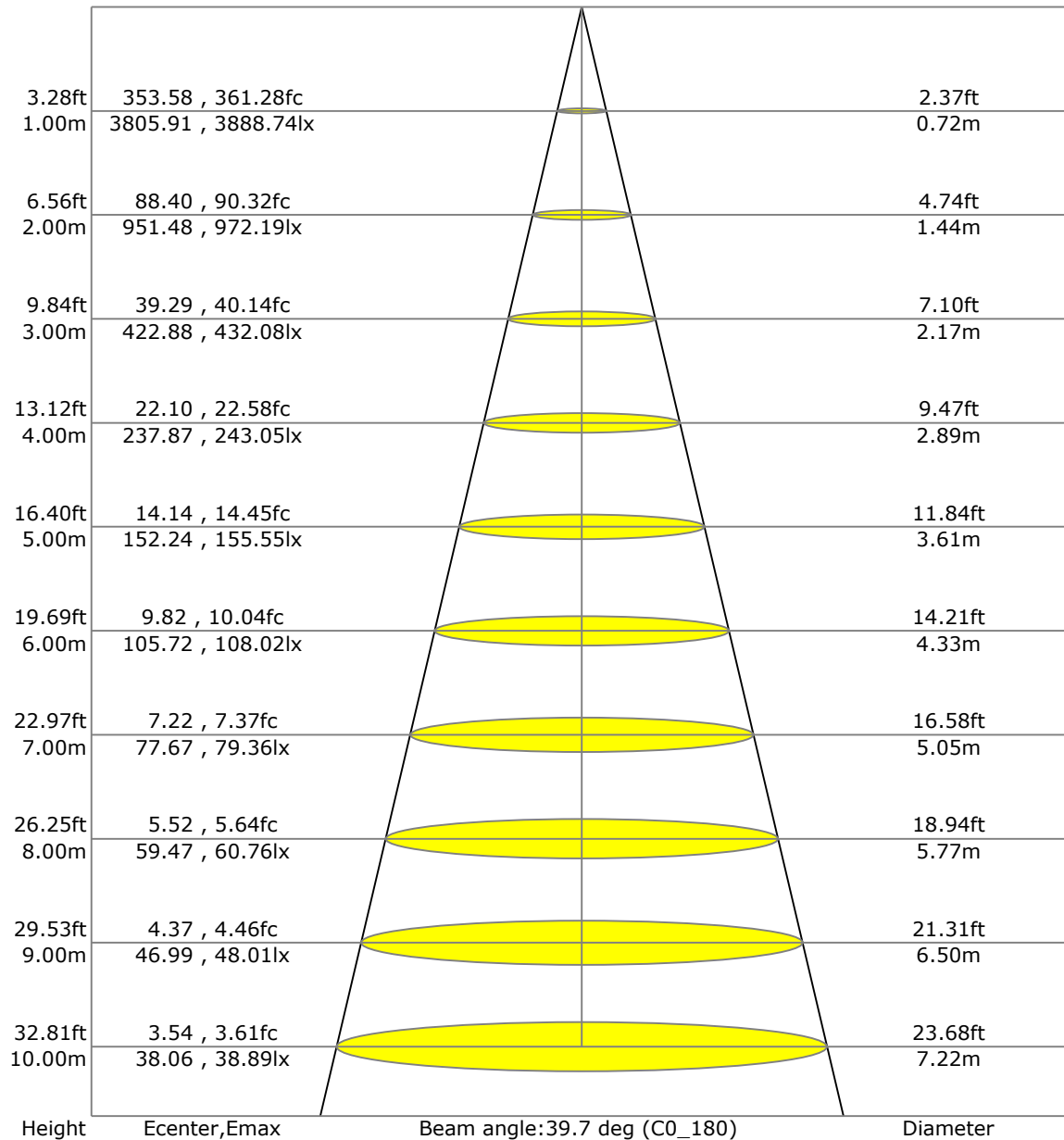
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

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 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

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	8.70	8.75	8.90	8.94	9.18	8.91	8.96	9.11	9.15	9.39
3H	8.86	8.91	9.06	9.10	9.35	9.03	9.09	9.24	9.28	9.52
4H	8.88	8.94	9.09	9.13	9.38	9.04	9.10	9.25	9.29	9.54
6H	8.88	8.93	9.09	9.13	9.38	9.03	9.09	9.25	9.29	9.54
8H	8.87	8.92	9.08	9.12	9.38	9.02	9.08	9.24	9.28	9.53
12H	8.86	8.91	9.08	9.12	9.37	9.01	9.07	9.24	9.27	9.53
4H 2H	10.49	10.55	10.70	10.74	10.99	11.00	11.05	11.21	11.25	11.50
3H	10.82	10.88	11.04	11.08	11.34	11.29	11.35	11.51	11.55	11.81
4H	10.91	10.96	11.14	11.18	11.43	11.36	11.41	11.58	11.62	11.88
6H	10.94	10.99	11.18	11.21	11.47	11.36	11.42	11.60	11.64	11.90
8H	10.93	10.98	11.18	11.21	11.48	11.35	11.40	11.60	11.63	11.90
12H	10.92	10.97	11.17	11.20	11.47	11.34	11.39	11.59	11.62	11.89
8H 4H	10.76	10.81	10.97	11.01	11.27	11.57	11.62	11.79	11.83	12.08
6H	11.36	11.40	11.61	11.64	11.92	12.15	12.19	12.40	12.43	12.71
8H	11.36	11.40	11.62	11.65	11.93	12.14	12.18	12.40	12.43	12.71
12H	11.35	11.39	11.62	11.64	11.93	12.12	12.16	12.39	12.42	12.70
12H 4H	11.28	11.33	11.53	11.56	11.83	12.20	12.25	12.45	12.49	12.75
6H	11.34	11.39	11.61	11.64	11.91	12.26	12.30	12.52	12.55	12.83

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:21:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

Test Time: 2025/8/1 16:21:01

ZONAL LUMINOUS FLUX TABLE

[illegible]

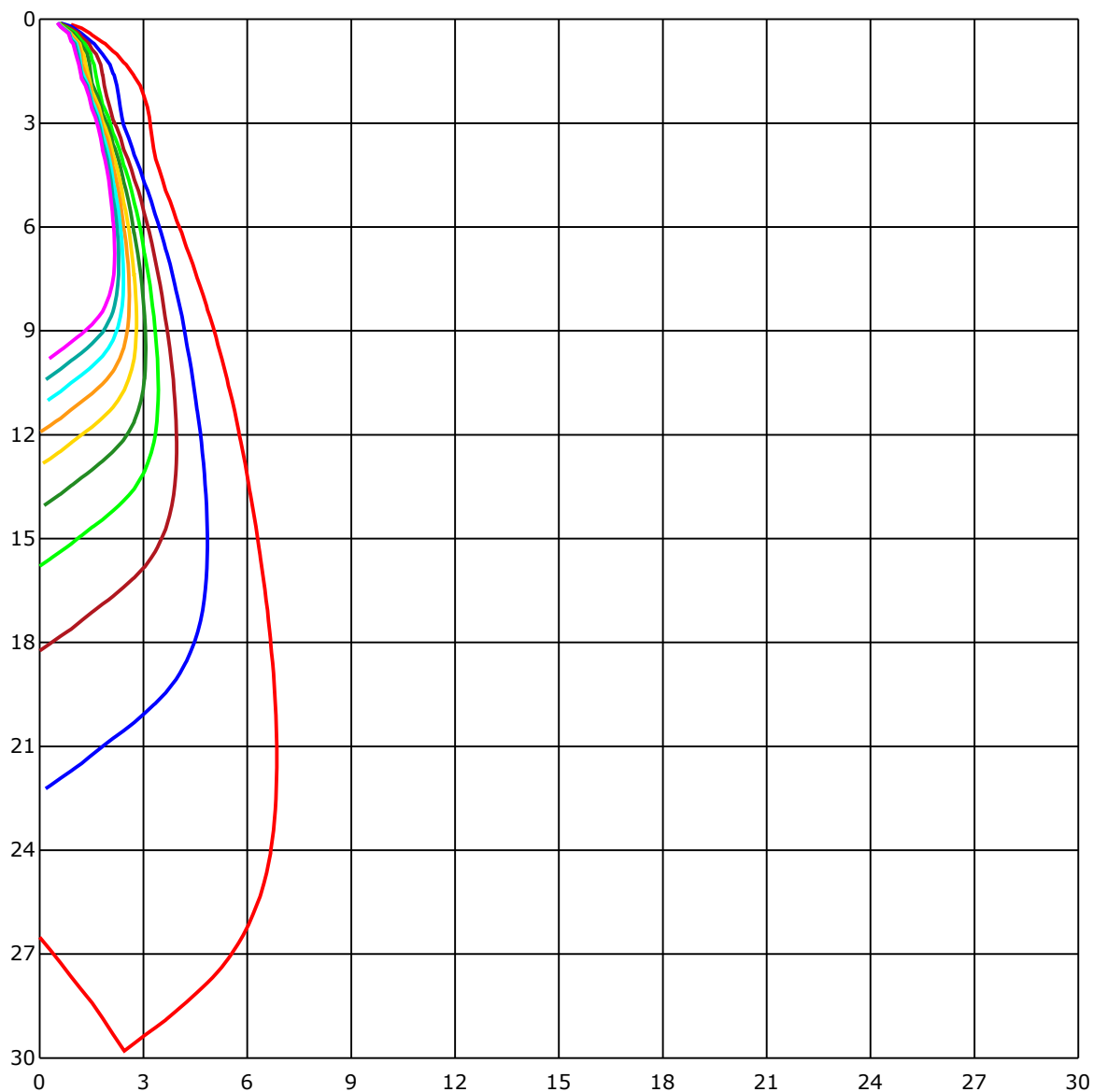
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

SPACE ISOLX DIAGRAM



Unit of illumination:lx

38.146	19.073
34.331	15.258
30.517	11.444
26.702	7.629
22.887	3.815

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3805.91	3864.58	3835.83	3876.75	3805.91	3864.58	3835.83	3876.75	3805.91	
G1	3719.12	3833.52	3875.43	3864.48	3878.12	3834.65	3752.81	3835.31	3719.12	
G2	3633.12	3756.64	3857.21	3790.15	3888.74	3763.62	3672.11	3757.53	3633.12	
G3	3560.39	3676.07	3791.23	3706.09	3837.53	3692.78	3594.33	3679.8	3560.39	
G4	3474.21	3599.14	3719.49	3625.1	3760.27	3615.42	3516.31	3594.89	3474.21	
G5	3398.18	3515.23	3630.72	3556.0	3684.38	3532.03	3431.69	3521.41	3398.18	
G6	3330.92	3439.95	3551.76	3470.11	3596.22	3457.36	3356.69	3440.18	3330.92	
G7	3273.72	3363.58	3469.3	3406.44	3523.06	3386.28	3291.61	3377.08	3273.72	
G8	3208.63	3303.45	3398.7	3333.9	3446.88	3331.16	3235.3	3313.55	3208.63	
G9	3144.64	3232.09	3332.76	3271.5	3383.92	3263.76	3167.38	3259.18	3144.64	
G10	3081.44	3169.56	3266.78	3212.46	3320.07	3205.47	3104.66	3196.93	3081.44	
G11	3011.59	3097.82	3203.21	3148.32	3260.55	3139.35	3034.19	3136.47	3011.59	
G12	2924.18	3029.19	3145.58	3084.37	3205.38	3079.6	2954.01	3062.94	2924.18	
G13	2819.92	2952.59	3077.1	3015.69	3148.88	2996.25	2851.92	2991.48	2819.92	
G14	2698.25	2854.52	3001.72	2921.02	3076.96	2908.27	2732.98	2899.59	2698.25	
G15	2555.76	2744.5	2916.96	2811.05	2998.66	2796.89	2588.23	2789.38	2555.76	
G16	2378.58	2610.27	2812.18	2677.57	2904.45	2661.2	2417.9	2656.05	2378.58	
G17	2179.22	2449.61	2688.34	2518.8	2785.75	2491.1	2221.46	2500.4	2179.22	
G18	1970.38	2265.31	2539.38	2320.72	2644.49	2303.78	2016.72	2310.19	1970.38	
G19	1764.83	2060.95	2354.56	2114.23	2469.25	2098.14	1811.09	2114.09	1764.83	
G20	1562.93	1859.28	2155.06	1898.17	2268.9	1895.62	1608.9	1904.25	1562.93	
G21	1379.28	1653.31	1945.69	1689.79	2064.2	1693.94	1417.46	1694.75	1379.28	
G22	1207.77	1463.34	1743.12	1491.94	1850.92	1495.01	1238.68	1494.77	1207.77	
G23	1059.57	1288.19	1538.38	1307.68	1642.88	1312.73	1081.47	1315.85	1059.57	
G24	929.4	1132.63	1354.17	1143.86	1447.25	1153.12	946.53	1155.14	929.4	
G25	817.73	991.47	1185.68	1005.81	1273.7	1011.71	831.09	1016.62	817.73	
G26	719.28	870.5	1040.55	879.61	1116.16	891.6	725.79	893.96	719.28	
G27	629.89	763.55	911.28	768.27	981.7	781.11	633.57	787.86	629.89	
G28	550.74	670.81	797.25	669.68	859.17	683.32	553.86	693.42	550.74	
G29	478.86	585.57	700.87	585.34	755.53	596.43	482.49	608.79	478.86	
G30	413.73	511.61	614.79	507.46	659.91	520.63	418.64	531.3	413.73	
G31	358.27	444.12	537.1	439.26	575.09	451.96	364.03	462.53	358.27	
G32	309.89	384.89	467.96	377.67	497.93	393.39	316.97	400.37	309.89	
G33	268.5	333.07	407.21	325.75	431.95	340.24	275.3	346.94	268.5	
G34	234.38	289.41	353.08	281.86	372.34	296.07	241.27	300.08	234.38	
G35	206.25	253.31	306.83	246.08	321.93	259.06	212.39	261.05	206.25	
G36	184.12	222.01	268.6	216.02	280.26	229.19	189.4	229.61	184.12	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:21:01

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.:

Test Time: 2025/8/1 16:21:01

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	166.75	195.87	236.03	192.37	245.71	204.6	170.99	205.02	166.75	
G38	152.73	174.91	209.74	172.65	217.15	185.01	156.5	184.92	152.73	
G39	142.02	158.96	188.93	157.31	195.06	169.39	145.13	169.3	142.02	
G40	133.71	147.44	171.99	145.51	176.19	157.12	136.07	156.84	133.71	
G41	127.1	137.25	158.63	136.4	162.36	146.83	128.71	147.07	127.1	
G42	122.1	129.56	148.15	128.61	151.36	139.04	123.23	139.23	122.1	
G43	117.85	123.42	139.7	122.95	142.58	132.72	118.65	133.61	117.85	
G44	114.07	118.51	133.47	117.85	135.22	127.86	114.92	128.38	114.07	
G45	111.05	114.45	127.67	114.26	129.79	123.09	111.76	124.55	111.05	
G46	108.13	111.01	123.42	110.68	124.98	119.41	108.74	120.59	108.13	
G47	105.72	108.18	119.03	107.89	121.01	116.06	105.91	117.61	105.72	
G48	103.03	105.77	115.68	105.25	117.28	113.32	103.31	114.45	103.03	
G49	101.05	102.89	112.8	102.94	114.36	110.11	100.91	111.86	101.05	
G50	98.64	100.44	110.16	100.39	111.2	107.8	98.31	108.88	98.64	
G51	96.33	97.98	107.23	98.26	108.6	104.87	96.09	106.62	96.33	
G52	93.83	96.42	104.64	95.57	106.1	102.46	93.83	104.16	93.83	
G53	91.56	93.78	102.51	93.59	103.64	99.96	91.51	101.52	91.56	
G54	89.15	91.51	99.96	91.56	101.1	97.27	89.25	98.83	89.15	
G55	86.98	89.3	97.37	89.34	98.55	94.82	86.75	96.23	86.98	
G56	84.58	87.13	94.91	87.13	96.14	92.41	84.48	93.45	84.58	
G57	81.75	84.72	92.74	84.86	93.83	89.96	81.65	91.09	81.75	
G58	78.21	82.31	90.43	82.17	91.23	86.89	78.54	87.93	78.21	
G59	74.76	79.39	87.69	79.39	88.78	83.4	74.71	84.67	74.76	
G60	71.31	75.85	84.48	75.47	86.04	79.76	71.41	80.9	71.31	
G61	68.01	72.54	80.99	72.31	82.22	76.13	67.92	77.4	68.01	
G62	64.71	69.43	77.21	68.81	78.39	73.01	64.8	74.0	64.71	
G63	61.69	65.93	73.82	65.79	74.76	69.62	61.73	70.84	61.69	
G64	58.62	62.96	70.37	62.49	71.64	66.69	59.04	67.4	58.62	
G65	55.65	59.85	67.35	59.56	68.48	63.48	55.74	64.33	55.65	
G66	52.72	56.97	64.38	56.49	65.08	60.46	52.81	61.17	52.72	
G67	50.03	54.09	61.26	53.62	62.06	57.44	50.17	58.24	50.03	
G68	46.63	51.3	58.19	50.88	59.09	54.65	47.06	55.31	46.63	
G69	44.27	48.28	55.36	47.95	56.26	51.92	44.37	52.39	44.27	
G70	41.49	45.5	52.44	45.17	53.47	48.57	42.15	49.13	41.49	
G71	39.03	42.81	49.27	42.67	50.64	45.92	39.32	46.49	39.03	
G72	36.48	40.4	46.68	40.07	47.48	43.52	36.72	43.75	36.48	
G73	33.84	37.8	44.08	37.57	45.03	40.68	34.31	41.34	33.84	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:21:01

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 16:21:01

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