

Report No.:

Test Time: 2025/7/17 11:10:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H90-15°-15W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

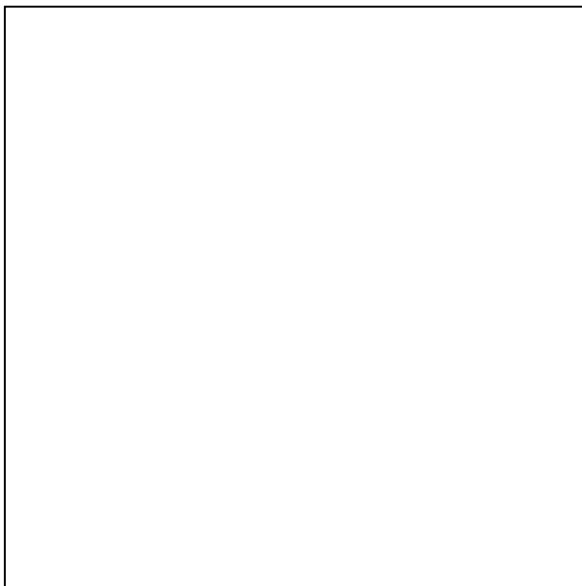
Voltage(V): 219.80 V
Current(A): 0.0720 A
Power(W): 15.17 W
Power Factor: 0.9530
Lamp Luminous Flux: 1104.98

Photometric Results

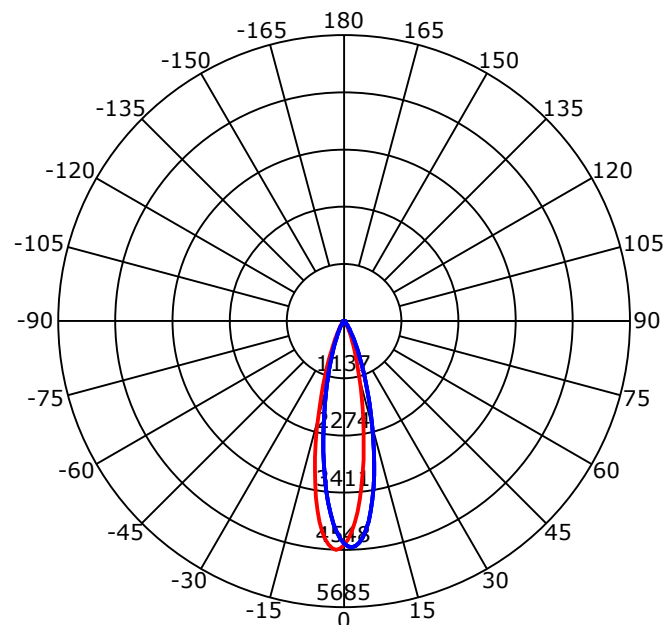
CIE Class: Direct
Luminaire Luminous Flux: 1104.982 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 72.86 lm/W
Beam Angle(50%) C0-180,C90-270: 23.8,25.2
Field Angle(10%) C0-180,C90-270: 47.1,50.3
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 4548.32 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4455.06 cd
Effective Luminous Flux: 915.36 lm
ERP(ϕ use)(120deg): 1097.53 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.8 deg,25.2 deg

C0-180 — C90-270 —

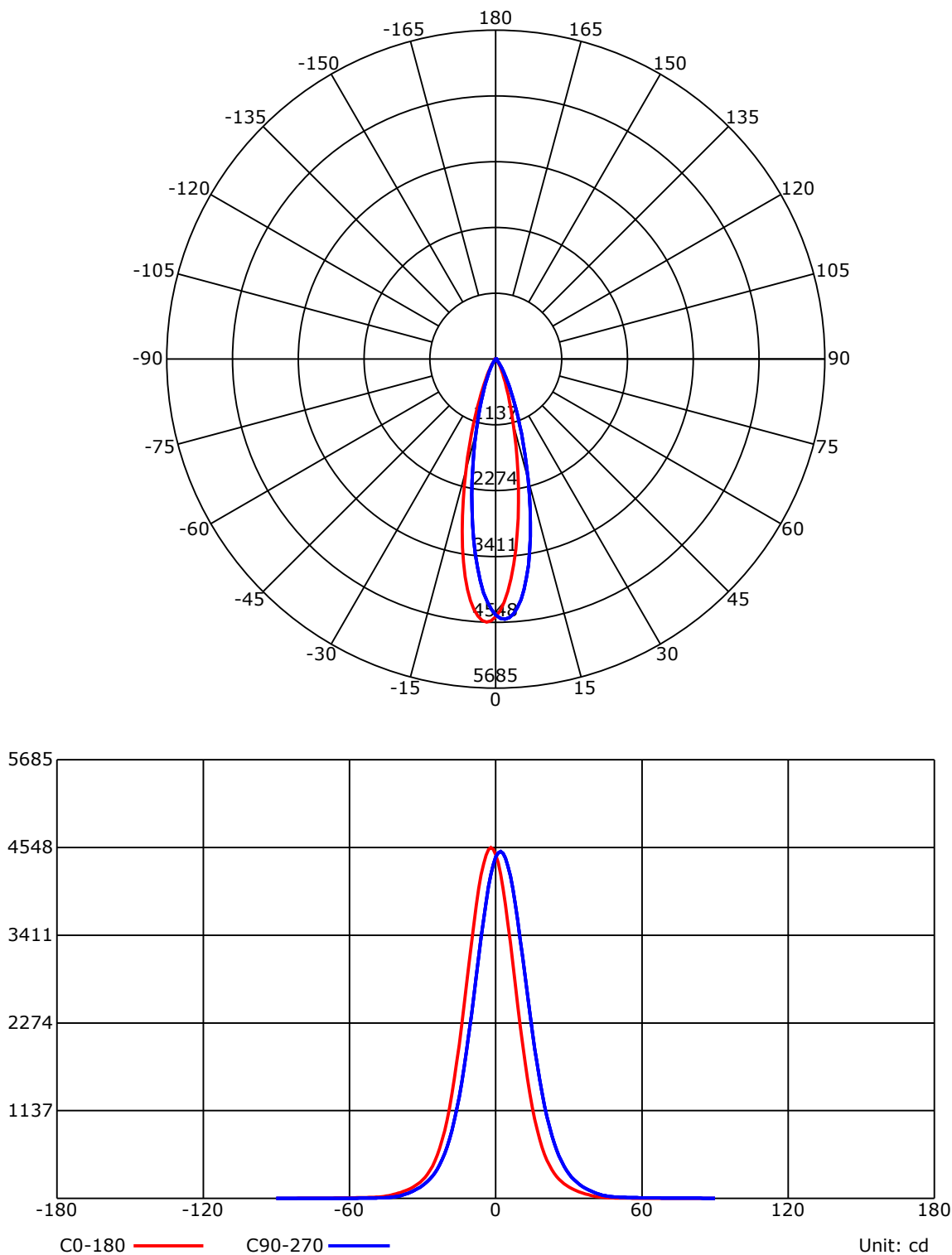
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:10:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

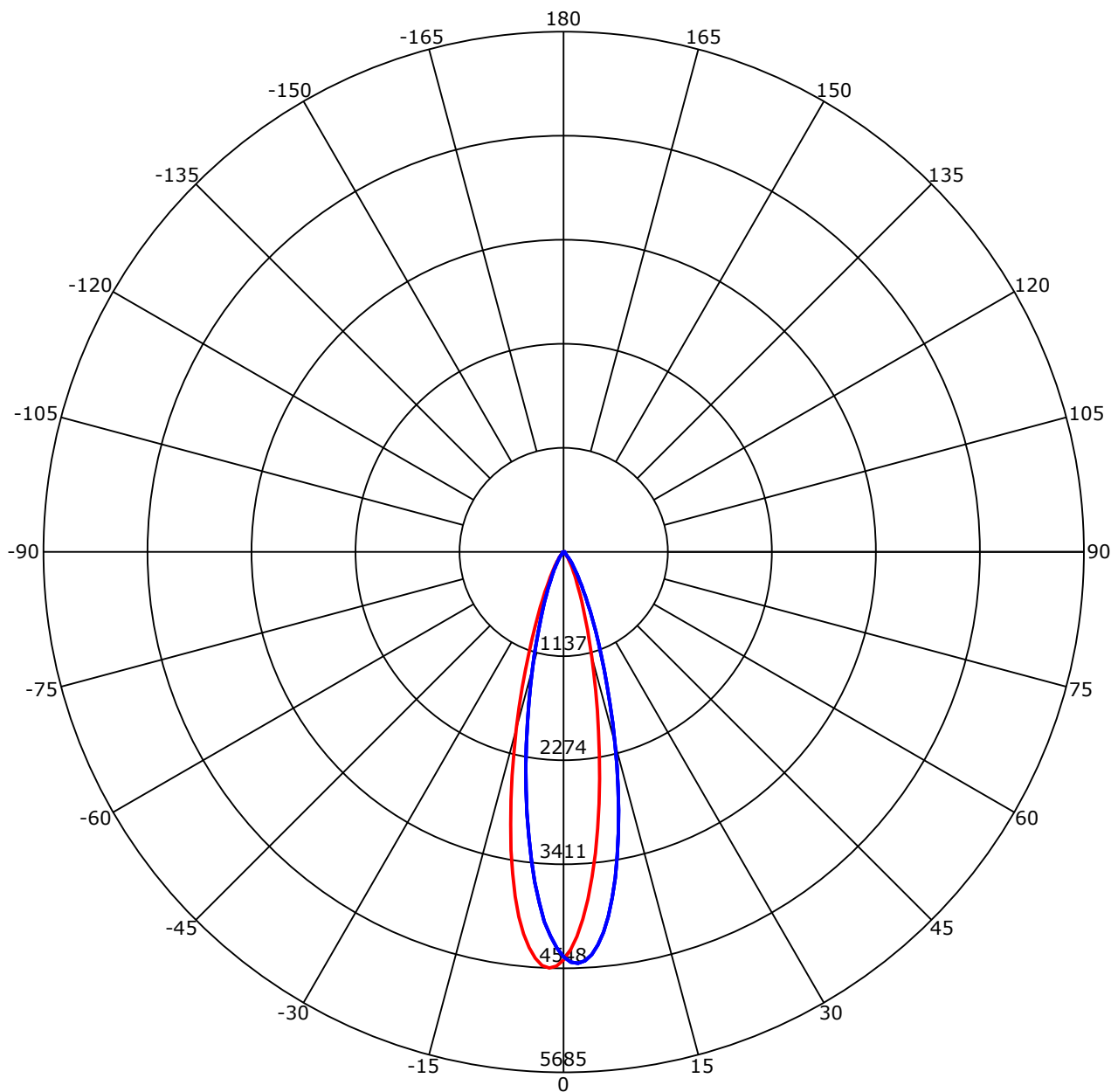
Test Distance: 6.87 m

Remarks:

Report No.:

Test Time: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

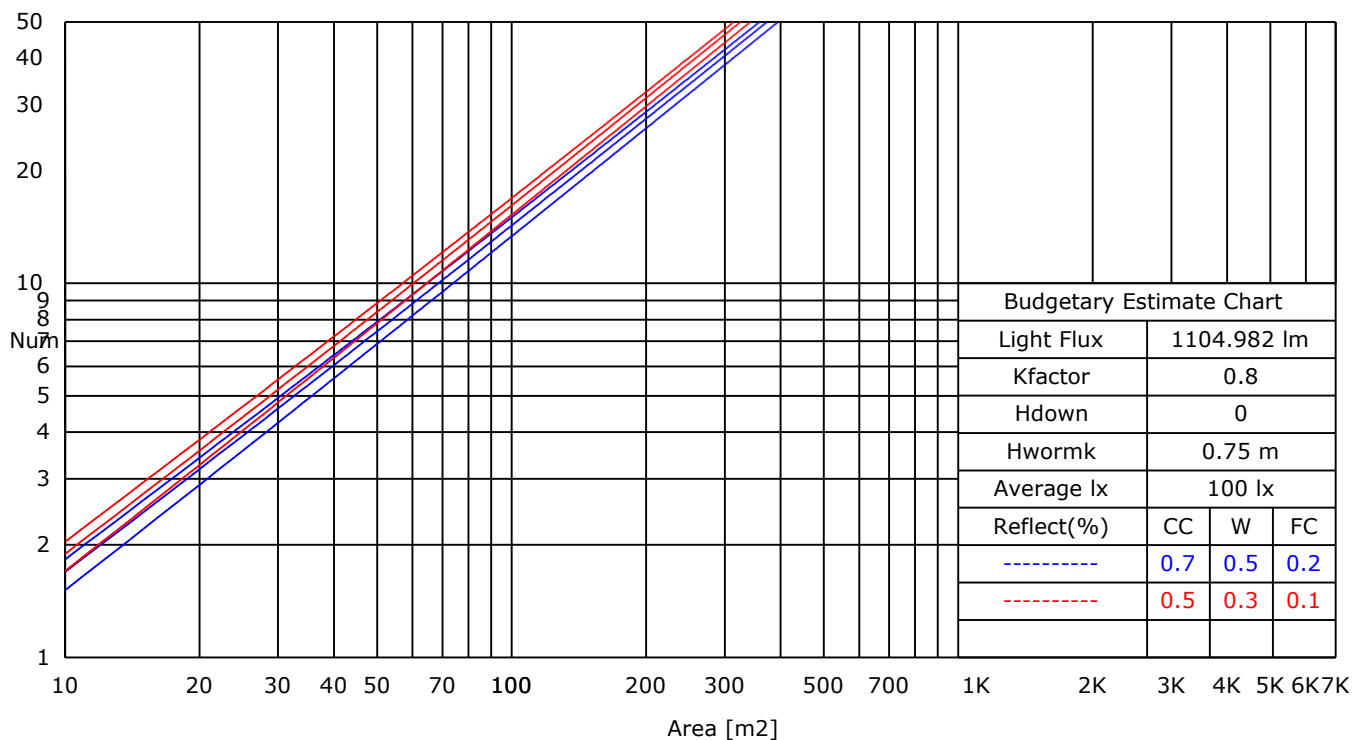
Report No.:

Test Time: 2025/7/17 11:10:11

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	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.70	0.65
2	0.85	0.82	0.80	0.85	0.81	0.79	0.83	0.79	0.75	0.80	0.75	0.72	0.75	0.71	0.67	0.62
3	0.82	0.79	0.78	0.82	0.78	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
4	0.80	0.77	0.76	0.79	0.76	0.74	0.78	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.78	0.76	0.74	0.77	0.75	0.73	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.74	0.73	0.72	0.74	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
8	0.73	0.71	0.70	0.72	0.70	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.72	0.70	0.69	0.71	0.69	0.68	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
10	0.70	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



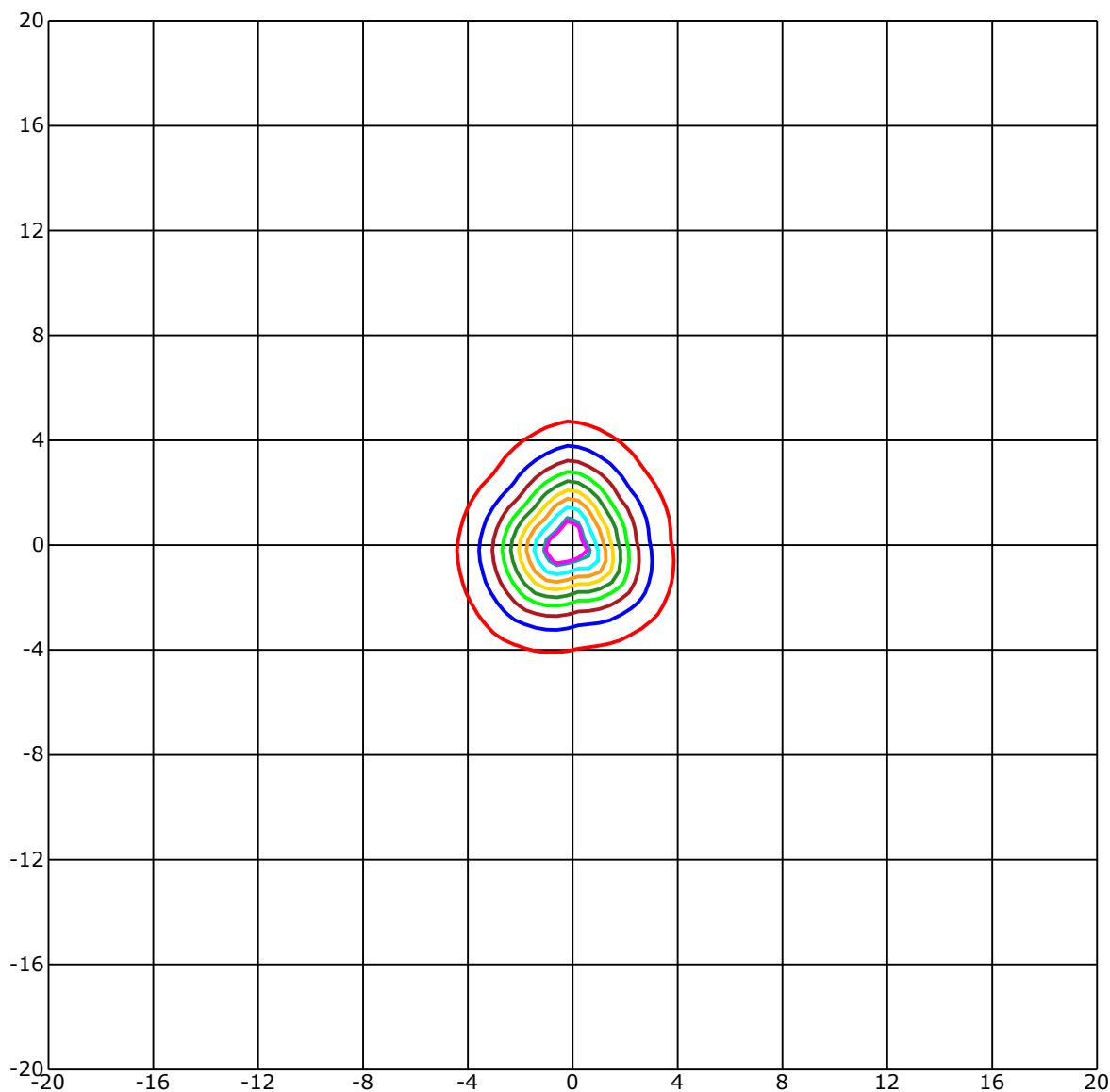
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

ISOLX DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:10:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

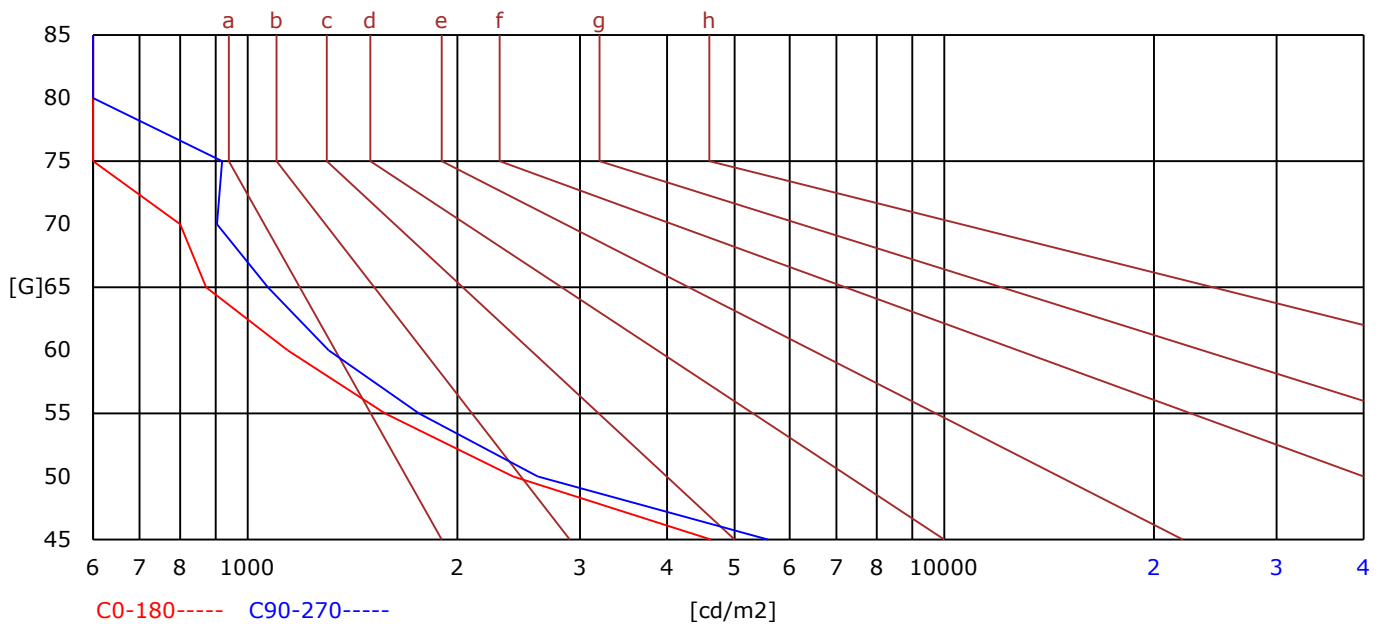
Remarks:

Report No.:

Test Time: 2025/7/17 11:10:11

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4625	2405	1576	1142	872	800	505	0	0
C90	5583	2608	1762	1308	1069	904	919	205	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



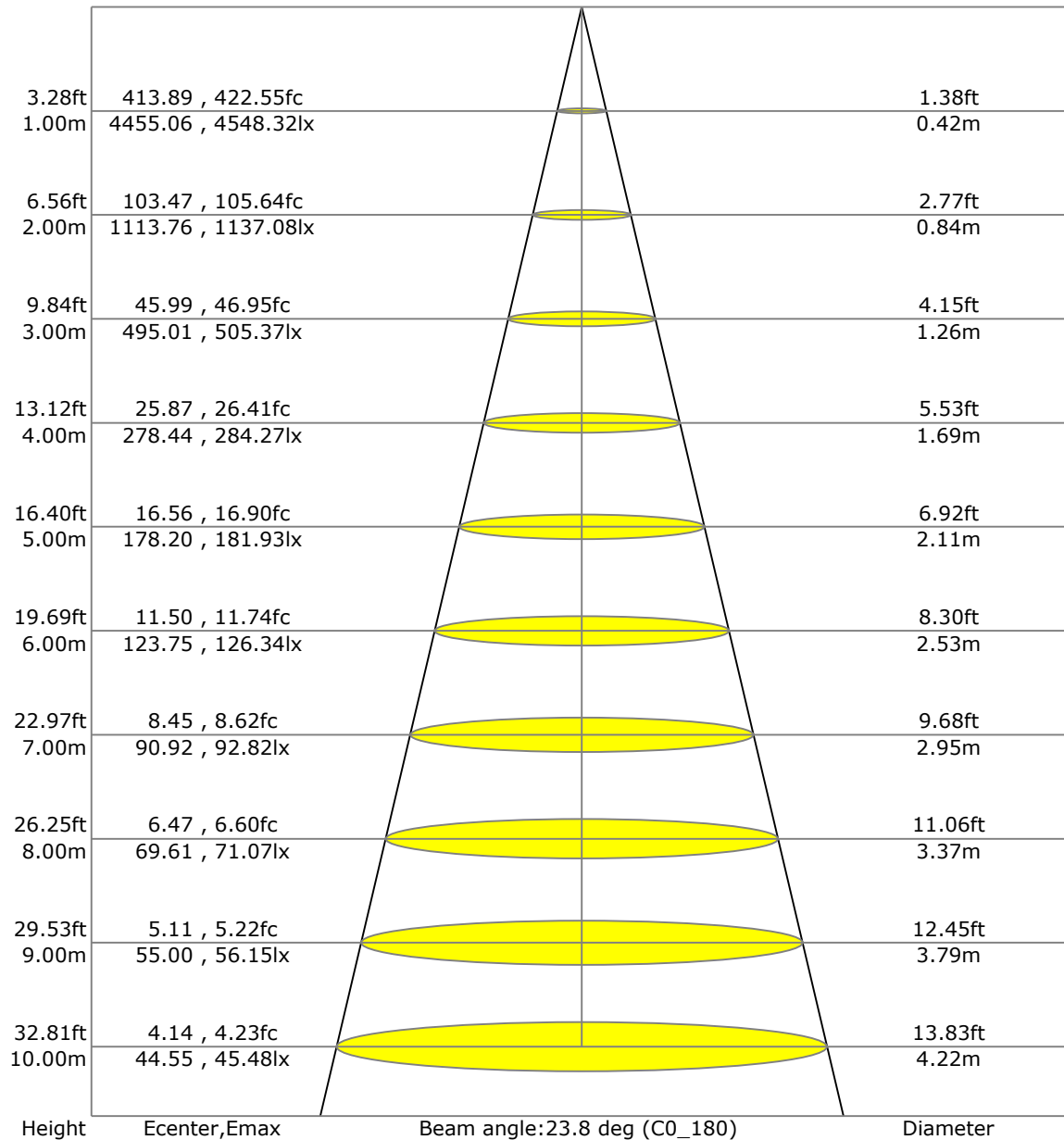
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

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	6.82	6.88	7.02	7.07	7.31	7.18	7.23	7.38	7.42	7.67
3H	6.82	6.88	7.03	7.07	7.32	7.16	7.22	7.36	7.41	7.66
4H	6.81	6.87	7.02	7.07	7.32	7.14	7.20	7.35	7.40	7.65
6H	6.80	6.86	7.02	7.06	7.32	7.13	7.19	7.34	7.39	7.64
8H	6.79	6.85	7.01	7.06	7.31	7.12	7.18	7.34	7.39	7.64
12H	6.78	6.85	7.01	7.05	7.31	7.11	7.17	7.33	7.38	7.63
4H 2H	6.82	6.88	7.03	7.08	7.32	7.65	7.71	7.86	7.90	8.15
3H	6.81	6.87	7.03	7.08	7.33	7.63	7.70	7.86	7.90	8.16
4H	6.80	6.87	7.03	7.08	7.34	7.62	7.68	7.85	7.89	8.15
6H	6.79	6.85	7.03	7.08	7.34	7.59	7.66	7.83	7.88	8.14
8H	6.79	6.85	7.03	7.07	7.34	7.58	7.64	7.83	7.87	8.14
12H	6.78	6.84	7.03	7.07	7.34	7.57	7.63	7.82	7.86	8.13
8H 4H	6.80	6.86	7.01	7.06	7.31	8.04	8.10	8.26	8.30	8.56
6H	6.75	6.81	7.01	7.05	7.33	8.07	8.13	8.33	8.37	8.65
8H	6.75	6.80	7.01	7.05	7.33	8.06	8.11	8.32	8.36	8.64
12H	6.74	6.80	7.01	7.05	7.33	8.04	8.10	8.31	8.35	8.63
12H 4H	6.76	6.82	7.01	7.05	7.32	8.36	8.42	8.61	8.65	8.92
6H	6.74	6.80	7.00	7.04	7.32	8.37	8.42	8.63	8.67	8.95

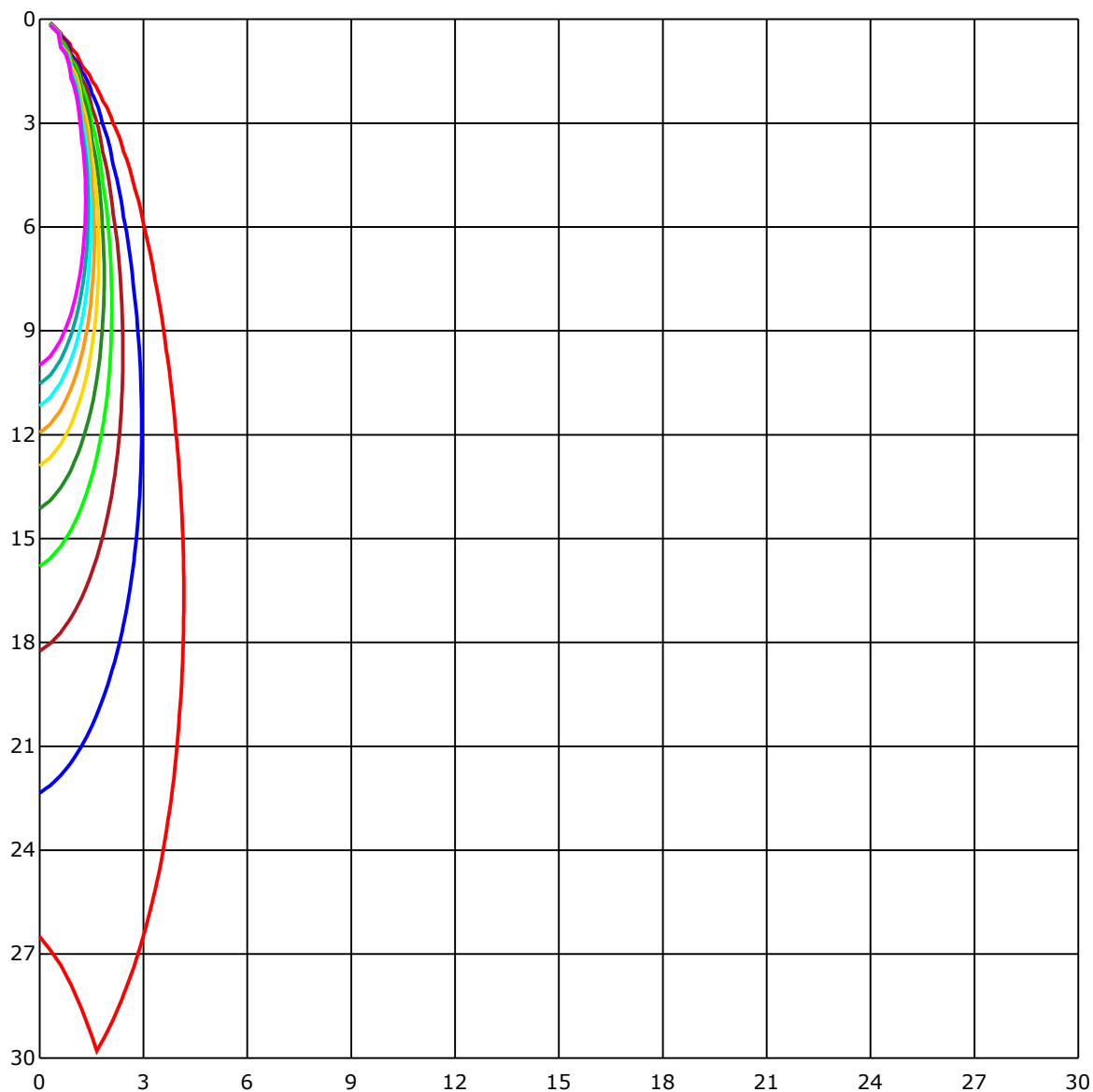
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4455.06	4402.53	4423.62	4540.96	4455.06	4402.53	4423.62	4540.96	4455.06	
G1	4348.49	4316.53	4480.5	4514.01	4525.19	4452.04	4326.59	4523.82	4348.49	
G2	4202.18	4192.74	4497.25	4438.26	4548.32	4457.98	4197.22	4460.3	4202.18	
G3	4016.83	4045.67	4473.18	4324.04	4522.31	4421.26	4043.64	4356.42	4016.83	
G4	3805.11	3853.77	4410.27	4176.36	4449.54	4344.99	3837.58	4218.65	3805.11	
G5	3562.19	3639.64	4307.47	3989.22	4339.9	4237.53	3620.71	4046.99	3562.19	
G6	3310.67	3404.64	4176.93	3773.86	4195.33	4082.2	3380.95	3842.58	3310.67	
G7	3042.64	3154.31	4011.41	3532.78	4016.65	3914.42	3132.46	3607.45	3042.64	
G8	2779.9	2900.63	3815.3	3280.8	3799.63	3702.97	2879.96	3361.22	2779.9	
G9	2507.05	2650.81	3605.61	3026.22	3555.91	3475.16	2628.68	3106.03	2507.05	
G10	2252.05	2399.77	3367.64	2760.22	3309.12	3234.4	2375.37	2847.53	2252.05	
G11	1995.01	2159.16	3125.52	2491.48	3029.48	2981.38	2139.81	2583.56	1995.01	
G12	1767.95	1926.11	2884.72	2236.19	2768.0	2724.39	1908.36	2327.47	1767.95	
G13	1552.45	1711.97	2643.22	1992.13	2502.57	2475.86	1695.64	2080.91	1552.45	
G14	1359.32	1512.38	2403.97	1756.62	2247.04	2236.85	1496.05	1855.55	1359.32	
G15	1183.56	1331.71	2169.64	1540.32	1995.67	2004.59	1318.02	1640.38	1183.56	
G16	1027.9	1168.97	1943.76	1346.53	1763.14	1785.22	1154.06	1445.26	1027.9	
G17	888.67	1022.52	1734.77	1171.38	1546.6	1582.7	1010.34	1265.07	888.67	
G18	768.65	892.54	1542.4	1012.33	1351.86	1392.17	878.9	1104.93	768.65	
G19	662.22	776.53	1367.53	876.35	1171.24	1220.04	766.95	959.04	662.22	
G20	572.12	675.25	1204.32	757.79	1014.83	1062.78	666.47	829.2	572.12	
G21	495.99	589.35	1062.4	657.12	877.15	927.04	580.47	718.05	495.99	
G22	430.44	514.78	930.77	568.49	757.46	807.68	504.16	623.47	430.44	
G23	371.96	449.31	817.17	490.99	650.56	700.21	438.79	541.44	371.96	
G24	323.87	391.31	715.36	424.68	561.83	607.94	380.69	469.56	323.87	
G25	282.38	340.76	627.2	367.76	484.33	528.46	331.7	407.78	282.38	
G26	246.89	297.81	546.78	318.96	417.69	459.18	288.99	356.2	246.89	
G27	216.16	261.61	477.82	277.33	360.91	400.28	253.02	311.17	216.16	
G28	190.16	228.81	417.32	241.13	314.05	348.12	221.35	272.89	190.16	
G29	167.69	200.4	365.63	210.36	274.17	304.0	192.99	239.38	167.69	
G30	148.29	176.33	319.76	183.97	240.7	265.77	168.3	210.69	148.29	
G31	129.84	155.51	279.64	161.37	211.39	232.68	146.4	185.81	129.84	
G32	114.17	136.54	245.75	142.02	186.47	204.03	127.01	164.01	114.17	
G33	100.34	119.69	216.63	123.94	164.91	178.88	110.49	144.66	100.34	
G34	88.07	105.34	190.11	108.65	145.56	156.17	94.72	127.86	88.07	
G35	76.98	92.36	166.98	94.96	128.0	136.78	80.8	112.94	76.98	
G36	66.83	80.0	146.74	82.64	113.46	119.93	67.87	99.54	66.83	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:10:11

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: 2025/7/17 11:10:11

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	57.3	68.91	128.71	71.93	100.2	105.53	56.45	87.55	57.3	
G38	48.19	58.38	111.67	61.97	88.82	92.79	45.59	76.69	48.19	
G39	40.07	48.57	96.47	52.86	78.06	81.46	37.0	66.45	40.07	
G40	32.75	39.88	82.45	44.32	68.62	70.89	29.78	57.34	32.75	
G41	26.24	32.19	69.57	36.62	59.37	61.36	23.6	48.61	26.24	
G42	21.0	25.44	58.15	29.83	51.16	52.2	18.55	41.06	21.0	
G43	16.85	20.34	48.38	24.12	43.23	43.89	15.06	34.55	16.85	
G44	13.45	16.14	40.26	19.35	36.67	36.81	12.41	29.17	13.45	
G45	10.43	12.98	33.75	15.67	31.06	31.29	10.38	24.92	10.43	
G46	8.59	10.57	28.41	12.79	26.67	26.57	8.54	21.43	8.59	
G47	7.32	8.83	24.59	10.43	22.84	22.89	7.46	18.55	7.32	
G48	6.37	7.6	21.62	8.78	19.78	19.78	6.47	16.61	6.37	
G49	5.57	6.7	19.07	7.6	17.51	17.56	5.76	15.06	5.57	
G50	5.1	6.14	16.94	6.65	15.86	15.76	5.1	13.92	5.1	
G51	4.53	5.57	15.62	5.95	14.35	14.54	4.77	12.98	4.53	
G52	4.2	5.05	14.3	5.38	13.4	13.4	4.34	12.08	4.2	
G53	3.54	4.63	13.36	4.81	12.51	12.65	3.87	11.28	3.54	
G54	3.16	4.11	12.46	4.48	11.94	11.8	3.59	10.67	3.16	
G55	2.78	3.59	11.61	4.01	10.9	11.04	3.4	9.91	2.78	
G56	2.45	3.21	10.76	3.73	10.38	10.29	2.88	9.49	2.45	
G57	2.22	2.97	10.19	3.35	9.63	9.82	2.6	8.68	2.22	
G58	2.08	2.69	9.63	3.02	9.2	9.16	2.6	8.17	2.08	
G59	1.84	2.45	9.16	2.74	8.59	8.68	2.55	7.83	1.84	
G60	1.7	2.27	8.54	2.6	8.17	8.17	2.17	7.41	1.7	
G61	1.51	2.03	7.98	2.41	7.74	7.74	2.08	7.13	1.51	
G62	1.42	1.79	7.79	2.27	7.41	7.41	1.98	6.7	1.42	
G63	1.23	1.79	7.36	2.03	7.03	7.08	1.79	6.51	1.23	
G64	1.18	1.6	7.08	1.94	6.75	6.75	1.6	6.28	1.18	
G65	1.04	1.46	6.75	1.79	6.37	6.51	1.42	5.85	1.04	
G66	1.09	1.42	6.51	1.79	6.14	6.28	1.42	5.66	1.09	
G67	0.99	1.27	6.28	1.56	5.85	6.04	1.37	5.47	0.99	
G68	0.94	1.18	6.04	1.37	5.76	5.62	1.42	5.29	0.94	
G69	0.8	1.18	5.95	1.32	5.38	5.57	1.27	4.96	0.8	
G70	0.9	1.09	5.62	1.23	5.29	5.38	1.18	4.81	0.9	
G71	0.66	1.09	5.47	1.13	5.14	5.14	1.18	4.72	0.66	
G72	0.52	0.9	5.29	1.04	5.0	5.0	1.13	4.58	0.52	
G73	0.24	0.85	5.1	1.13	4.77	4.86	0.94	4.25	0.24	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:10:11

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 Interval: 45.0 Deg

Temperature: 25

Test Date: 2025/

G Interval: 1.0 Deg

Humidity: 60

Remarks: