

Report No.:

Test Time: 2025/6/30 16:47:13

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H117-38°-25W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 70 mm

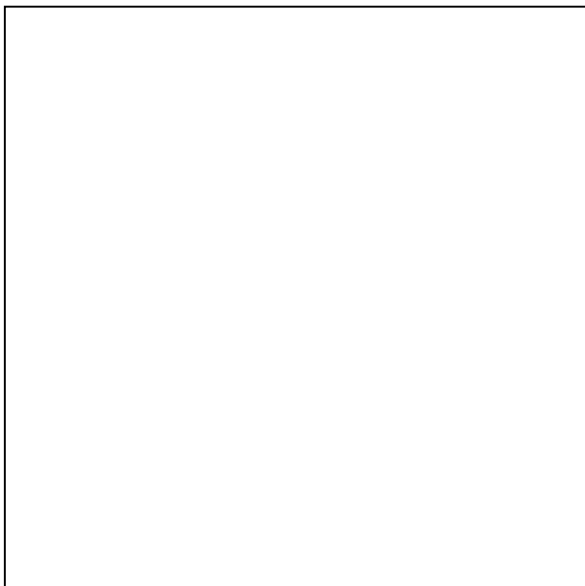
Voltage(V): 230.80 V
Current(A): 0.1070 A
Power(W): 23.58 W
Power Factor: 0.9490
Lamp Luminous Flux: 2083.45

Photometric Results

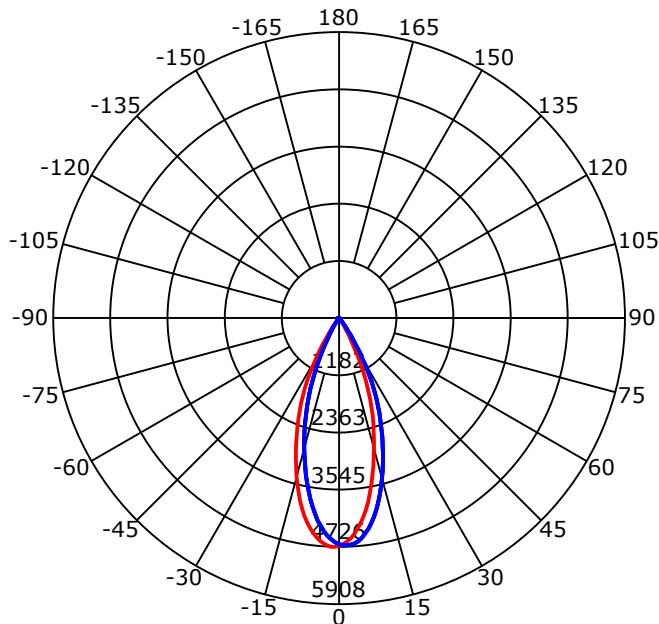
CIE Class: Direct
Luminaire Luminous Flux: 2083.453 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.34 lm/W
Beam Angle(50%) C0-180,C90-270: 38.8,39.1
Field Angle(10%) C0-180,C90-270: 62.1,62.6
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 4726.39 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4707.32 cd
Effective Luminous Flux: 1952.02 lm
ERP(ϕ use)(120deg): 2079.94 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.8 deg,39.1 deg

C0-180 — C90-270

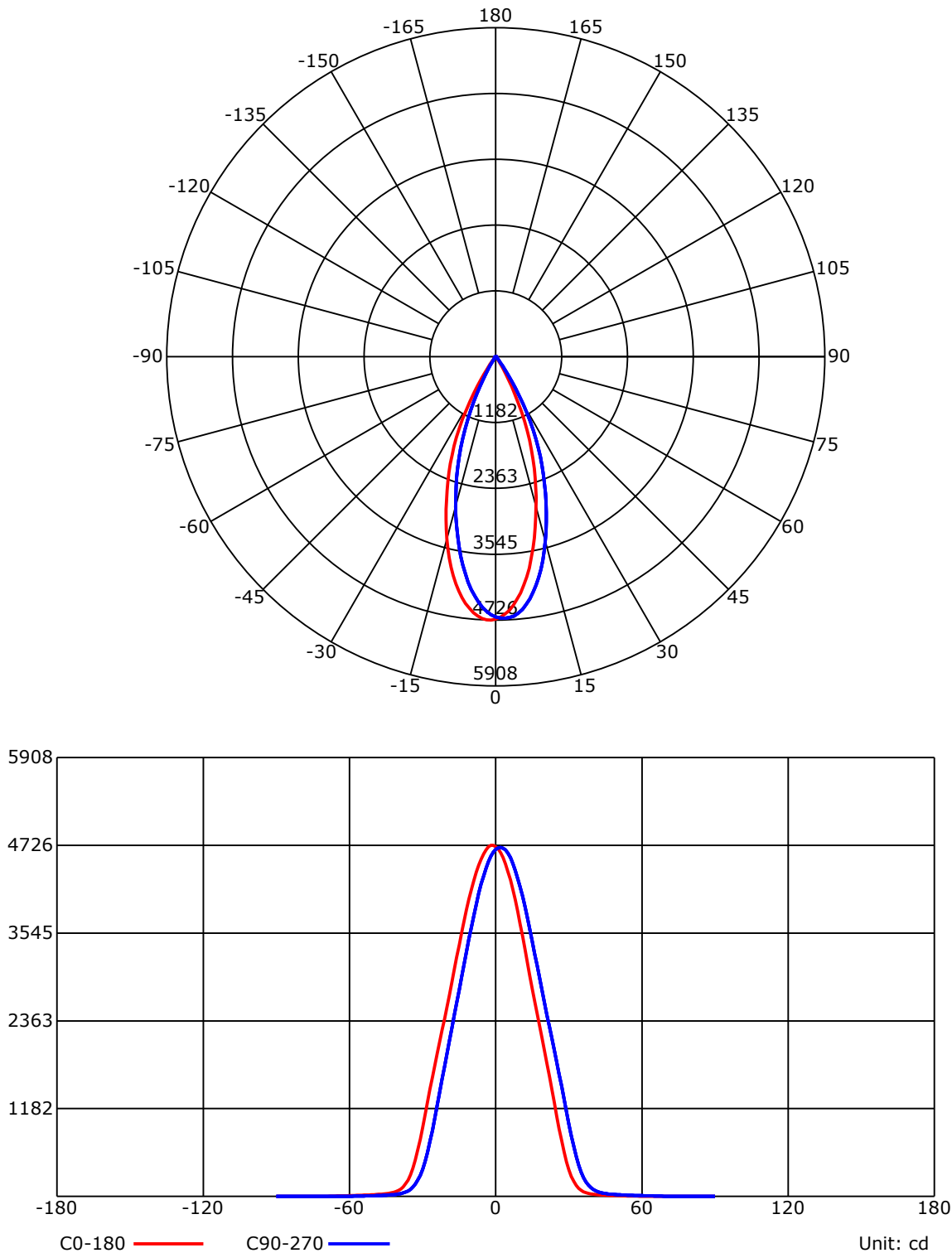
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

Luminous Intensity Distribution Curve



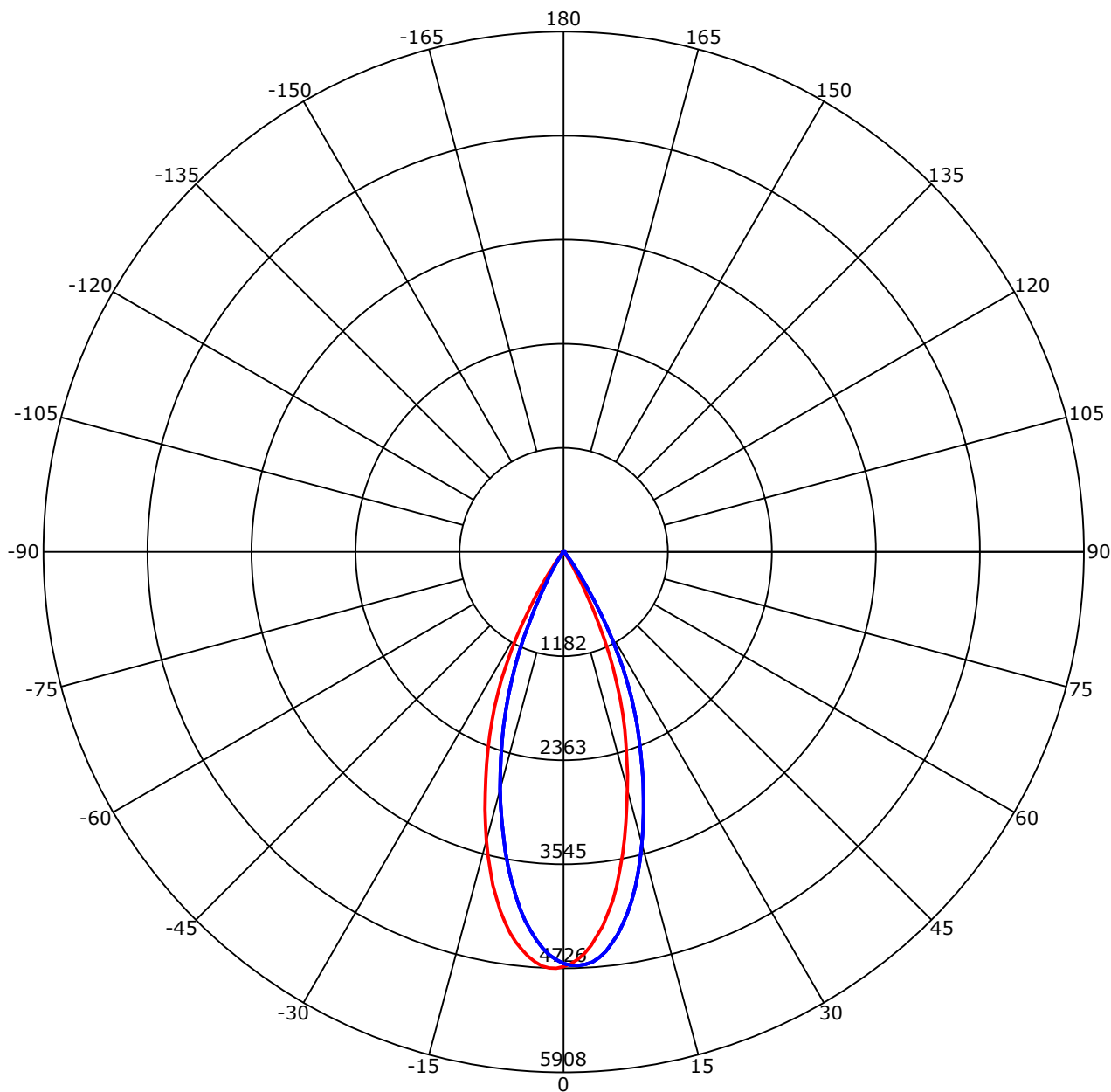
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

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

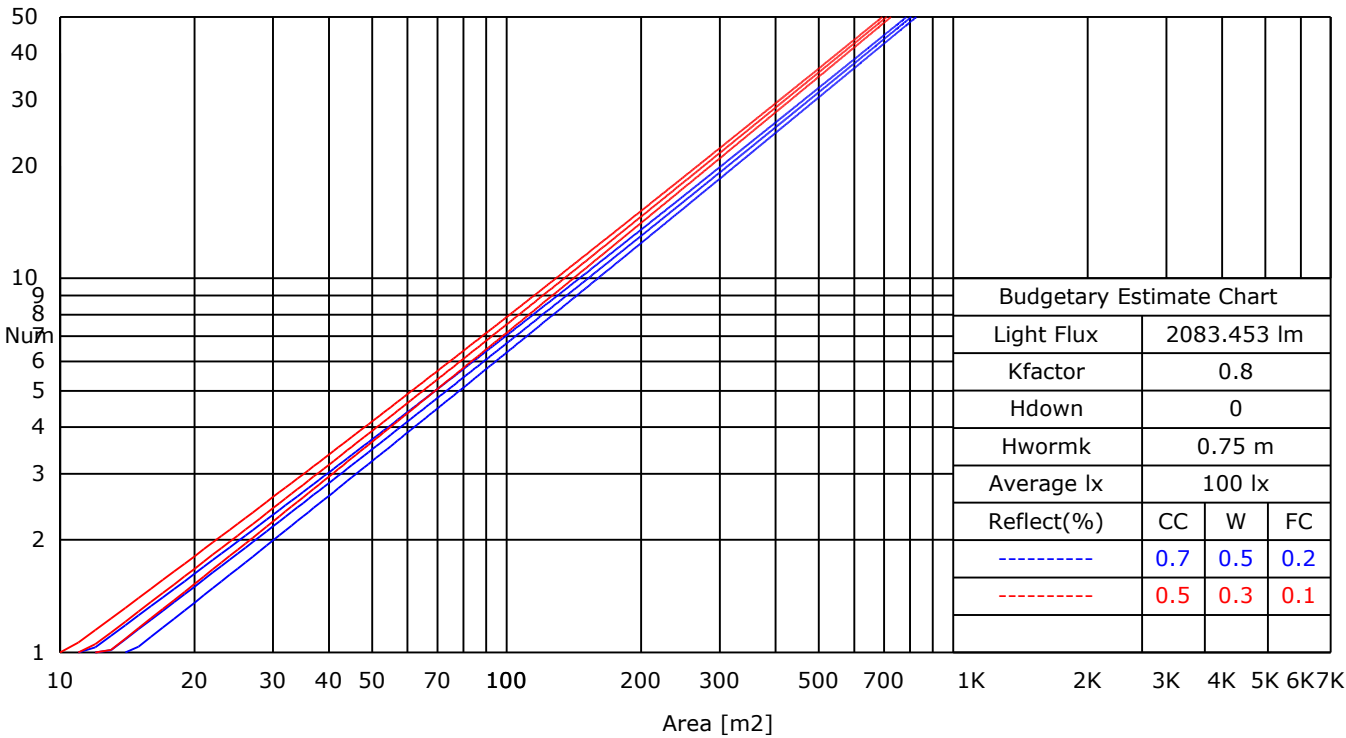
Report No.:

Test Time: 2025/6/30 16:47:13

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	0.99	0.97	0.95	0.98	0.95	0.93	0.95	0.92	0.89	0.90	0.87	0.85	0.85	0.82	0.79	0.74
2	0.96	0.94	0.92	0.95	0.92	0.90	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.70
4	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.76	0.78	0.74	0.71	0.67
6	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
7	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.65
8	0.83	0.81	0.81	0.82	0.80	0.79	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
9	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.75	0.72	0.70	0.72	0.69	0.66	0.62
10	0.80	0.78	0.78	0.79	0.77	0.76	0.76	0.74	0.72	0.74	0.71	0.68	0.71	0.67	0.64	0.61

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



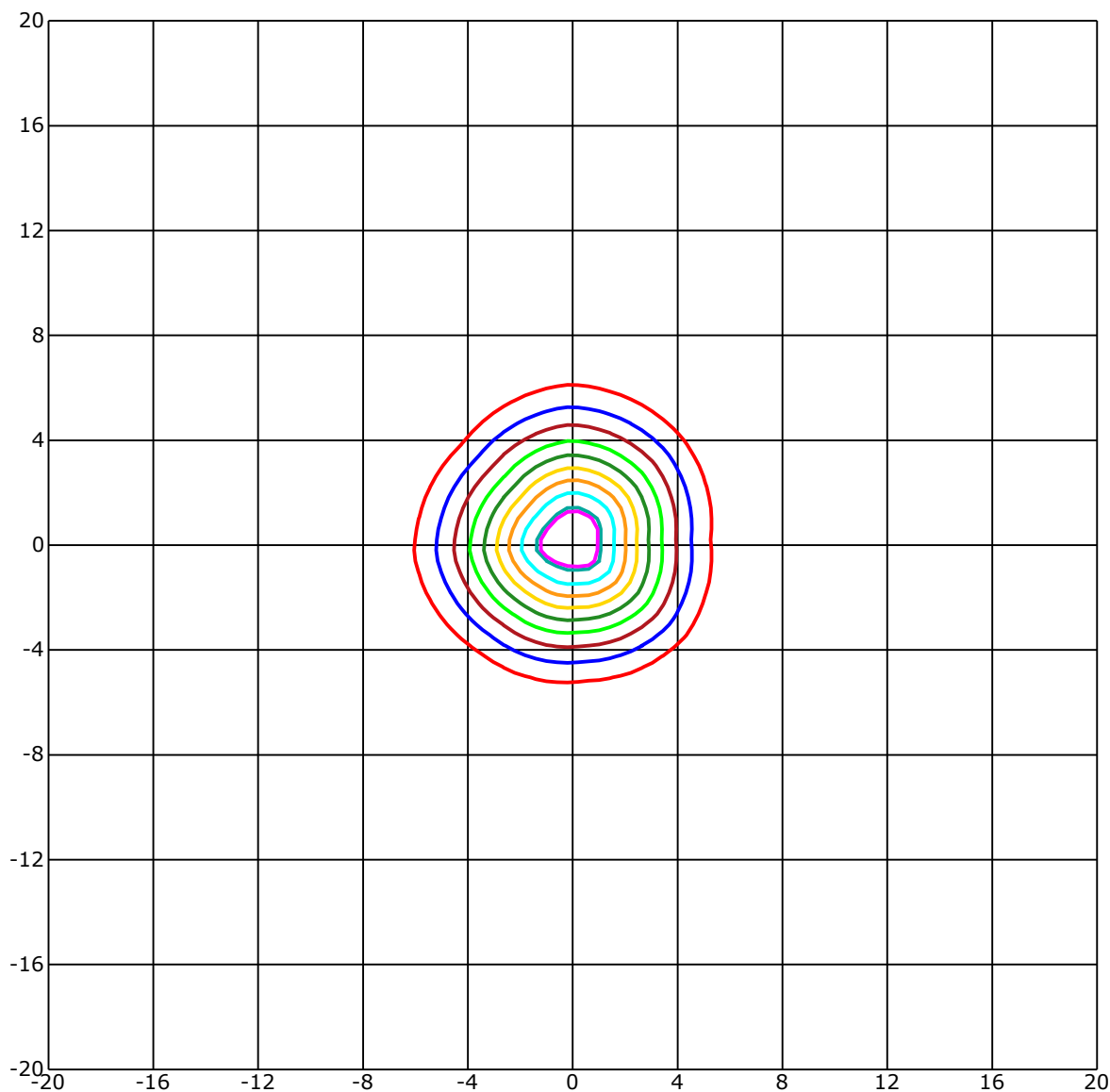
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

ISOLX DIAGRAM



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

43.463(92%Emax)	23.621(50%Emax)
42.518(90%Emax)	18.897(40%Emax)
37.794(80%Emax)	14.173(30%Emax)
33.07(70%Emax)	9.448(20%Emax)
28.345(60%Emax)	4.724(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

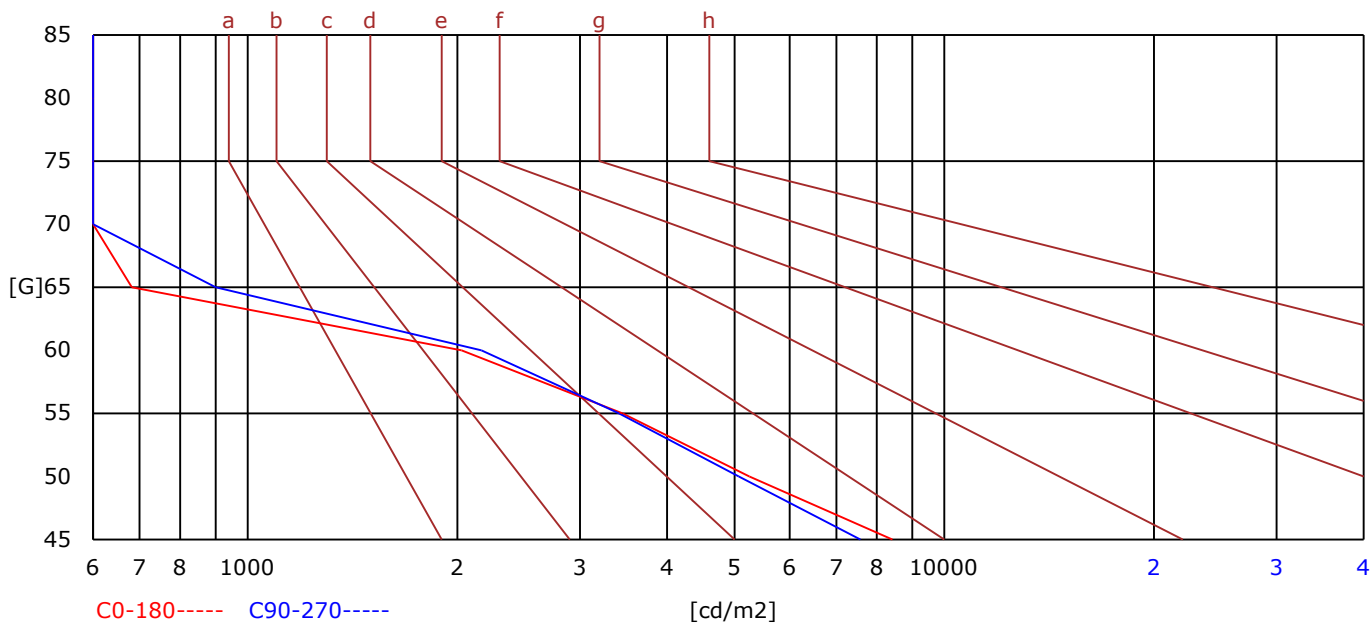
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/6/30 16:47:13

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8425	5252	3455	2028	682	0	0	0	0
C90	7577	5073	3415	2166	900	0	0	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



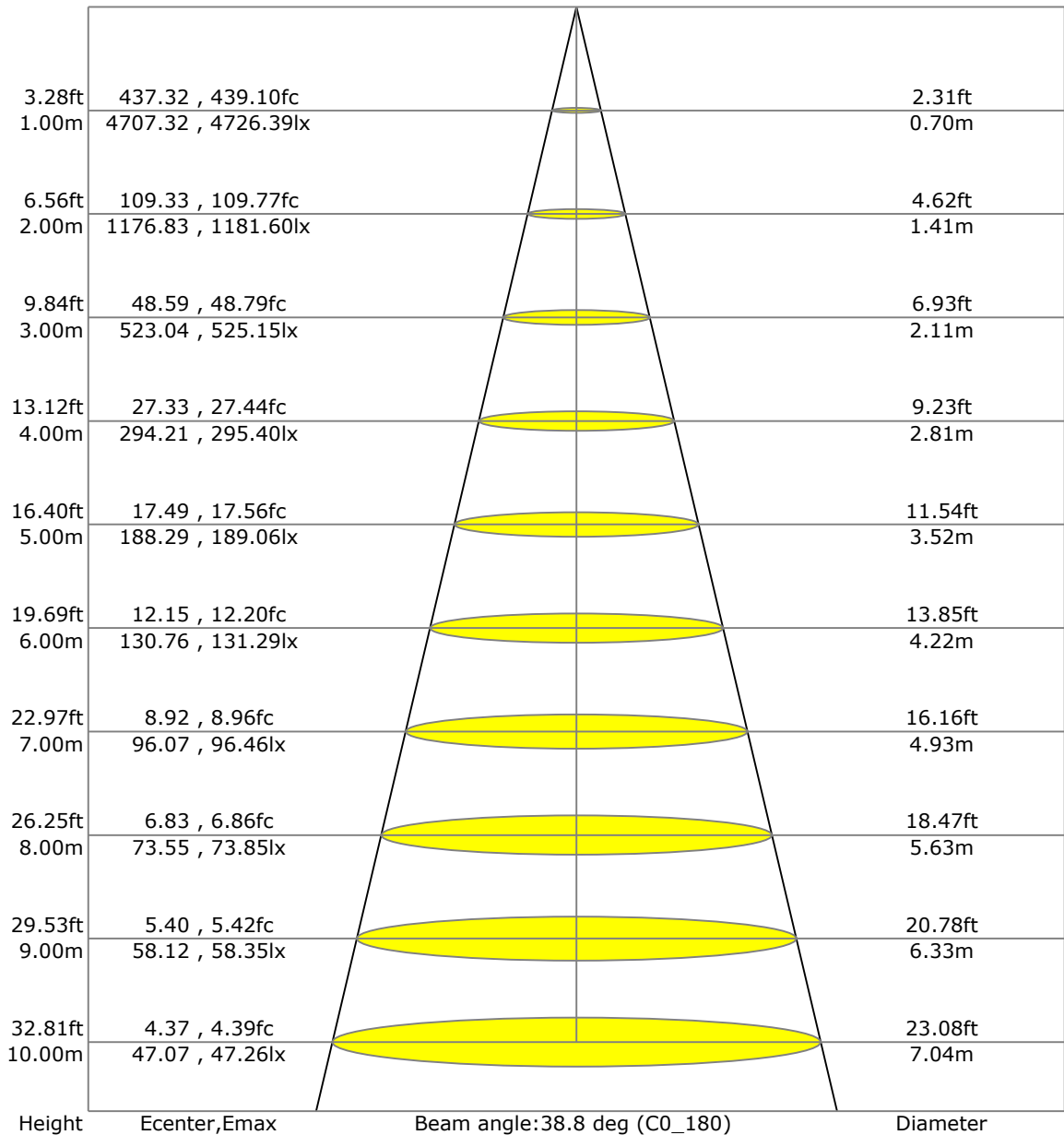
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

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	8.52	8.57	8.72	8.76	9.00	8.64	8.69	8.84	8.88	9.12
	3H	8.50	8.55	8.71	8.75	8.99	8.62	8.67	8.83	8.86	9.11
	4H	8.49	8.54	8.70	8.74	8.99	8.61	8.66	8.82	8.86	9.10
	6H	8.47	8.53	8.69	8.73	8.98	8.59	8.64	8.81	8.85	9.10
	8H	8.47	8.52	8.69	8.72	8.97	8.59	8.64	8.80	8.84	9.09
	12H	8.46	8.51	8.68	8.72	8.97	8.58	8.63	8.80	8.83	9.09
4H	2H	8.49	8.54	8.70	8.74	8.98	8.64	8.69	8.85	8.89	9.14
	3H	8.46	8.51	8.68	8.72	8.97	8.61	8.66	8.83	8.87	9.12
	4H	8.44	8.49	8.67	8.71	8.96	8.59	8.64	8.82	8.86	9.12
	6H	8.42	8.47	8.66	8.69	8.96	8.57	8.62	8.81	8.84	9.11
	8H	8.41	8.46	8.65	8.68	8.95	8.56	8.61	8.80	8.84	9.10
	12H	8.40	8.45	8.64	8.68	8.95	8.55	8.60	8.80	8.83	9.10
8H	4H	8.47	8.52	8.68	8.72	8.97	8.62	8.67	8.84	8.88	9.13
	6H	8.38	8.43	8.64	8.67	8.94	8.54	8.59	8.79	8.82	9.10
	8H	8.37	8.41	8.63	8.66	8.94	8.52	8.57	8.79	8.82	9.09
	12H	8.35	8.40	8.62	8.65	8.93	8.51	8.55	8.78	8.81	9.09
12H	4H	8.40	8.45	8.64	8.68	8.95	8.55	8.60	8.80	8.83	9.10
	6H	8.37	8.41	8.63	8.66	8.94	8.53	8.57	8.79	8.82	9.09

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

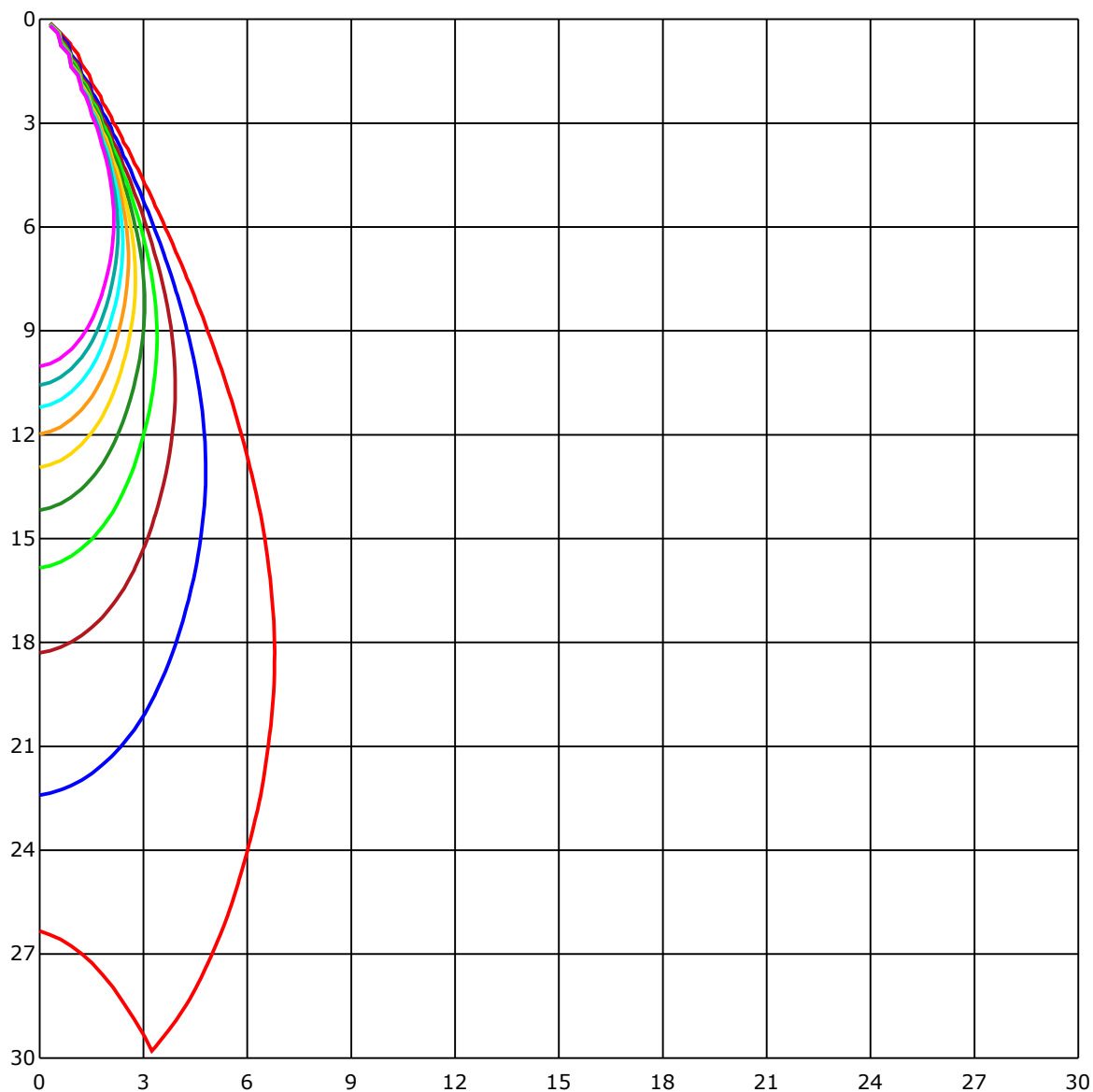
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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: 2025/6/30 16:47:13

SPACE ISOLX DIAGRAM



Unit of illumination:lx

46.86	23.43
42.174	18.744
37.488	14.058
32.802	9.372
28.116	4.686

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4707.32	4679.67	4671.46	4712.04	4707.32	4679.67	4671.46	4712.04	4707.32	
G1	4676.08	4694.11	4691.94	4703.74	4726.39	4652.1	4632.28	4708.65	4676.08	
G2	4626.57	4690.43	4697.84	4683.54	4726.06	4601.13	4579.52	4686.04	4626.57	
G3	4560.59	4671.97	4688.21	4645.02	4708.03	4537.13	4508.25	4638.37	4560.59	
G4	4475.26	4637.9	4666.74	4583.67	4664.75	4461.66	4417.72	4572.53	4475.26	
G5	4371.8	4580.6	4623.64	4511.74	4610.57	4368.07	4314.41	4495.46	4371.8	
G6	4263.82	4511.13	4561.86	4422.73	4538.27	4260.94	4204.96	4400.4	4263.82	
G7	4128.83	4421.03	4478.56	4319.7	4459.78	4143.13	4078.52	4297.42	4128.83	
G8	3995.5	4317.76	4388.79	4207.08	4367.13	4018.96	3930.46	4179.52	3995.5	
G9	3840.7	4204.72	4281.51	4075.17	4256.78	3871.8	3783.26	4039.72	3840.7	
G10	3668.62	4074.79	4167.77	3940.33	4138.84	3723.22	3628.45	3892.9	3668.62	
G11	3497.34	3938.16	4038.54	3796.52	4000.32	3568.61	3467.13	3734.74	3497.34	
G12	3324.08	3783.68	3896.77	3638.22	3863.59	3407.99	3294.67	3574.79	3324.08	
G13	3141.62	3636.19	3748.33	3471.99	3707.65	3245.31	3126.75	3406.91	3141.62	
G14	2963.4	3475.25	3590.79	3306.62	3553.79	3079.08	2959.01	3234.4	2963.4	
G15	2793.02	3293.64	3432.21	3134.39	3387.32	2912.43	2784.9	3059.63	2793.02	
G16	2630.05	3126.37	3267.06	2967.03	3223.03	2745.96	2604.94	2896.24	2630.05	
G17	2452.68	2945.7	3102.44	2792.36	3055.86	2578.08	2441.35	2719.06	2452.68	
G18	2290.7	2781.12	2938.53	2625.66	2884.72	2416.53	2266.44	2546.23	2290.7	
G19	2129.24	2608.81	2771.5	2462.36	2716.89	2256.48	2099.51	2385.1	2129.24	
G20	1962.64	2443.2	2607.44	2301.84	2557.36	2088.98	1928.98	2222.93	1962.64	
G21	1793.67	2281.12	2442.63	2144.16	2396.9	1926.77	1756.72	2056.23	1793.67	
G22	1617.25	2119.8	2284.24	1992.75	2240.2	1758.65	1581.1	1885.56	1617.25	
G23	1439.84	1957.4	2130.23	1835.87	2085.02	1589.45	1406.42	1715.89	1439.84	
G24	1267.66	1794.62	1971.13	1681.01	1930.16	1419.26	1233.26	1543.06	1267.66	
G25	1083.59	1626.41	1812.41	1517.38	1769.84	1247.79	1060.66	1364.98	1083.59	
G26	911.28	1453.43	1648.54	1349.69	1608.85	1076.99	890.56	1187.85	911.28	
G27	751.23	1280.55	1484.11	1179.31	1440.21	908.92	735.71	1011.71	751.23	
G28	599.59	1104.74	1311.32	1008.79	1268.75	750.43	591.24	841.28	599.59	
G29	466.73	935.87	1141.32	842.89	1096.2	608.23	467.3	684.73	466.73	
G30	358.32	776.72	973.62	688.65	927.89	481.97	365.4	545.17	358.32	
G31	270.58	629.23	818.21	548.81	769.92	378.05	284.22	426.85	270.58	
G32	200.87	499.67	669.11	426.85	623.33	292.38	217.96	328.07	200.87	
G33	148.81	389.23	535.26	327.26	490.09	224.8	166.61	249.53	148.81	
G34	109.5	298.52	422.79	247.55	380.27	172.84	126.06	190.2	109.5	
G35	81.89	228.24	329.86	187.23	289.93	133.38	95.38	144.94	81.89	
G36	62.82	172.6	256.14	141.26	220.03	103.69	73.49	111.81	62.82	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	49.32	130.88	198.75	105.72	167.08	82.26	58.0	87.69	49.32	
G38	40.4	98.78	152.59	79.86	126.82	67.11	45.83	71.22	40.4	
G39	34.03	75.18	118.51	61.5	98.26	56.45	38.09	59.23	34.03	
G40	29.21	58.34	92.98	48.52	78.3	47.72	31.91	50.26	29.21	
G41	25.34	46.68	74.71	39.65	64.61	41.58	27.09	43.28	25.34	
G42	22.51	38.47	61.64	33.46	54.98	36.58	23.46	38.04	22.51	
G43	20.11	32.47	52.34	28.51	47.1	32.9	20.63	33.65	20.11	
G44	18.22	27.89	44.65	24.83	41.49	29.64	18.27	30.44	18.22	
G45	16.47	24.4	38.98	21.95	36.96	27.0	16.47	27.56	16.47	
G46	14.91	21.24	34.45	19.68	33.42	24.68	14.63	25.11	14.91	
G47	13.26	19.07	30.96	17.89	30.35	22.75	13.22	23.03	13.26	
G48	12.08	16.85	28.03	16.09	27.99	20.96	11.8	21.29	12.08	
G49	10.86	15.29	25.72	14.63	25.77	19.3	10.62	19.59	10.86	
G50	9.96	13.83	23.46	13.36	23.74	17.79	9.44	17.98	9.96	
G51	8.87	12.46	21.71	12.08	21.85	16.33	8.31	16.33	8.87	
G52	7.83	11.23	19.82	10.95	20.2	15.1	7.46	15.1	7.83	
G53	6.89	10.1	18.31	9.86	18.6	13.88	6.56	13.83	6.89	
G54	6.28	8.97	16.71	8.97	17.27	12.7	5.9	12.55	6.28	
G55	5.43	8.12	15.48	8.02	15.86	11.85	5.0	11.61	5.43	
G56	4.58	7.17	14.3	7.27	14.73	10.86	4.29	10.67	4.58	
G57	3.87	6.47	13.17	6.56	13.55	9.77	3.73	9.58	3.87	
G58	3.26	5.57	12.13	5.81	12.65	8.83	3.16	8.68	3.26	
G59	2.74	4.86	11.14	5.05	11.47	8.12	2.55	7.79	2.74	
G60	2.03	4.15	10.01	4.44	10.52	7.27	1.79	7.08	2.03	
G61	1.42	3.4	9.01	3.68	9.53	6.56	1.23	6.23	1.42	
G62	0.99	2.69	8.26	2.97	8.83	5.9	0.9	5.52	0.99	
G63	0.47	2.31	7.55	2.74	7.88	5.29	0.28	5.05	0.47	
G64	0.0	1.75	6.8	2.12	7.27	4.44	0.0	4.34	0.0	
G65	0.0	1.18	6.18	1.56	6.47	3.45	0.0	3.49	0.0	
G66	0.0	0.71	5.33	1.04	5.95	2.45	0.0	2.45	0.0	
G67	0.0	0.14	4.81	0.09	5.0	1.75	0.0	1.84	0.0	
G68	0.0	0.0	3.82	0.0	4.06	1.51	0.0	1.6	0.0	
G69	0.0	0.0	2.64	0.0	2.74	1.42	0.0	1.37	0.0	
G70	0.0	0.0	1.89	0.0	1.94	1.27	0.0	1.27	0.0	
G71	0.0	0.0	1.7	0.0	1.7	1.04	0.0	1.18	0.0	
G72	0.0	0.0	1.51	0.0	1.46	0.99	0.0	1.09	0.0	
G73	0.0	0.0	1.32	0.0	1.23	0.85	0.0	0.99	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:47:13

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: 2025/6/30 16:47:13

Remarks: