

Report No.:

Test Time: 2025/1/7 17:09:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H57-24°-10W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 53 mm

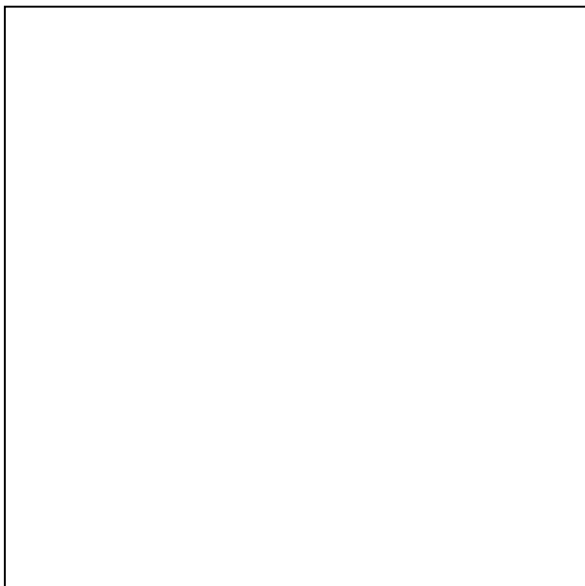
Voltage(V): 220.00 V
Current(A): 0.0530 A
Power(W): 10.85 W
Power Factor: 0.9140
Lamp Luminous Flux: 1127.24

Photometric Results

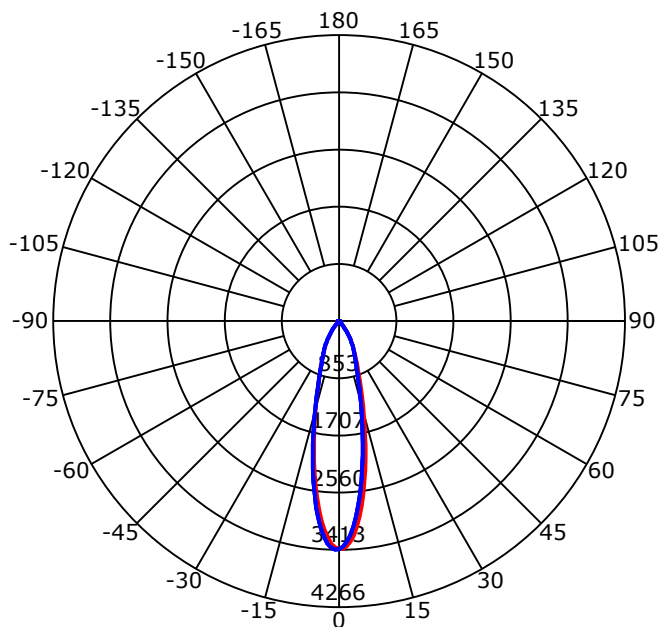
CIE Class: Direct
Luminaire Luminous Flux: 1127.243 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.86 lm/W
Beam Angle(50%) C0-180,C90-270: 25.8,24.8
Field Angle(10%) C0-180,C90-270: 62.5,62.8
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 3413.11 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3399.59 cd
Effective Luminous Flux: 938.29 lm
ERP(ϕ use)(120deg): 1109.05 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.8 deg,24.8 deg

C0-180 — C90-270

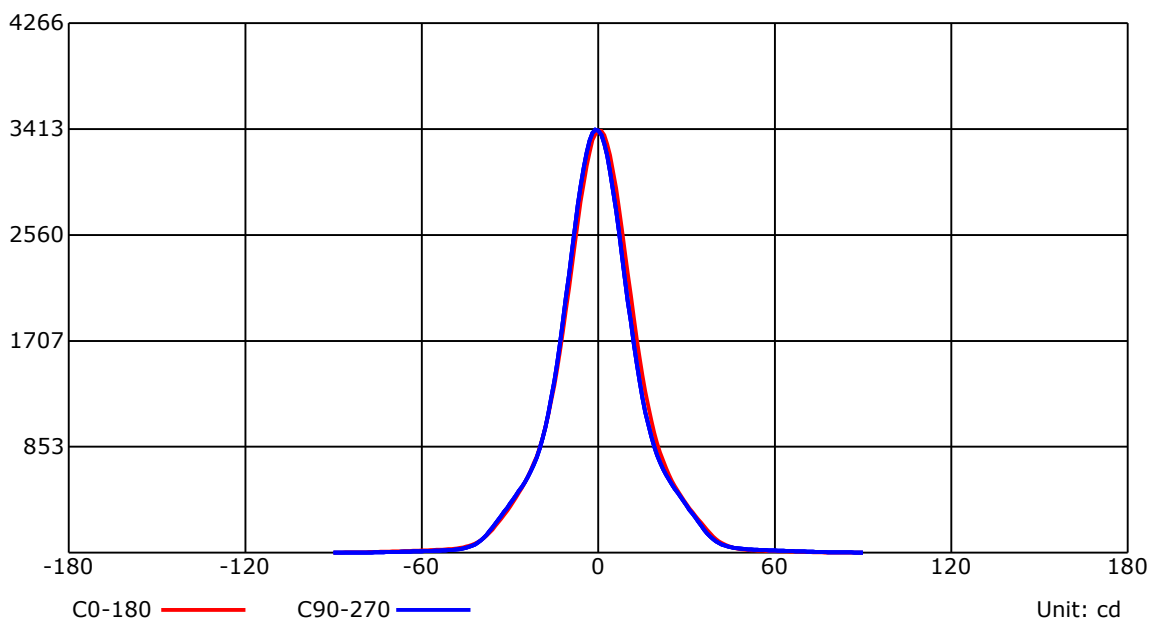
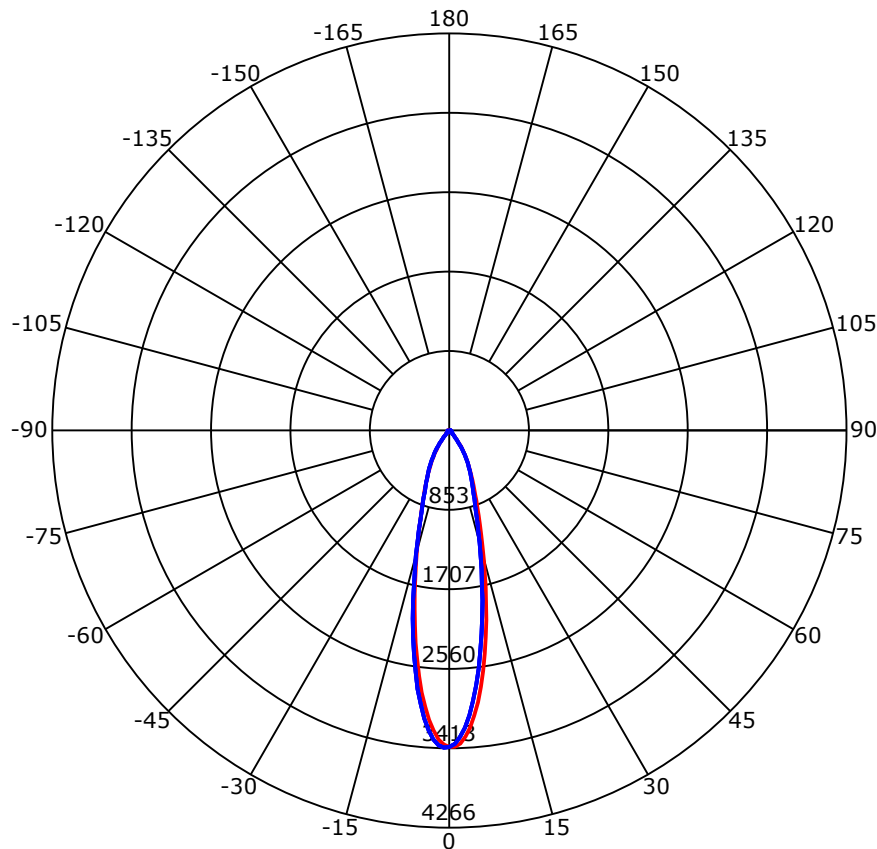
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



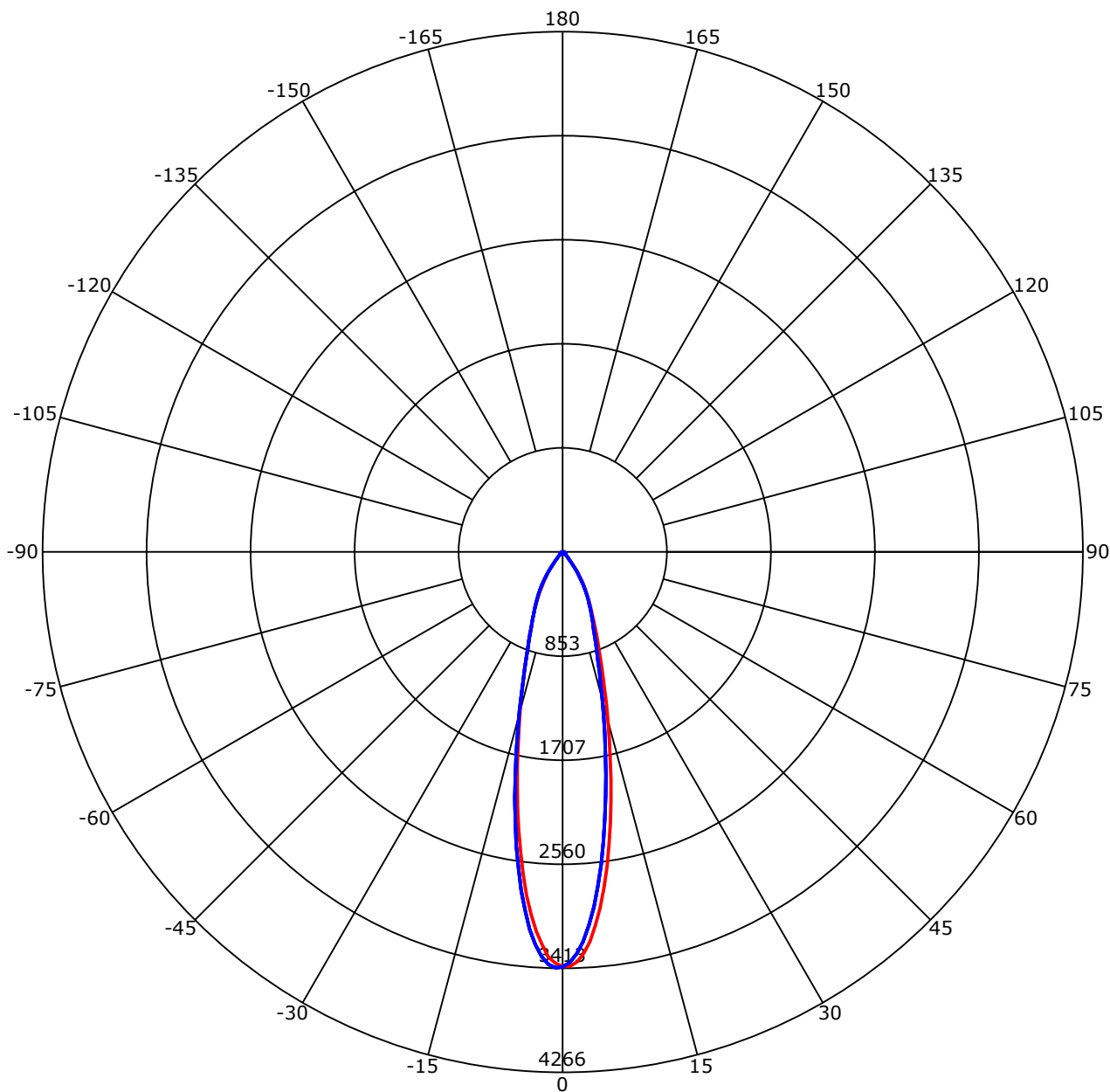
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Temperature: 25
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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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: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

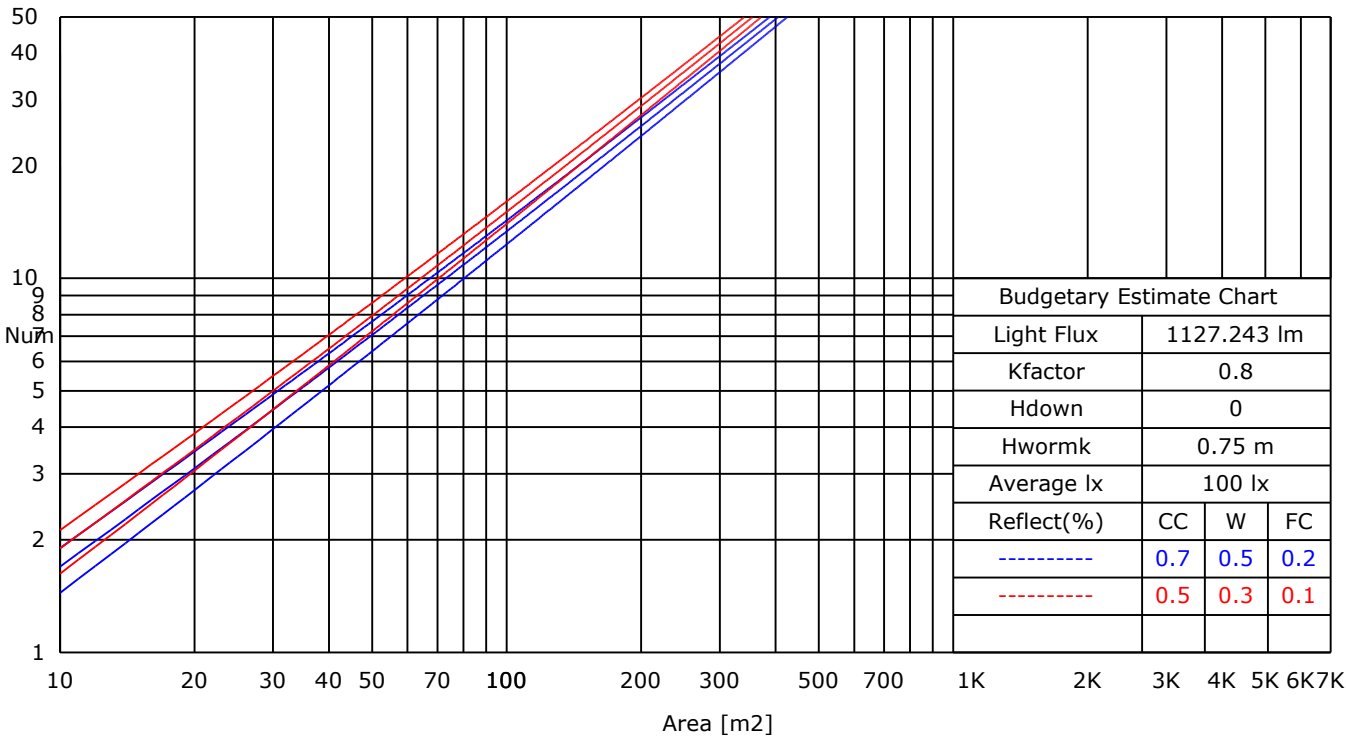
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.70
2	0.91	0.88	0.86	0.90	0.87	0.85	0.88	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.87	0.85	0.83	0.86	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
6	0.78	0.77	0.75	0.78	0.75	0.74	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.66	0.63	0.59
7	0.76	0.74	0.73	0.75	0.73	0.72	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.58
8	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.70	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.70	0.69	0.68	0.70	0.68	0.66	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



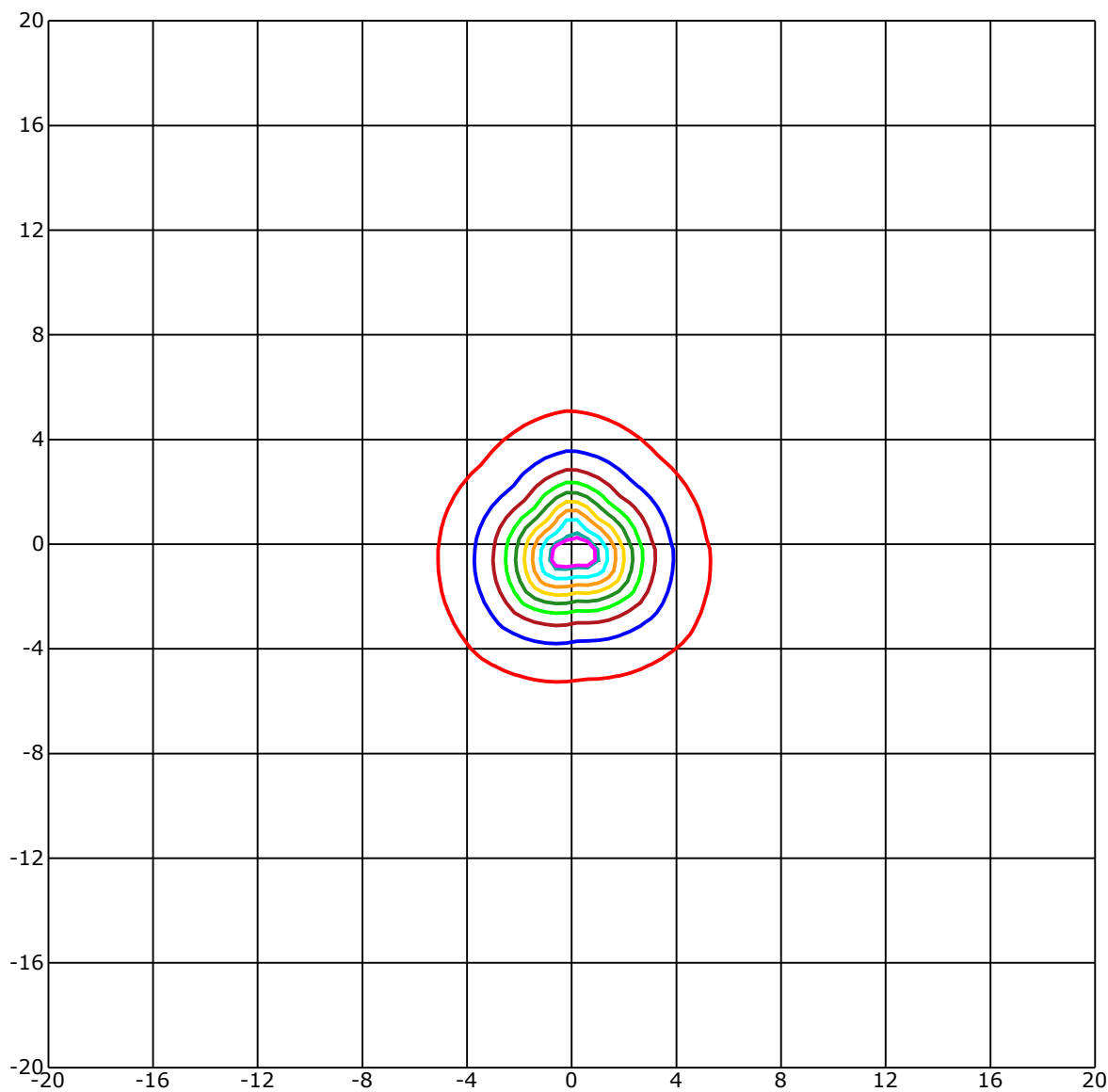
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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ISOLX DIAGRAM



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

31.344(92%Emax)	17.035(50%Emax)
30.662(90%Emax)	13.628(40%Emax)
27.255(80%Emax)	10.221(30%Emax)
23.848(70%Emax)	6.814(20%Emax)
20.441(60%Emax)	3.407(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:09:05

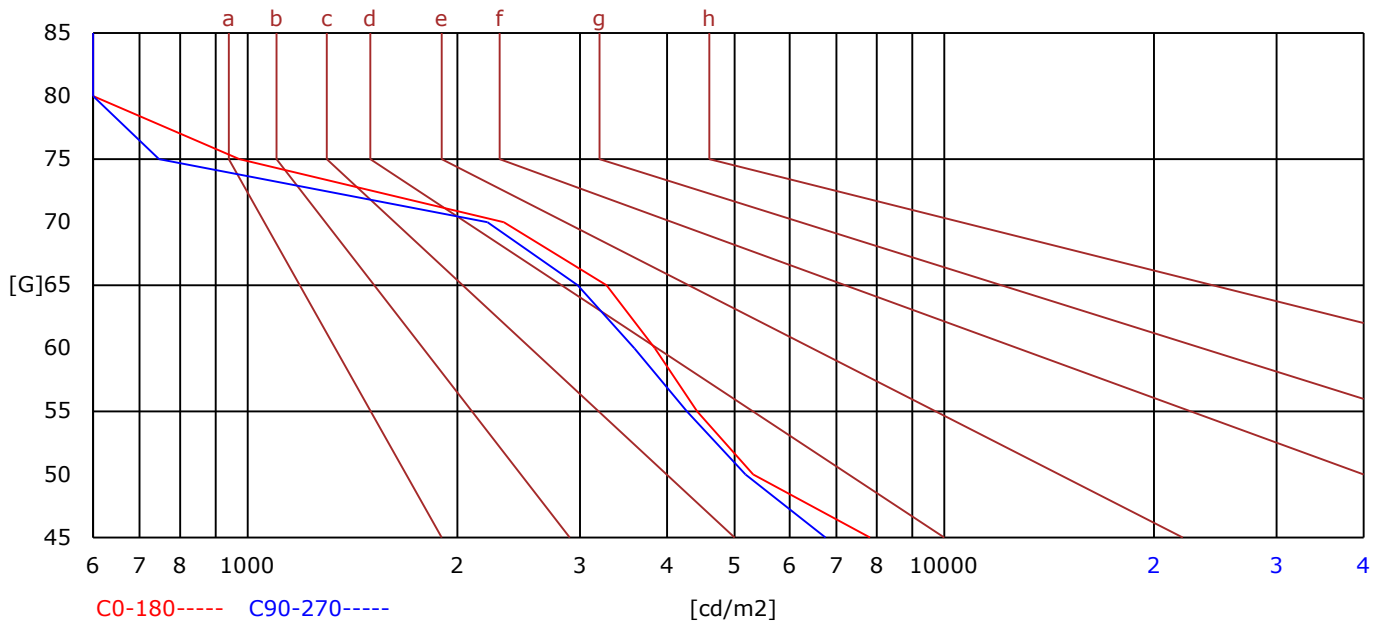
G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7823	5315	4420	3845	3277	2332	973	48	0
C90	6755	5185	4274	3593	2979	2209	746	97	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



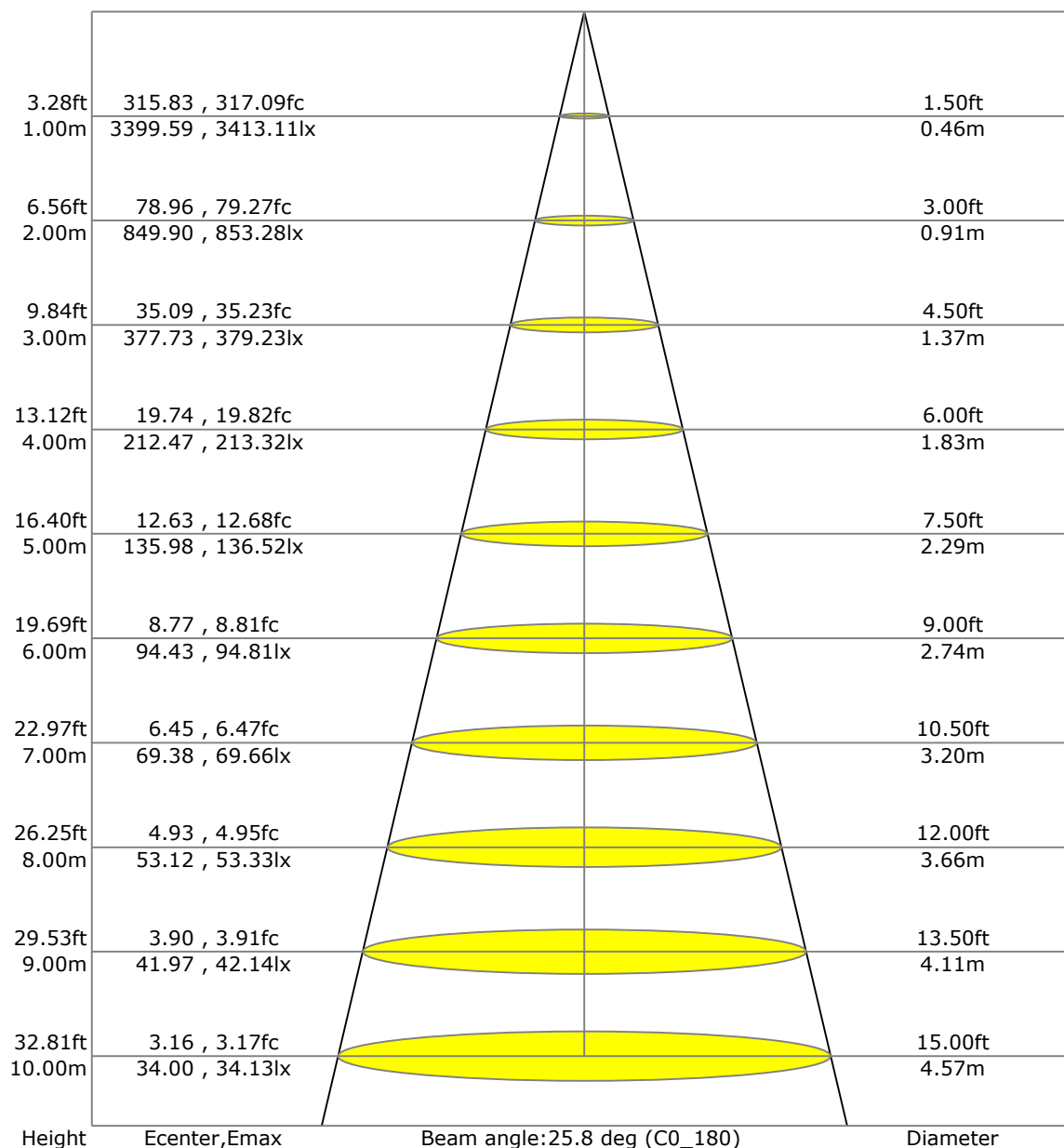
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.78 m
 Remarks:

Report No.:

Test Time: 2025/1/7 17:09:05

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	9.91	9.97	10.11	10.16	10.40	10.06	10.12	10.26	10.31	10.55
	3H	9.92	9.98	10.13	10.17	10.42	10.06	10.12	10.27	10.31	10.56
	4H	9.91	9.97	10.12	10.17	10.42	10.05	10.10	10.26	10.30	10.55
	6H	9.90	9.96	10.11	10.16	10.41	10.03	10.09	10.25	10.29	10.54
	8H	9.89	9.95	10.11	10.15	10.40	10.02	10.08	10.24	10.28	10.53
	12H	9.88	9.94	10.10	10.14	10.40	10.01	10.07	10.23	10.27	10.53
4H	2H	10.23	10.28	10.44	10.48	10.73	10.64	10.70	10.85	10.89	11.14
	3H	10.24	10.30	10.46	10.51	10.76	10.64	10.70	10.87	10.91	11.16
	4H	10.23	10.29	10.46	10.50	10.76	10.63	10.68	10.86	10.90	11.16
	6H	10.21	10.27	10.45	10.49	10.75	10.60	10.66	10.84	10.88	11.15
	8H	10.20	10.25	10.44	10.48	10.75	10.59	10.65	10.83	10.87	11.14
	12H	10.19	10.24	10.43	10.47	10.74	10.58	10.63	10.83	10.86	11.13
8H	4H	10.21	10.27	10.43	10.47	10.73	10.76	10.82	10.98	11.02	11.28
	6H	10.18	10.24	10.44	10.47	10.75	10.75	10.80	11.00	11.04	11.31
	8H	10.17	10.22	10.43	10.47	10.74	10.73	10.78	10.99	11.03	11.30
	12H	10.16	10.20	10.43	10.46	10.74	10.71	10.76	10.98	11.02	11.30
12H	4H	10.19	10.25	10.44	10.48	10.75	10.84	10.90	11.09	11.13	11.40
	6H	10.17	10.22	10.43	10.46	10.74	10.82	10.87	11.09	11.12	11.40

C Range: 0 - 360 Deg
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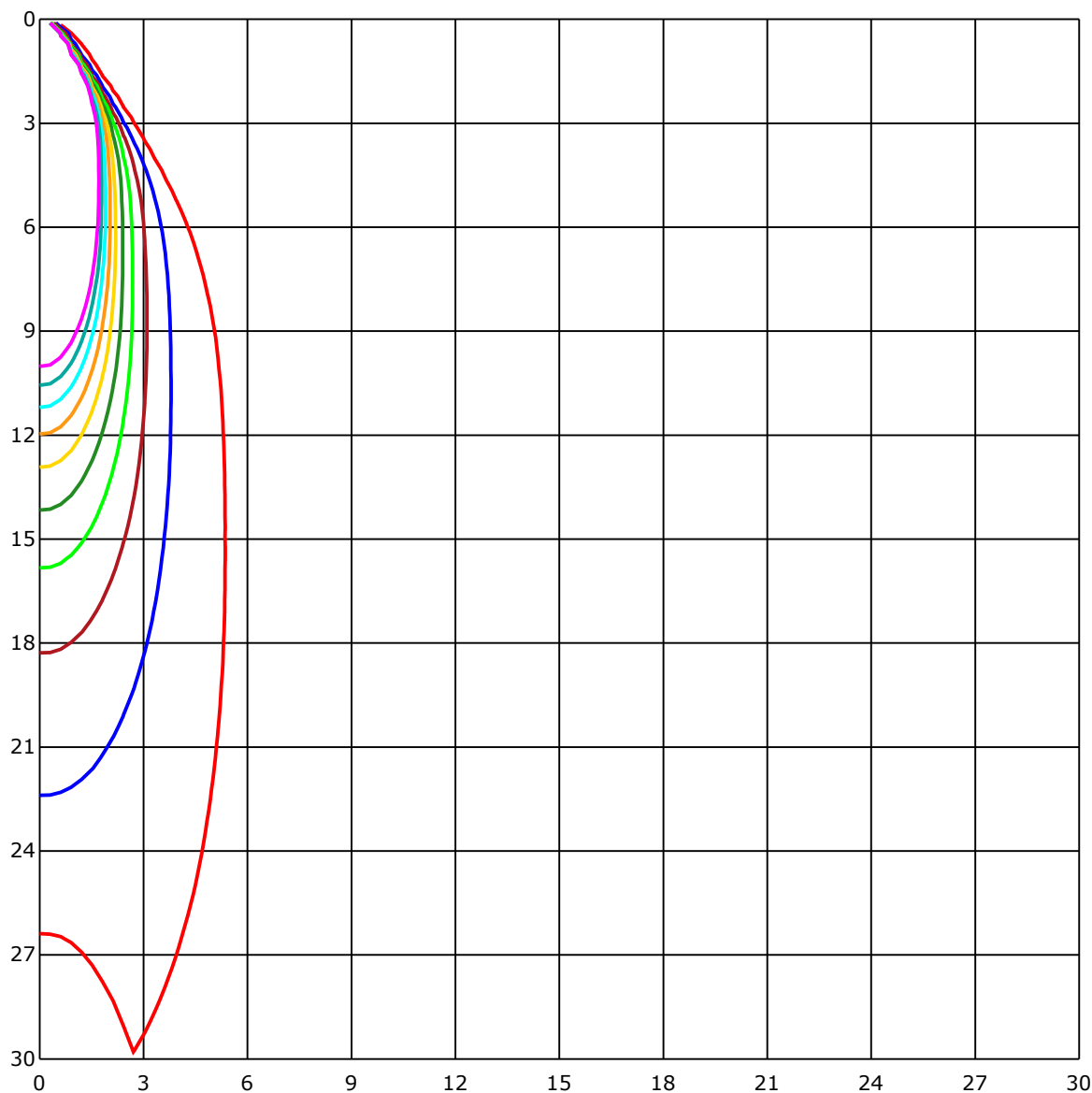
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

G Range: 0 - 90 Deg
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SPACE ISOLX DIAGRAM



33.907	16.954
30.516	13.563
27.126	10.172
23.735	6.781
20.344	3.391

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3399.59	3310.32	3401.66	3260.63	3399.59	3310.32	3401.66	3260.63	3399.59	
G1	3396.97	3224.55	3365.99	3150.4	3373.21	3378.08	3408.47	3344.75	3396.97	
G2	3363.28	3097.95	3293.54	3020.58	3324.8	3412.46	3382.26	3390.91	3363.28	
G3	3293.13	2962.34	3199.45	2865.49	3225.79	3413.11	3321.26	3410.44	3293.13	
G4	3200.73	2798.65	3066.83	2695.86	3117.03	3380.43	3223.9	3390.86	3200.73	
G5	3074.14	2628.89	2920.97	2515.12	2980.13	3316.25	3105.53	3343.56	3074.14	
G6	2935.27	2454.25	2756.17	2327.33	2829.82	3215.81	2954.11	3260.45	2935.27	
G7	2773.87	2270.29	2581.77	2140.06	2660.47	3096.2	2798.37	3143.09	2773.87	
G8	2606.73	2090.51	2395.28	1956.23	2486.16	2953.24	2612.57	3007.85	2606.73	
G9	2427.55	1917.48	2209.89	1780.72	2309.64	2801.13	2432.92	2860.94	2427.55	
G10	2254.57	1748.87	2029.37	1617.54	2130.31	2630.86	2242.2	2691.04	2254.57	
G11	2074.19	1591.79	1859.51	1459.77	1956.6	2459.49	2058.6	2510.66	2074.19	
G12	1900.29	1440.83	1685.62	1316.35	1787.3	2274.84	1874.32	2326.19	1900.29	
G13	1729.93	1307.25	1530.84	1189.02	1629.76	2095.88	1695.73	2142.59	1729.93	
G14	1576.9	1187.18	1385.53	1074.74	1484.83	1916.19	1529.74	1964.87	1576.9	
G15	1430.63	1077.73	1250.16	971.27	1346.51	1751.4	1382.04	1793.73	1430.63	
G16	1297.96	978.94	1131.47	883.51	1222.53	1594.69	1246.3	1631.24	1297.96	
G17	1174.54	892.57	1028.5	806.19	1111.01	1446.99	1120.2	1477.98	1174.54	
G18	1065.32	814.15	933.8	739.59	1011.54	1307.43	1010.43	1340.99	1065.32	
G19	966.35	748.6	853.45	681.8	921.21	1185.48	917.94	1214.35	966.35	
G20	881.03	689.3	785.05	632.39	844.44	1074.65	836.03	1098.0	881.03	
G21	807.71	639.05	727.17	588.67	775.35	979.86	767.58	998.89	807.71	
G22	741.56	591.25	672.47	549.0	716.65	893.4	705.84	914.13	741.56	
G23	681.16	549.09	628.34	511.44	662.17	821.32	655.56	839.43	681.16	
G24	628.3	506.76	588.07	476.88	613.26	756.0	609.08	774.38	628.3	
G25	579.29	468.1	549.23	441.66	566.84	698.58	568.22	717.61	579.29	
G26	537.92	430.08	513.56	408.43	525.46	646.22	531.58	669.44	537.92	
G27	496.18	395.6	479.54	375.42	482.85	599.11	497.75	623.75	496.18	
G28	459.73	361.04	445.66	342.88	445.25	554.15	462.81	581.18	459.73	
G29	423.14	327.94	413.3	310.15	409.35	514.06	429.62	541.65	423.14	
G30	388.98	295.9	378.6	278.84	373.36	475.04	396.71	505.33	388.98	
G31	356.44	266.48	344.99	247.59	338.05	437.62	362.78	467.96	356.44	
G32	325.46	237.98	312.26	217.89	305.32	400.48	329.78	433.53	325.46	
G33	295.21	210.44	281.05	188.98	274.57	366.14	297.23	398.78	295.21	
G34	267.63	182.72	249.19	158.68	245.79	331.89	265.38	364.3	267.63	
G35	239.96	155.74	217.34	130.92	216.14	299.81	234.53	330.74	239.96	
G36	212.42	131.24	183.92	107.84	187.46	268.73	204.61	297.37	212.42	

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: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	182.82	110.14	154.41	88.86	159.83	239.63	173.16	265.1	182.82	
G38	155.14	92.63	128.67	74.06	137.12	209.25	143.56	233.43	155.14	
G39	130.83	78.33	107.89	62.1	116.39	180.84	118.51	200.56	130.83	
G40	110.19	65.92	90.79	52.13	99.57	153.95	97.54	169.53	110.19	
G41	92.21	55.62	76.91	43.62	85.82	130.6	80.08	142.5	92.21	
G42	77.59	46.7	65.41	37.46	73.73	110.83	66.24	119.24	77.59	
G43	64.82	40.31	56.5	32.64	63.62	93.91	55.21	100.12	64.82	
G44	54.98	34.75	49.28	29.28	55.44	80.08	46.34	84.44	54.98	
G45	46.34	30.29	43.58	26.16	48.77	69.0	39.53	71.57	46.34	
G46	39.9	26.89	39.12	24.0	43.12	59.85	34.25	61.55	39.9	
G47	34.38	24.18	35.72	22.16	38.71	52.36	30.11	53.55	34.38	
G48	29.74	22.06	33.05	20.59	35.3	45.83	26.94	46.8	29.74	
G49	26.2	20.23	30.89	19.44	32.5	40.96	24.41	41.79	26.2	
G50	23.54	18.71	29.05	18.25	30.11	36.96	22.39	37.65	23.54	
G51	21.42	17.56	27.4	17.1	28.18	33.88	20.96	34.48	21.42	
G52	19.81	16.41	25.93	16.09	26.66	31.4	19.58	31.95	19.81	
G53	18.3	15.54	24.78	15.22	25.14	29.24	18.3	29.88	18.3	
G54	17.24	14.62	23.31	14.43	24.04	27.4	17.28	28.13	17.24	
G55	16.18	13.88	22.29	13.42	22.71	25.97	16.46	26.52	16.18	
G56	15.35	13.06	21.15	12.69	21.7	24.5	15.49	25.33	15.35	
G57	14.48	12.37	20.23	11.91	20.55	23.44	14.62	23.95	14.48	
G58	13.97	11.68	19.35	11.26	19.58	22.11	13.74	22.8	13.97	
G59	13.06	11.12	18.3	10.53	18.71	21.15	12.96	21.79	13.06	
G60	12.41	10.53	17.56	9.84	17.84	20.13	12.23	20.59	12.41	
G61	11.68	9.84	16.73	9.19	16.96	19.31	11.68	19.49	11.68	
G62	11.17	9.19	15.72	8.6	16.23	18.25	10.89	18.71	11.17	
G63	10.34	8.69	14.99	8.04	15.4	17.56	10.3	17.84	10.34	
G64	9.84	8.09	14.16	7.49	14.62	16.59	9.52	17.15	9.84	
G65	9.24	7.58	13.47	6.9	13.88	15.91	8.96	16.13	9.24	
G66	8.55	6.85	12.64	6.21	13.28	14.99	8.32	15.54	8.55	
G67	7.95	6.3	12.0	5.79	12.27	14.25	7.81	14.66	7.95	
G68	7.35	5.65	11.35	5.24	11.63	13.51	7.13	13.88	7.35	
G69	6.8	5.06	10.57	4.64	10.99	12.78	6.57	13.1	6.8	
G70	6.16	4.37	9.84	4.14	10.3	12.14	6.11	12.46	6.16	
G71	5.38	3.72	9.15	3.54	9.47	11.4	5.47	11.72	5.38	
G72	4.78	3.17	8.41	2.85	8.78	10.53	4.83	10.99	4.78	
G73	4.23	2.57	7.68	2.3	7.91	9.93	4.28	10.25	4.23	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:09:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: