

Report No.:

Test Time: 2025/6/9 18:21:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095-38°-28W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

Voltage(V): 219.50 V
Current(A): 0.1280 A
Power(W): 27.46 W
Power Factor: 0.9750
Lamp Luminous Flux: 2591.77

Photometric Results

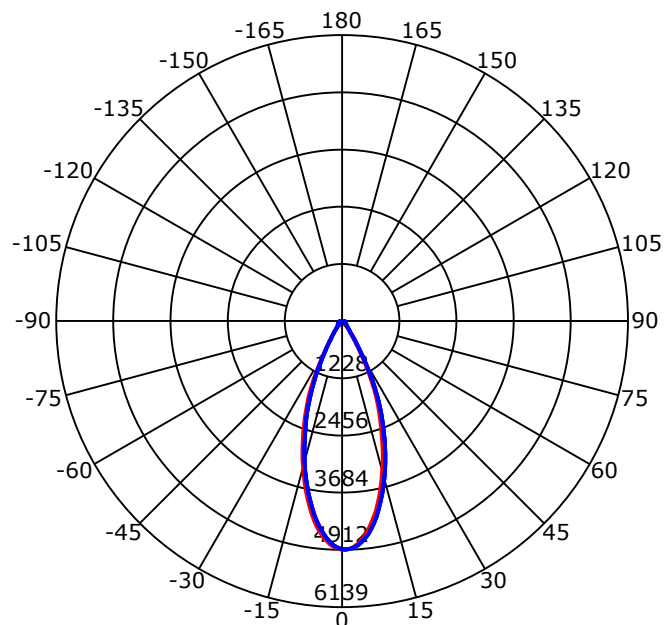
CIE Class: Direct
Luminaire Luminous Flux: 2591.769 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.40 lm/W
Beam Angle(50%) C0-180,C90-270: 39.7,39.9
Field Angle(10%) C0-180,C90-270: 64.9,65.5
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 4911.55 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4908.19 cd
Effective Luminous Flux: 2146.57 lm
ERP(ϕ use)(120deg): 2470.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.7 deg,39.9 deg

C0-180 — C90-270

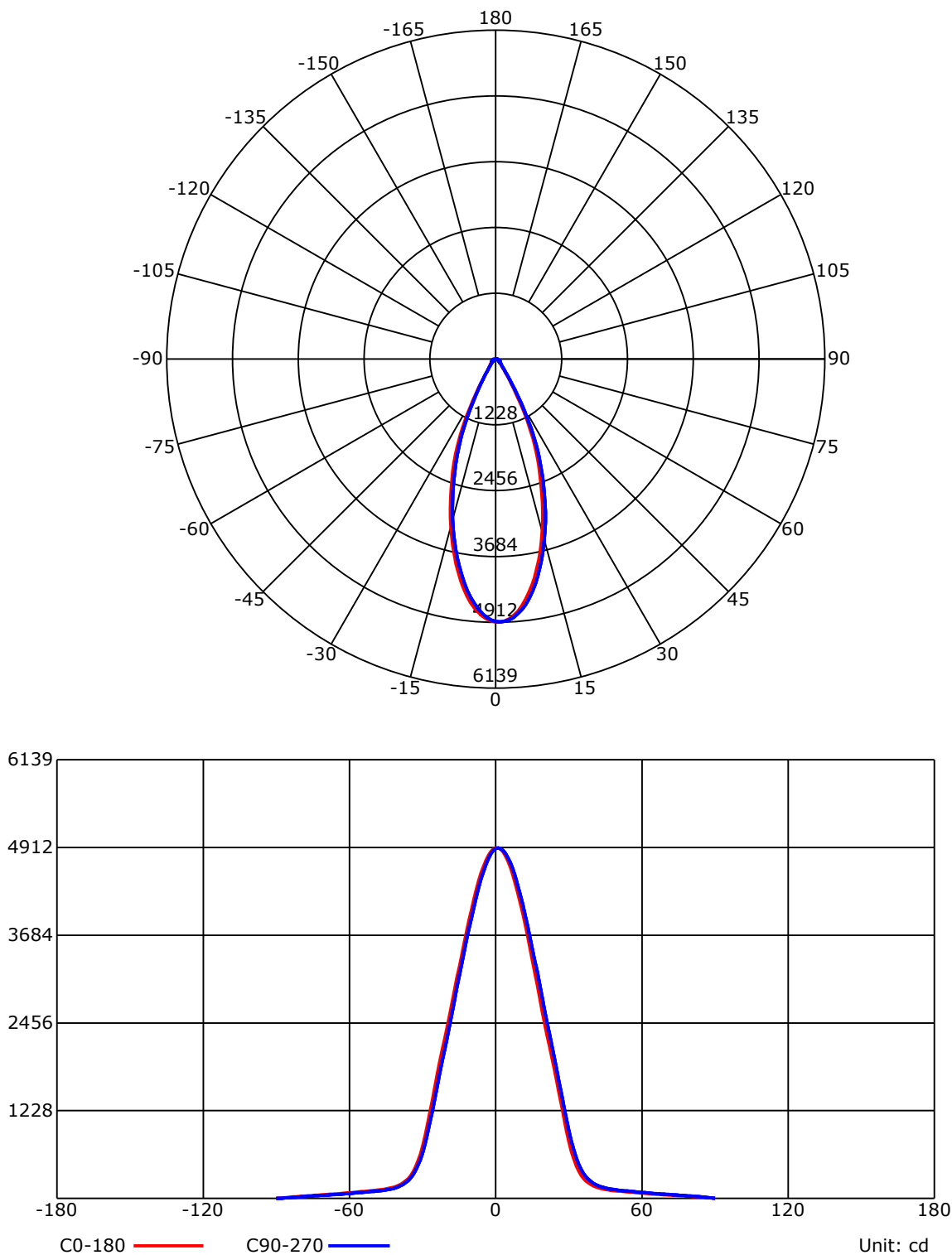
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:21:55

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: 2025/6/9 18:21:55

Luminous Intensity Distribution Curve



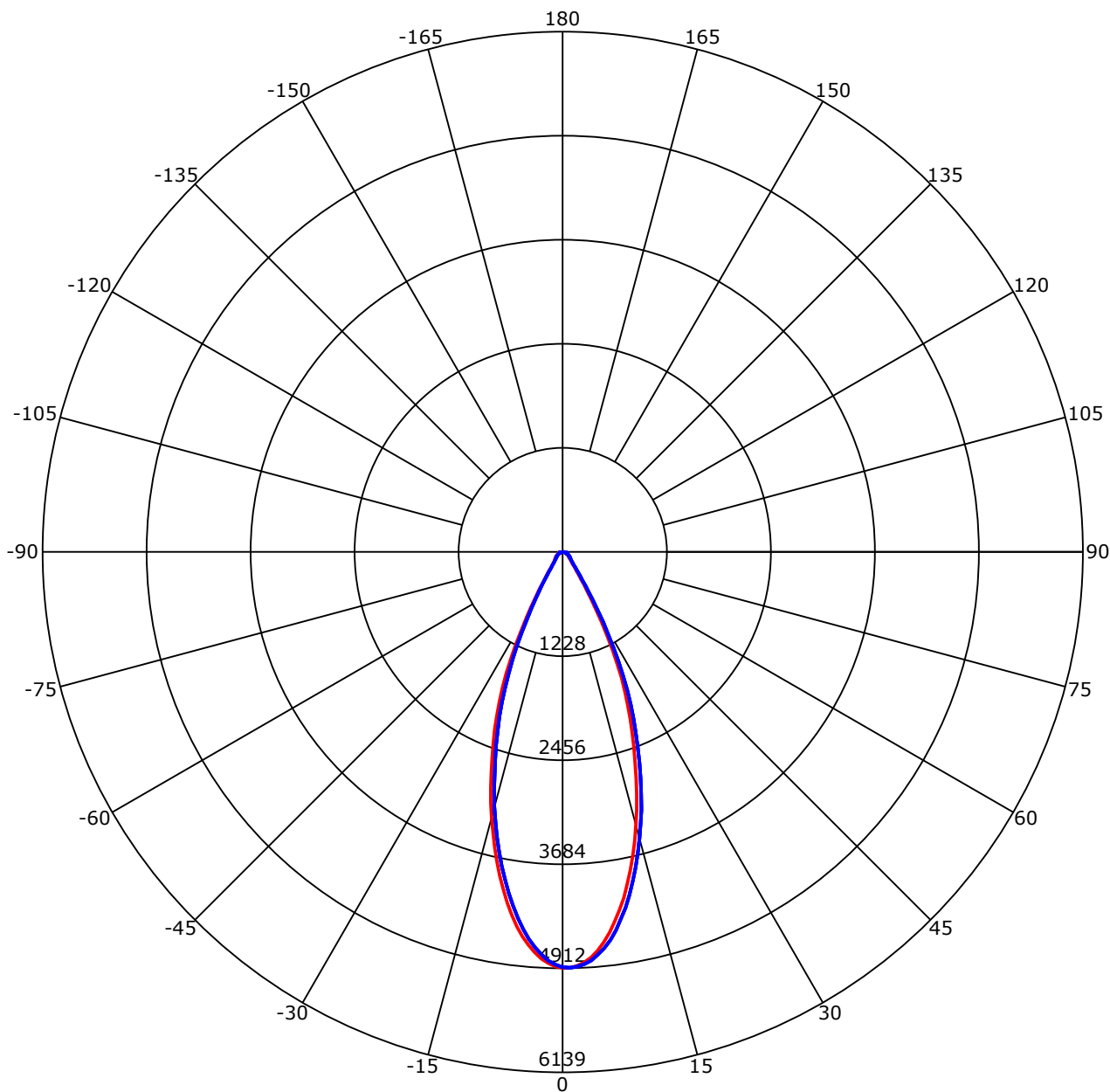
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Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
Remarks:

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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: 2025/6/9 18:21:55

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

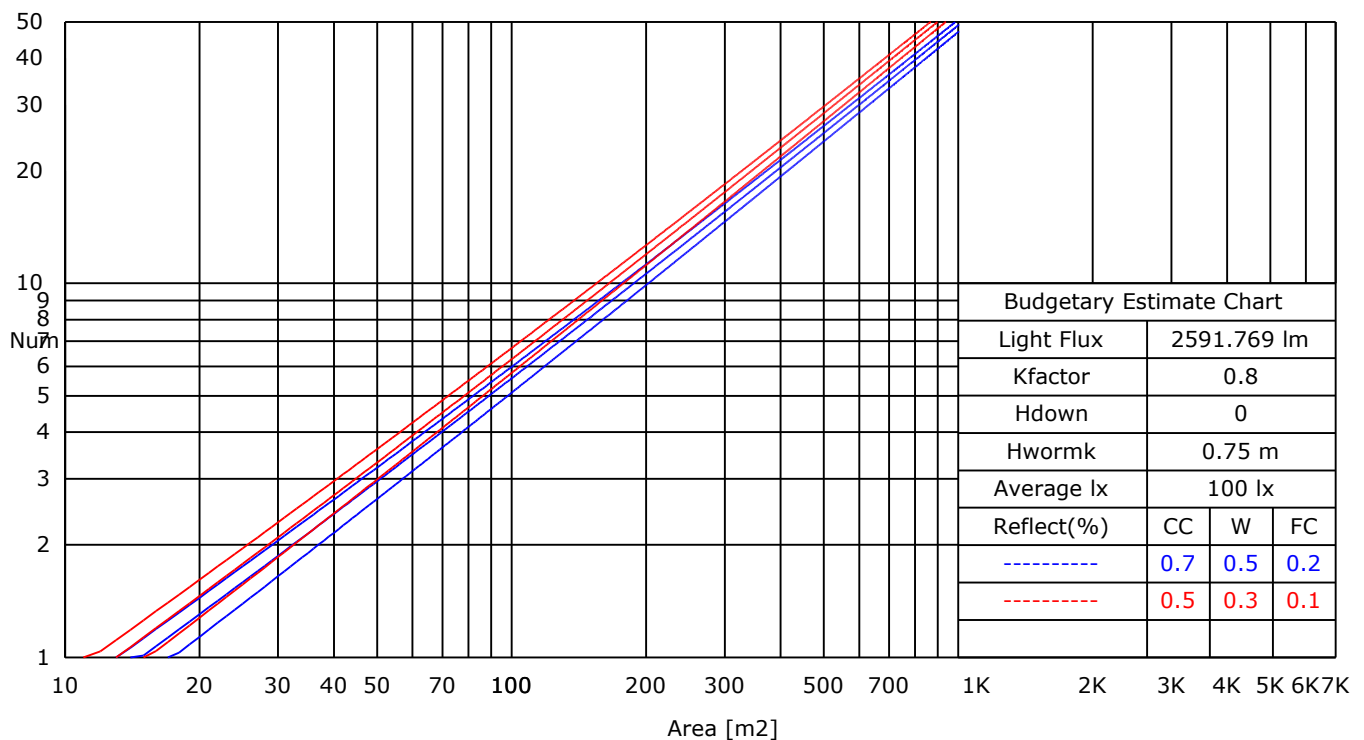
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.89	0.87	0.86	0.83	0.81	0.75
2	0.95	0.93	0.92	0.95	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	0.86	0.84	0.87	0.84	0.82	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.64
6	0.81	0.80	0.79	0.81	0.78	0.77	0.79	0.76	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
8	0.77	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.58
9	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.72	0.71	0.72	0.70	0.69	0.70	0.68	0.66	0.68	0.65	0.62	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



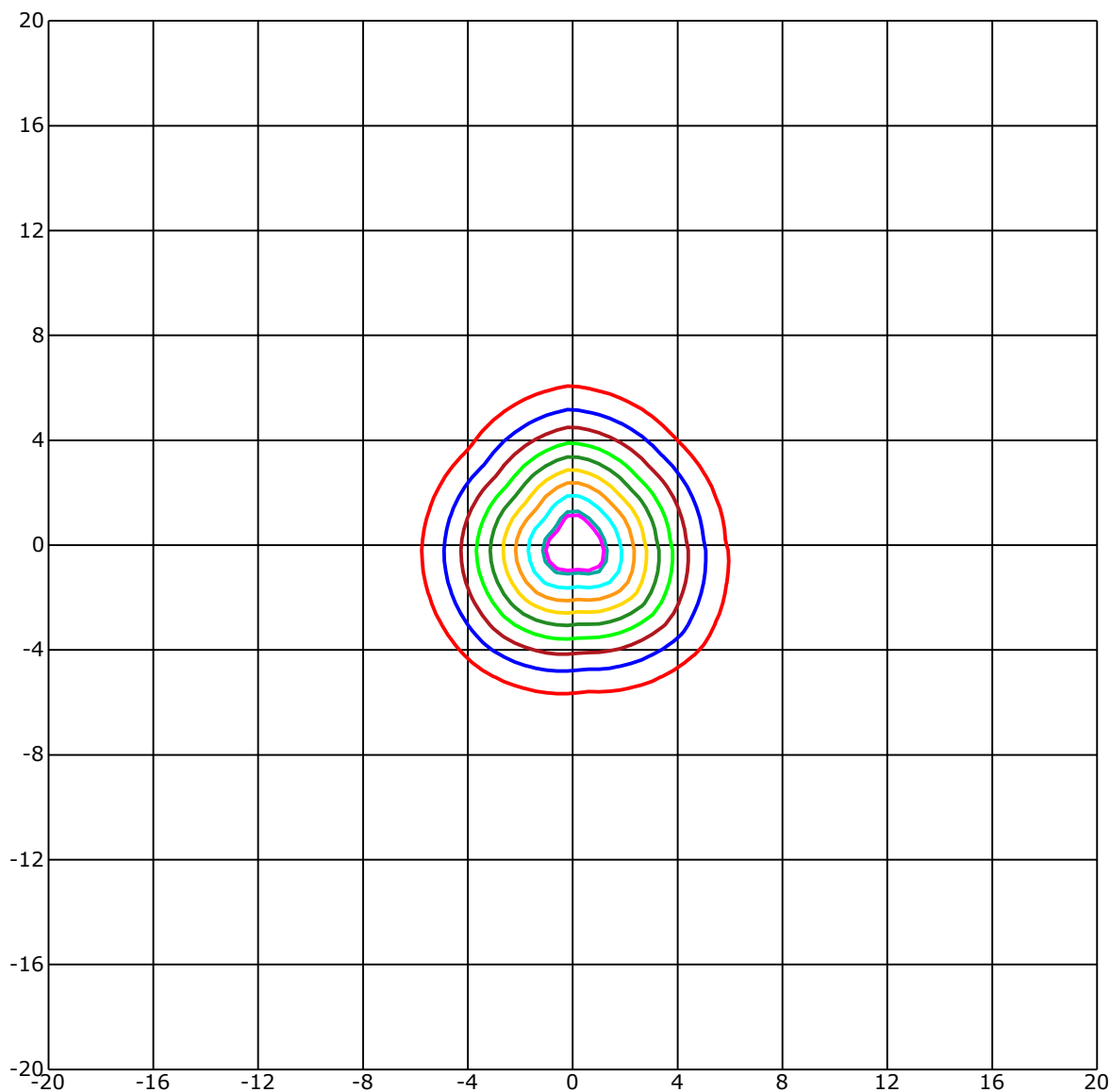
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ISOLX DIAGRAM



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

45.155(92%Emax)	24.541(50%Emax)
44.174(90%Emax)	19.633(40%Emax)
39.266(80%Emax)	14.725(30%Emax)
34.357(70%Emax)	9.816(20%Emax)
29.449(60%Emax)	4.908(10%Emax)

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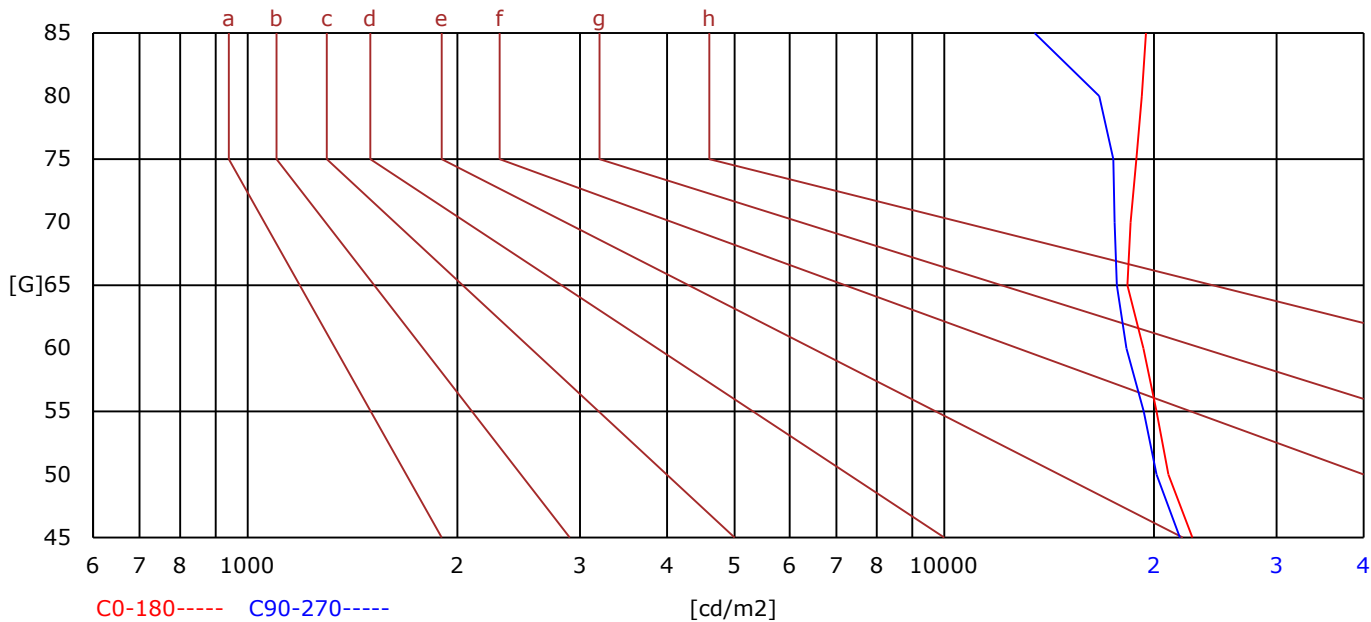
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	22706	20977	20171	19310	18316	18509	18862	19220	19476
C90	21795	20163	19336	18251	17697	17557	17481	16684	13472
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



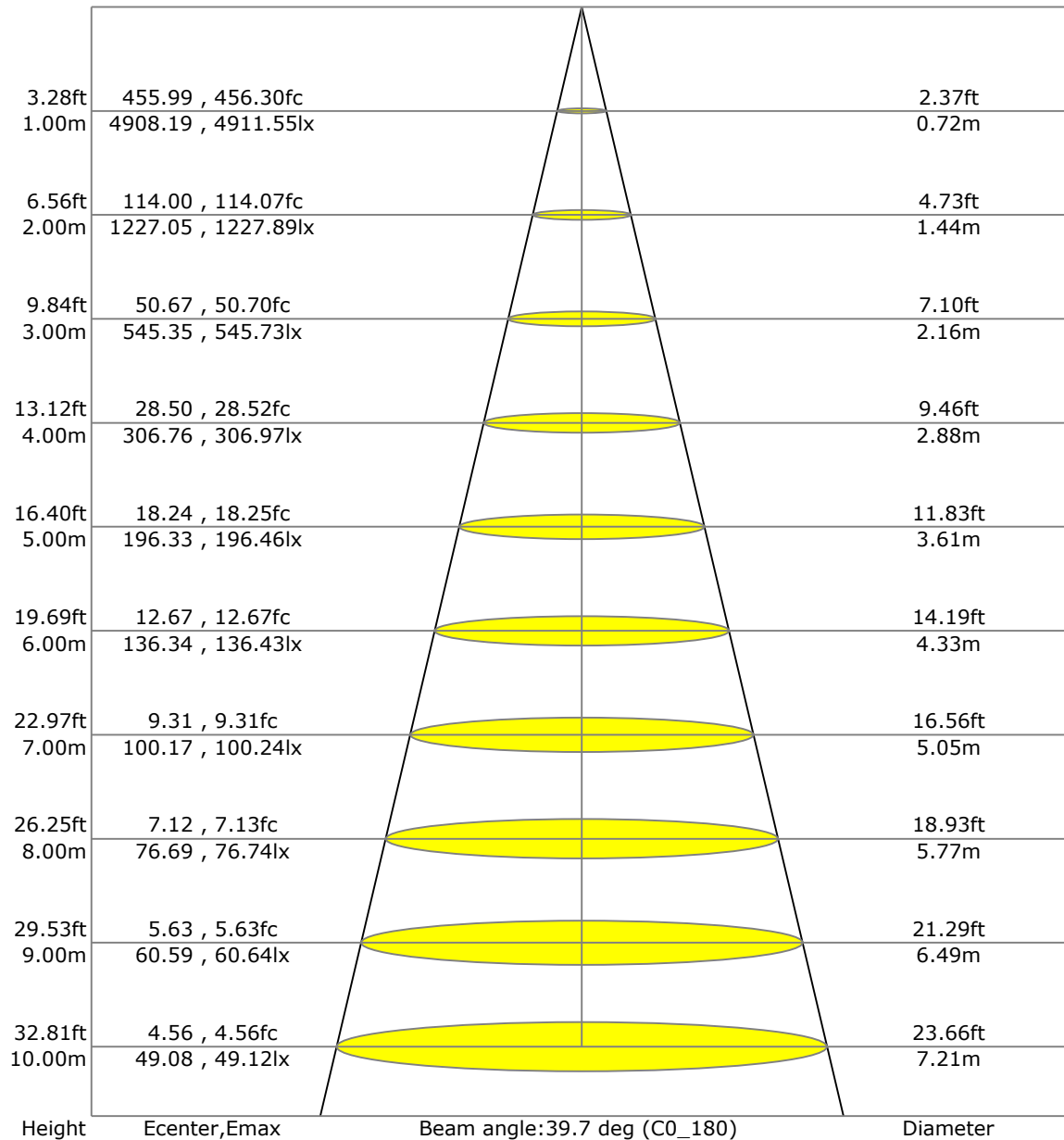
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/9 18:21:55

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	11.40	11.45	11.60	11.64	11.88	11.60	11.65	11.80	11.84	12.08
3H	11.56	11.61	11.76	11.80	12.05	11.73	11.79	11.94	11.98	12.23
4H	11.59	11.64	11.80	11.84	12.09	11.75	11.81	11.96	12.00	12.25
6H	11.59	11.64	11.80	11.84	12.10	11.75	11.80	11.96	12.00	12.26
8H	11.58	11.63	11.80	11.84	12.09	11.74	11.80	11.96	12.00	12.25
12H	11.57	11.62	11.79	11.83	12.09	11.73	11.79	11.95	11.99	12.25
4H 2H	13.40	13.46	13.61	13.65	13.90	13.83	13.88	14.04	14.08	14.33
3H	13.76	13.82	13.99	14.02	14.28	14.15	14.21	14.37	14.41	14.67
4H	13.87	13.92	14.10	14.14	14.39	14.24	14.29	14.46	14.50	14.76
6H	13.92	13.97	14.15	14.19	14.45	14.27	14.32	14.51	14.54	14.81
8H	13.92	13.97	14.17	14.20	14.47	14.27	14.32	14.51	14.55	14.81
12H	13.91	13.97	14.16	14.20	14.47	14.26	14.31	14.51	14.54	14.81
8H 4H	14.09	14.15	14.31	14.35	14.60	14.67	14.73	14.89	14.93	15.18
6H	14.94	14.99	15.20	15.23	15.50	15.46	15.51	15.72	15.75	16.02
8H	14.98	15.03	15.24	15.27	15.55	15.49	15.53	15.75	15.78	16.06
12H	15.00	15.04	15.26	15.29	15.57	15.49	15.54	15.76	15.79	16.07
12H 4H	15.05	15.10	15.30	15.33	15.60	15.68	15.73	15.93	15.97	16.24
6H	15.24	15.28	15.50	15.53	15.81	15.85	15.90	16.12	16.15	16.42

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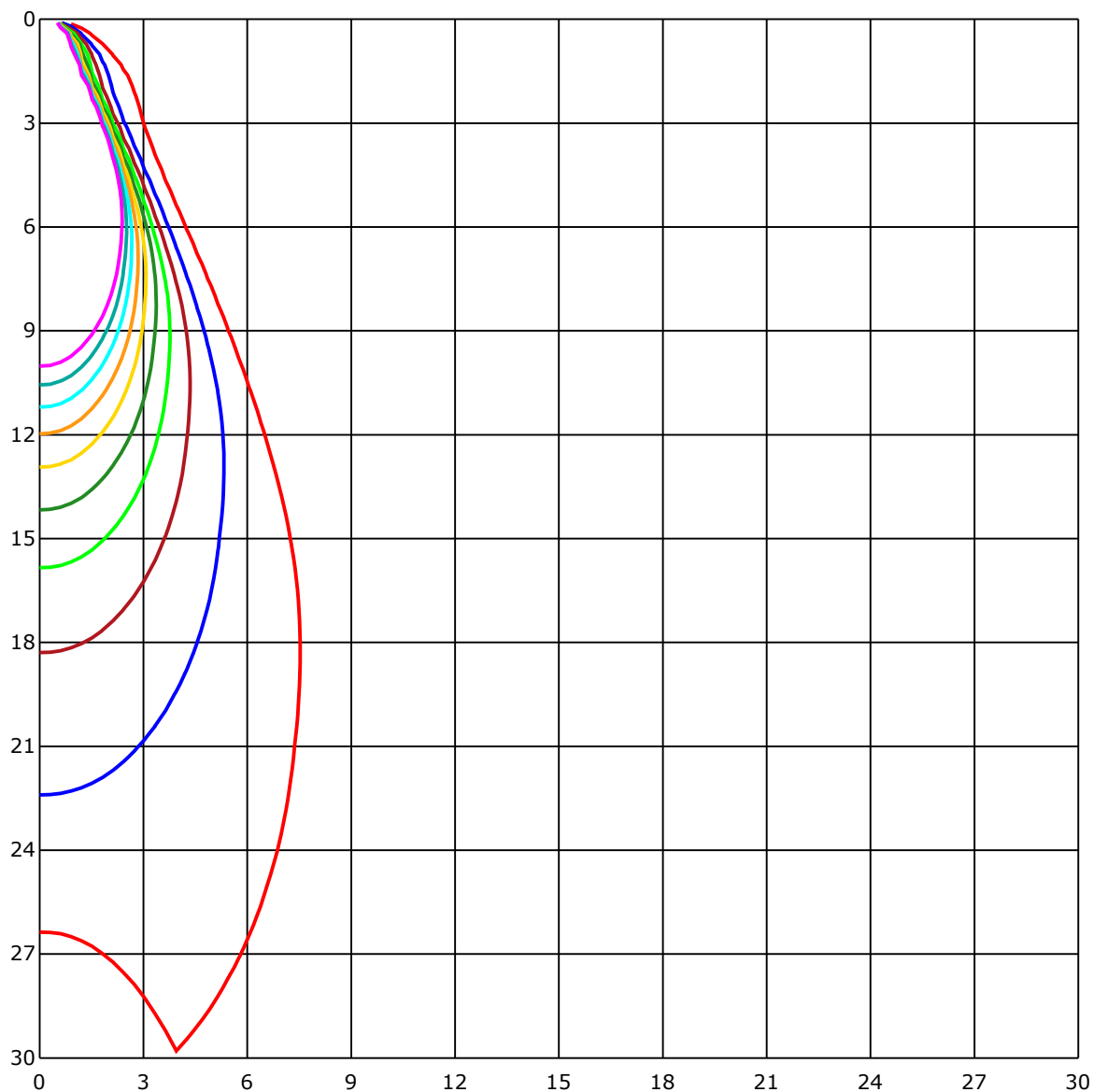
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

48.912

44.021

39.129

34.238

29.347

24.456

19.565

14.674

9.782

4.891

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4908.19	4906.02	4898.0	4868.83	4908.19	4906.02	4898.0	4868.83	4908.19	
G1	4907.11	4886.34	4903.95	4821.4	4890.83	4906.97	4869.87	4896.02	4907.11	
G2	4885.26	4849.2	4894.55	4760.28	4856.51	4888.32	4823.52	4911.55	4885.26	
G3	4848.21	4799.31	4869.68	4684.06	4805.87	4851.79	4756.6	4903.0	4848.21	
G4	4792.89	4728.23	4829.99	4596.65	4735.83	4792.8	4677.97	4877.23	4792.89	
G5	4721.77	4643.23	4769.34	4489.37	4654.94	4725.12	4580.84	4833.39	4721.77	
G6	4631.2	4538.64	4698.36	4367.04	4560.54	4632.9	4473.79	4769.62	4631.2	
G7	4523.63	4423.95	4611.33	4235.21	4451.0	4532.98	4350.52	4694.44	4523.63	
G8	4404.56	4294.59	4507.07	4086.83	4324.46	4414.04	4216.57	4601.42	4404.56	
G9	4276.46	4160.31	4385.96	3941.7	4189.95	4287.46	4071.44	4495.79	4276.46	
G10	4143.18	4010.13	4262.73	3776.65	4042.98	4149.98	3923.2	4381.81	4143.18	
G11	3990.03	3857.45	4122.51	3619.39	3891.72	3995.97	3769.85	4258.95	3990.03	
G12	3839.7	3698.26	3968.98	3446.98	3732.28	3844.28	3614.81	4119.53	3839.7	
G13	3678.29	3520.79	3822.38	3283.11	3574.93	3682.63	3446.55	3975.21	3678.29	
G14	3510.51	3353.2	3659.55	3112.21	3406.11	3521.55	3280.14	3829.46	3510.51	
G15	3335.5	3175.45	3499.13	2934.94	3242.1	3354.57	3113.96	3670.83	3335.5	
G16	3165.54	3005.5	3335.12	2755.64	3079.27	3192.92	2936.5	3510.69	3165.54	
G17	2984.78	2822.33	3179.61	2576.53	2901.15	3021.03	2751.67	3350.18	2984.78	
G18	2805.81	2633.3	2999.03	2401.71	2732.04	2849.32	2578.98	3186.4	2805.81	
G19	2622.87	2457.78	2826.39	2231.89	2563.03	2669.93	2413.37	3002.48	2622.87	
G20	2453.06	2294.52	2645.58	2067.37	2398.5	2508.33	2242.04	2820.44	2453.06	
G21	2289.43	2133.68	2476.61	1906.71	2237.94	2347.57	2081.62	2645.43	2289.43	
G22	2127.97	1979.58	2306.89	1735.15	2077.18	2192.2	1911.52	2476.61	2127.97	
G23	1967.36	1816.0	2140.8	1564.44	1915.06	2033.95	1747.51	2311.28	1967.36	
G24	1808.82	1652.18	1974.95	1390.28	1749.16	1873.81	1572.03	2145.1	1808.82	
G25	1641.13	1476.18	1807.26	1216.78	1570.76	1700.84	1401.23	1983.12	1641.13	
G26	1466.88	1298.62	1631.74	1049.94	1390.33	1531.49	1228.87	1816.51	1466.88	
G27	1289.37	1121.87	1450.93	898.06	1209.8	1348.75	1063.25	1646.37	1289.37	
G28	1109.08	955.69	1275.87	760.34	1039.18	1172.51	905.47	1470.99	1109.08	
G29	941.58	799.42	1109.27	641.97	881.17	1001.28	763.36	1300.79	941.58	
G30	790.41	661.46	952.01	536.2	739.53	842.51	640.93	1127.3	790.41	
G31	657.26	547.58	805.37	452.71	617.67	702.62	539.65	967.87	657.26	
G32	547.91	457.76	677.04	383.95	516.71	585.52	454.51	823.44	547.91	
G33	455.69	384.75	569.01	328.87	434.16	491.04	383.47	695.87	455.69	
G34	382.44	327.92	479.24	283.84	368.8	415.38	327.69	587.08	382.44	
G35	323.53	281.62	407.59	248.59	317.68	353.98	283.04	497.79	323.53	
G36	278.93	245.47	349.97	219.84	277.33	306.17	246.42	421.99	278.93	

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	242.54	216.02	304.04	196.58	244.95	267.13	218.24	362.38	242.54	
G38	215.03	193.37	266.85	178.07	218.9	236.93	195.82	312.3	215.03	
G39	192.94	175.57	236.93	163.35	198.13	212.72	177.51	273.41	192.94	
G40	174.63	161.27	213.42	151.12	181.8	193.84	161.98	242.45	174.63	
G41	159.71	149.43	194.45	141.21	168.82	178.03	149.71	217.96	159.71	
G42	148.34	139.51	179.3	132.43	157.54	164.76	139.51	197.14	148.34	
G43	139.04	131.3	166.13	125.4	148.39	154.48	131.4	180.76	139.04	
G44	131.07	124.51	155.28	119.36	140.55	145.56	124.32	167.41	131.07	
G45	124.32	118.75	146.4	113.98	133.9	138.15	118.51	156.46	124.32	
G46	118.51	114.26	138.71	109.5	128.33	131.92	113.27	147.07	118.51	
G47	113.7	110.02	132.25	105.63	123.18	126.39	108.88	139.28	113.7	
G48	109.59	106.38	126.49	101.99	118.94	121.91	104.87	132.34	109.59	
G49	105.86	103.03	121.96	98.78	115.16	117.8	101.57	127.05	105.86	
G50	102.94	99.73	117.43	95.86	111.76	114.31	98.64	121.72	102.94	
G51	99.73	96.8	113.37	93.26	108.13	110.68	95.67	117.9	99.73	
G52	96.61	94.06	109.73	90.24	105.11	107.56	92.74	113.37	96.61	
G53	93.5	91.0	106.76	87.31	101.99	104.07	89.91	109.92	93.5	
G54	90.85	88.49	103.13	84.53	98.69	101.05	86.98	106.62	90.85	
G55	87.88	85.57	100.25	82.03	95.67	97.56	84.29	103.03	87.88	
G56	85.62	82.78	96.9	78.87	92.65	94.63	81.27	99.77	85.62	
G57	82.41	79.81	93.87	76.08	89.3	91.61	78.44	96.75	82.41	
G58	79.67	77.12	90.57	73.34	86.42	88.64	75.61	93.45	79.67	
G59	76.51	74.29	87.5	70.61	83.4	85.19	72.59	90.24	76.51	
G60	73.72	71.41	84.29	67.49	80.38	81.98	69.29	86.98	73.72	
G61	70.8	68.44	81.27	64.05	77.21	78.68	66.31	83.92	70.8	
G62	67.68	65.08	78.35	61.4	73.49	75.37	62.77	80.66	67.68	
G63	64.14	61.5	74.71	59.42	70.23	71.6	59.89	77.54	64.14	
G64	61.03	59.14	70.89	57.3	67.82	68.91	57.91	73.63	61.03	
G65	58.76	57.25	68.58	55.31	65.51	66.31	55.88	70.09	58.76	
G66	56.97	55.36	66.22	53.1	63.48	64.28	53.76	67.49	56.97	
G67	55.08	53.33	64.23	51.11	61.31	62.06	51.96	65.27	55.08	
G68	53.0	51.35	61.73	48.52	58.85	60.03	49.42	63.1	53.0	
G69	50.74	48.75	59.61	46.44	56.45	57.53	47.29	60.93	50.74	
G70	48.52	46.82	57.3	44.41	54.23	55.36	45.26	58.67	48.52	
G71	46.39	44.7	55.03	42.15	51.96	53.0	43.42	56.49	46.39	
G72	44.46	42.71	52.91	39.93	49.37	50.83	41.16	54.13	44.46	
G73	42.1	40.45	50.64	37.71	47.01	48.09	38.84	52.06	42.1	

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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: 2025/6/9 18:21:55

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