

Report No.:

Test Time: 2025/3/27 9:31:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H94-24°-15W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

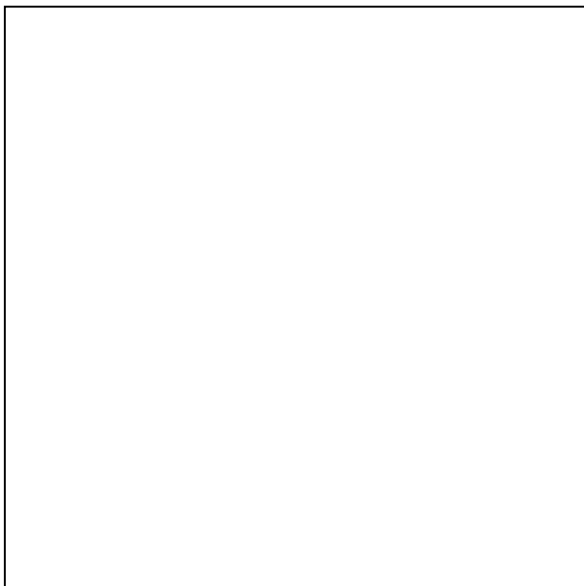
Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.67 W
Power Factor: 0.9470
Lamp Luminous Flux: 1307.74

Photometric Results

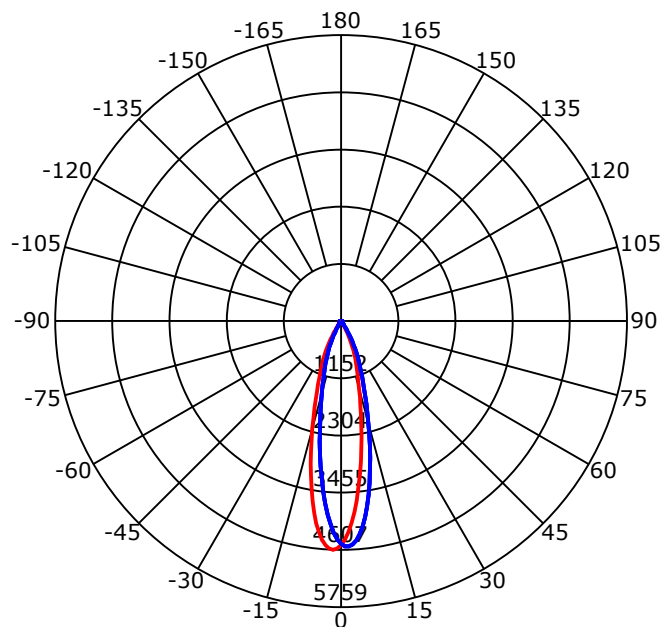
CIE Class: Direct
Luminaire Luminous Flux: 1307.736 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.14 lm/W
Beam Angle(50%) C0-180,C90-270: 24.9,25.2
Field Angle(10%) C0-180,C90-270: 54.6,54.6
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 4607.22 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4513.16 cd
Effective Luminous Flux: 1096.70 lm
ERP(ϕ use)(120deg): 1268.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.9 deg,25.2 deg

C0-180 — C90-270 —

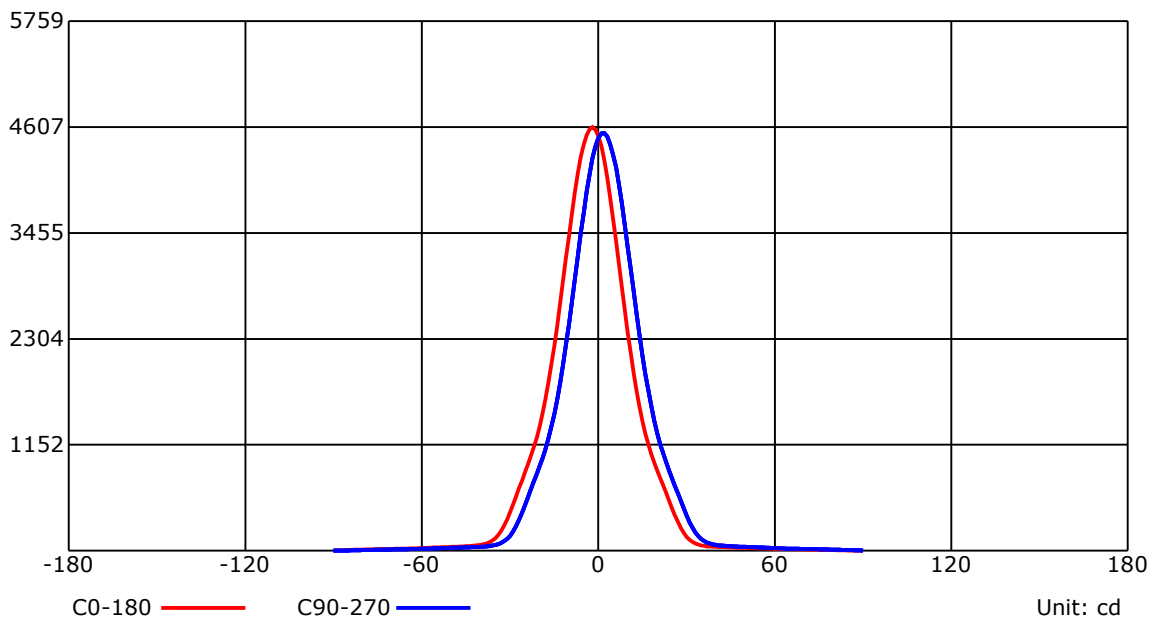
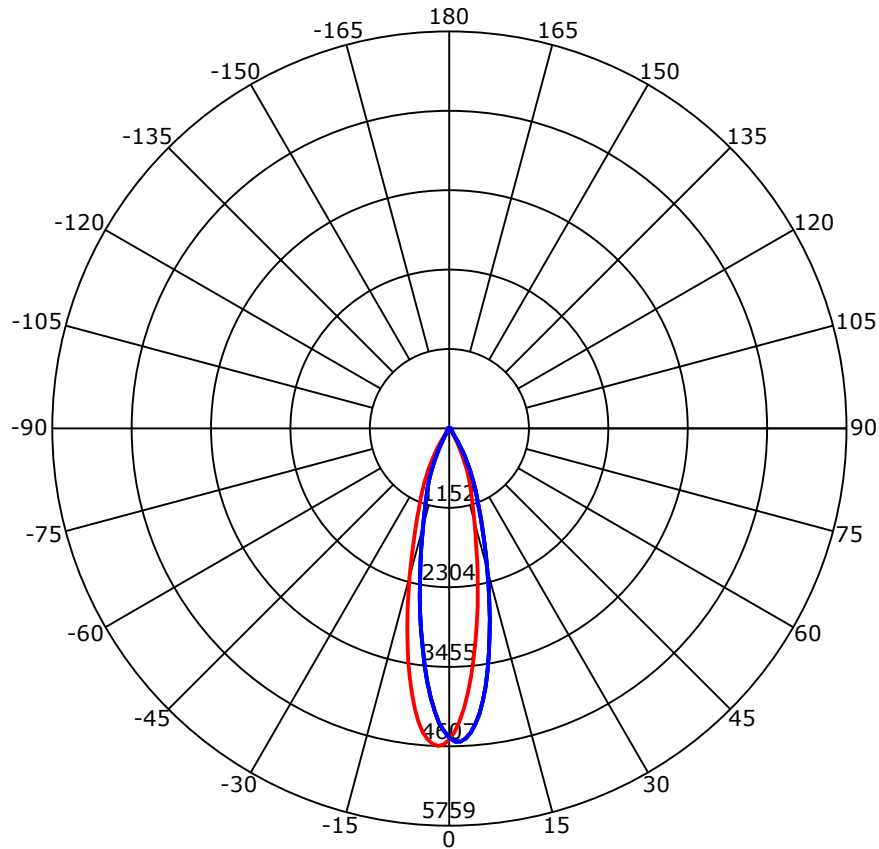
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/27 9:31:05

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 Intensity Distribution Curve



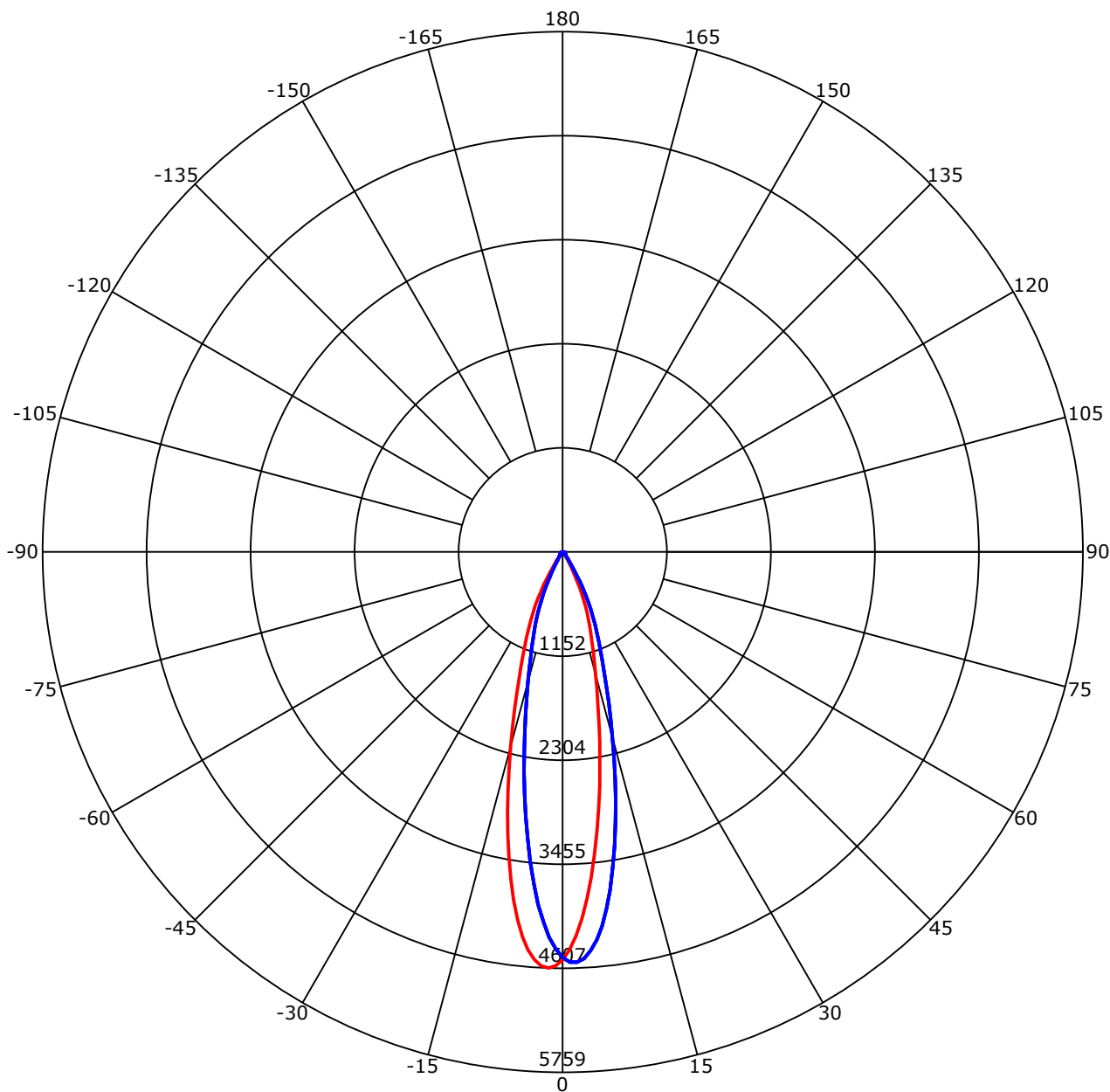
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/27 9:31:05

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 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: 2025/3/27 9:31:05

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

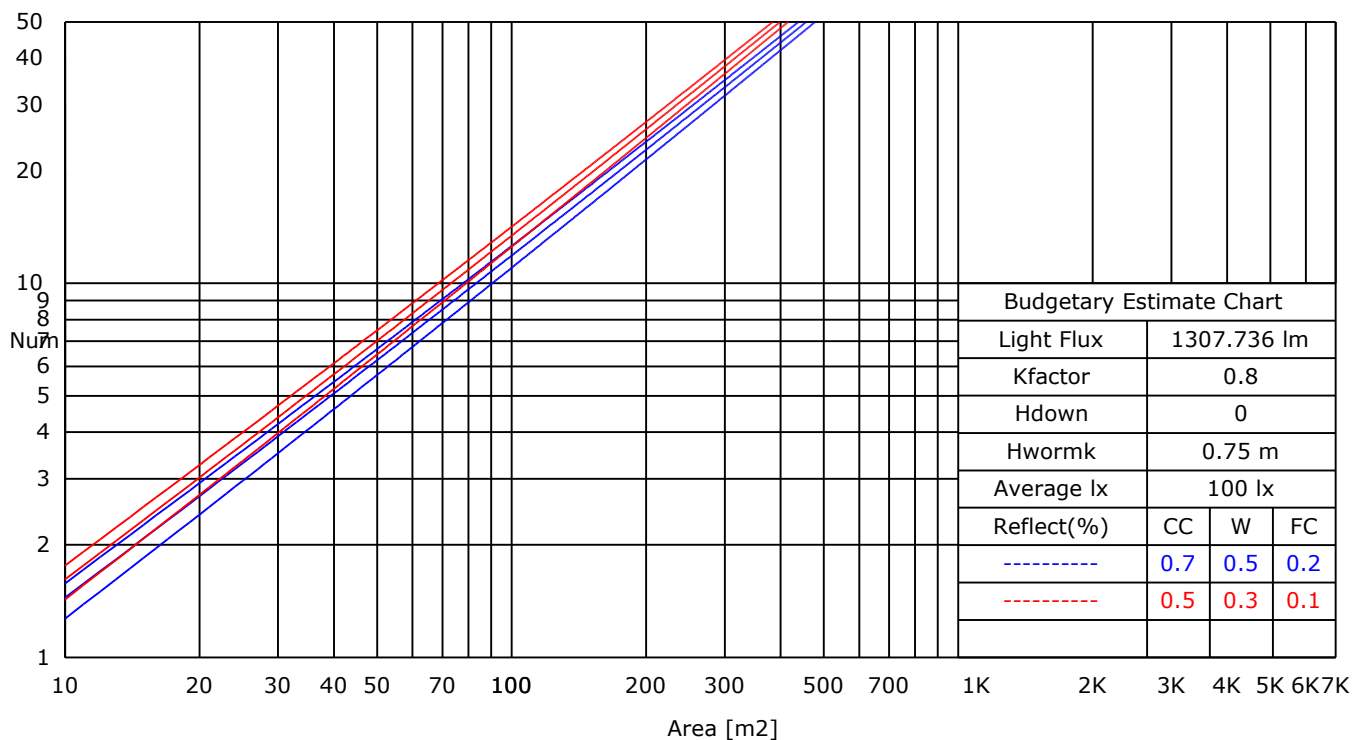
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.85	0.81	0.85	0.81	0.77	0.79	0.75	0.72	0.67
2	0.87	0.85	0.83	0.87	0.84	0.81	0.85	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.84	0.82	0.80	0.83	0.80	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
4	0.81	0.79	0.77	0.81	0.78	0.76	0.79	0.75	0.72	0.76	0.72	0.69	0.73	0.69	0.65	0.61
5	0.79	0.77	0.75	0.78	0.75	0.74	0.77	0.73	0.70	0.74	0.70	0.67	0.71	0.67	0.63	0.59
6	0.76	0.75	0.74	0.76	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.61	0.58
7	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.64	0.68	0.64	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	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.68	0.64	0.61	0.65	0.61	0.58	0.54
10	0.70	0.69	0.68	0.69	0.67	0.66	0.68	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



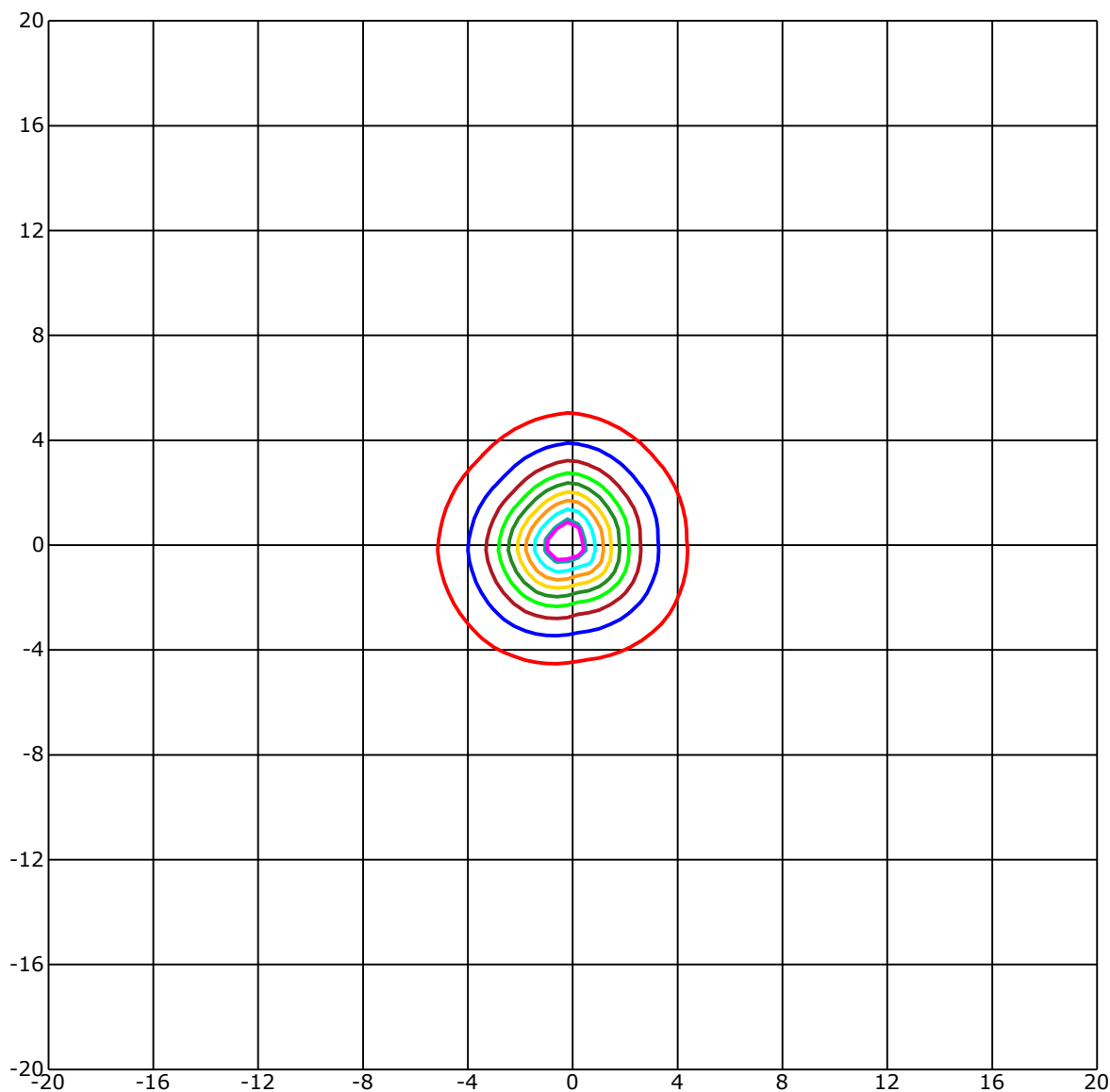
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/27 9:31:05

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/27 9:31:05

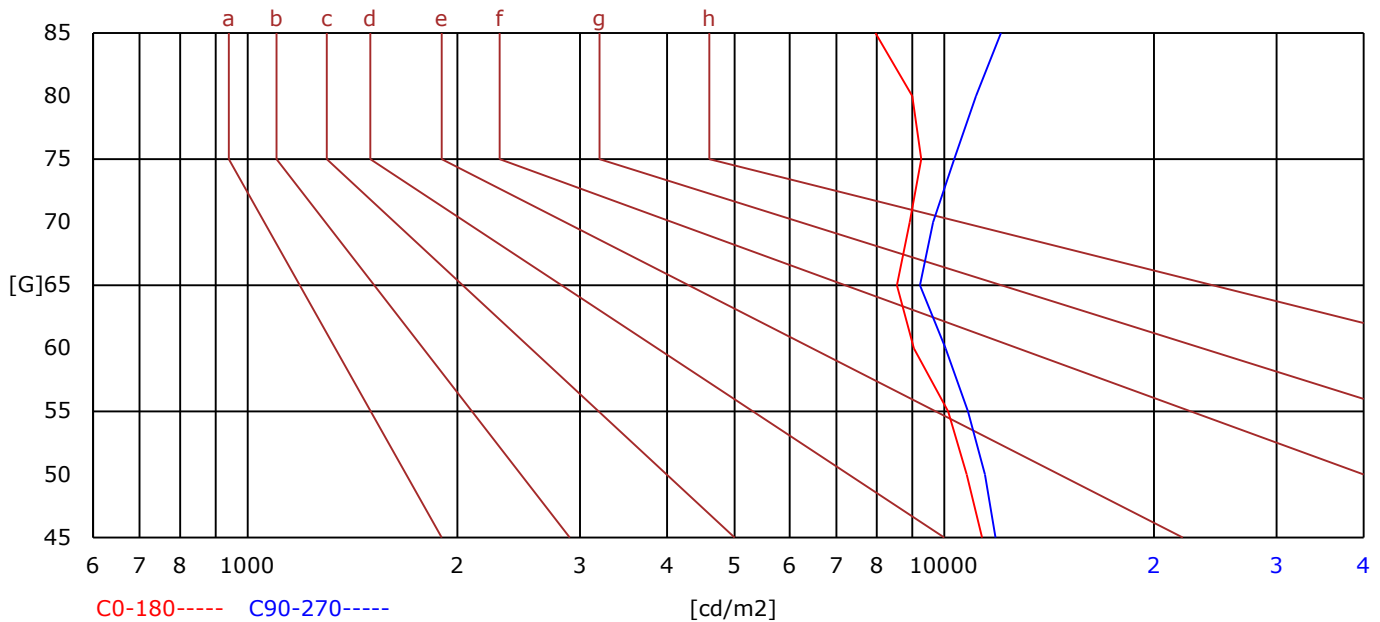
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11331	10766	10126	9043	8550	8923	9268	8993	7964
C90	11851	11433	10820	10044	9226	9639	10332	11109	12062
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



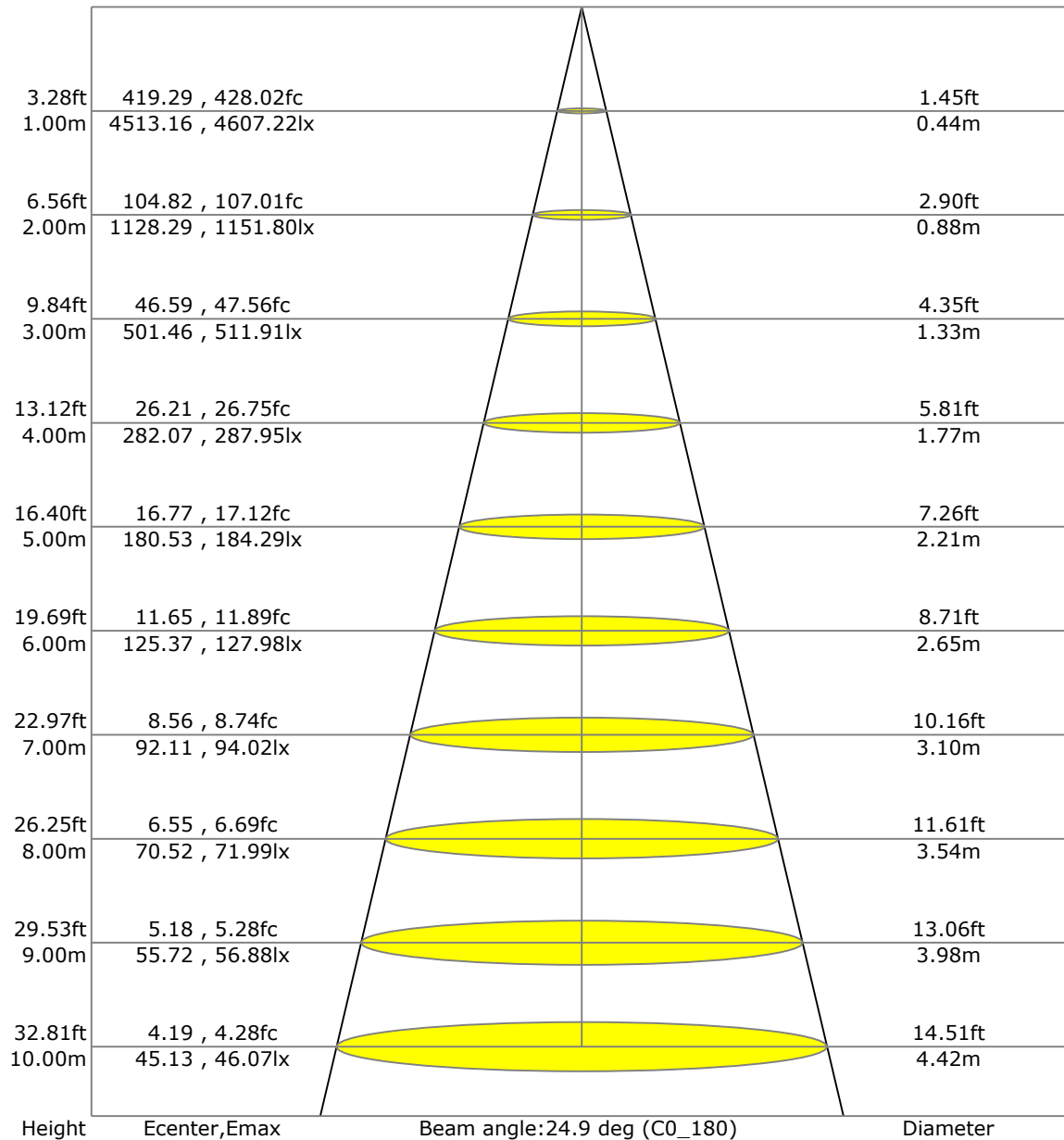
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/27 9:31:05

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.:

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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: 2025/3/27 9:31:05

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.:

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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	8.93	8.99	9.13	9.18	9.42	9.49	9.54	9.69	9.73	9.97
3H	9.12	9.18	9.32	9.37	9.62	9.60	9.66	9.81	9.86	10.10
4H	9.16	9.22	9.37	9.42	9.67	9.62	9.68	9.83	9.88	10.13
6H	9.17	9.23	9.39	9.43	9.68	9.62	9.68	9.83	9.88	10.13
8H	9.16	9.22	9.38	9.42	9.68	9.61	9.67	9.83	9.87	10.13
12H	9.15	9.21	9.37	9.42	9.67	9.60	9.66	9.82	9.87	10.12
4H 2H	10.89	10.95	11.10	11.15	11.40	11.88	11.94	12.09	12.13	12.38
3H	11.29	11.35	11.51	11.56	11.81	12.19	12.25	12.41	12.46	12.71
4H	11.42	11.48	11.65	11.69	11.95	12.27	12.33	12.50	12.54	12.80
6H	11.48	11.54	11.72	11.76	12.03	12.29	12.35	12.53	12.57	12.84
8H	11.49	11.55	11.74	11.78	12.04	12.29	12.35	12.53	12.57	12.84
12H	11.49	11.55	11.74	11.78	12.05	12.28	12.33	12.53	12.57	12.84
8H 4H	11.46	11.52	11.68	11.72	11.98	12.89	12.95	13.11	13.16	13.41
6H	12.35	12.41	12.61	12.64	12.92	13.66	13.72	13.92	13.95	14.23
8H	12.39	12.45	12.66	12.69	12.97	13.67	13.73	13.94	13.97	14.25
12H	12.42	12.47	12.69	12.72	13.00	13.67	13.72	13.94	13.97	14.25
12H 4H	12.31	12.37	12.56	12.60	12.87	13.99	14.05	14.24	14.28	14.55
6H	12.48	12.54	12.75	12.78	13.06	14.14	14.20	14.41	14.44	14.72

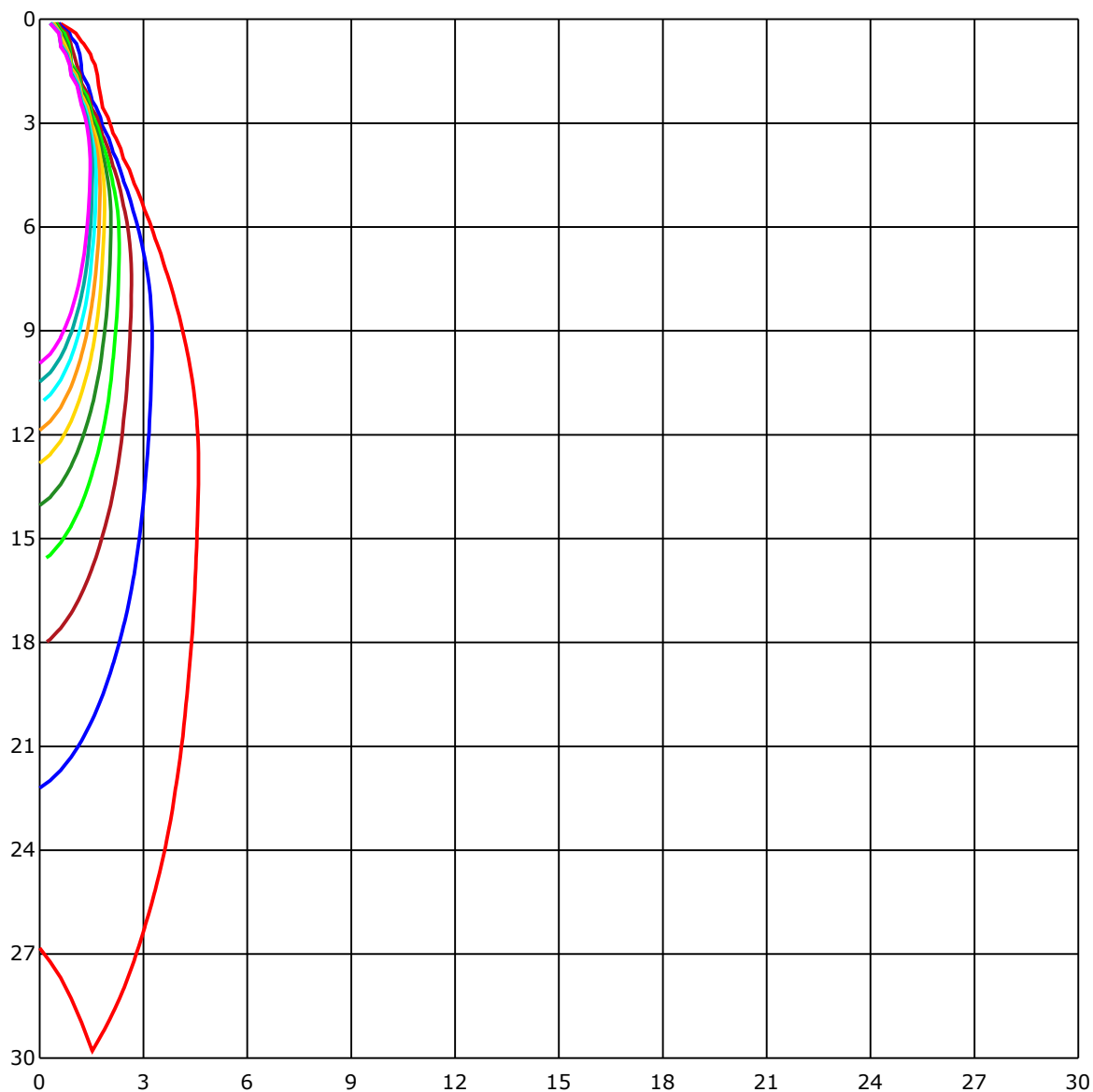
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Temperature: 25
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G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

45.763	22.881
41.187	18.305
36.61	13.729
32.034	9.153
27.458	4.576

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: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4513.16	4491.97	4484.98	4581.21	4513.16	4491.97	4484.98	4581.21	4513.16	
G1	4401.82	4433.21	4539.26	4601.04	4579.56	4509.62	4393.51	4513.35	4401.82	
G2	4249.89	4330.32	4540.63	4574.04	4607.22	4488.61	4270.42	4401.02	4249.89	
G3	4065.02	4196.94	4505.56	4508.01	4584.52	4423.34	4092.77	4256.03	4065.02	
G4	3848.81	4025.0	4422.82	4398.37	4521.89	4323.0	3906.49	4068.99	3848.81	
G5	3620.05	3831.54	4310.4	4247.53	4419.52	4186.6	3679.28	3853.3	3620.05	
G6	3363.02	3615.14	4167.11	4069.69	4277.17	4013.72	3443.58	3627.41	3363.02	
G7	3109.38	3381.99	3977.24	3852.31	4099.85	3820.87	3192.35	3371.61	3109.38	
G8	2862.78	3133.17	3774.62	3613.3	3895.82	3605.28	2952.26	3118.16	2862.78	
G9	2618.25	2889.91	3540.57	3363.63	3666.4	3381.52	2708.54	2866.41	2618.25	
G10	2370.56	2650.34	3301.61	3109.1	3428.76	3146.57	2469.53	2607.91	2370.56	
G11	2142.83	2421.96	3054.54	2856.03	3184.23	2911.62	2235.43	2363.9	2142.83	
G12	1927.95	2196.59	2816.29	2600.36	2936.31	2676.87	2020.92	2134.76	1927.95	
G13	1733.64	1990.39	2573.32	2358.29	2691.4	2446.55	1821.09	1917.75	1733.64	
G14	1563.44	1797.82	2345.88	2133.96	2446.92	2227.36	1645.76	1728.68	1563.44	
G15	1409.58	1626.17	2125.84	1918.04	2227.03	2026.49	1485.52	1554.43	1409.58	
G16	1275.5	1468.86	1923.65	1722.31	2013.47	1836.43	1343.18	1400.0	1275.5	
G17	1155.05	1326.04	1737.18	1546.22	1823.41	1667.8	1215.84	1264.03	1155.05	
G18	1050.23	1201.26	1571.94	1395.05	1647.93	1506.38	1102.0	1146.93	1050.23	
G19	958.71	1093.32	1414.92	1256.76	1490.05	1366.96	1004.35	1042.72	958.71	
G20	875.74	994.34	1280.92	1138.86	1349.27	1243.21	918.88	956.59	875.74	
G21	793.29	905.47	1162.93	1036.35	1227.4	1134.24	831.42	872.06	793.29	
G22	711.45	816.93	1060.61	948.28	1119.27	1034.75	746.37	793.33	711.45	
G23	630.17	733.39	964.66	862.15	1024.46	939.88	661.84	714.18	630.17	
G24	547.44	650.42	875.6	780.78	935.3	844.16	576.65	635.51	547.44	
G25	464.37	565.94	790.5	700.59	849.17	753.59	490.52	554.04	464.37	
G26	387.3	484.57	708.28	619.32	761.57	663.07	410.33	472.44	387.3	
G27	313.77	406.93	623.94	537.9	674.73	574.76	332.46	392.4	313.77	
G28	248.02	333.35	543.61	457.76	587.55	488.11	265.06	318.2	248.02	
G29	194.22	268.83	462.95	379.65	503.69	406.18	208.47	251.94	194.22	
G30	150.56	213.38	385.36	306.59	421.14	331.28	162.4	198.23	150.56	
G31	118.46	169.2	312.54	241.6	342.32	266.14	128.42	155.56	118.46	
G32	95.24	134.13	249.44	187.89	272.23	212.91	104.49	124.93	95.24	
G33	78.35	107.66	197.52	145.37	215.64	171.32	86.04	101.95	78.35	
G34	65.93	87.69	157.31	114.26	170.19	138.38	72.26	85.8	65.93	
G35	57.39	73.01	127.34	91.56	136.26	113.7	62.3	74.19	57.39	
G36	51.59	62.77	105.63	75.52	110.96	94.77	55.69	66.26	51.59	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/3/27 9:31:05

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	47.57	55.46	88.78	63.81	92.03	81.7	50.6	60.79	47.57	
G38	44.7	50.22	77.17	56.26	78.91	72.07	46.82	57.11	44.7	
G39	42.71	46.44	68.58	50.83	69.85	65.18	44.18	54.23	42.71	
G40	41.16	44.03	62.63	46.96	63.39	60.08	42.52	52.11	41.16	
G41	39.93	42.24	58.38	44.55	58.85	56.26	40.78	50.31	39.93	
G42	38.8	40.54	55.27	42.76	55.69	53.43	39.41	48.28	38.8	
G43	37.66	39.32	52.58	41.39	53.0	51.3	38.28	46.77	37.66	
G44	36.81	38.09	50.69	40.16	50.93	48.8	37.14	45.59	36.81	
G45	35.92	37.05	48.57	38.75	48.61	47.15	36.06	44.18	35.92	
G46	34.74	35.87	46.68	37.8	47.01	45.55	35.07	42.76	34.74	
G47	33.79	34.93	45.36	36.67	45.55	44.08	33.93	41.44	33.79	
G48	32.99	33.98	43.8	35.63	44.22	42.62	32.99	40.21	32.99	
G49	31.91	33.09	42.57	34.64	42.85	41.2	31.91	39.08	31.91	
G50	30.82	32.0	41.44	33.98	41.49	39.88	30.82	37.95	30.82	
G51	29.92	31.01	40.07	32.71	40.45	38.65	29.83	36.58	29.92	
G52	29.07	29.97	39.08	31.67	39.03	37.47	28.93	35.35	29.07	
G53	27.99	29.12	37.76	30.63	37.85	36.2	27.8	34.36	27.99	
G54	26.62	27.94	36.44	29.78	36.58	34.97	26.62	33.09	26.62	
G55	25.58	26.86	35.26	28.7	35.35	33.7	25.53	31.72	25.58	
G56	24.5	25.68	34.17	27.7	34.03	32.61	24.5	30.49	24.5	
G57	23.69	24.68	32.8	26.62	32.9	31.24	23.41	29.31	23.69	
G58	22.09	23.41	31.53	25.49	31.57	30.11	22.47	28.08	22.09	
G59	21.19	22.23	30.02	24.45	30.35	28.84	21.43	26.81	21.19	
G60	19.73	20.91	28.88	23.22	29.17	27.61	20.44	25.58	19.73	
G61	18.45	19.96	27.42	22.28	27.94	26.52	18.97	23.98	18.45	
G62	17.89	18.27	26.1	20.96	26.67	25.34	17.98	22.84	17.89	
G63	17.18	17.56	24.73	19.78	25.58	23.83	17.65	22.09	17.18	
G64	16.66	17.09	23.27	18.6	24.31	22.65	17.09	21.47	16.66	
G65	16.24	16.71	22.23	18.03	23.22	21.95	16.47	20.77	16.24	
G66	15.72	16.19	21.57	17.23	22.14	21.29	16.05	20.29	15.72	
G67	15.34	15.67	20.96	16.8	21.62	20.81	15.43	19.63	15.34	
G68	14.82	15.1	20.34	16.38	20.91	20.15	15.01	19.02	14.82	
G69	14.35	14.73	19.68	15.67	20.25	19.59	14.3	18.27	14.35	
G70	13.59	14.11	19.26	15.24	19.59	18.97	13.69	17.7	13.59	
G71	13.03	13.5	18.45	14.63	19.26	18.36	13.12	16.94	13.03	
G72	12.37	12.84	17.93	14.16	18.5	17.65	12.65	16.28	12.37	
G73	11.8	12.46	17.13	13.55	17.7	16.9	11.85	15.57	11.8	

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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:

Test Time: 2025/3/27 9:31:05

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: 2025/3/27 9:31:05

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