

Report No.:

Test Time: 2025/8/1 11:37:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-EB-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

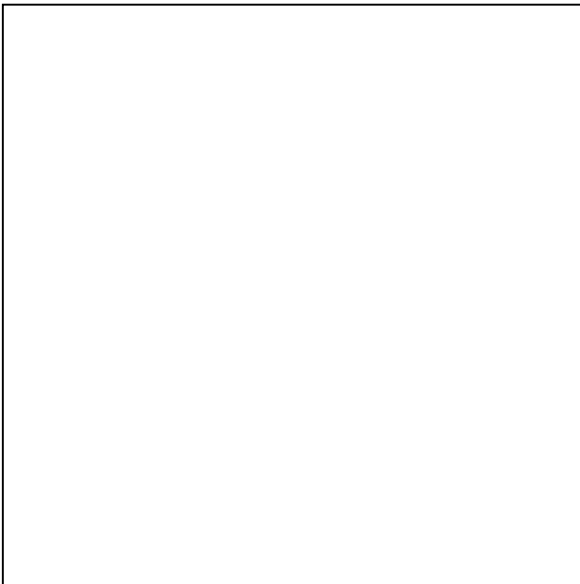
Voltage(V): 219.90 V
Current(A): 0.3430 A
Power(W): 73.09 W
Power Factor: 0.9660
Lamp Luminous Flux: 4936.97

Photometric Results

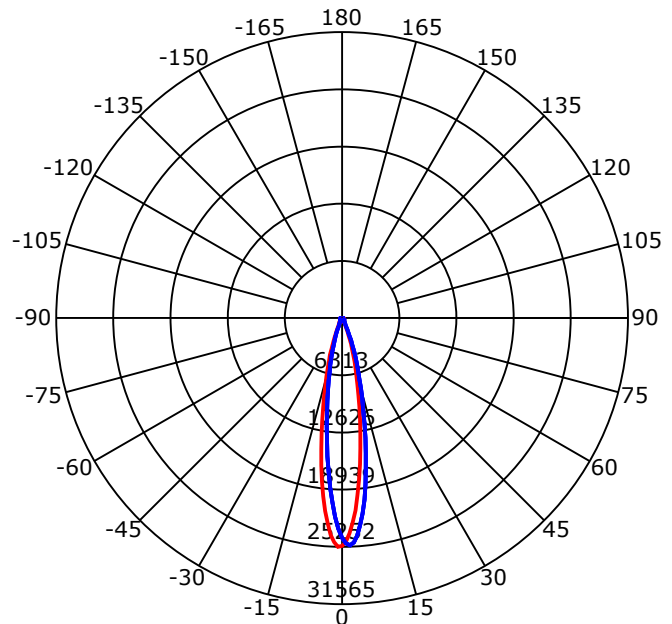
CIE Class: Direct
Luminaire Luminous Flux: 4936.968 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 67.55 lm/W
Beam Angle(50%) C0-180,C90-270: 19.4,19.3
Field Angle(10%) C0-180,C90-270: 40.8,40.6
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 25251.99 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 25132.44 cd
Effective Luminous Flux: 3460.18 lm
ERP(ϕ use)(120deg): 4659.59 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 19.4 deg,19.3 deg

C0-180 — C90-270 —

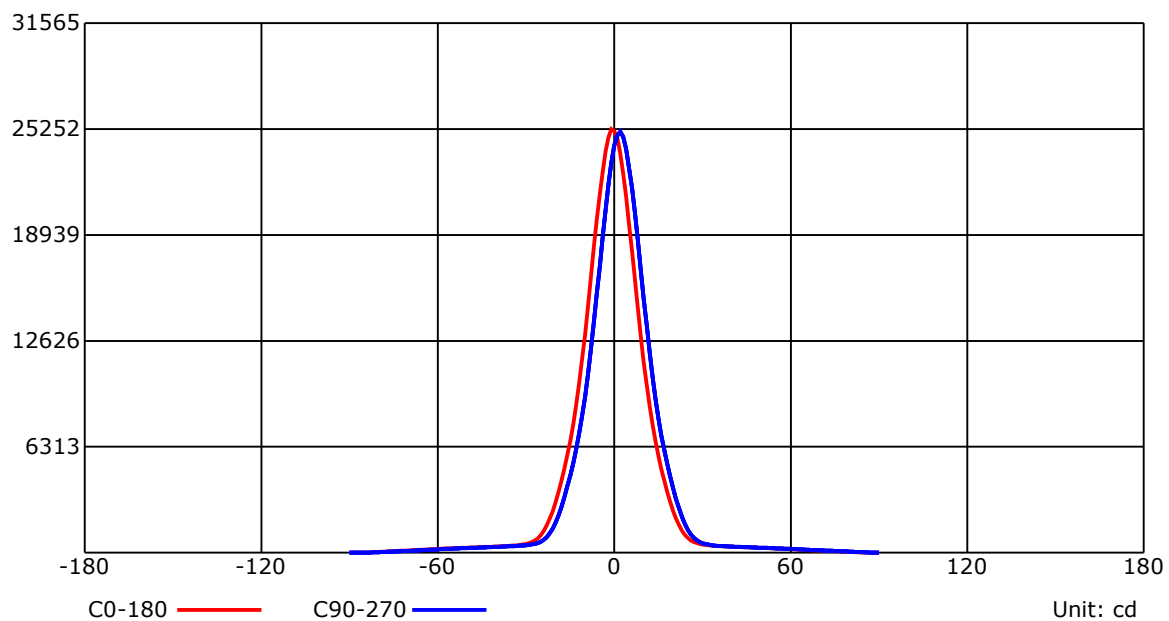
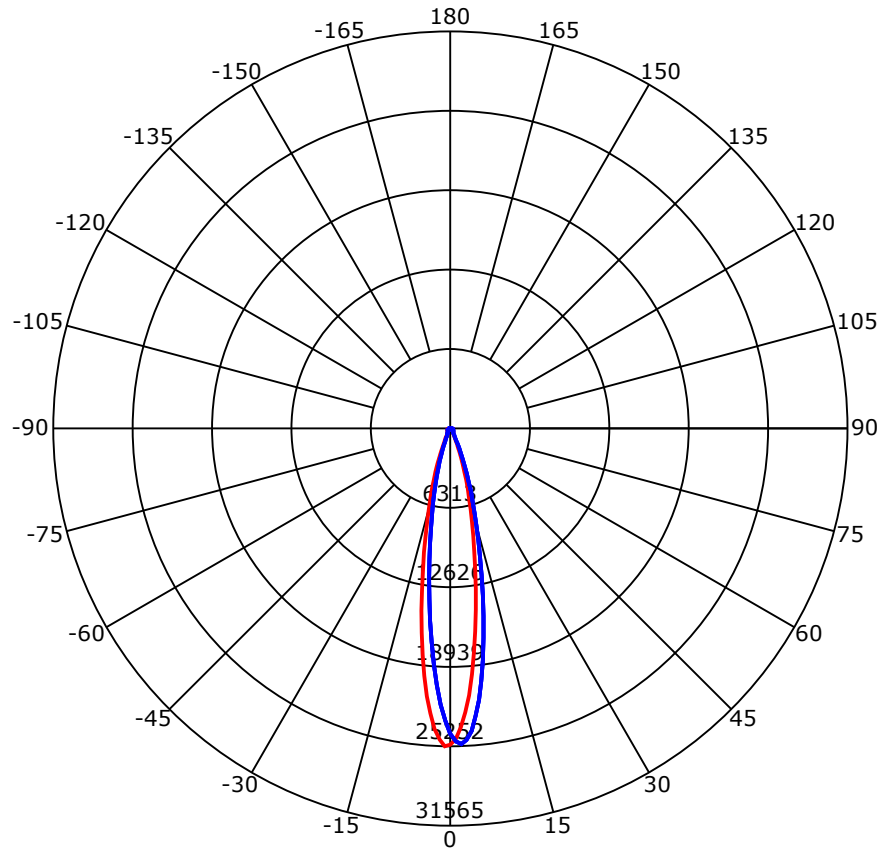
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:37:57

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



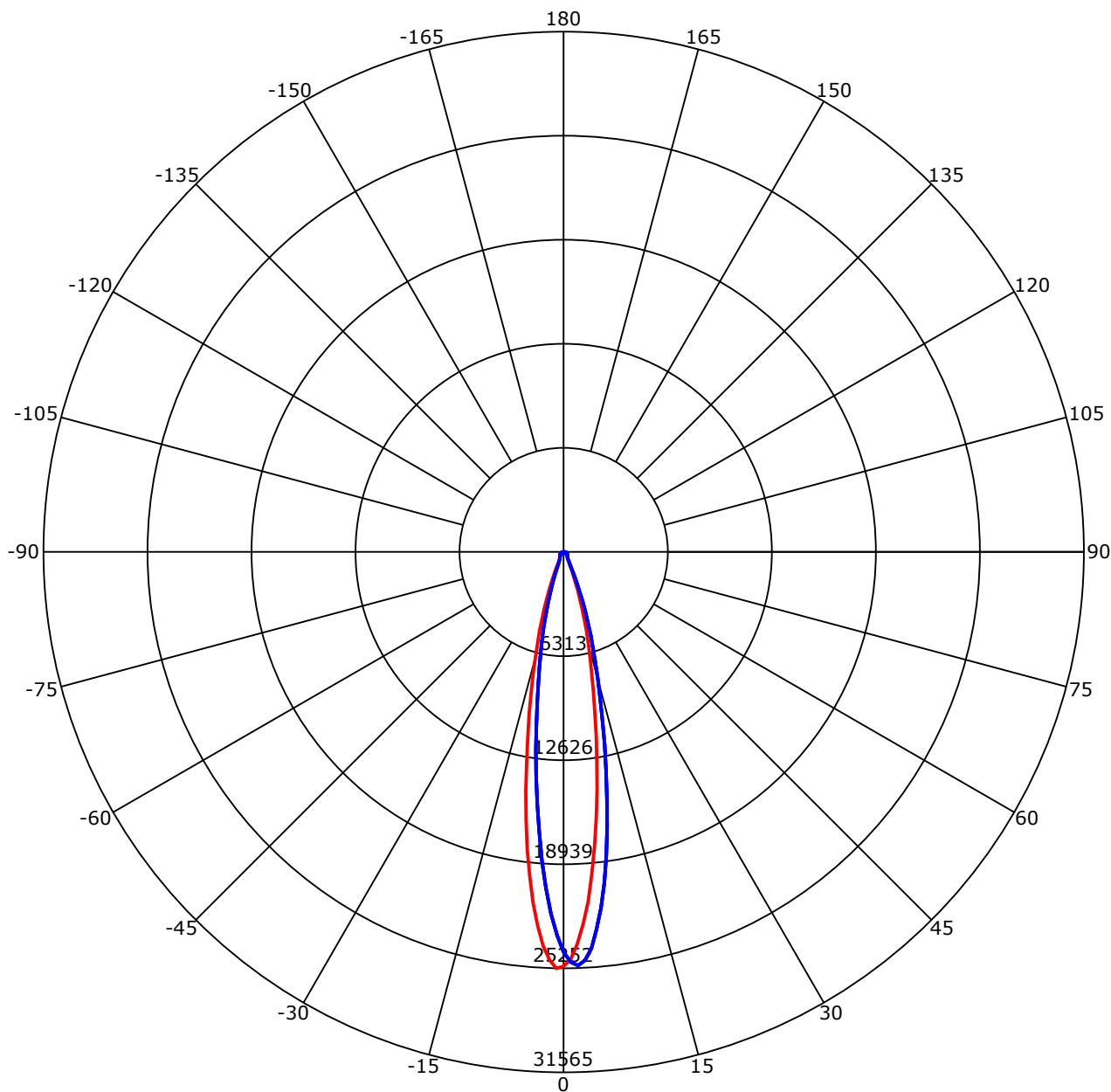
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Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/8/1 11:37:57

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

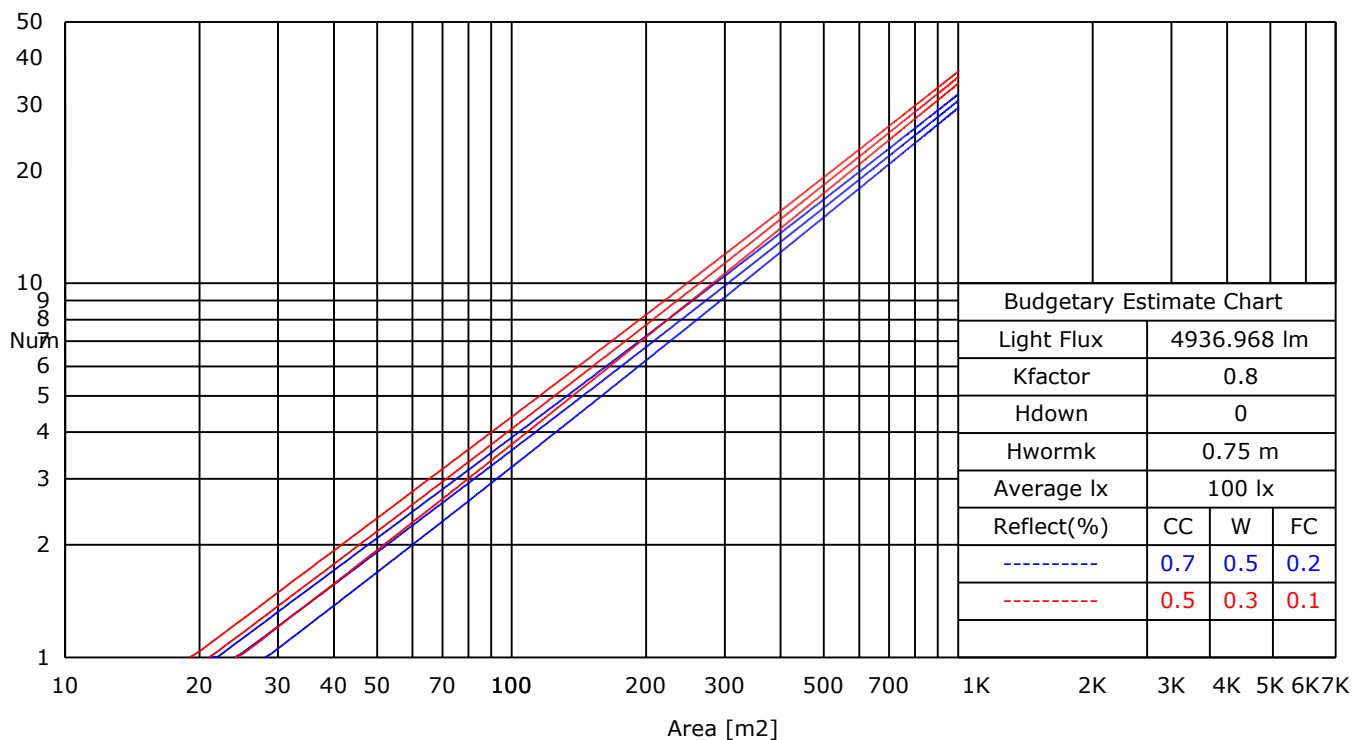
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UTILIZATION FACTORS TABLE

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	0.84	0.80	0.77	0.84	0.79	0.76	0.82	0.77	0.73	0.78	0.74	0.69	0.74	0.69	0.64	0.59
2	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.72	0.69	0.75	0.70	0.65	0.71	0.66	0.61	0.56
3	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.69	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
4	0.71	0.68	0.66	0.71	0.67	0.65	0.70	0.66	0.62	0.68	0.63	0.59	0.66	0.60	0.56	0.52
5	0.68	0.65	0.64	0.68	0.65	0.62	0.67	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
6	0.65	0.63	0.62	0.65	0.62	0.60	0.65	0.61	0.58	0.64	0.59	0.55	0.62	0.56	0.52	0.48
7	0.63	0.61	0.60	0.63	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.60	0.55	0.50	0.47
8	0.62	0.60	0.58	0.62	0.59	0.57	0.61	0.57	0.55	0.60	0.55	0.52	0.59	0.53	0.49	0.46
9	0.60	0.58	0.57	0.60	0.57	0.56	0.59	0.56	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.45
10	0.59	0.57	0.56	0.59	0.56	0.55	0.58	0.55	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.44

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



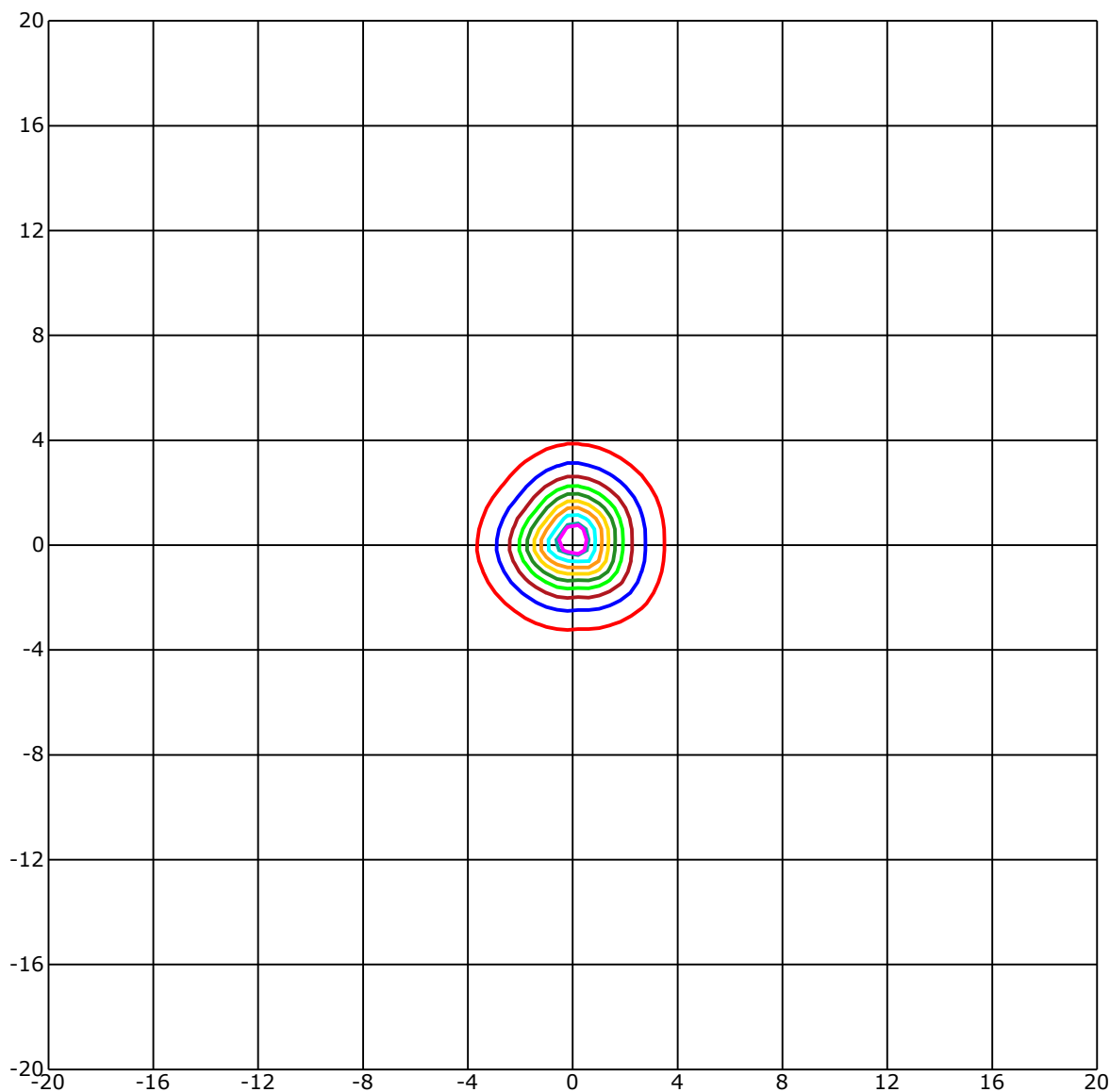
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:37:57

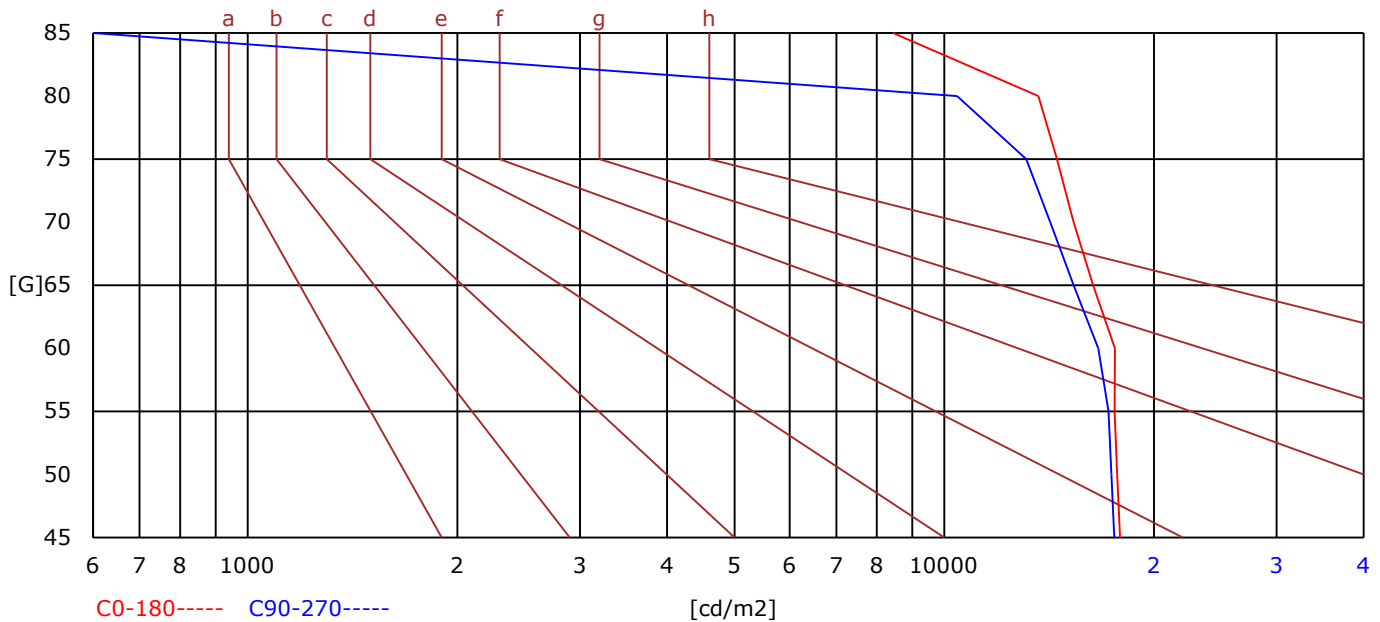
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17876	17715	17567	17568	16362	15327	14516	13655	8445
C90	17545	17372	17215	16639	15342	14194	13105	10430	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



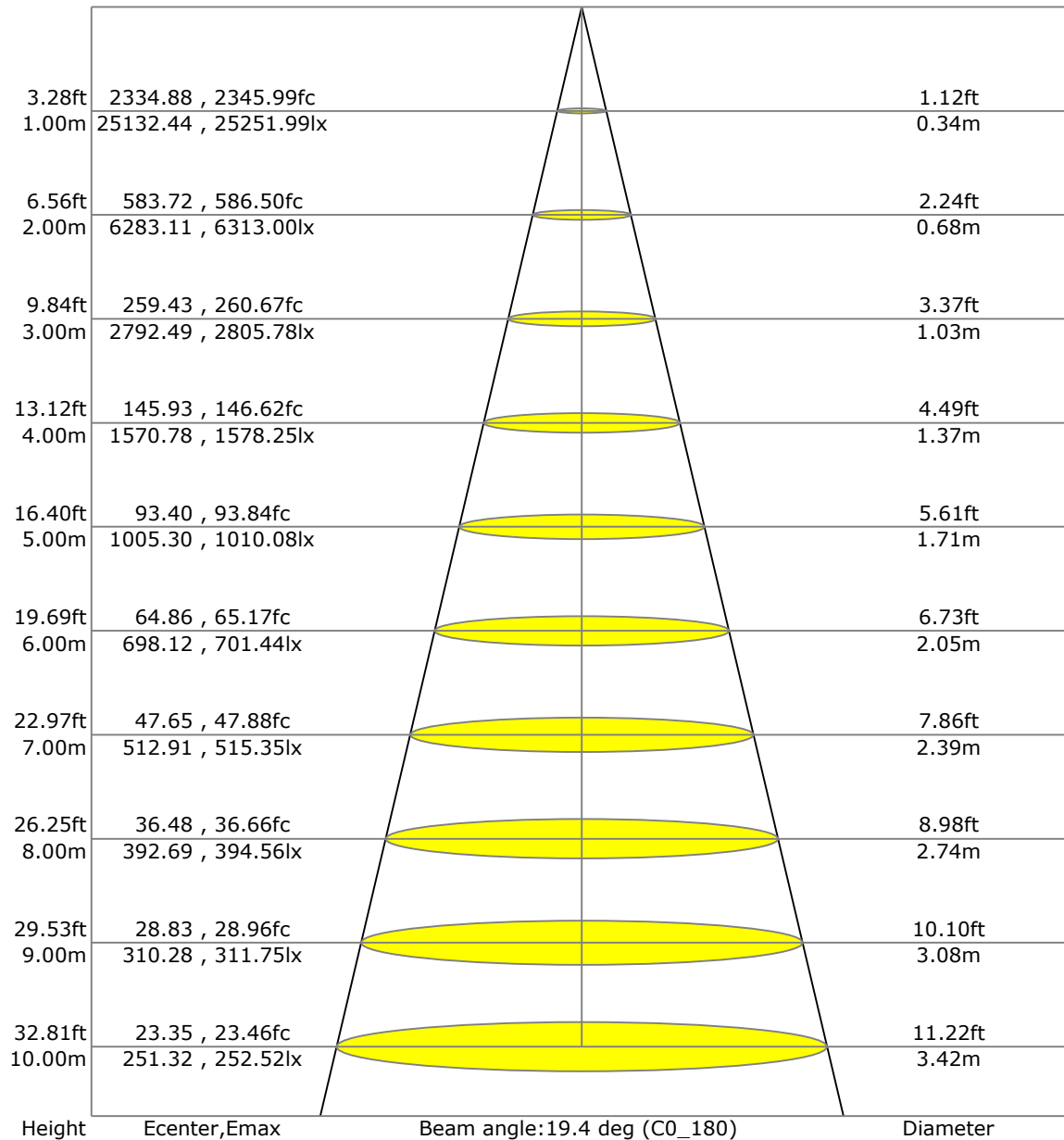
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/8/1 11:37:57

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	9.74	9.81	9.94	10.00	10.24	9.81	9.88	10.01	10.07	10.31
3H	9.92	9.99	10.13	10.18	10.43	9.97	10.04	10.18	10.23	10.48
4H	9.94	10.02	10.16	10.21	10.46	9.99	10.06	10.20	10.26	10.51
6H	9.94	10.01	10.16	10.21	10.46	9.98	10.05	10.20	10.25	10.50
8H	9.93	10.00	10.15	10.20	10.46	9.97	10.04	10.19	10.24	10.50
12H	9.92	9.99	10.14	10.20	10.45	9.96	10.03	10.18	10.24	10.49
4H 2H	11.81	11.88	12.02	12.08	12.33	12.11	12.18	12.32	12.38	12.63
3H	12.17	12.24	12.39	12.45	12.70	12.44	12.51	12.66	12.72	12.97
4H	12.25	12.33	12.49	12.54	12.80	12.51	12.58	12.74	12.80	13.06
6H	12.28	12.35	12.52	12.57	12.84	12.53	12.60	12.77	12.82	13.08
8H	12.28	12.35	12.52	12.57	12.84	12.52	12.59	12.76	12.81	13.08
12H	12.27	12.33	12.52	12.57	12.84	12.50	12.57	12.75	12.80	13.08
8H 4H	12.19	12.26	12.41	12.47	12.72	12.68	12.75	12.90	12.95	13.21
6H	12.88	12.95	13.14	13.19	13.46	13.35	13.42	13.61	13.66	13.94
8H	12.90	12.96	13.16	13.21	13.49	13.36	13.42	13.62	13.67	13.95
12H	12.89	12.95	13.16	13.21	13.49	13.35	13.41	13.62	13.66	13.95
12H 4H	12.80	12.87	13.05	13.10	13.37	13.40	13.47	13.65	13.70	13.98
6H	12.90	12.96	13.16	13.21	13.49	13.50	13.57	13.77	13.82	14.09

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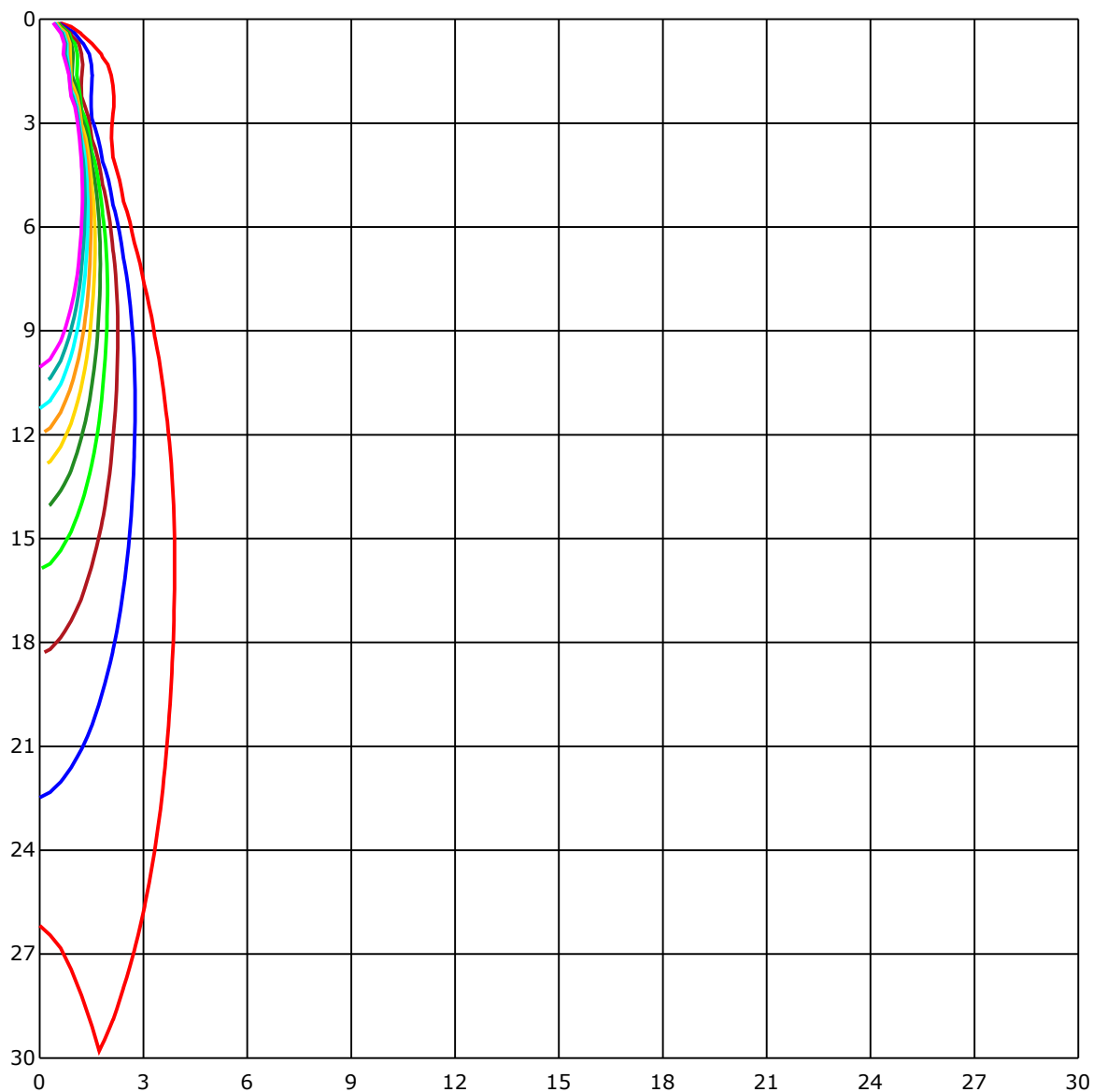
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

248.703	124.351
223.832	99.481
198.962	74.611
174.092	49.741
149.222	24.87

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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	25132.44	24672.13	24260.15	25071.18	25132.44	24672.13	24260.15	25071.18	25132.44	
G1	24696.72	24988.49	24873.57	24848.46	25251.99	23904.9	23244.57	24944.46	24696.72	
G2	23784.59	24850.63	25097.33	24080.94	24752.04	22849.62	21956.75	24304.61	23784.59	
G3	22600.9	24204.08	24791.54	23102.32	23924.39	21500.22	20410.25	23331.74	22600.9	
G4	21260.6	23269.06	24086.56	21693.06	22693.64	19993.03	18822.03	22003.76	21260.6	
G5	19604.51	21973.22	22954.87	20189.42	21368.35	18369.98	17041.05	20528.72	19604.51	
G6	17928.69	20541.41	21699.1	18538.99	19769.04	16683.49	15346.92	18907.83	17928.69	
G7	16245.64	18923.83	20211.46	16792.84	18148.53	15005.31	13675.82	17242.44	16245.64	
G8	14536.97	17229.89	18593.5	15065.68	16402.38	13359.18	12096.99	15529.57	14536.97	
G9	12897.54	15522.16	16830.79	13368.81	14660.54	11772.65	10618.88	13885.04	12897.54	
G10	11336.84	13836.24	15136.94	11771.85	12988.4	10345.23	9272.4	12267.23	11336.84	
G11	9956.37	12228.34	13490.01	10310.4	11463.65	9043.44	8077.61	10809.27	9956.37	
G12	8702.16	10771.65	11917.31	9003.14	10036.04	7919.22	7068.35	9485.07	8702.16	
G13	7614.8	9417.01	10466.86	7859.04	8787.5	6916.47	6141.59	8337.33	7614.8	
G14	6643.58	8216.46	9167.72	6839.63	7647.17	6035.21	5327.26	7308.86	6643.58	
G15	5778.36	7151.94	8019.13	5957.05	6671.14	5223.09	4595.37	6384.89	5778.36	
G16	4994.52	6230.09	6993.12	5147.81	5780.39	4487.95	3931.46	5539.03	4994.52	
G17	4269.81	5404.8	6079.1	4425.18	4991.54	3801.0	3284.2	4772.55	4269.81	
G18	3602.02	4645.78	5274.44	3749.32	4274.44	3175.79	2716.23	4054.59	3602.02	
G19	3019.8	3940.47	4532.13	3143.6	3618.3	2606.87	2220.76	3406.53	3019.8	
G20	2484.3	3308.83	3832.2	2583.61	3011.73	2126.08	1797.12	2826.43	2484.3	
G21	2022.01	2728.17	3183.01	2097.48	2474.39	1705.13	1431.62	2313.59	2022.01	
G22	1624.33	2228.83	2620.7	1683.47	2011.15	1365.83	1144.29	1872.3	1624.33	
G23	1307.07	1789.61	2119.42	1342.47	1624.14	1101.58	927.18	1513.7	1307.07	
G24	1055.8	1427.66	1698.48	1073.92	1304.99	903.44	773.37	1226.36	1055.8	
G25	873.95	1137.63	1351.81	873.1	1059.19	760.11	659.86	1006.52	873.95	
G26	735.0	920.67	1084.35	725.18	870.74	659.25	581.89	845.15	735.0	
G27	638.62	757.42	883.62	623.42	736.7	586.61	528.56	725.56	638.62	
G28	571.13	644.38	741.04	549.14	640.27	535.97	493.44	639.23	571.13	
G29	522.66	564.52	637.49	501.0	575.05	499.67	463.85	579.72	522.66	
G30	487.69	510.53	565.8	464.09	525.63	474.28	444.74	536.3	487.69	
G31	462.25	468.67	514.73	440.02	492.64	449.46	428.83	503.5	462.25	
G32	442.28	444.45	479.52	423.26	463.47	433.69	418.49	481.22	442.28	
G33	427.37	422.84	449.69	408.87	444.5	420.52	407.4	458.14	427.37	
G34	414.2	409.43	431.1	398.11	428.64	408.82	396.17	444.74	414.2	
G35	403.77	396.88	415.19	388.34	415.8	397.73	386.83	428.93	403.77	
G36	392.91	386.5	403.3	377.81	405.33	389.42	378.14	418.21	392.91	

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	384.04	377.01	392.16	370.97	395.23	379.94	370.87	409.62	384.04	
G38	375.97	368.14	383.14	362.43	385.55	370.73	362.71	397.21	375.97	
G39	368.18	359.5	374.74	355.39	377.95	363.98	354.21	388.71	368.18	
G40	360.07	351.99	366.3	346.9	371.2	356.2	345.48	379.04	360.07	
G41	352.32	345.1	357.04	339.82	362.33	349.02	339.39	370.12	352.32	
G42	342.65	338.45	349.45	332.55	353.74	342.37	331.84	361.72	342.65	
G43	337.46	331.04	341.23	326.65	347.37	333.4	324.81	353.69	337.46	
G44	328.77	324.05	335.15	318.39	339.58	326.65	319.57	345.34	328.77	
G45	322.02	318.53	327.12	312.63	332.69	319.9	311.31	339.77	322.02	
G46	315.18	311.92	320.75	305.6	325.09	314.33	305.03	330.57	315.18	
G47	309.47	304.47	313.81	302.11	319.0	306.59	297.34	323.82	309.47	
G48	302.34	301.59	307.96	293.71	312.54	300.69	291.58	316.6	302.34	
G49	295.12	292.05	300.74	287.43	305.88	294.18	285.31	312.4	295.12	
G50	289.46	286.96	295.59	281.39	298.52	286.58	277.94	302.96	289.46	
G51	282.9	280.26	288.61	275.63	292.48	280.16	269.92	296.3	282.9	
G52	275.3	275.39	283.94	267.28	285.68	274.54	263.88	288.61	275.3	
G53	268.83	267.56	275.54	262.18	280.07	266.38	256.14	281.91	268.83	
G54	261.09	260.9	269.35	254.44	272.28	259.77	249.2	275.02	261.09	
G55	256.0	253.92	262.7	248.82	266.19	252.27	241.6	267.56	256.0	
G56	248.59	247.55	256.61	241.18	259.63	244.95	235.65	260.2	248.59	
G57	240.7	241.03	249.58	234.66	251.61	236.6	225.84	254.34	240.7	
G58	232.16	235.65	242.88	228.43	244.01	228.24	215.93	244.72	232.16	
G59	224.14	227.63	236.46	221.4	235.56	216.92	205.54	235.7	224.14	
G60	213.09	221.35	229.94	209.65	227.21	208.09	196.1	224.56	213.09	
G61	203.28	210.55	220.46	199.78	217.2	199.83	185.72	217.06	203.28	
G62	192.09	201.44	211.35	190.53	208.37	190.16	176.66	206.72	192.09	
G63	185.11	192.0	204.69	182.89	197.61	179.68	167.64	195.68	185.11	
G64	174.35	183.27	193.88	172.65	187.89	171.14	159.76	185.91	174.35	
G65	165.0	174.25	184.78	163.4	179.58	162.07	150.09	177.55	165.0	
G66	155.84	165.71	175.34	155.8	170.33	153.25	141.31	166.89	155.84	
G67	147.58	156.17	167.22	147.21	161.41	144.56	132.58	157.78	147.58	
G68	138.81	148.86	158.25	138.48	152.12	137.01	124.98	148.76	138.81	
G69	130.5	140.32	149.24	131.44	144.75	129.32	116.81	140.93	130.5	
G70	123.37	132.1	141.97	122.33	136.21	119.97	108.84	132.39	123.37	
G71	115.87	124.69	133.57	115.92	127.24	113.04	100.53	126.25	115.87	
G72	107.66	117.95	126.11	107.51	119.55	105.01	94.35	115.77	107.66	
G73	99.3	108.69	118.18	100.81	112.23	97.74	86.23	108.65	99.3	

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:

Test Time: 2025/8/1 11:37:57

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/

G Interval: 1.0 Deg

Test System: Huipu

Humidity: 60

Test Distance

Remarks: