

Report No.:

Test Time: 2025/5/13 10:49:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095H135-38°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

Voltage(V): 219.80 V
Current(A): 0.1840 A
Power(W): 39.57 W
Power Factor: 0.9730
Lamp Luminous Flux: 3866.77

Photometric Results

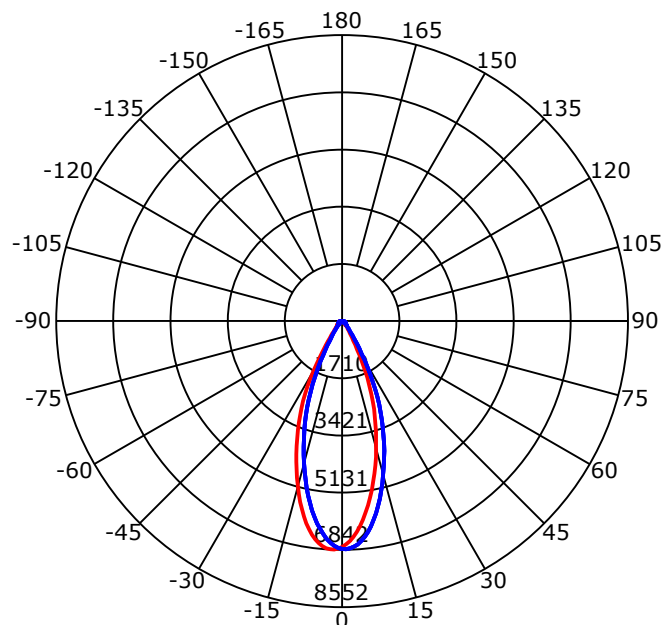
CIE Class: Direct
Luminaire Luminous Flux: 3866.768 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.71 lm/W
Beam Angle(50%) C0-180,C90-270: 39.7,40.2
Field Angle(10%) C0-180,C90-270: 65.4,66.6
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 6841.99 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6757.94 cd
Effective Luminous Flux: 3281.57 lm
ERP(ϕ use)(120deg): 3706.89 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.7 deg,40.2 deg

C0-180 — C90-270 —

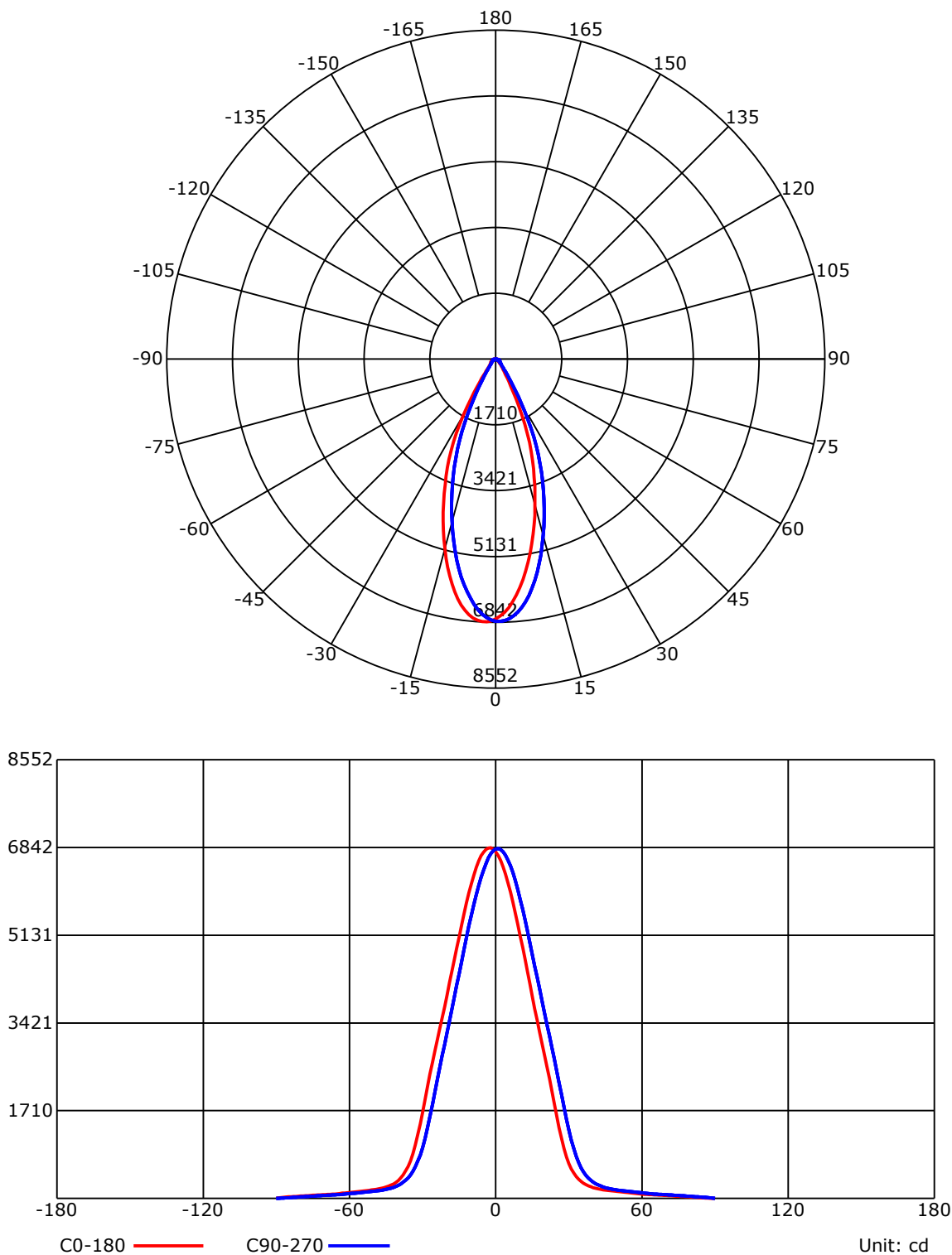
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:49:03

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 Intensity Distribution Curve



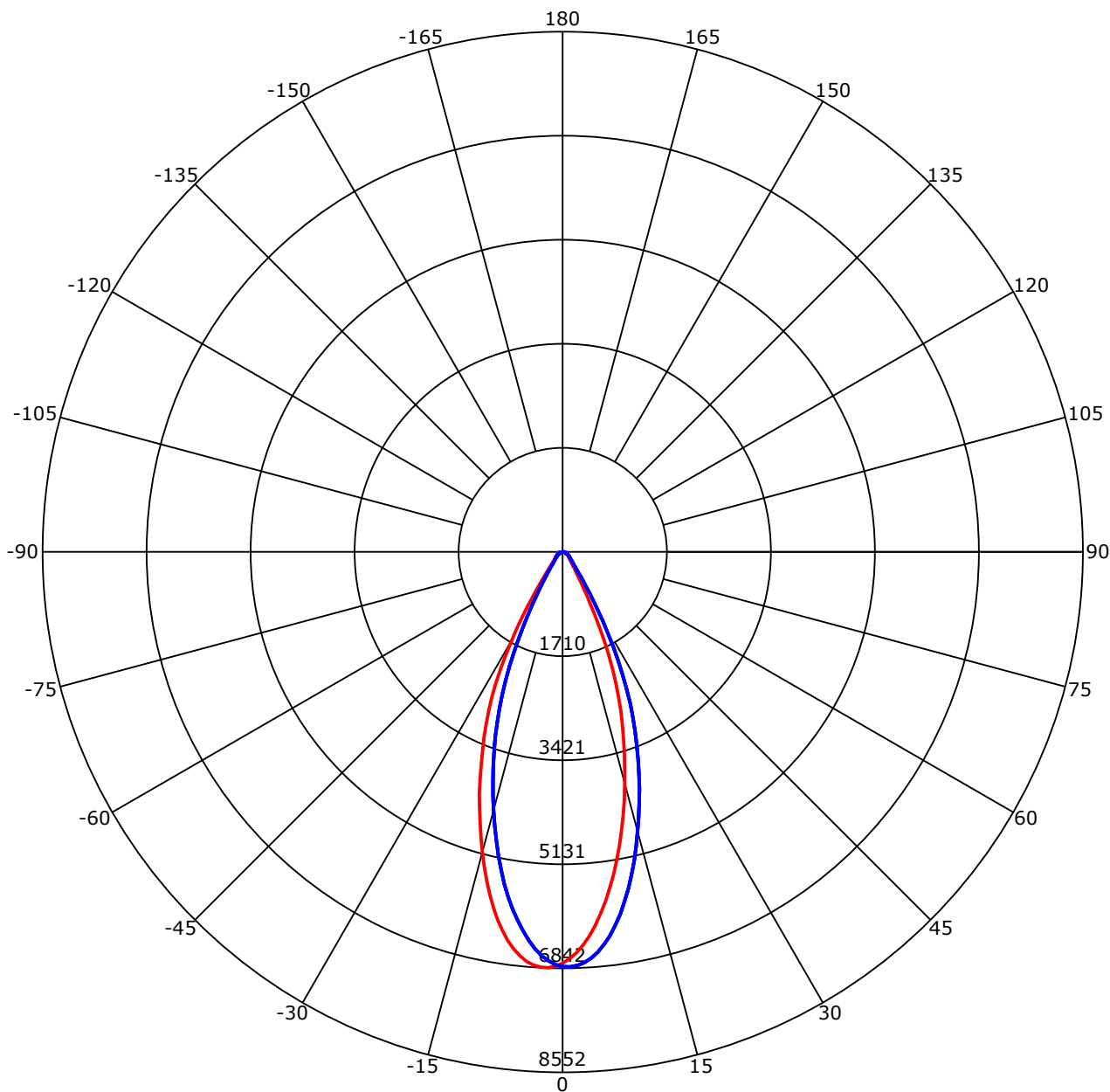
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Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/5/13 10:49:03

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

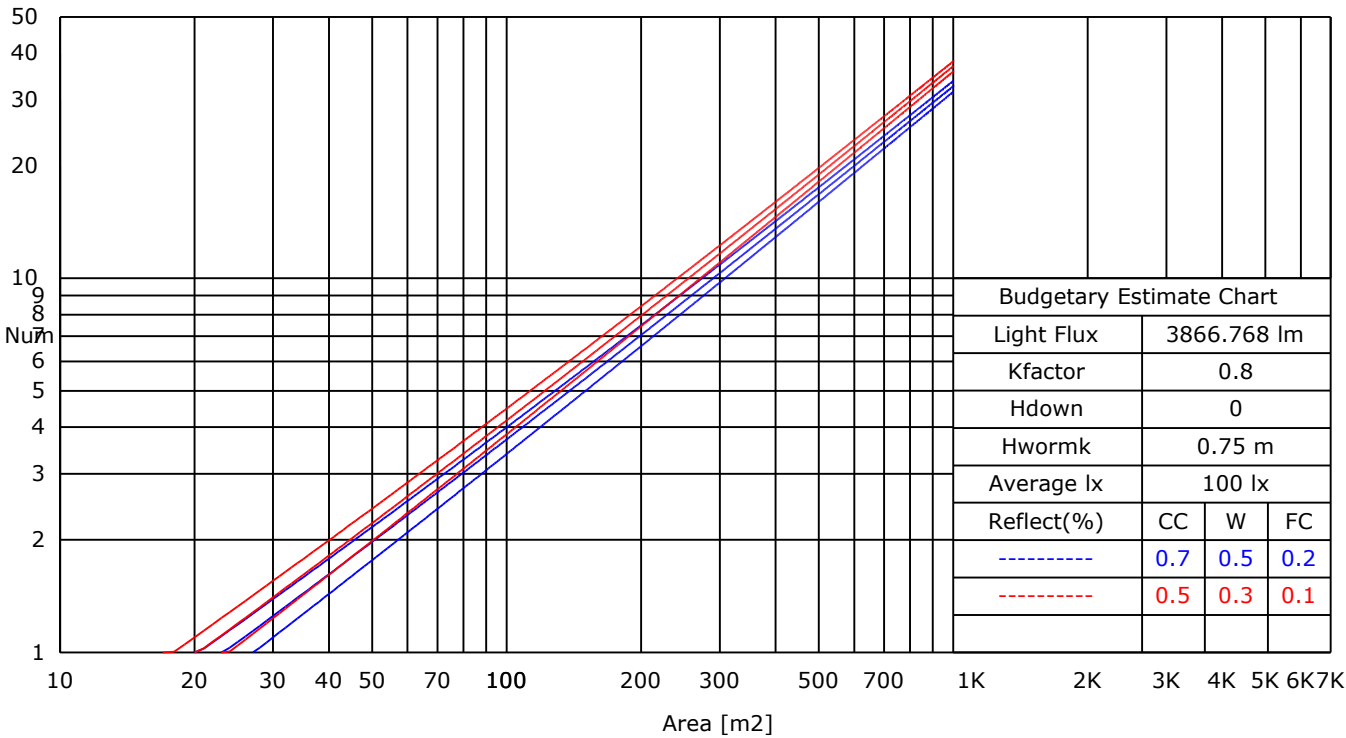
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UTILIZATION FACTORS TABLE

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	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	1.02	0.99	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.86	0.84	0.81	0.76
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.67
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.76	0.71	0.68	0.64
6	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.76	0.73	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	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
9	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



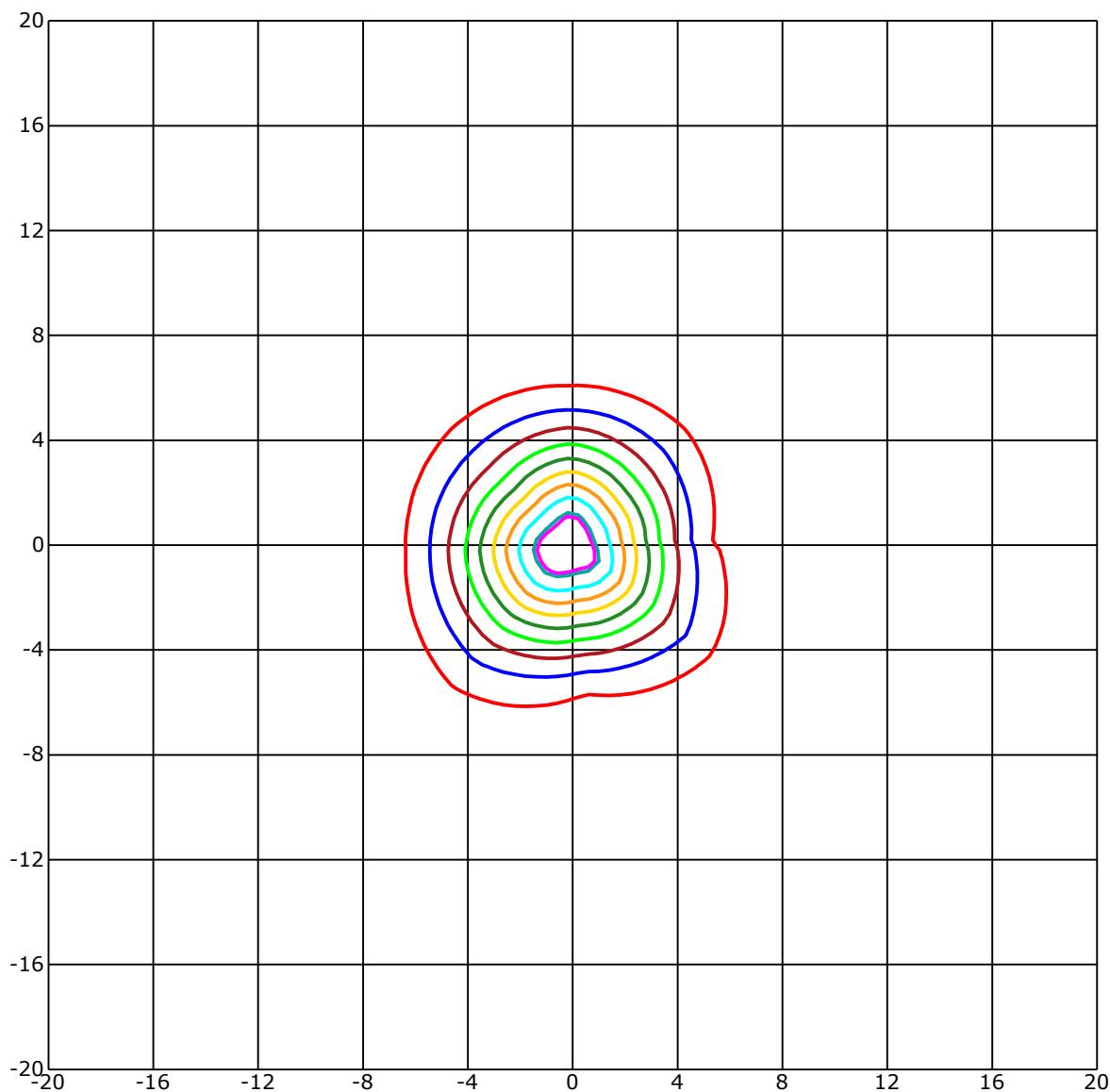
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:49:03

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



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

62.831(92%Emax)	34.147(50%Emax)
61.465(90%Emax)	27.318(40%Emax)
54.636(80%Emax)	20.488(30%Emax)
47.806(70%Emax)	13.659(20%Emax)
40.977(60%Emax)	6.829(10%Emax)

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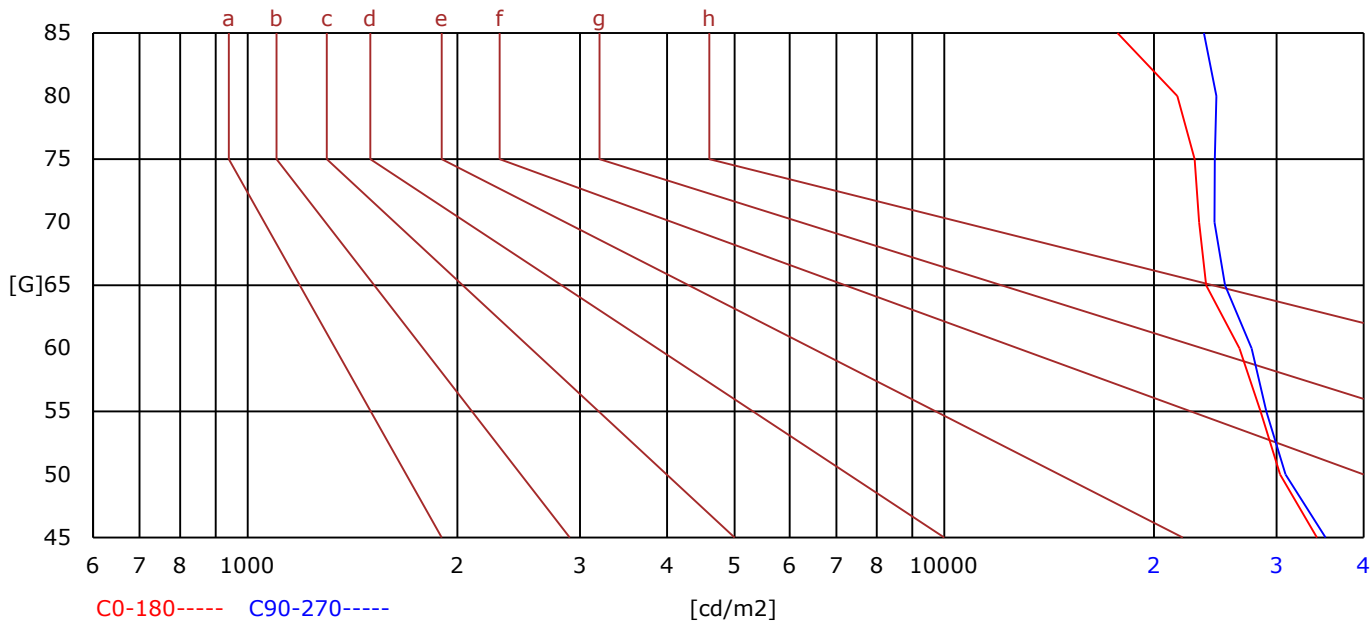
G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	34258	30339	28448	26534	23752	23211	22881	21608	17719
C90	35259	30905	29005	27619	25292	24423	24459	24585	23576
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



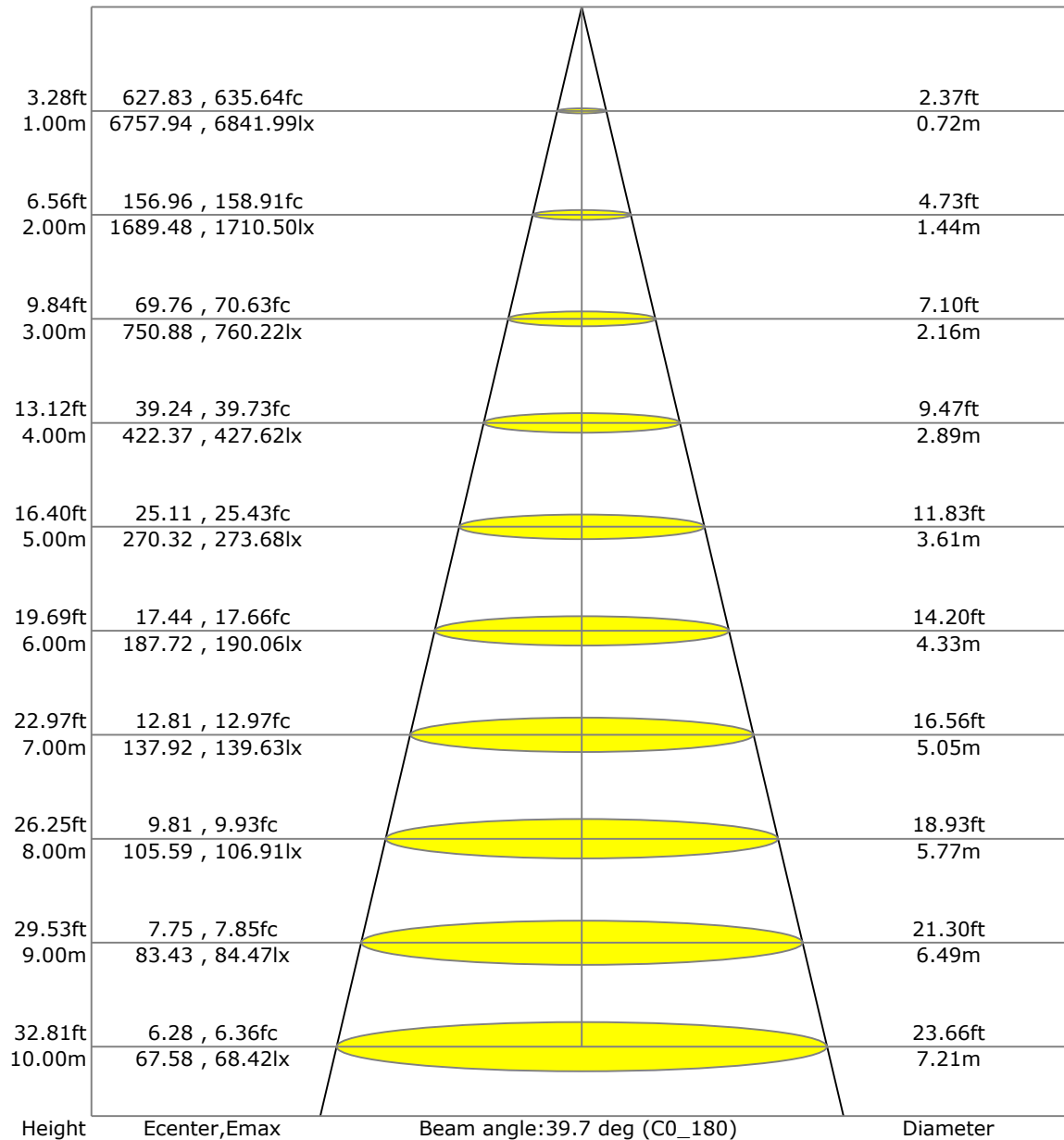
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/13 10:49:03

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	12.11	12.17	12.31	12.36	12.60	12.35	12.40	12.55	12.59	12.83
3H	12.20	12.26	12.41	12.45	12.69	12.41	12.47	12.62	12.66	12.91
4H	12.21	12.27	12.43	12.47	12.71	12.42	12.47	12.63	12.67	12.92
6H	12.21	12.26	12.42	12.46	12.71	12.41	12.46	12.62	12.66	12.91
8H	12.20	12.25	12.42	12.46	12.71	12.40	12.45	12.61	12.65	12.91
12H	12.19	12.24	12.41	12.45	12.70	12.39	12.44	12.61	12.65	12.90
4H 2H	13.34	13.40	13.55	13.59	13.84	13.84	13.89	14.05	14.09	14.34
3H	13.59	13.65	13.81	13.85	14.11	14.06	14.11	14.28	14.32	14.57
4H	13.66	13.71	13.89	13.93	14.18	14.11	14.16	14.34	14.37	14.63
6H	13.69	13.74	13.92	13.96	14.22	14.12	14.17	14.36	14.39	14.65
8H	13.69	13.74	13.93	13.96	14.23	14.11	14.16	14.35	14.39	14.65
12H	13.68	13.73	13.92	13.96	14.23	14.10	14.15	14.35	14.38	14.65
8H 4H	13.71	13.77	13.93	13.97	14.22	14.45	14.51	14.67	14.71	14.96
6H	14.28	14.33	14.53	14.56	14.84	14.99	15.04	15.25	15.28	15.55
8H	14.30	14.34	14.56	14.59	14.86	15.00	15.05	15.26	15.29	15.57
12H	14.30	14.34	14.57	14.60	14.88	14.99	15.03	15.26	15.29	15.57
12H 4H	14.29	14.34	14.54	14.57	14.84	15.18	15.23	15.43	15.46	15.73
6H	14.39	14.43	14.65	14.68	14.96	15.28	15.33	15.54	15.57	15.85

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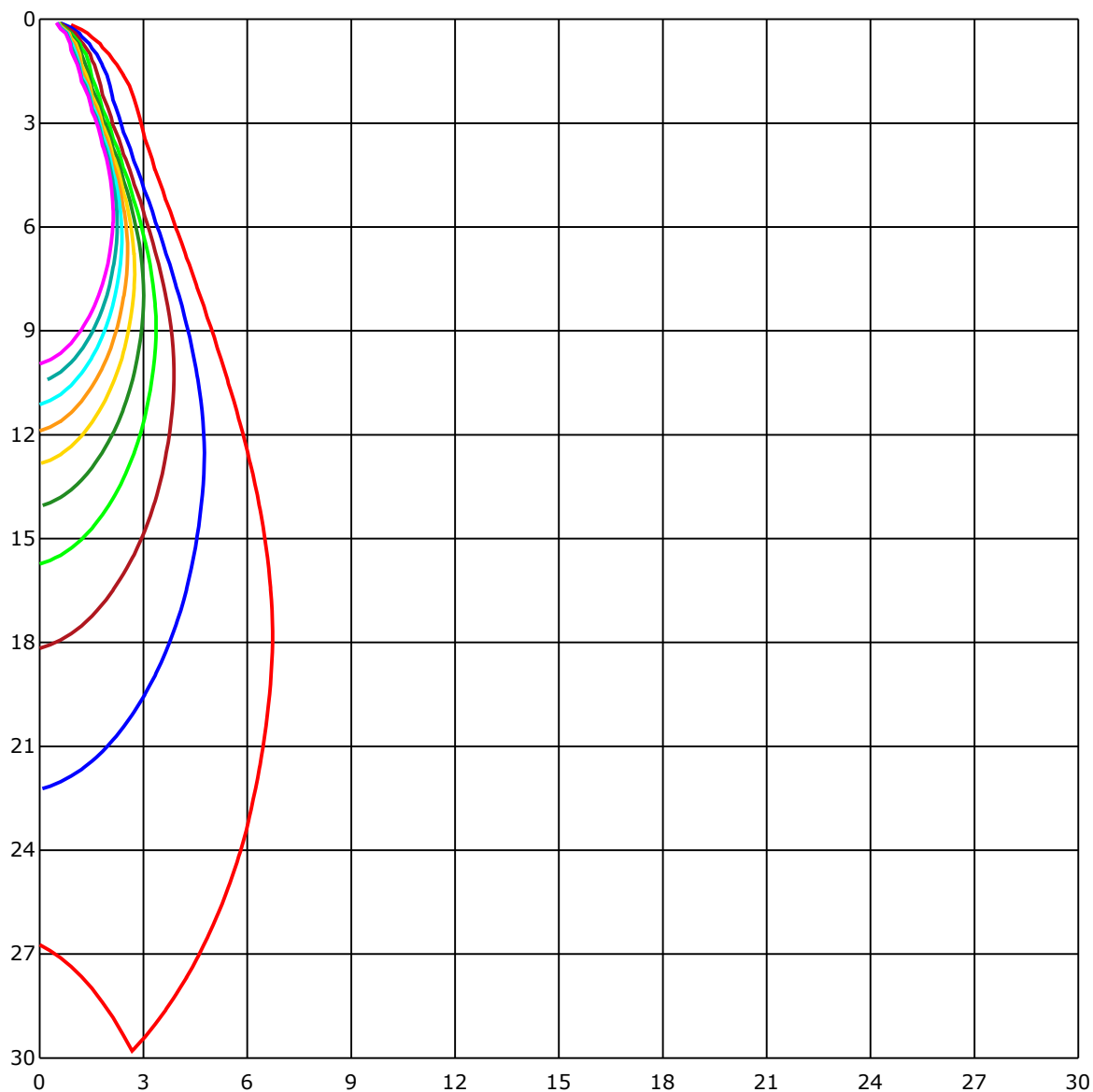
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

68.267	34.134
61.441	27.307
54.614	20.48
47.787	13.654
40.96	6.827

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	6757.94	6785.12	6813.58	6815.94	6757.94	6785.12	6813.58	6815.94	6757.94	
G1	6682.14	6714.33	6821.13	6791.45	6808.01	6825.24	6781.68	6814.71	6682.14	
G2	6586.71	6628.85	6801.21	6740.1	6837.79	6841.99	6723.48	6789.09	6586.71	
G3	6466.35	6517.04	6758.12	6665.15	6833.5	6830.05	6644.0	6738.63	6466.35	
G4	6323.96	6387.39	6690.92	6565.99	6807.59	6797.44	6534.55	6661.84	6323.96	
G5	6157.59	6237.02	6598.69	6439.97	6756.57	6738.16	6406.22	6564.66	6157.59	
G6	5974.51	6063.91	6484.62	6291.35	6679.87	6652.5	6255.76	6439.07	5974.51	
G7	5777.37	5873.04	6355.49	6123.89	6576.98	6538.23	6098.12	6292.57	5777.37	
G8	5566.87	5671.04	6199.79	5936.95	6456.54	6413.4	5923.49	6126.21	5566.87	
G9	5353.03	5456.53	6027.99	5737.3	6306.5	6263.41	5737.68	5950.11	5353.03	
G10	5127.8	5231.4	5837.64	5526.14	6142.96	6099.44	5531.76	5756.18	5127.8	
G11	4895.92	5006.03	5639.46	5310.03	5959.6	5910.47	5317.82	5550.78	4895.92	
G12	4664.19	4777.93	5432.17	5081.17	5765.01	5716.16	5090.0	5331.6	4664.19	
G13	4423.67	4543.22	5213.7	4846.41	5555.59	5510.99	4859.91	5110.2	4423.67	
G14	4191.56	4311.48	4987.77	4607.6	5337.36	5303.56	4624.49	4882.47	4191.56	
G15	3940.38	4093.15	4758.3	4377.14	5107.65	5079.57	4390.63	4658.29	3940.38	
G16	3696.93	3868.54	4530.43	4153.33	4878.56	4859.63	4158.9	4431.79	3696.93	
G17	3467.37	3655.4	4303.74	3925.04	4652.48	4629.64	3922.53	4210.39	3467.37	
G18	3235.3	3446.93	4081.68	3716.52	4429.57	4404.7	3690.28	3992.1	3235.3	
G19	3017.53	3245.21	3847.3	3499.08	4207.98	4188.11	3463.21	3772.35	3017.53	
G20	2801.28	3051.52	3620.1	3302.51	3967.04	3965.91	3240.16	3572.57	2801.28	
G21	2577.0	2860.56	3396.05	3116.88	3740.26	3763.2	3007.76	3369.95	2577.0	
G22	2338.47	2682.44	3172.72	2937.58	3514.38	3567.05	2777.07	3185.79	2338.47	
G23	2096.39	2509.65	2945.89	2760.78	3305.1	3370.28	2546.79	3007.48	2096.39	
G24	1855.03	2333.18	2725.76	2587.9	3085.97	3178.85	2311.99	2826.53	1855.03	
G25	1612.44	2163.7	2488.46	2417.9	2874.81	2994.55	2073.93	2661.2	1612.44	
G26	1375.88	1998.36	2254.45	2251.2	2653.79	2814.35	1834.36	2499.41	1375.88	
G27	1158.78	1836.48	2011.34	2082.42	2420.64	2635.0	1596.25	2336.86	1158.78	
G28	967.73	1671.95	1773.47	1917.85	2176.34	2458.49	1374.61	2179.46	967.73	
G29	807.11	1513.42	1543.62	1752.94	1932.57	2290.18	1169.92	2011.91	807.11	
G30	677.75	1354.13	1333.93	1581.71	1688.33	2120.56	994.96	1854.93	677.75	
G31	577.74	1197.29	1140.75	1412.93	1455.41	1950.88	846.29	1682.24	577.74	
G32	494.39	1044.56	969.57	1251.76	1235.14	1783.48	724.05	1512.28	494.39	
G33	427.65	897.21	820.33	1094.4	1039.61	1622.63	616.91	1346.06	427.65	
G34	373.52	756.61	698.23	940.49	869.51	1458.29	530.21	1184.12	373.52	
G35	330.66	632.44	597.32	788.19	731.98	1301.03	457.43	1019.69	330.66	
G36	296.35	525.73	516.76	653.63	621.87	1142.73	399.66	860.02	296.35	

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	269.35	439.59	449.27	538.33	531.53	990.66	352.66	719.14	269.35	
G38	245.75	371.86	395.65	444.31	457.05	843.6	314.43	598.88	245.75	
G39	226.64	321.03	350.58	372.1	398.39	713.29	281.81	499.44	226.64	
G40	210.64	280.87	315.61	316.27	350.34	600.86	255.57	420.19	210.64	
G41	196.72	248.54	286.86	273.27	313.01	506.47	233.01	358.04	196.72	
G42	185.15	223.85	262.84	240.99	282.62	429.49	215.27	309.75	185.15	
G43	176.0	205.07	242.64	216.3	258.92	368.32	200.16	273.22	176.0	
G44	167.79	190.16	225.79	198.23	238.06	319.66	187.32	246.18	167.79	
G45	160.89	179.16	210.78	184.4	221.78	282.62	176.19	225.88	160.89	
G46	154.48	169.81	198.46	174.35	206.96	252.69	166.84	211.06	154.48	
G47	149.05	162.73	187.47	165.57	196.2	230.04	158.63	197.94	149.05	
G48	144.23	155.75	179.02	158.63	185.86	212.24	152.12	188.27	144.23	
G49	139.04	149.43	170.57	152.3	177.74	199.17	145.93	180.15	139.04	
G50	134.18	144.23	163.87	146.92	170.33	187.65	140.74	172.93	134.18	
G51	129.84	139.14	157.4	141.4	164.34	178.69	135.36	166.09	129.84	
G52	124.98	134.09	152.07	136.87	158.25	170.71	130.83	160.28	124.98	
G53	120.21	129.37	146.88	131.87	152.82	163.68	125.64	154.57	120.21	
G54	115.63	125.17	141.54	127.81	147.49	157.54	120.97	149.47	115.63	
G55	110.72	120.68	136.54	123.04	142.91	151.08	116.34	144.04	110.72	
G56	105.86	116.25	131.68	119.13	137.2	145.46	111.9	139.18	105.86	
G57	100.95	111.62	126.25	114.55	132.62	140.65	107.04	134.46	100.95	
G58	95.9	107.28	121.11	110.49	127.15	135.46	102.18	129.84	95.9	
G59	90.9	102.84	115.87	106.15	122.33	130.55	97.18	124.98	90.9	
G60	85.38	98.12	110.82	102.13	117.38	125.73	92.55	120.26	85.38	
G61	79.48	93.36	105.67	97.7	112.52	121.15	87.31	115.59	79.48	
G62	76.65	88.73	100.25	93.12	107.09	116.1	81.84	110.77	76.65	
G63	74.29	83.82	93.92	88.45	102.32	111.34	76.74	105.77	74.29	
G64	71.98	79.05	88.97	83.96	96.19	106.29	74.48	100.81	71.98	
G65	69.33	74.24	85.9	79.05	90.1	101.47	72.12	95.72	69.33	
G66	66.74	70.18	83.26	74.62	86.18	96.19	69.62	90.85	66.74	
G67	64.19	67.54	80.38	70.18	83.49	91.28	67.11	85.24	64.19	
G68	61.54	64.42	77.69	67.26	80.71	86.18	64.57	81.04	61.54	
G69	58.9	61.5	74.57	64.66	78.02	81.46	61.92	77.59	58.9	
G70	56.07	58.71	71.98	61.78	75.14	77.87	59.42	74.76	56.07	
G71	53.62	56.12	69.1	58.76	72.64	74.52	56.64	71.5	53.62	
G72	50.69	52.81	66.31	56.02	69.76	71.31	53.9	68.25	50.69	
G73	47.53	49.84	63.34	52.91	66.97	68.48	50.97	65.08	47.53	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:49:03

G Range: 0 - 90 Deg

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

Test Speed: High

Operators: QC01

Test Date: 2025/

Test Date: 2025/9/19 10:15:03

G Interval: 1.0 Deg

Test System: Huipu

Humidity: 60

Test Distance

Remarks:

Remarks: