

Report No.:

Test Time: 2025/5/13 18:40:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120H140-60°-40W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 105 mm

Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.61 W
Power Factor: 0.9730
Lamp Luminous Flux: 3767.39

Photometric Results

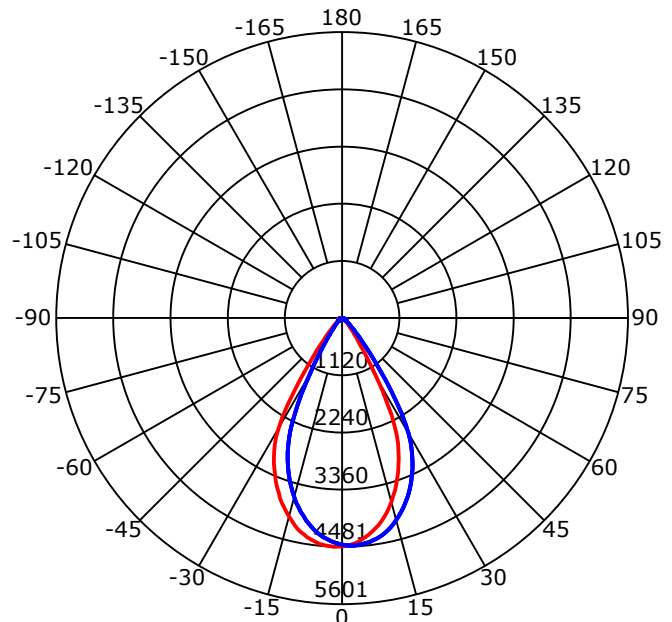
CIE Class: Direct
Luminaire Luminous Flux: 3767.389 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.11 lm/W
Beam Angle(50%) C0-180,C90-270: 57.7,57.5
Field Angle(10%) C0-180,C90-270: 78.1,79.3
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 4480.54 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4475.07 cd
Effective Luminous Flux: 3383.39 lm
ERP(ϕ use)(120deg): 3658.99 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 57.7 deg,57.5 deg

C0-180 — C90-270 —

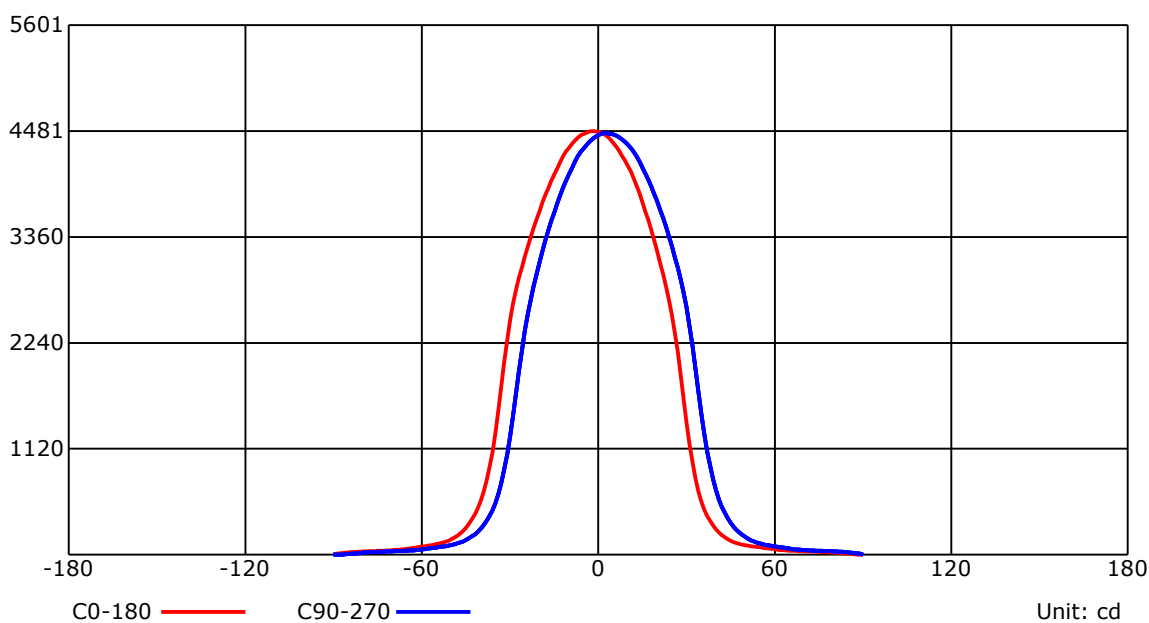
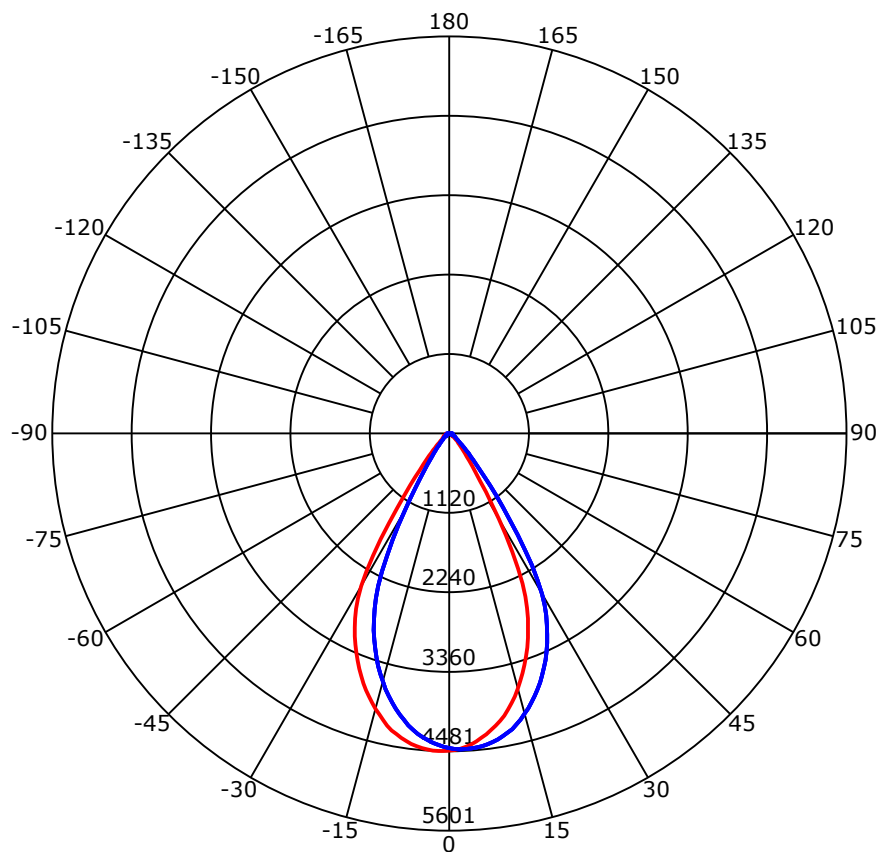
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:40:50

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



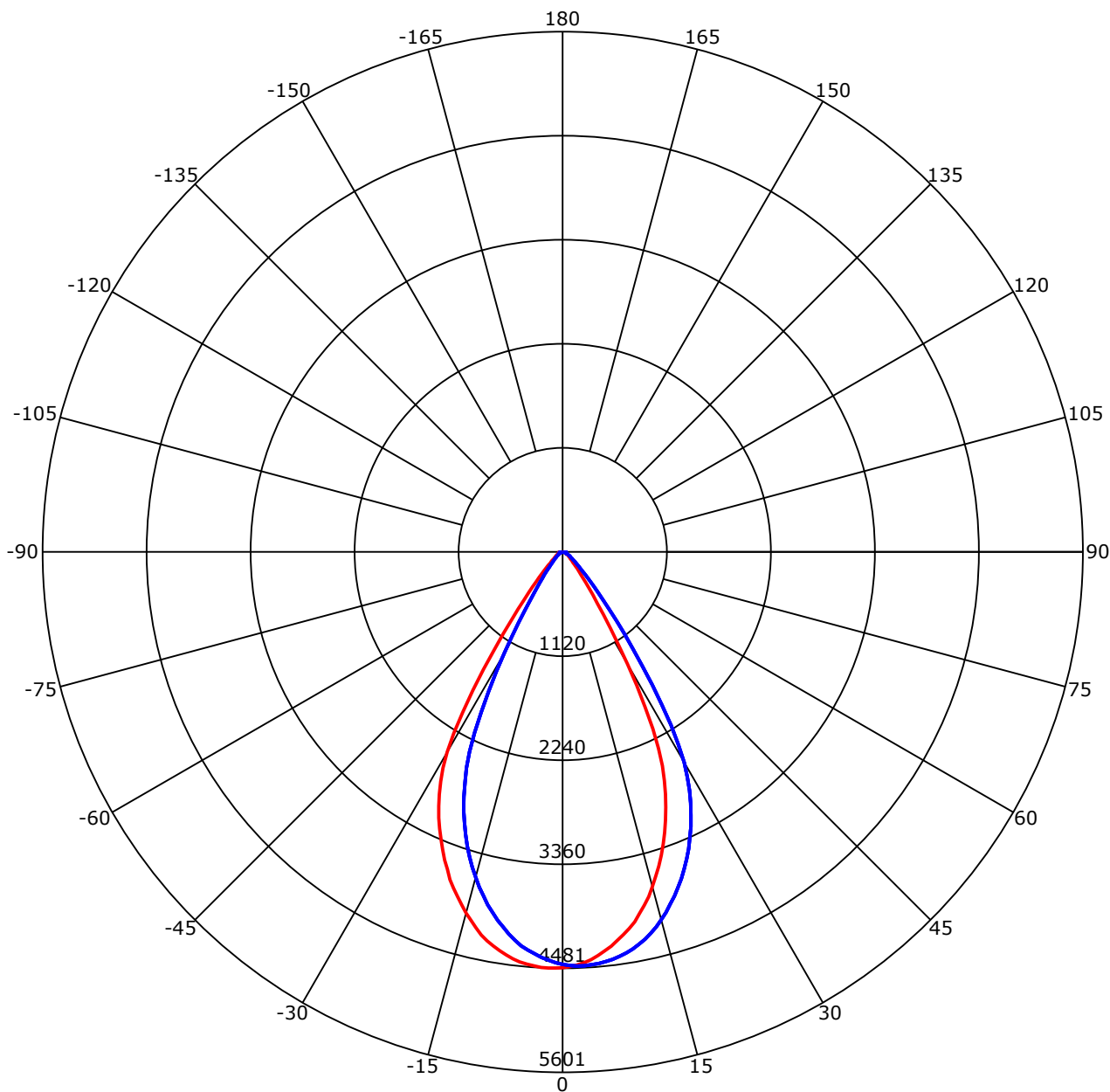
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

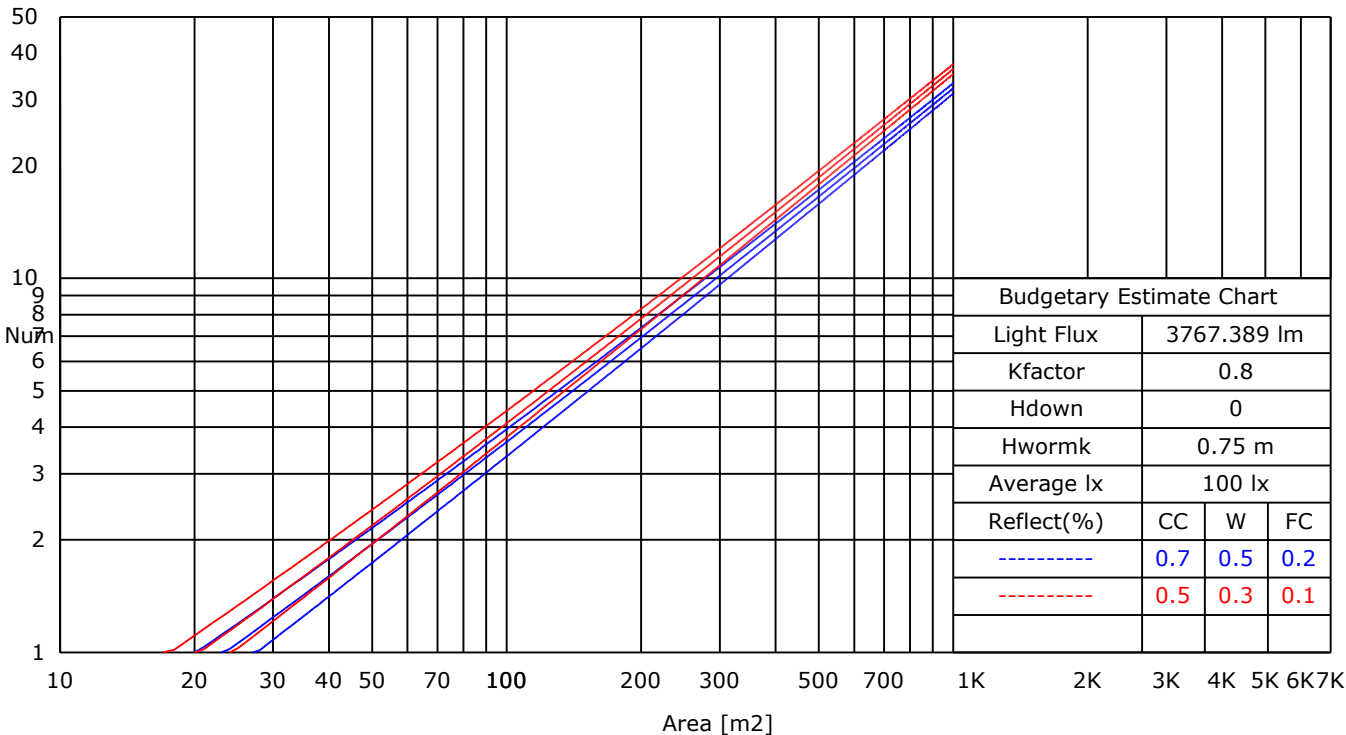
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:40:50

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Test Distance: 6.87 m
Remarks:

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	1.06	1.04	1.03	1.04	1.02	1.01	1.01	0.98	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.00	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.73
4	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	0.70
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.76	0.78	0.74	0.71	0.67
6	0.85	0.83	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.74	0.69	0.66	0.63
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

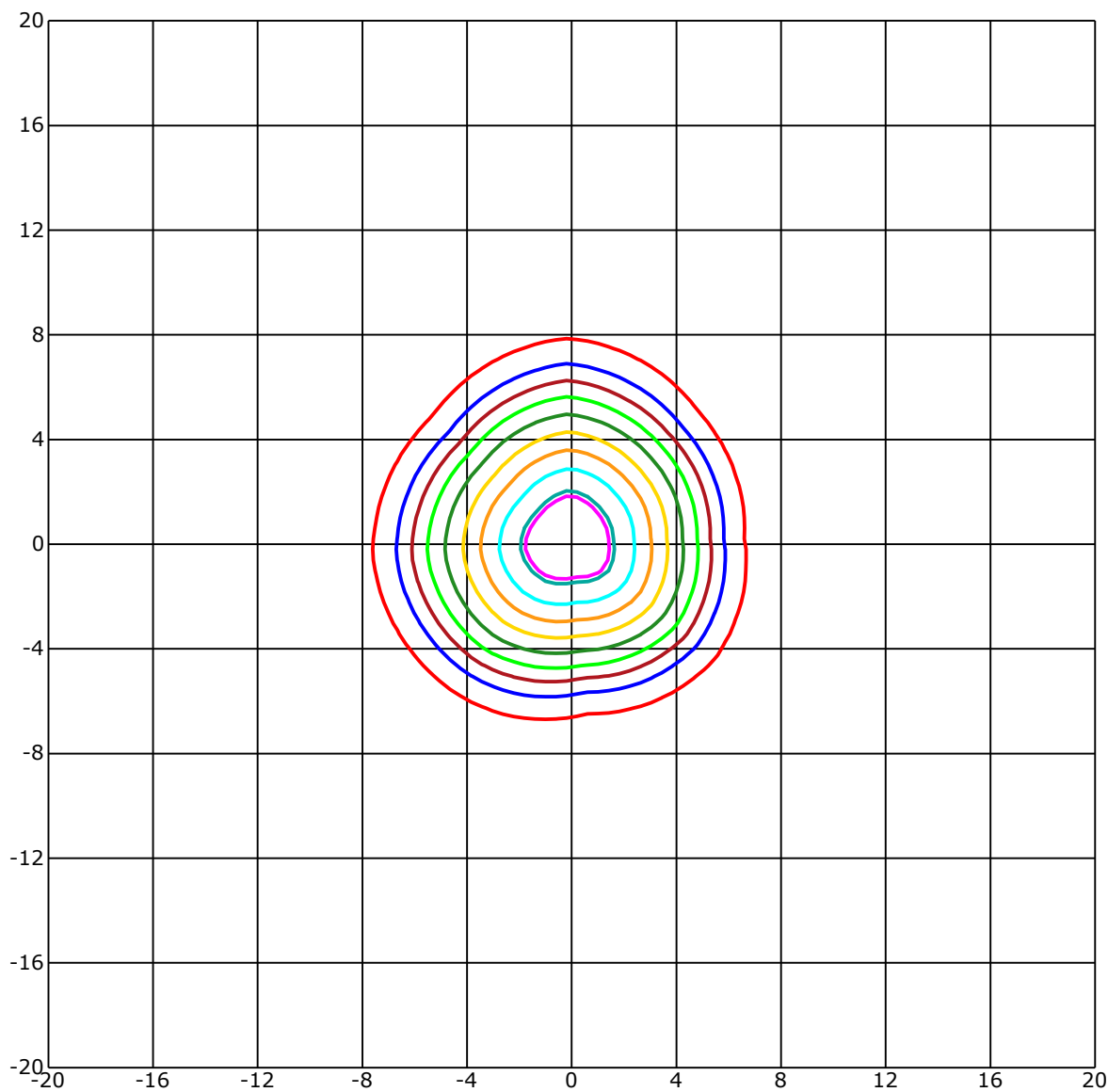
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



Report No.:

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ISOLX DIAGRAM



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

41.171(92%Emax)	22.375(50%Emax)
40.276(90%Emax)	17.9(40%Emax)
35.801(80%Emax)	13.425(30%Emax)
31.325(70%Emax)	8.95(20%Emax)
26.85(60%Emax)	4.475(10%Emax)

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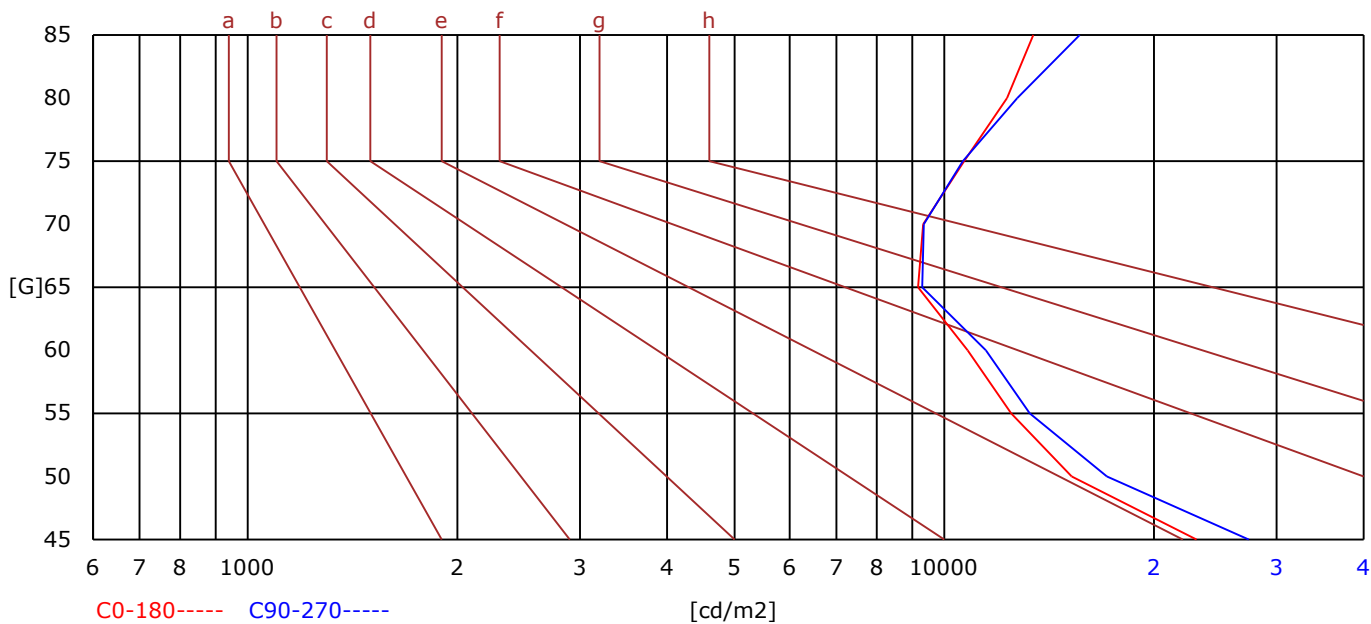
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	23010	15234	12473	10804	9172	9323	10678	12304	13417
C90	27353	17116	13263	11476	9297	9346	10631	12723	15646
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



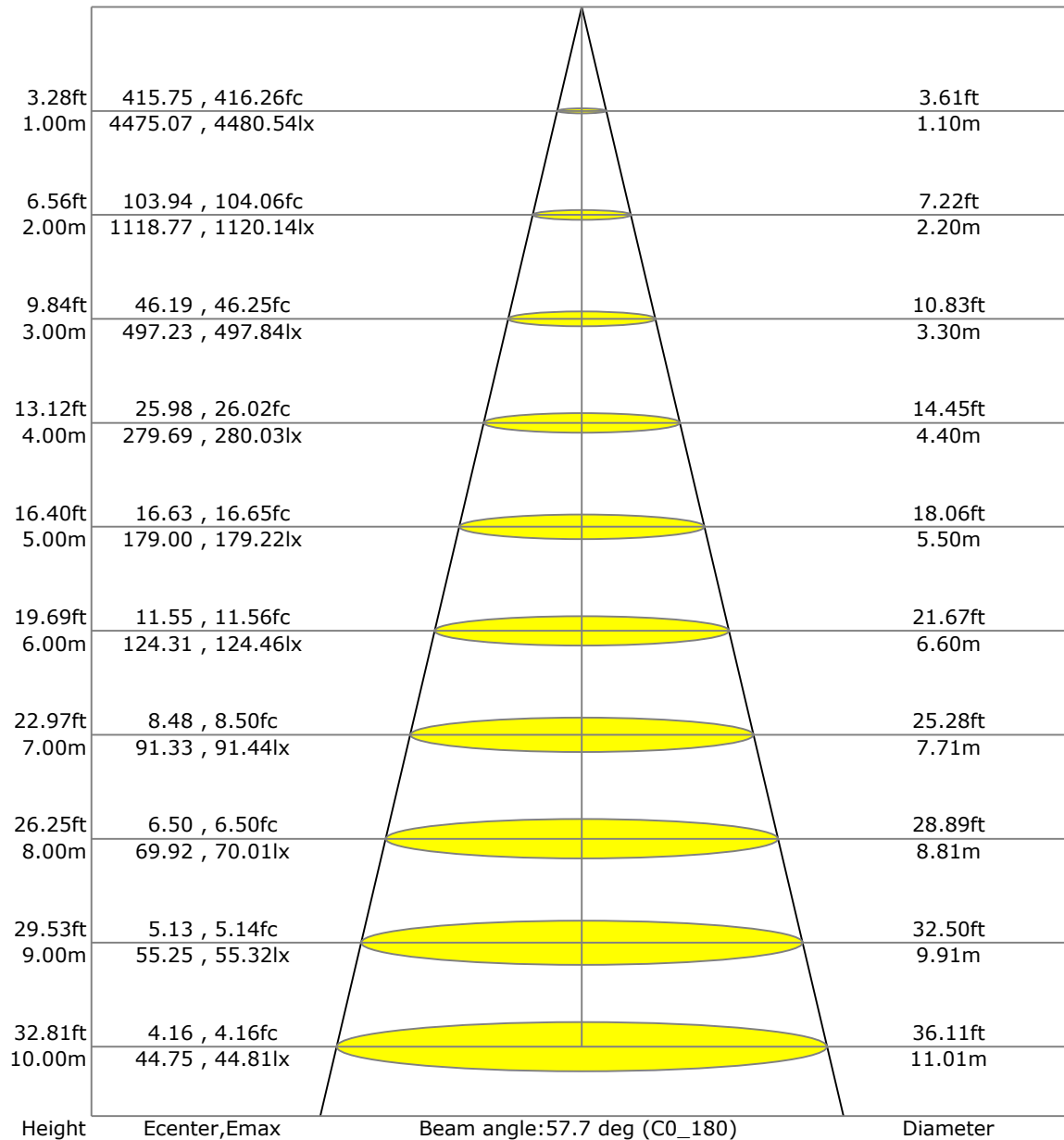
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G Range: 0 - 90 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/13 18:40:50

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	10.88	10.93	11.08	11.12	11.36	11.25	11.30	11.45	11.49	11.73
3H	10.90	10.95	11.11	11.15	11.39	11.25	11.30	11.46	11.50	11.74
4H	10.90	10.95	11.11	11.15	11.40	11.24	11.30	11.45	11.49	11.74
6H	10.89	10.94	11.10	11.14	11.39	11.23	11.28	11.45	11.48	11.73
8H	10.88	10.93	11.10	11.13	11.39	11.22	11.27	11.44	11.48	11.73
12H	10.87	10.92	11.09	11.12	11.38	11.21	11.26	11.43	11.47	11.72
4H 2H	11.41	11.46	11.62	11.66	11.91	11.96	12.01	12.17	12.21	12.45
3H	11.54	11.59	11.76	11.79	12.05	12.07	12.12	12.29	12.32	12.58
4H	11.58	11.63	11.81	11.84	12.10	12.10	12.15	12.32	12.36	12.62
6H	11.60	11.65	11.84	11.87	12.13	12.10	12.15	12.34	12.37	12.63
8H	11.60	11.65	11.84	11.88	12.14	12.09	12.14	12.34	12.37	12.63
12H	11.59	11.64	11.84	11.87	12.14	12.08	12.13	12.33	12.36	12.63
8H 4H	11.70	11.75	11.91	11.95	12.20	12.46	12.51	12.67	12.71	12.96
6H	12.13	12.18	12.39	12.41	12.69	12.89	12.94	13.15	13.18	13.45
8H	12.16	12.20	12.42	12.45	12.72	12.91	12.95	13.17	13.19	13.47
12H	12.17	12.21	12.44	12.47	12.75	12.90	12.94	13.17	13.19	13.47
12H 4H	12.14	12.19	12.39	12.42	12.69	13.15	13.19	13.39	13.42	13.69
6H	12.26	12.30	12.52	12.55	12.82	13.27	13.31	13.53	13.56	13.84

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ZONAL LUMINOUS FLUX TABLE

[illegible]

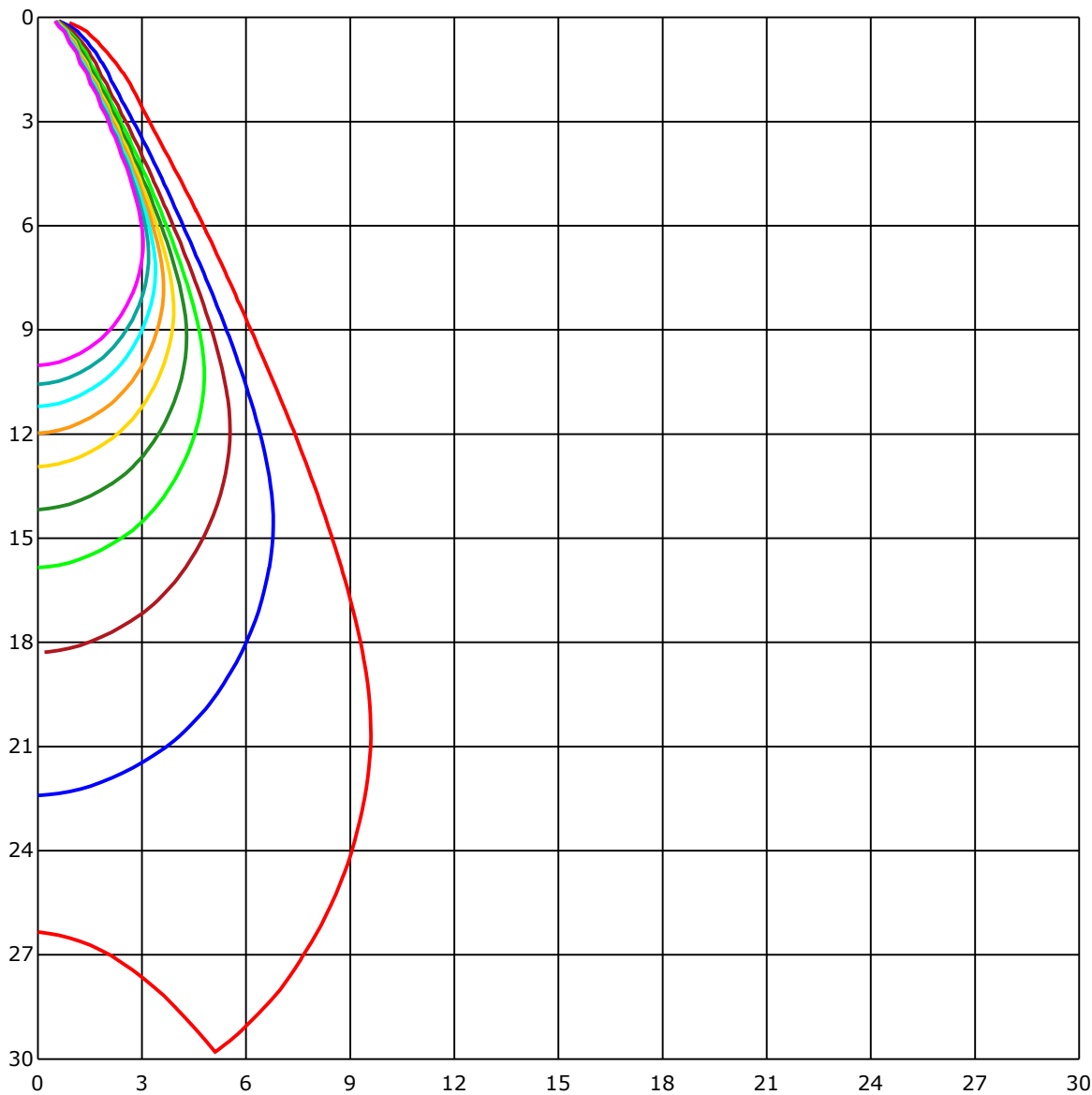
C Range: 0 - 360 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

44.555
40.1
35.644
31.189
26.733

22.278
17.822
13.367
8.911
4.456

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4475.07	4446.89	4437.97	4468.56	4475.07	4446.89	4437.97	4468.56	4475.07	
G1	4464.35	4443.87	4452.04	4463.41	4476.81	4444.11	4420.13	4467.09	4464.35	
G2	4447.65	4434.57	4458.97	4459.97	4480.54	4438.92	4395.07	4459.4	4447.65	
G3	4426.98	4419.94	4458.55	4451.47	4477.24	4431.08	4370.2	4448.31	4426.98	
G4	4397.38	4403.05	4451.14	4434.48	4464.54	4414.14	4335.6	4426.13	4397.38	
G5	4359.25	4379.21	4447.03	4416.92	4451.71	4385.82	4299.59	4402.1	4359.25	
G6	4317.53	4348.77	4432.4	4389.83	4436.13	4364.11	4261.46	4374.02	4317.53	
G7	4274.53	4312.66	4416.78	4360.0	4409.37	4330.17	4211.76	4333.9	4274.53	
G8	4221.2	4272.17	4393.37	4322.2	4378.36	4293.79	4154.55	4288.03	4221.2	
G9	4171.12	4231.82	4368.45	4279.44	4344.48	4249.56	4089.05	4238.19	4171.12	
G10	4116.7	4179.43	4337.25	4232.0	4304.07	4203.59	4026.84	4190.28	4116.7	
G11	4054.88	4124.4	4300.3	4177.21	4264.71	4144.88	3953.59	4136.01	4054.88	
G12	3978.09	4067.62	4261.5	4118.31	4213.31	4086.54	3880.77	4069.65	3978.09	
G13	3902.29	4001.97	4211.99	4051.76	4151.16	4025.61	3799.12	4000.46	3902.29	
G14	3824.65	3932.63	4157.58	3982.33	4084.14	3966.48	3717.04	3935.37	3824.65	
G15	3729.83	3853.25	4094.71	3904.84	4023.25	3892.33	3621.32	3853.34	3729.83	
G16	3631.42	3774.24	4034.01	3828.9	3950.9	3813.04	3530.33	3777.5	3631.42	
G17	3536.23	3688.82	3962.65	3744.6	3875.95	3742.57	3429.04	3685.42	3536.23	
G18	3432.39	3589.18	3893.18	3663.66	3806.15	3647.14	3327.1	3598.67	3432.39	
G19	3323.28	3496.63	3814.78	3573.14	3728.41	3558.65	3212.98	3489.65	3323.28	
G20	3212.03	3390.63	3739.03	3477.14	3633.55	3466.42	3095.74	3392.18	3212.03	
G21	3090.41	3285.71	3652.85	3375.71	3551.66	3374.01	2973.31	3287.03	3090.41	
G22	2962.97	3177.39	3560.39	3283.49	3454.72	3274.19	2837.38	3173.1	2962.97	
G23	2834.6	3058.78	3469.3	3169.23	3357.68	3164.51	2692.21	3056.9	2834.6	
G24	2692.39	2935.03	3366.84	3059.35	3258.05	3049.49	2545.52	2924.89	2692.39	
G25	2538.44	2796.65	3263.81	2936.69	3156.53	2934.61	2373.91	2790.19	2538.44	
G26	2353.57	2649.07	3151.29	2809.4	3042.93	2800.99	2163.55	2650.53	2353.57	
G27	2136.18	2483.08	3031.27	2663.09	2926.87	2661.1	1933.19	2484.96	2136.18	
G28	1890.8	2285.37	2904.78	2496.91	2798.35	2488.08	1702.3	2282.49	1890.8	
G29	1639.86	2064.44	2767.77	2297.45	2658.6	2293.34	1471.69	2060.19	1639.86	
G30	1392.21	1819.11	2615.94	2069.68	2486.24	2065.67	1258.74	1824.87	1392.21	
G31	1173.03	1576.33	2418.32	1825.67	2273.38	1828.74	1064.29	1584.64	1173.03	
G32	973.91	1342.19	2198.53	1587.04	2031.69	1589.78	898.11	1353.23	973.91	
G33	803.72	1133.25	1961.5	1363.94	1775.83	1363.09	756.66	1144.76	803.72	
G34	667.22	951.3	1725.24	1154.81	1524.27	1152.12	640.32	964.28	667.22	
G35	562.21	799.8	1495.62	972.82	1289.61	969.05	545.45	808.44	562.21	
G36	479.52	673.64	1285.17	820.42	1085.62	817.36	470.74	681.81	479.52	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 18:40:50

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	411.65	571.13	1096.53	694.27	916.99	696.11	408.58	580.85	411.65	
G38	355.91	487.92	934.55	592.98	778.04	596.0	356.2	498.26	355.91	
G39	309.99	419.91	794.98	510.01	664.58	516.29	312.02	431.85	309.99	
G40	269.31	363.84	679.97	442.9	568.96	448.04	274.36	378.28	269.31	
G41	234.76	316.46	583.21	384.94	491.04	391.5	241.93	331.98	234.76	
G42	206.53	276.57	504.87	335.62	426.14	342.89	215.03	292.15	206.53	
G43	183.41	242.69	439.97	293.23	373.04	301.26	192.28	258.45	183.41	
G44	164.58	214.04	384.14	256.99	326.56	266.19	172.88	230.13	164.58	
G45	148.1	189.78	336.7	225.6	286.34	236.36	155.42	205.87	148.1	
G46	134.32	169.25	296.59	199.69	251.65	210.78	140.84	185.58	134.32	
G47	123.33	152.12	261.85	177.37	223.01	189.07	127.95	167.36	123.33	
G48	114.31	137.15	232.78	158.39	198.65	170.38	117.9	152.4	114.31	
G49	107.09	124.51	208.04	141.64	179.16	155.09	108.98	140.32	107.09	
G50	100.72	114.22	186.33	128.33	162.03	142.3	102.18	130.41	100.72	
G51	95.34	106.05	167.45	117.43	147.87	131.82	96.19	122.19	95.34	
G52	90.1	99.11	151.5	108.65	135.83	122.85	90.52	114.88	90.1	
G53	86.18	93.4	138.15	100.72	126.3	115.21	85.33	108.41	86.18	
G54	81.6	87.98	127.38	94.35	118.04	108.46	80.85	103.08	81.6	
G55	77.5	83.44	118.13	88.73	111.29	102.7	76.27	97.74	77.5	
G56	73.67	78.96	110.44	83.96	105.06	97.37	72.12	92.65	73.67	
G57	69.57	74.9	103.6	79.57	99.77	92.46	67.77	88.02	69.57	
G58	65.37	70.98	98.08	75.14	94.44	87.83	63.57	83.49	65.37	
G59	61.45	66.97	92.46	70.89	89.63	82.78	59.18	78.91	61.45	
G60	57.2	63.01	87.83	66.93	85.05	78.11	54.56	74.52	57.2	
G61	52.67	59.04	83.02	62.58	80.66	73.49	50.45	69.8	52.67	
G62	48.71	54.84	78.82	58.62	75.99	68.62	47.76	64.75	48.71	
G63	46.68	50.45	73.86	54.28	71.41	63.53	45.78	60.88	46.68	
G64	44.65	47.1	69.52	49.08	66.12	59.33	43.85	58.1	44.65	
G65	42.95	45.21	64.57	45.83	60.98	56.64	42.05	55.55	42.95	
G66	41.34	43.52	60.08	43.99	57.3	54.18	40.59	53.66	41.34	
G67	39.88	41.72	56.78	41.96	54.8	52.15	39.22	51.4	39.88	
G68	38.51	40.02	54.32	40.26	52.25	50.03	38.09	49.23	38.51	
G69	37.38	38.65	51.87	38.61	50.26	48.14	37.0	47.57	37.38	
G70	36.39	37.19	49.98	37.29	47.81	46.35	36.25	46.06	36.39	
G71	35.68	36.2	47.67	35.96	46.16	44.88	35.21	44.98	35.68	
G72	34.6	35.21	46.02	34.78	44.55	43.66	34.08	43.85	34.6	
G73	33.37	34.36	44.51	33.98	43.14	42.67	32.8	42.81	33.37	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 18:40:50

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
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:40:50

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