

Report No.:

Test Time: 2025/7/16 18:26:37

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.70 V
Current(A): 0.3410 A
Power(W): 72.42 W
Power Factor: 0.9650
Lamp Luminous Flux: 6515.58

Photometric Results

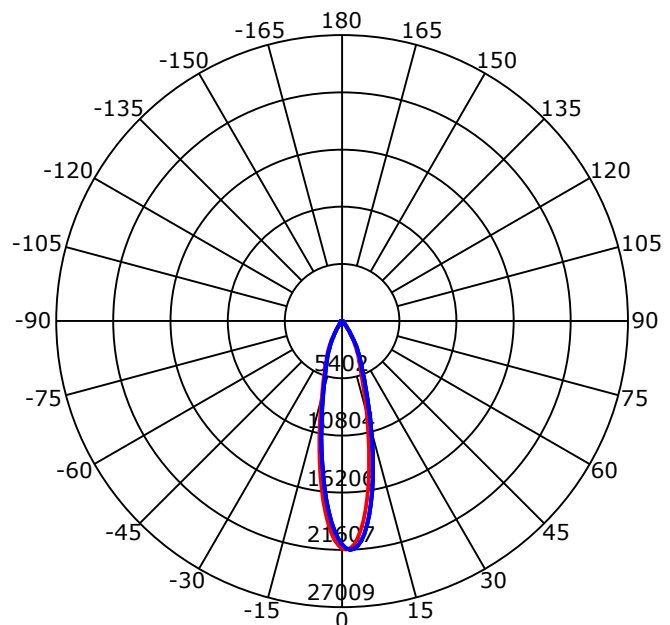
CIE Class: Direct
Luminaire Luminous Flux: 6515.575 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.97 lm/W
Beam Angle(50%) C0-180,C90-270: 24.6,25.3
Field Angle(10%) C0-180,C90-270: 58.6,58.8
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 21607.50 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 21508.66 cd
Effective Luminous Flux: 5466.33 lm
ERP(ϕ use)(120deg): 6425.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.6 deg,25.3 deg

C0-180 — C90-270 —

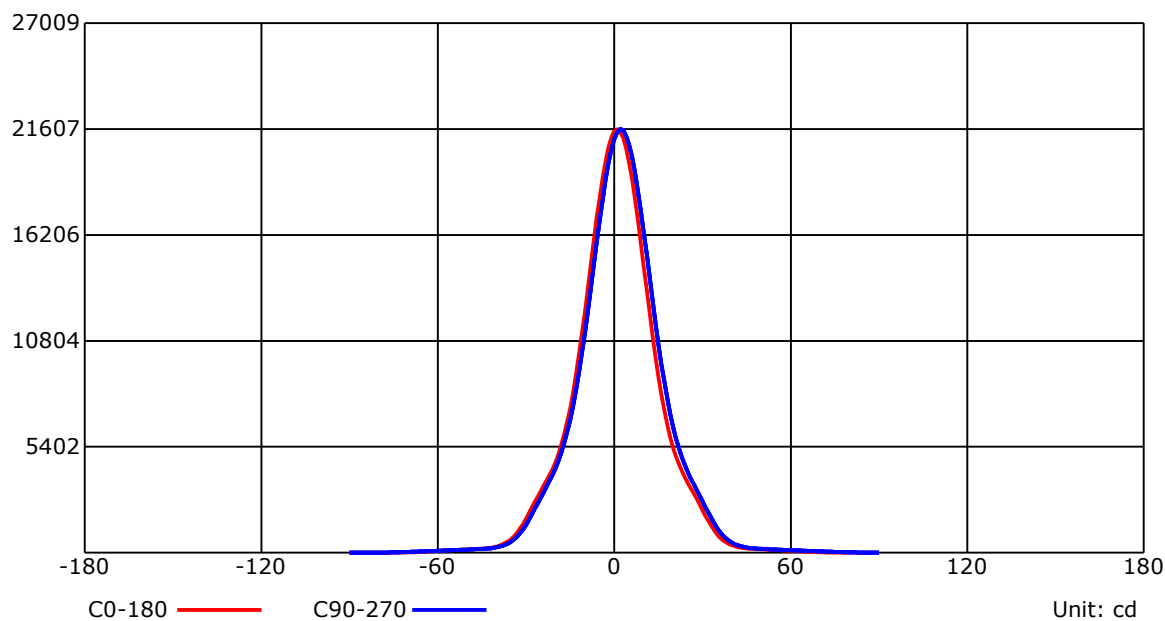
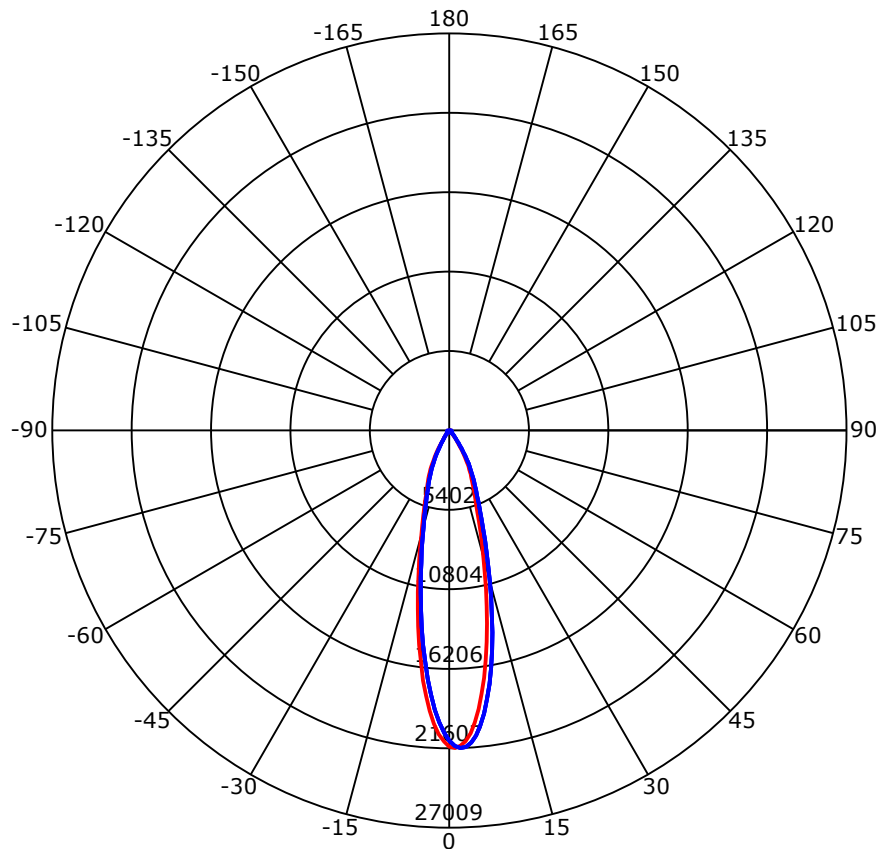
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

Luminous Intensity Distribution Curve



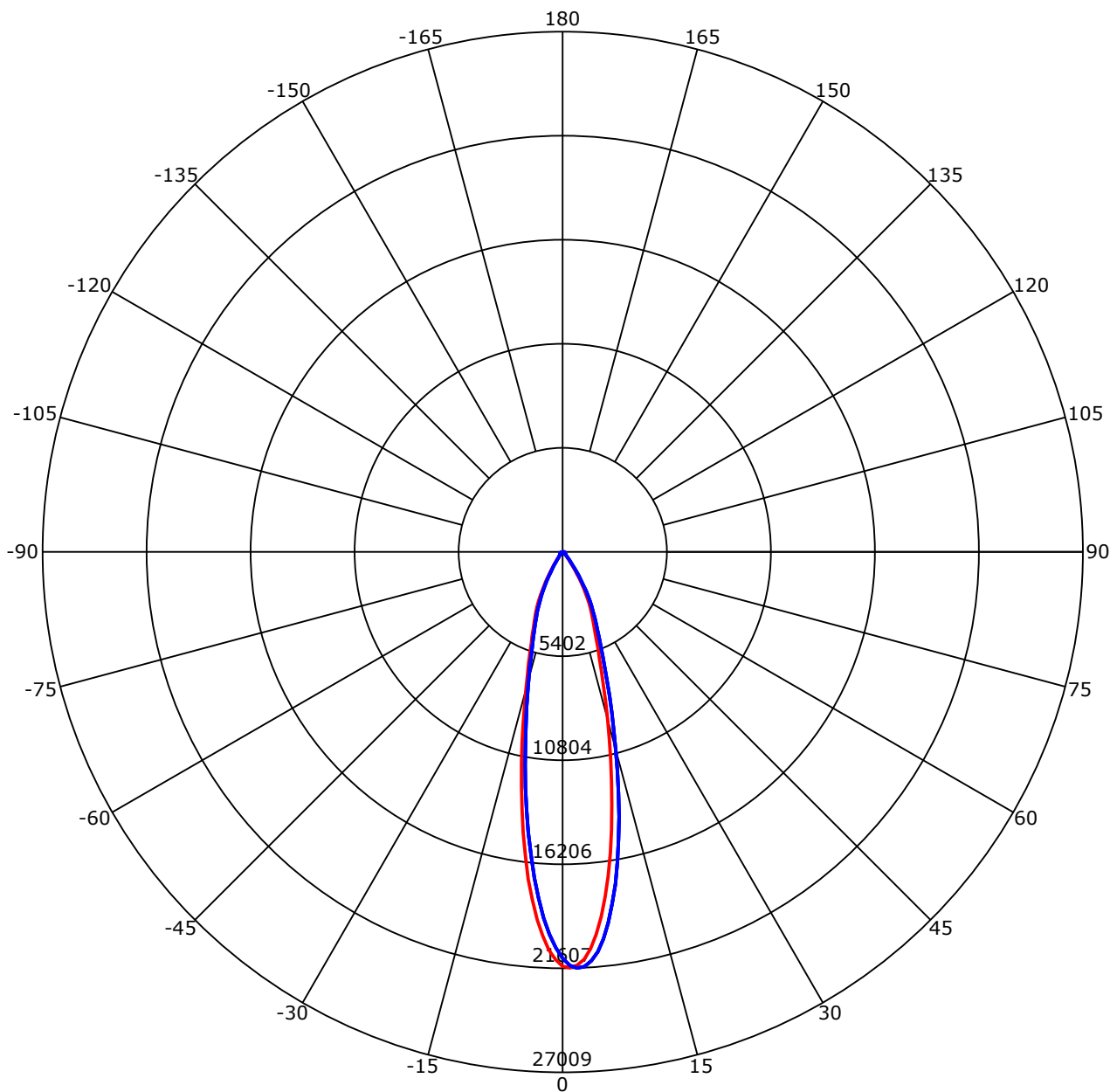
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

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

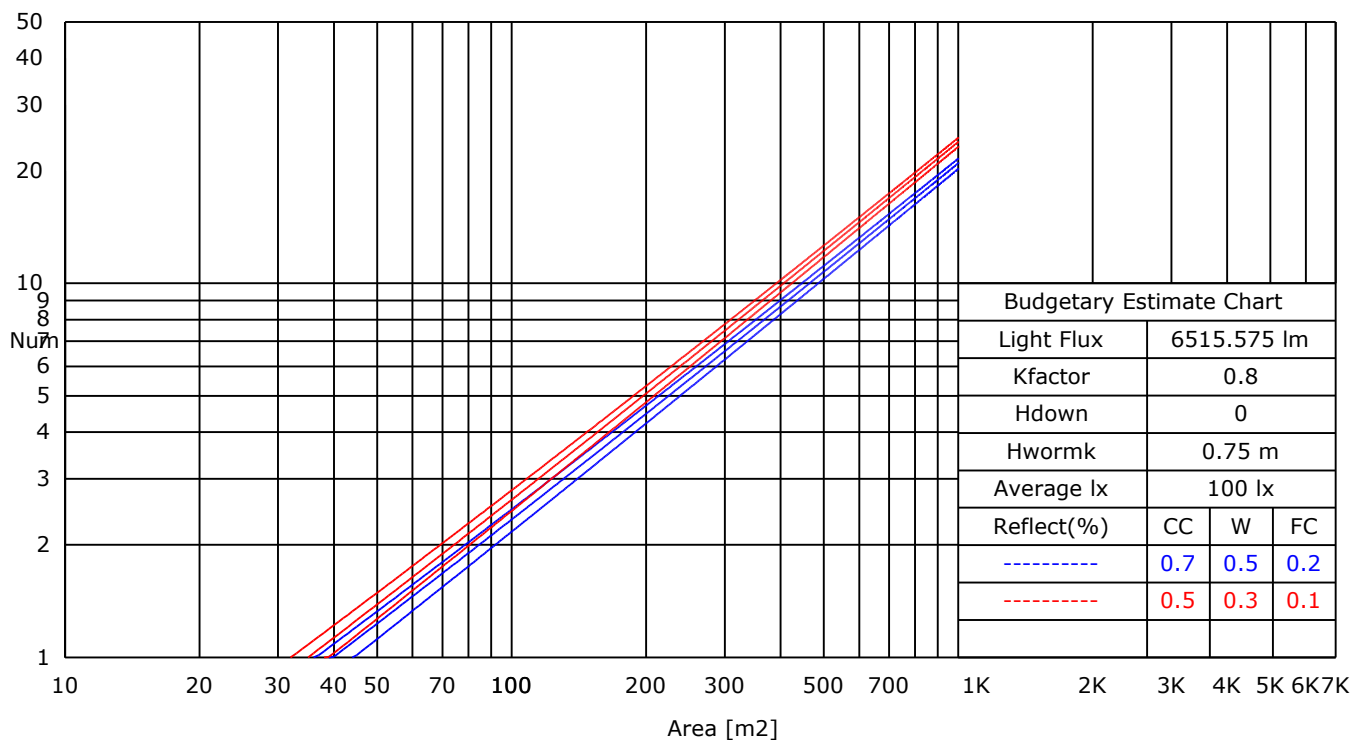
Report No.:

Test Time: 2025/7/16 18:26:37

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	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.83	0.86	0.82	0.79	0.81	0.77	0.74	0.68
2	0.89	0.87	0.85	0.89	0.85	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.71	0.66
3	0.86	0.83	0.82	0.85	0.82	0.80	0.83	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.83	0.81	0.79	0.82	0.79	0.78	0.80	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.62
5	0.80	0.78	0.77	0.79	0.77	0.75	0.78	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.71	0.66	0.62	0.59
7	0.76	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
8	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.71	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.70	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



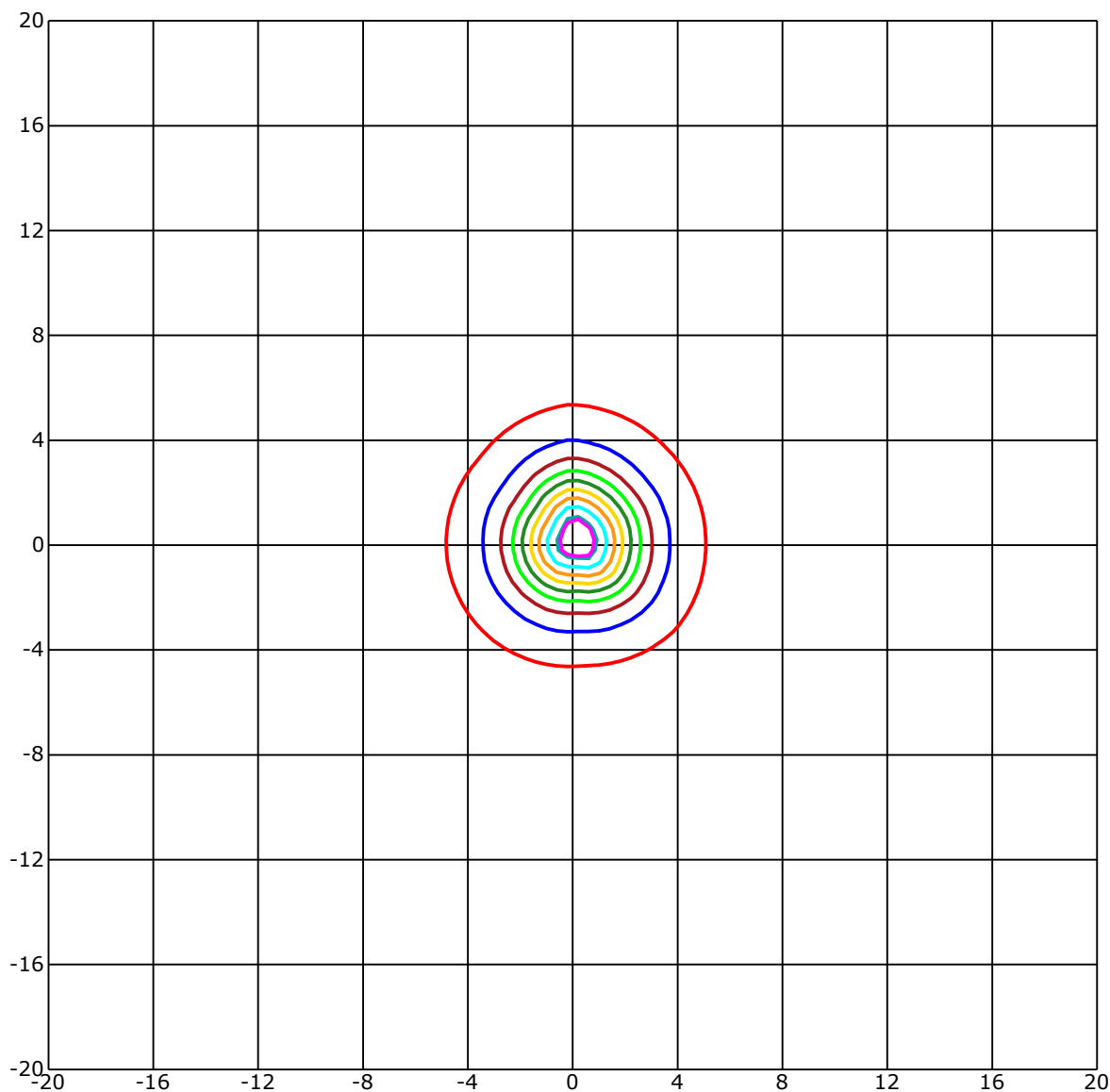
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

ISOLX DIAGRAM



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

198.689(92%Emax)	107.983(50%Emax)
194.369(90%Emax)	86.386(40%Emax)
172.773(80%Emax)	64.79(30%Emax)
151.176(70%Emax)	43.193(20%Emax)
129.58(60%Emax)	21.597(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

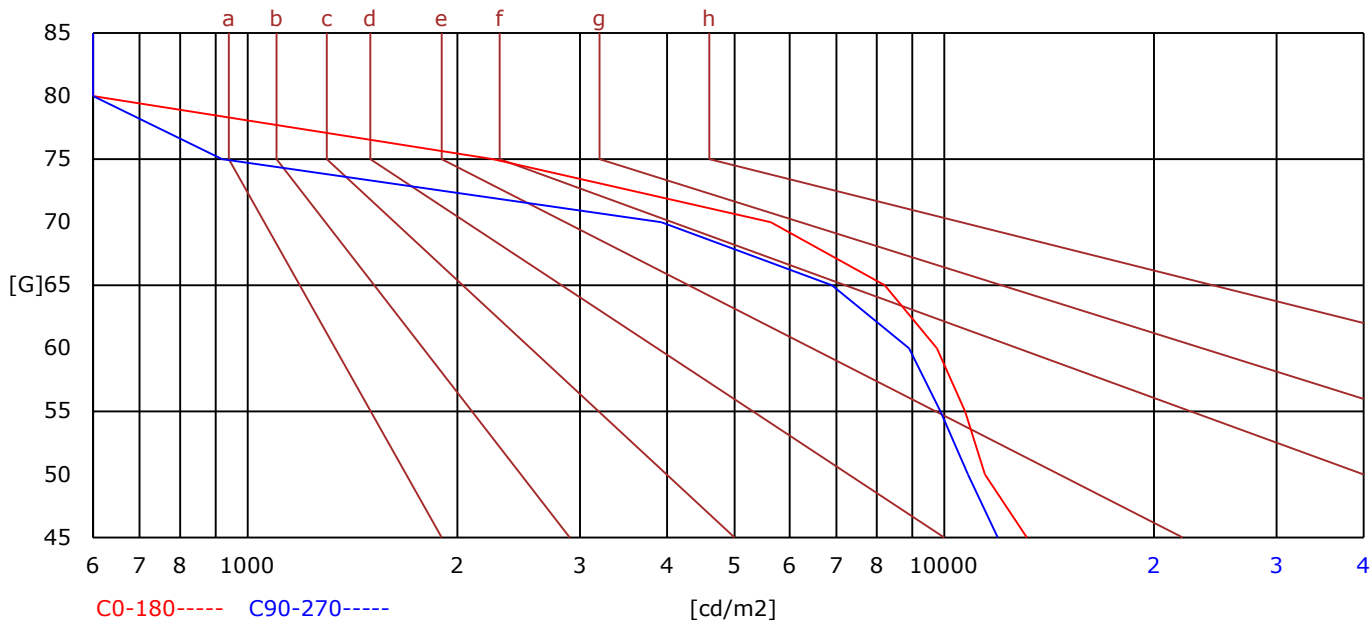
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/16 18:26:37

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13145	11436	10707	9758	8216	5635	2250	0	0
C90	11935	10816	9877	8904	6900	3926	919	0	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



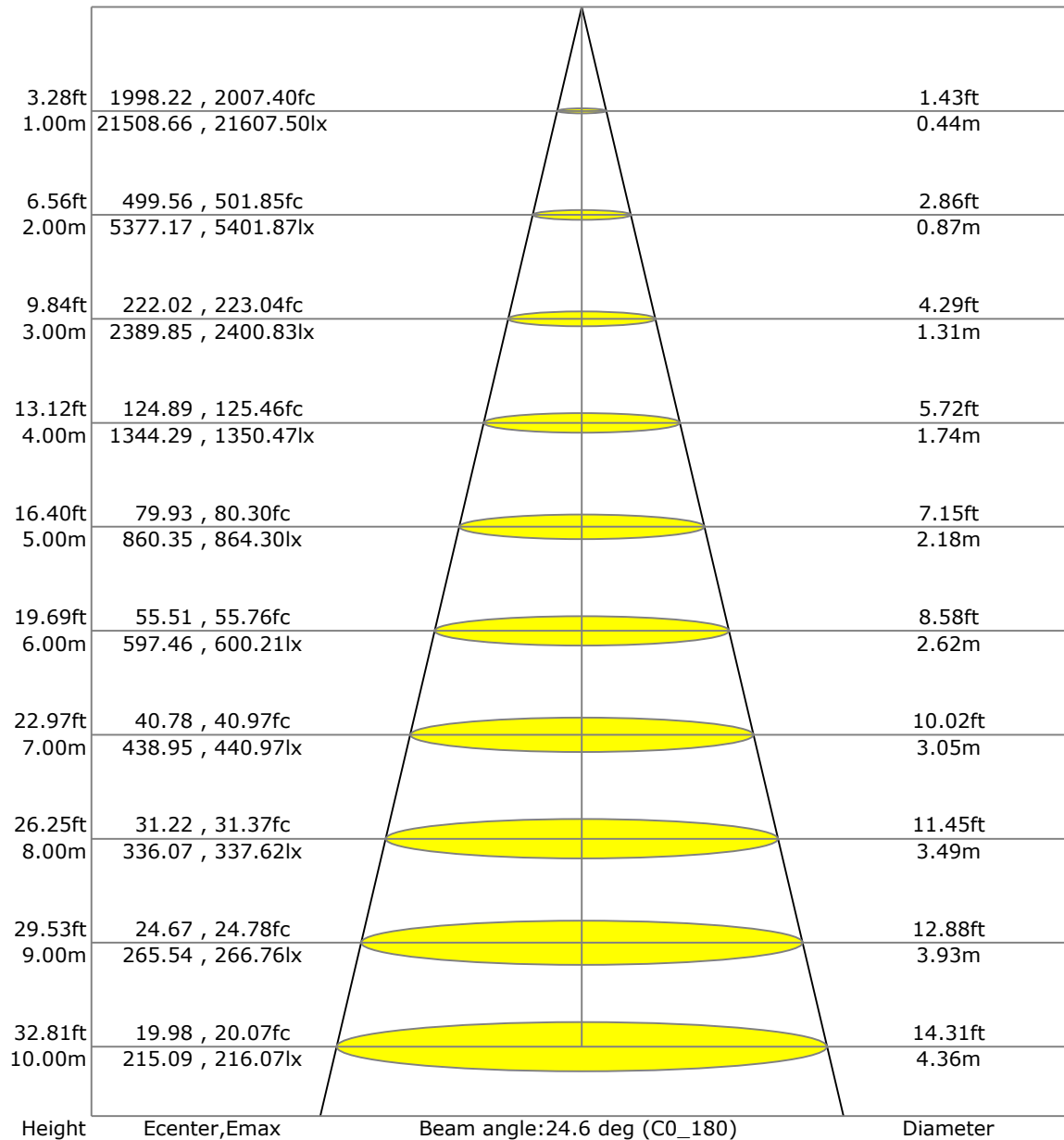
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

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	7.00	7.06	7.20	7.25	7.49	7.15	7.21	7.35	7.39	7.64
3H	7.03	7.09	7.24	7.28	7.53	7.16	7.21	7.36	7.41	7.65
4H	7.02	7.08	7.23	7.28	7.53	7.14	7.20	7.35	7.40	7.65
6H	7.01	7.07	7.22	7.27	7.52	7.13	7.19	7.34	7.39	7.64
8H	7.00	7.06	7.22	7.26	7.51	7.12	7.18	7.34	7.38	7.63
12H	6.99	7.05	7.21	7.26	7.51	7.11	7.17	7.33	7.37	7.63
4H 2H	7.31	7.37	7.52	7.56	7.81	7.88	7.94	8.10	8.14	8.39
3H	7.35	7.41	7.58	7.62	7.87	7.91	7.97	8.13	8.17	8.43
4H	7.34	7.40	7.57	7.61	7.87	7.89	7.95	8.12	8.16	8.42
6H	7.32	7.38	7.56	7.60	7.87	7.87	7.93	8.11	8.15	8.41
8H	7.31	7.37	7.55	7.59	7.86	7.86	7.91	8.10	8.14	8.41
12H	7.30	7.35	7.55	7.58	7.85	7.84	7.90	8.09	8.13	8.40
8H 4H	7.28	7.34	7.50	7.55	7.80	7.94	8.00	8.16	8.21	8.46
6H	7.28	7.34	7.54	7.58	7.85	7.93	7.98	8.18	8.22	8.49
8H	7.27	7.32	7.53	7.57	7.84	7.91	7.96	8.17	8.21	8.49
12H	7.25	7.30	7.52	7.56	7.84	7.89	7.94	8.16	8.20	8.48
12H 4H	7.29	7.35	7.54	7.58	7.85	7.95	8.01	8.20	8.24	8.51
6H	7.27	7.32	7.53	7.57	7.84	7.92	7.97	8.18	8.22	8.50

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

ZONAL LUMINOUS FLUX TABLE

[illegible]

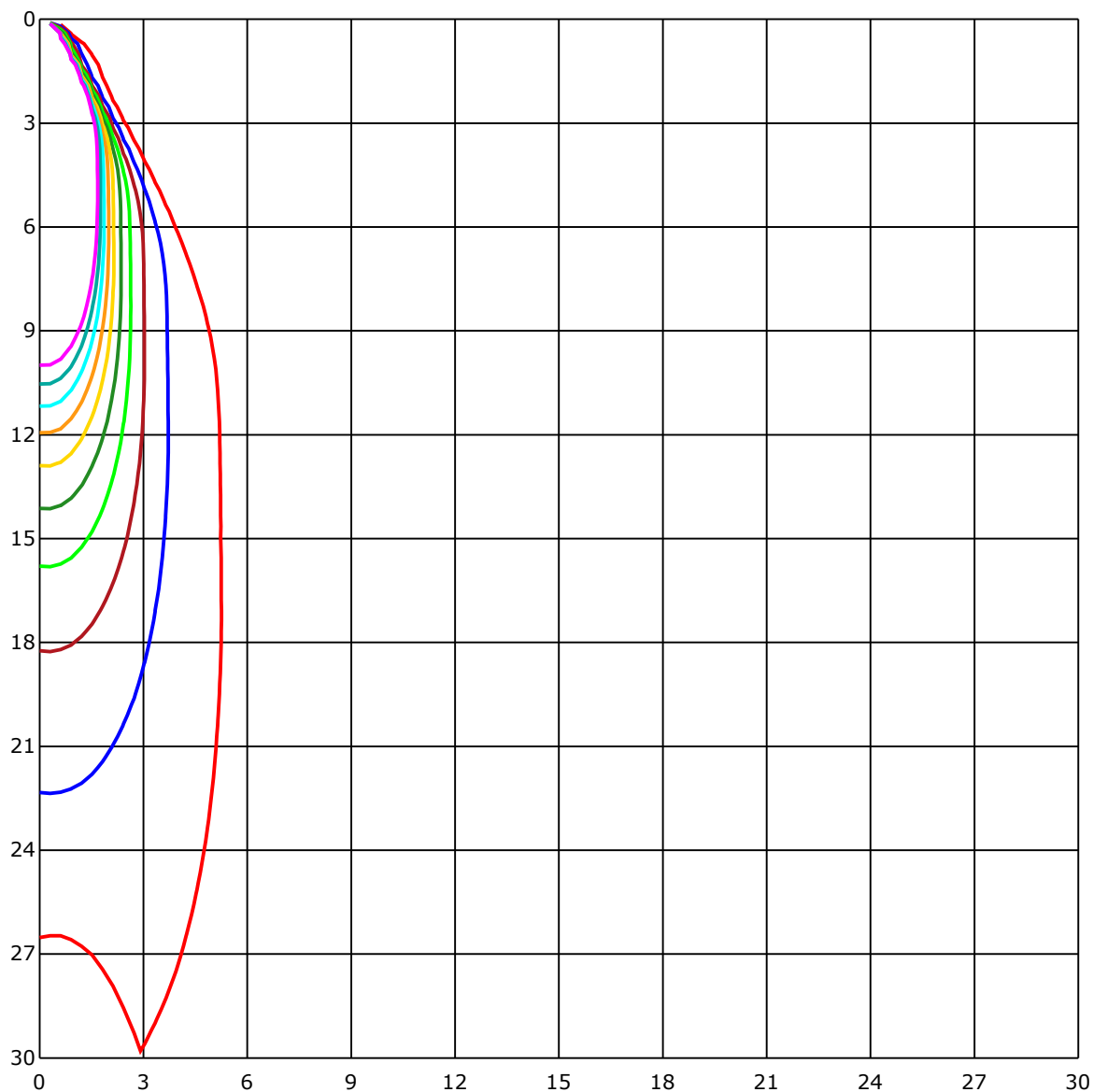
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

SPACE ISOLX DIAGRAM



Unit of illumination:lx

215.622	107.811
194.06	86.249
172.498	64.687
150.936	43.124
129.373	21.562

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	21508.66	21381.75	21085.31	21331.11	21508.66	21381.75	21085.31	21331.11	21508.66	
G1	21586.07	21606.46	21468.22	21092.44	21166.21	20999.79	20552.17	21345.22	21586.07	
G2	21456.46	21578.47	21607.5	20683.62	20678.05	20413.79	19859.65	21220.48	21456.46	
G3	21167.62	21382.27	21553.93	20035.51	19956.6	19642.31	19025.82	20839.41	21167.62	
G4	20638.97	20913.42	21267.68	19280.83	19122.67	18748.73	18001.46	20274.99	20638.97	
G5	19927.33	20332.61	20833.23	18335.0	18137.48	17721.21	16979.6	19526.49	19927.33	
G6	19044.47	19486.09	20186.44	17319.28	17082.35	16578.1	15793.4	18672.98	19044.47	
G7	18037.52	18573.25	19393.3	16209.3	15888.46	15411.34	14650.91	17666.13	18037.52	
G8	16979.84	17493.25	18447.9	15075.4	14719.44	14209.15	13484.25	16632.14	16979.84	
G9	15796.57	16381.05	17457.71	13914.59	13510.11	13049.42	12355.39	15460.34	15796.57	
G10	14608.01	15185.13	16345.09	12788.75	12337.83	11853.74	11231.21	14336.48	14608.01	
G11	13377.82	14006.58	15207.36	11659.24	11181.98	10724.55	10185.37	13123.81	13377.82	
G12	12219.65	12787.76	14039.85	10596.27	10121.89	9693.54	9199.71	12021.14	12219.65	
G13	11045.16	11653.1	12872.39	9567.71	9130.38	8744.12	8322.7	10904.89	11045.16	
G14	9983.61	10486.21	11713.37	8639.86	8204.57	7879.15	7511.39	9904.69	9983.61	
G15	8984.78	9450.09	10634.45	7793.53	7382.96	7098.84	6800.84	8927.1	8984.78	
G16	8092.19	8491.38	9625.48	7054.38	6679.87	6418.92	6166.65	8044.52	8092.19	
G17	7244.54	7640.94	8707.5	6388.9	6057.82	5818.53	5607.56	7256.1	7244.54	
G18	6514.49	6837.42	7856.77	5810.17	5519.54	5307.76	5110.1	6565.09	6514.49	
G19	5881.21	6168.59	7076.7	5295.16	5034.78	4853.16	4698.12	5955.82	5881.21	
G20	5349.11	5576.41	6401.88	4855.52	4630.35	4462.14	4317.48	5420.8	5349.11	
G21	4895.22	5089.15	5816.12	4474.64	4284.82	4131.29	3983.89	4959.59	4895.22	
G22	4494.33	4665.04	5292.66	4141.29	3979.83	3836.35	3674.37	4559.41	4494.33	
G23	4148.23	4287.89	4845.85	3827.72	3693.96	3551.52	3388.5	4201.42	4148.23	
G24	3843.01	3964.4	4458.17	3536.42	3427.49	3277.49	3096.73	3877.84	3843.01	
G25	3553.22	3672.53	4105.9	3256.07	3159.97	3011.16	2810.91	3579.6	3553.22	
G26	3281.32	3390.11	3782.93	2960.1	2884.82	2740.96	2530.89	3295.76	3281.32	
G27	3011.59	3130.33	3481.24	2669.46	2600.36	2463.49	2250.82	3015.46	3011.59	
G28	2740.16	2853.76	3193.25	2387.5	2317.13	2180.87	1964.85	2727.84	2740.16	
G29	2450.23	2583.09	2914.36	2091.53	2031.4	1902.74	1689.89	2441.54	2450.23	
G30	2159.21	2297.07	2615.56	1812.36	1758.93	1626.5	1428.84	2154.4	2159.21	
G31	1872.91	2011.77	2311.89	1541.36	1481.89	1371.78	1203.85	1872.35	1872.91	
G32	1608.75	1733.21	2022.39	1301.03	1243.12	1140.56	999.06	1606.49	1608.75	
G33	1355.35	1474.67	1750.44	1086.28	1029.98	947.67	826.04	1360.22	1355.35	
G34	1127.16	1237.74	1486.18	905.8	852.38	779.69	684.59	1138.3	1127.16	
G35	922.94	1027.38	1250.86	749.82	711.3	645.61	571.46	945.17	922.94	
G36	755.95	846.62	1044.61	630.83	596.62	541.68	482.21	783.19	755.95	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	625.36	697.15	867.9	525.77	504.11	456.91	407.88	653.11	625.36	
G38	519.83	576.46	724.05	444.41	427.04	391.97	351.14	553.43	519.83	
G39	434.92	486.03	608.7	381.87	365.26	343.45	307.68	466.59	434.92	
G40	373.37	407.36	511.9	331.75	317.97	306.21	274.21	401.08	373.37	
G41	323.11	351.52	435.58	294.79	279.12	279.31	245.75	349.45	323.11	
G42	286.3	307.3	376.68	265.2	252.5	255.0	224.0	310.41	286.3	
G43	255.0	276.34	328.96	241.84	233.01	238.58	210.36	278.98	255.0	
G44	234.29	250.99	290.21	226.88	218.85	225.51	201.63	256.61	234.29	
G45	217.96	234.24	263.31	212.67	208.66	216.82	190.63	240.23	217.96	
G46	206.49	219.28	240.37	204.65	197.85	208.56	182.84	227.54	206.49	
G47	199.31	209.79	225.65	193.84	188.88	201.48	177.55	215.74	199.31	
G48	187.51	201.15	213.57	186.66	180.72	191.95	168.49	208.04	187.51	
G49	178.55	192.8	203.47	180.76	173.17	186.85	162.5	201.25	178.55	
G50	171.84	185.25	196.29	175.19	166.18	178.5	156.41	193.27	171.84	
G51	163.82	180.62	187.61	168.96	157.31	171.7	150.94	186.38	163.82	
G52	156.41	172.88	180.39	162.12	150.56	165.66	144.61	180.48	156.41	
G53	149.1	167.69	175.01	155.84	144.14	159.57	138.52	173.87	149.1	
G54	142.02	161.22	167.31	148.81	136.3	152.63	134.32	169.01	142.02	
G55	133.9	154.76	160.66	142.77	127.62	145.27	127.67	162.12	133.9	
G56	127.53	147.96	154.19	137.67	121.67	138.38	121.86	156.41	127.53	
G57	119.69	142.2	149.57	131.16	112.71	132.53	116.15	148.62	119.69	
G58	113.98	136.59	142.25	123.89	104.87	125.64	110.63	143.48	113.98	
G59	104.59	130.59	136.16	117.47	95.76	117.38	104.78	135.41	104.59	
G60	96.66	122.95	130.31	112.19	88.54	109.59	98.97	129.51	96.66	
G61	88.73	116.39	125.5	104.12	78.49	103.36	92.98	122.43	88.73	
G62	81.13	108.74	118.42	97.74	70.18	94.25	86.89	115.82	81.13	
G63	72.21	101.8	112.75	88.82	57.39	86.75	80.23	108.51	72.21	
G64	64.28	94.87	106.85	82.03	47.1	78.49	74.05	101.0	64.28	
G65	54.04	87.5	101.47	73.49	40.73	71.41	68.58	92.6	54.04	
G66	42.24	80.33	93.97	67.11	34.55	62.02	62.44	85.66	42.24	
G67	34.97	72.4	86.7	57.63	29.64	53.52	57.3	77.26	34.97	
G68	30.54	64.47	80.09	49.79	24.64	44.13	51.4	69.76	30.54	
G69	24.83	57.91	74.71	42.67	19.92	36.01	46.16	60.36	24.83	
G70	19.59	48.57	68.95	33.84	15.2	28.18	41.44	51.78	19.59	
G71	15.57	40.07	64.14	26.24	11.94	22.65	36.67	43.56	15.57	
G72	11.66	31.72	59.33	19.63	8.87	18.12	30.02	36.29	11.66	
G73	7.36	24.26	53.95	14.49	5.24	14.25	24.97	28.08	7.36	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:26:37

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: 2025/7/16 18:26:37

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: