

Report No.:

Test Time: 2025/8/1 17:18:46

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-EB-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

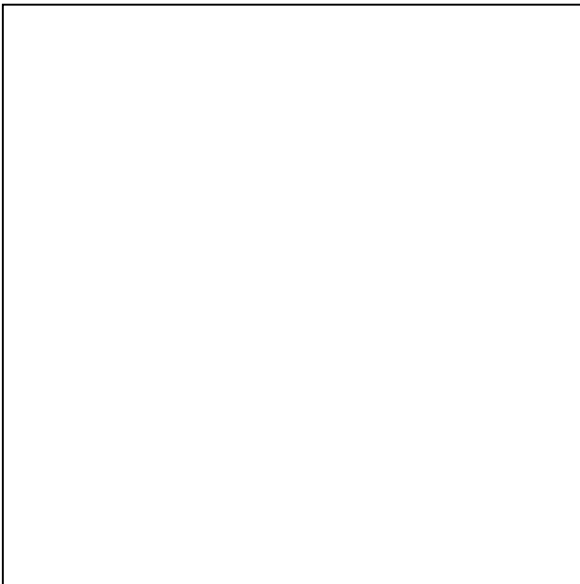
Voltage(V): 219.70 V
Current(A): 0.2250 A
Power(W): 47.87 W
Power Factor: 0.9660
Lamp Luminous Flux: 2955.64

Photometric Results

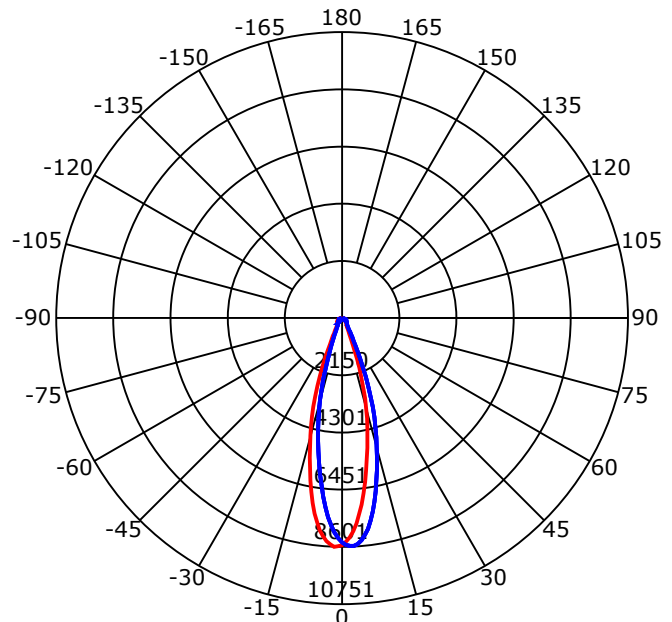
CIE Class: Direct
Luminaire Luminous Flux: 2955.637 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 61.74 lm/W
Beam Angle(50%) C0-180,C90-270: 28.6,29.1
Field Angle(10%) C0-180,C90-270: 49.6,50.3
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 8601.02 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8538.53 cd
Effective Luminous Flux: 2097.79 lm
ERP(ϕ use)(120deg): 2776.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 28.6 deg,29.1 deg

C0-180 — C90-270 —

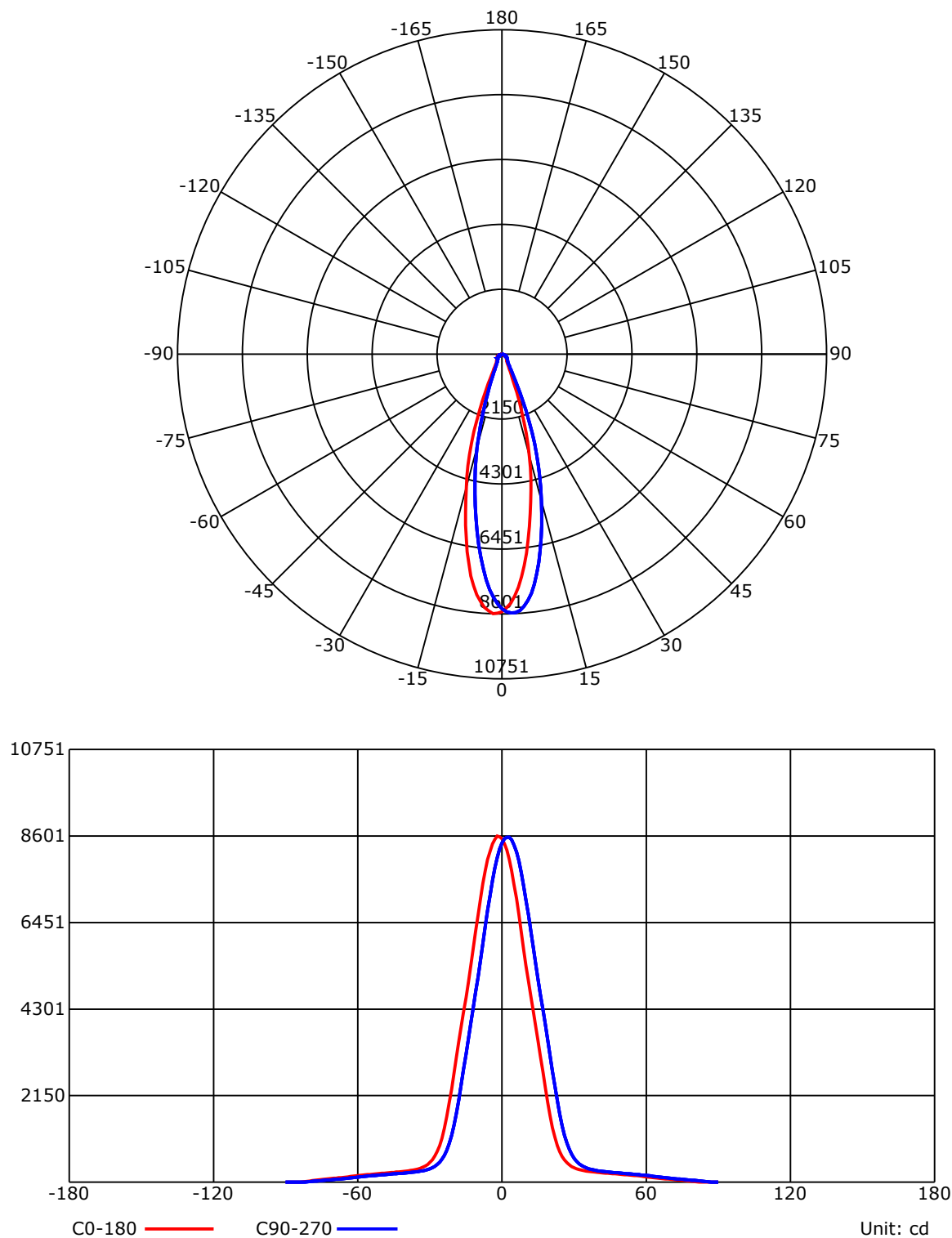
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

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: 2025/8/1 17:18:46

Luminous Intensity Distribution Curve



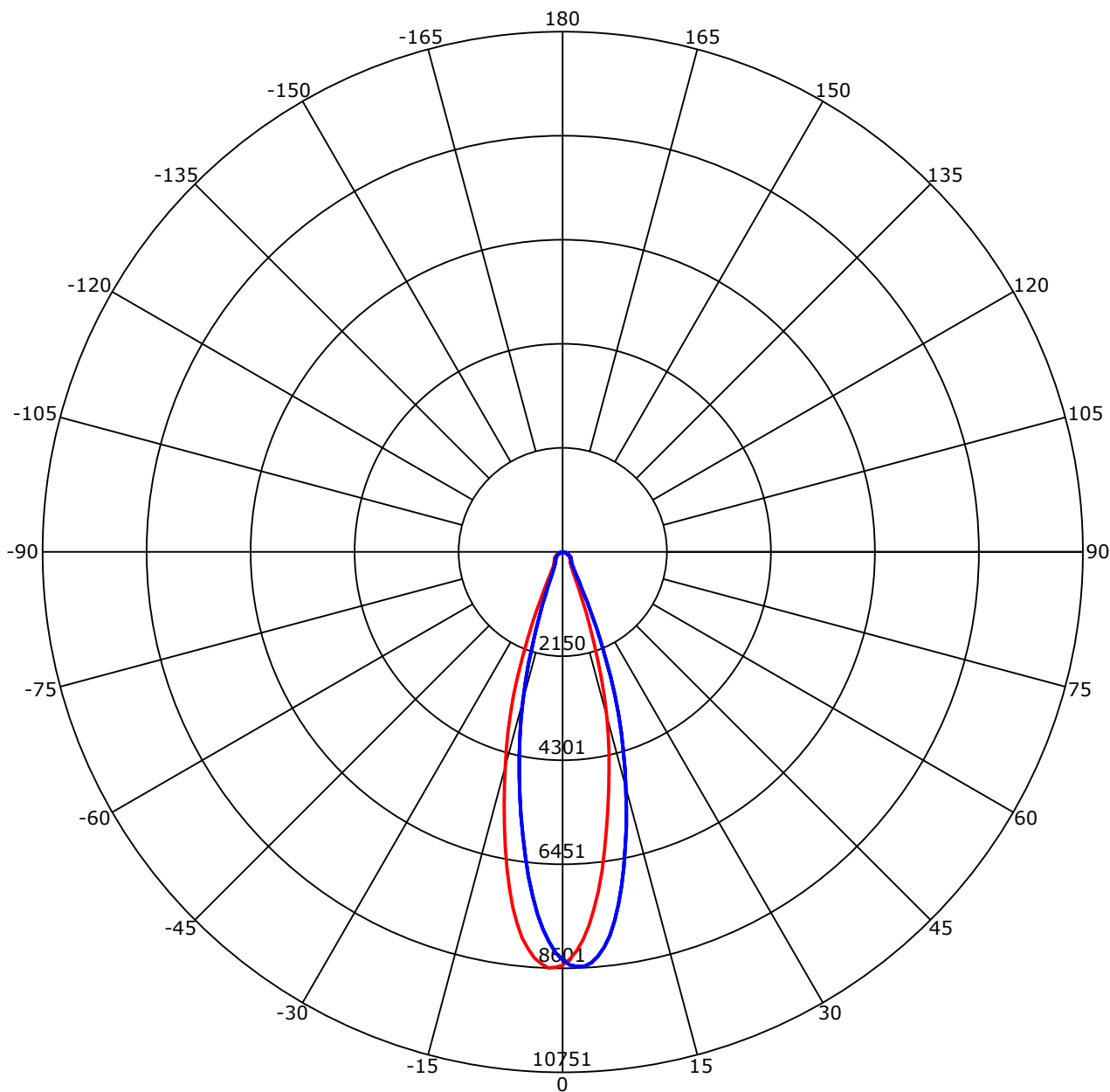
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

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: 2025/8/1 17:18:46

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 17:18:46

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

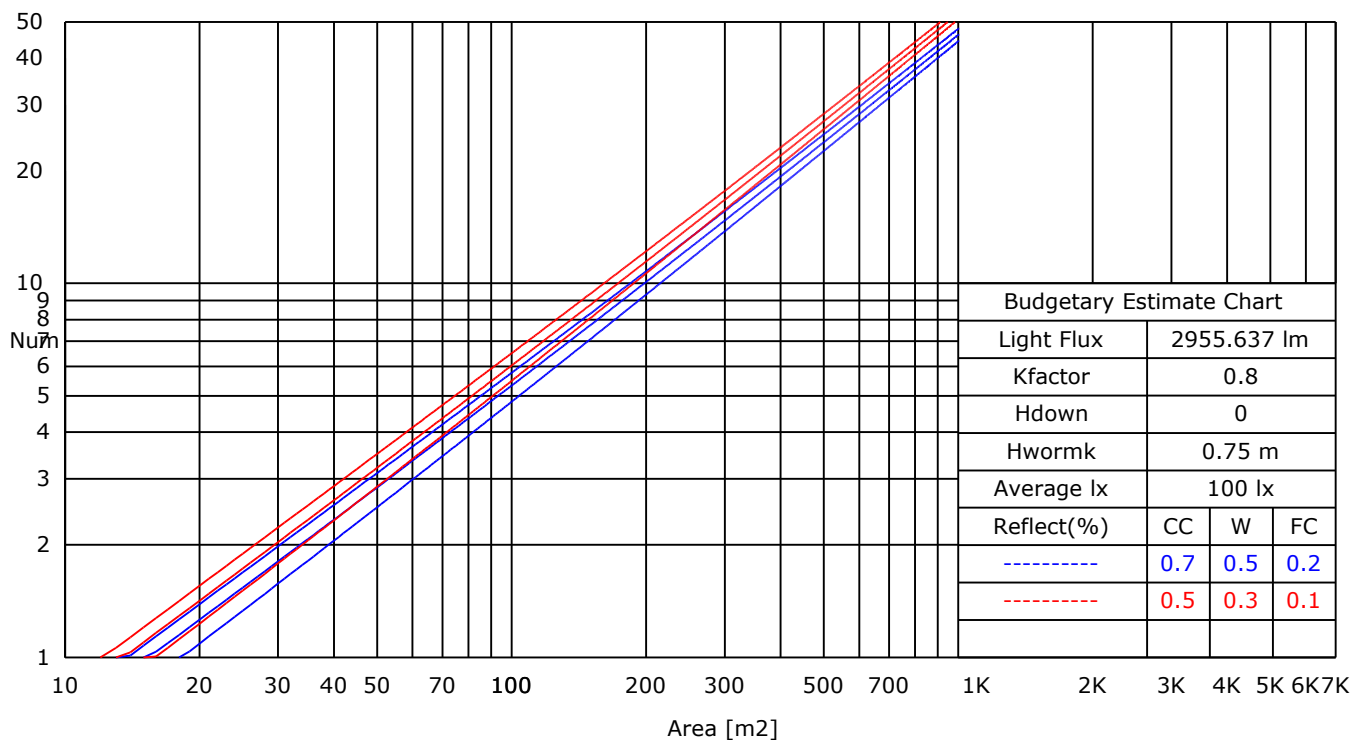
Report No.:

Test Time: 2025/8/1 17:18:46

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	0.89	0.93	0.90	0.87	0.90	0.87	0.84	0.86	0.83	0.79	0.81	0.77	0.74	0.69
2	0.88	0.86	0.84	0.88	0.85	0.82	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.65
3	0.84	0.81	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.79	0.74	0.71	0.75	0.70	0.66	0.62
4	0.80	0.78	0.76	0.79	0.76	0.74	0.78	0.74	0.71	0.75	0.71	0.68	0.72	0.68	0.64	0.59
5	0.76	0.74	0.73	0.76	0.73	0.72	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.73	0.71	0.69	0.72	0.68	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.55
7	0.71	0.70	0.68	0.71	0.68	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.54
8	0.69	0.68	0.67	0.69	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
9	0.67	0.66	0.65	0.67	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.51
10	0.66	0.64	0.64	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



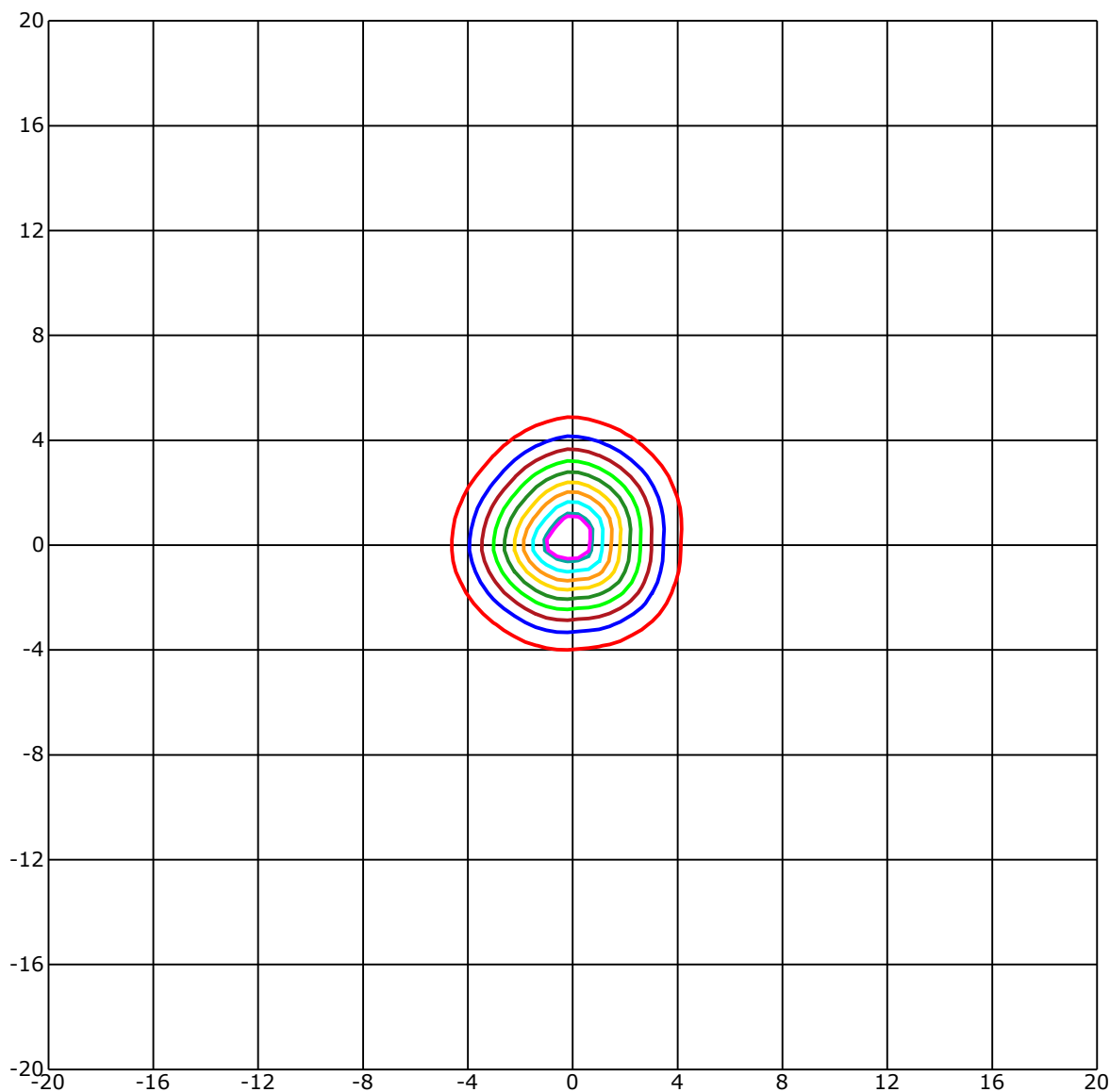
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

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: 2025/8/1 17:18:46

ISOLX DIAGRAM



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

78.985(92%Emax)	42.927(50%Emax)
77.268(90%Emax)	34.341(40%Emax)
68.683(80%Emax)	25.756(30%Emax)
60.097(70%Emax)	17.171(20%Emax)
51.512(60%Emax)	8.585(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

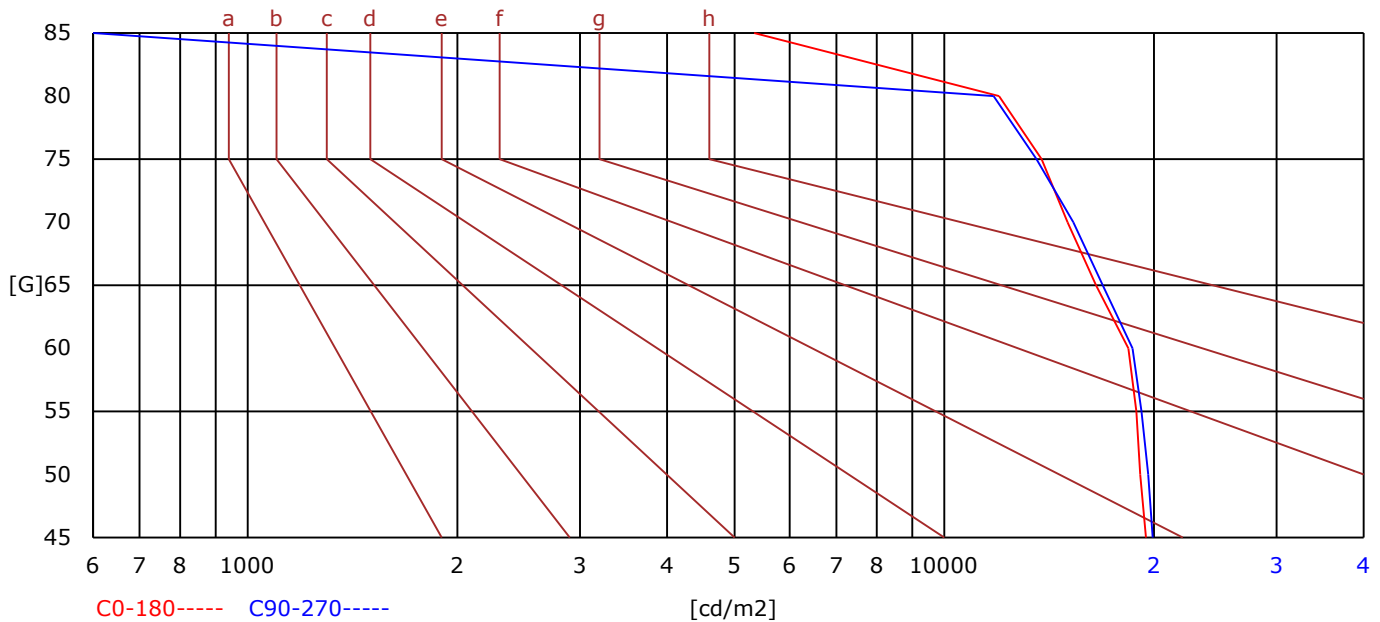
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/8/1 17:18:46

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	19467	19117	18859	18374	16513	15034	13800	11982	5334
C90	19920	19615	19190	18635	16882	15316	13559	11770	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



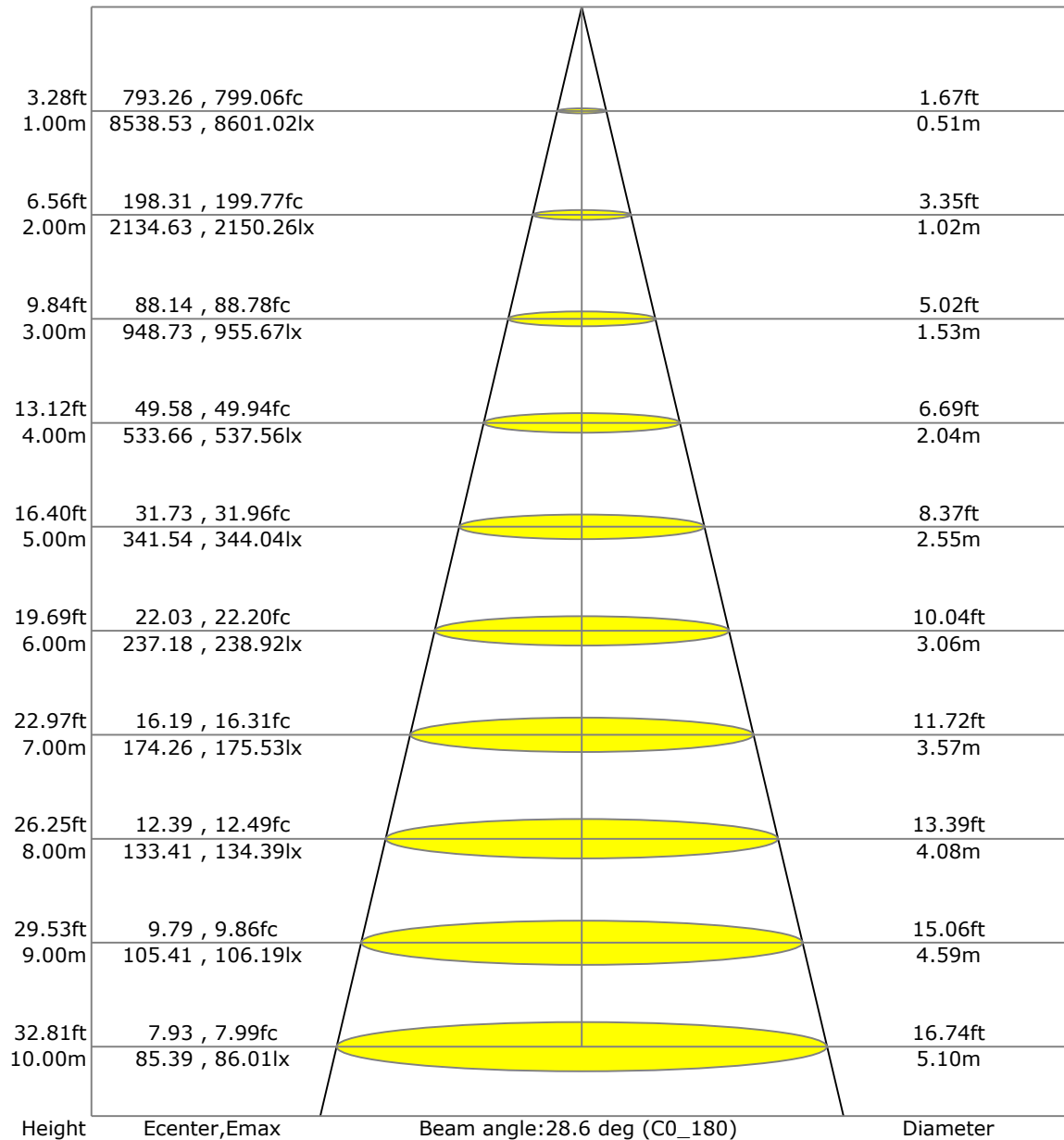
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

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: 2025/8/1 17:18:46

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 17:18:46

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: 2025/8/1 17:18:46

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	11.93	11.99	12.13	12.18	12.42	12.24	12.30	12.44	12.49	12.73
3H	12.10	12.16	12.30	12.35	12.60	12.36	12.43	12.57	12.62	12.87
4H	12.12	12.18	12.33	12.38	12.63	12.37	12.43	12.58	12.63	12.88
6H	12.11	12.18	12.33	12.38	12.63	12.36	12.42	12.58	12.62	12.87
8H	12.10	12.17	12.32	12.37	12.62	12.35	12.41	12.57	12.61	12.87
12H	12.09	12.16	12.32	12.36	12.62	12.34	12.40	12.56	12.61	12.86
4H 2H	13.66	13.72	13.87	13.92	14.17	14.39	14.45	14.60	14.65	14.89
3H	13.99	14.05	14.21	14.26	14.51	14.66	14.72	14.88	14.92	15.18
4H	14.07	14.13	14.30	14.34	14.60	14.71	14.77	14.94	14.98	15.24
6H	14.09	14.15	14.33	14.37	14.64	14.71	14.76	14.94	14.99	15.25
8H	14.09	14.14	14.33	14.37	14.64	14.69	14.75	14.94	14.98	15.25
12H	14.07	14.13	14.32	14.36	14.63	14.68	14.74	14.93	14.97	15.24
8H 4H	13.84	13.91	14.06	14.11	14.36	14.89	14.95	15.11	15.16	15.41
6H	14.41	14.47	14.67	14.71	14.98	15.42	15.47	15.67	15.71	15.98
8H	14.42	14.48	14.69	14.72	15.00	15.41	15.46	15.67	15.71	15.99
12H	14.41	14.46	14.68	14.72	15.00	15.40	15.45	15.67	15.70	15.98
12H 4H	14.34	14.40	14.59	14.63	14.90	15.46	15.52	15.71	15.75	16.02
6H	14.41	14.46	14.67	14.71	14.99	15.52	15.57	15.78	15.82	16.10

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

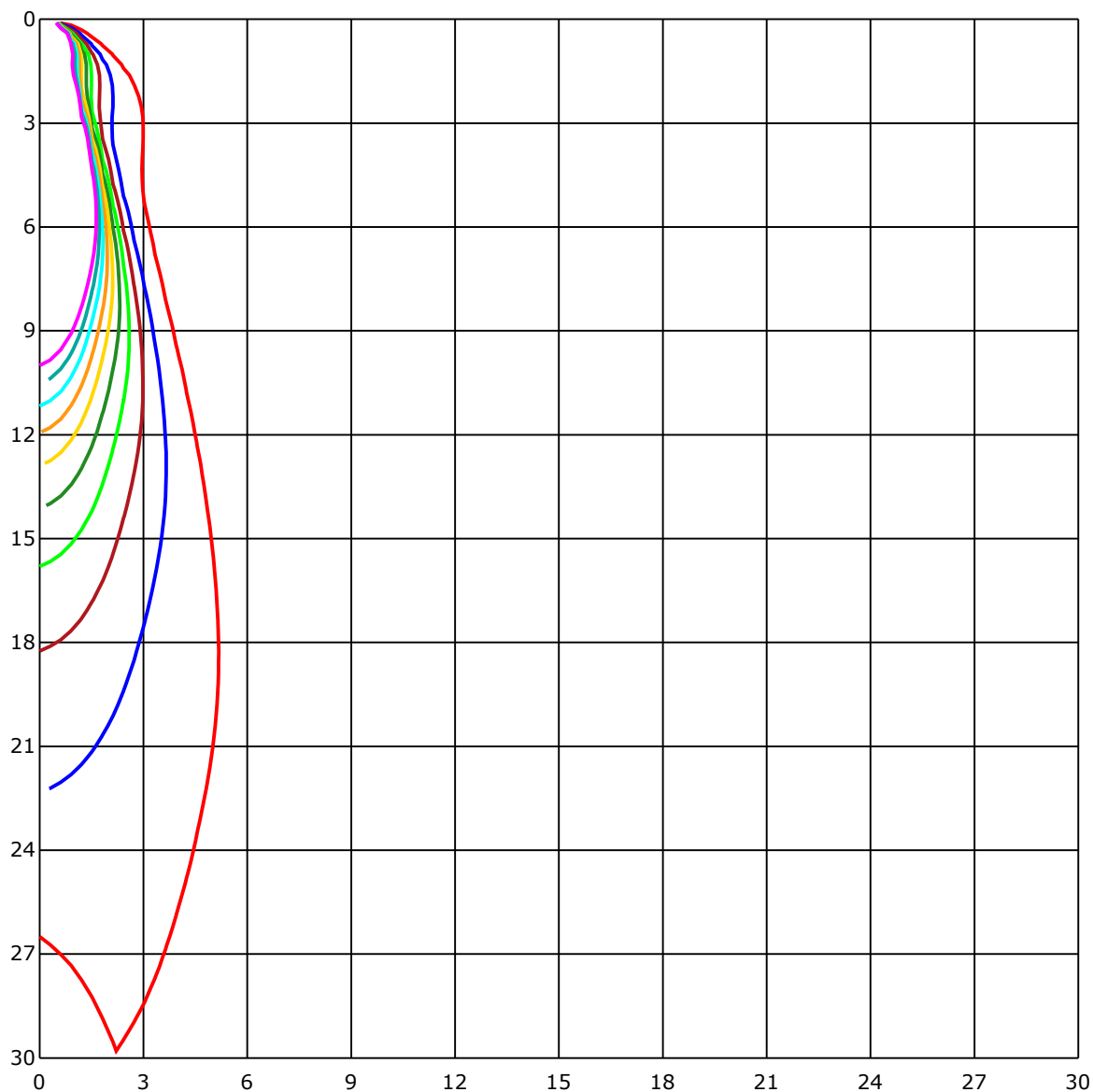
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

Report No.:

Test Time: 2025/8/1 17:18:46

SPACE ISOLX DIAGRAM



Unit of illumination:lx

85.508
76.957
68.407
59.856
51.305

42.754
34.203
25.652
17.102
8.551

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

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: 2025/8/1 17:18:46

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8538.53	8493.84	8427.86	8573.84	8538.53	8493.84	8427.86	8573.84	8538.53	
G1	8409.54	8544.62	8533.53	8587.0	8579.69	8420.02	8277.63	8520.46	8409.54	
G2	8249.5	8500.96	8571.62	8546.89	8601.02	8275.32	8061.7	8387.22	8249.5	
G3	8019.93	8409.07	8571.15	8434.94	8515.03	8082.75	7807.97	8184.56	8019.93	
G4	7742.18	8255.07	8508.0	8277.25	8408.93	7850.4	7497.09	7947.39	7742.18	
G5	7401.56	8048.44	8378.63	8067.13	8221.42	7566.23	7134.8	7662.23	7401.56	
G6	7045.6	7795.84	8204.28	7825.34	8015.02	7214.9	6746.37	7331.71	7045.6	
G7	6643.06	7506.53	7981.47	7508.51	7730.1	6847.89	6342.89	6926.52	6643.06	
G8	6212.86	7152.88	7692.25	7144.43	7417.51	6442.38	5925.15	6518.69	6212.86	
G9	5780.96	6780.64	7361.4	6744.01	7033.28	6037.43	5508.82	6096.75	5780.96	
G10	5374.12	6401.27	7004.54	6351.05	6638.06	5614.78	5097.17	5684.96	5374.12	
G11	4973.19	5987.87	6628.33	5927.18	6218.05	5205.06	4709.54	5255.14	4973.19	
G12	4601.42	5584.62	6221.78	5524.11	5795.45	4808.42	4318.99	4871.9	4601.42	
G13	4245.22	5185.33	5835.0	5126.62	5376.1	4432.64	3946.51	4502.16	4245.22	
G14	3878.31	4794.59	5431.99	4763.4	4970.02	4051.0	3562.94	4154.98	3878.31	
G15	3512.96	4426.6	5042.61	4371.28	4584.52	3674.52	3182.02	3784.96	3512.96	
G16	3131.23	4058.04	4661.92	4009.8	4218.79	3284.67	2795.9	3409.74	3131.23	
G17	2736.76	3696.79	4288.07	3639.78	3857.87	2899.97	2410.77	3024.8	2736.76	
G18	2351.44	3315.54	3921.31	3257.96	3494.74	2509.37	2036.5	2635.38	2351.44	
G19	1985.15	2930.36	3539.39	2858.76	3109.0	2135.71	1711.55	2240.53	1985.15	
G20	1650.43	2548.63	3144.78	2467.27	2714.72	1798.11	1416.57	1886.18	1650.43	
G21	1355.5	2176.39	2760.97	2090.26	2318.36	1491.99	1162.79	1561.18	1355.5	
G22	1108.61	1833.22	2375.04	1751.15	1956.69	1225.14	953.14	1282.77	1108.61	
G23	907.97	1526.06	2020.17	1438.18	1626.97	1007.61	789.89	1050.23	907.97	
G24	755.43	1257.04	1693.66	1182.57	1338.17	837.23	663.92	869.74	755.43	
G25	641.59	1037.15	1405.67	971.45	1091.0	706.77	570.66	728.48	641.59	
G26	551.64	856.1	1162.41	806.55	902.03	603.37	495.95	623.38	551.64	
G27	483.67	716.97	966.92	676.66	753.97	526.29	437.56	540.97	483.67	
G28	428.36	609.5	812.31	581.61	642.16	461.87	394.9	477.96	428.36	
G29	387.96	528.98	691.72	507.6	556.26	419.67	361.06	427.27	387.96	
G30	356.53	461.11	595.72	449.22	493.07	383.47	335.43	390.08	356.53	
G31	331.37	413.07	521.62	406.41	438.93	354.73	314.33	359.64	331.37	
G32	312.16	375.92	459.89	375.22	400.37	331.75	296.68	337.36	312.16	
G33	297.91	348.03	419.2	347.42	370.59	315.79	282.8	317.68	297.91	
G34	285.82	325.38	383.52	327.83	348.6	300.13	271.9	304.0	285.82	
G35	275.16	308.24	357.85	311.83	329.95	287.85	262.79	290.02	275.16	
G36	265.67	294.46	336.23	298.99	316.17	278.13	253.97	282.52	265.67	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 17:18:46

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: 2025/8/1 17:18:46

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	258.69	282.0	319.05	287.52	303.43	270.67	248.11	271.1	258.69	
G38	253.78	272.7	305.18	279.5	292.53	261.9	240.85	264.21	253.78	
G39	246.65	264.73	292.81	270.63	283.42	255.34	237.92	256.75	246.65	
G40	242.5	256.85	283.98	264.02	275.91	249.62	229.52	251.09	242.5	
G41	234.99	250.99	275.11	256.75	269.54	244.72	224.99	243.87	234.99	
G42	230.13	245.52	268.79	251.94	264.96	238.2	219.47	240.04	230.13	
G43	224.99	239.24	261.09	245.66	257.84	232.87	215.83	233.06	224.99	
G44	219.61	233.34	254.77	240.04	252.13	228.29	209.84	227.77	219.61	
G45	214.51	229.19	250.33	234.52	245.05	225.41	207.05	223.1	214.51	
G46	210.97	223.38	242.83	229.61	240.47	217.01	201.25	217.25	210.97	
G47	207.81	218.8	238.3	225.08	234.57	211.91	196.48	212.67	207.81	
G48	202.0	213.42	232.92	219.32	229.42	206.96	190.44	207.71	202.0	
G49	196.43	208.66	226.45	213.85	224.28	202.66	186.14	206.49	196.43	
G50	192.09	204.6	220.98	209.93	220.41	197.42	182.09	199.78	192.09	
G51	185.96	200.92	217.34	204.65	213.66	192.04	178.88	193.27	185.96	
G52	183.12	194.55	210.88	198.27	208.56	187.42	172.03	188.88	183.12	
G53	176.56	190.2	207.05	193.7	204.83	184.3	167.36	184.3	176.56	
G54	171.8	185.34	201.01	188.13	199.5	178.31	162.83	180.01	171.8	
G55	166.84	180.1	198.09	183.27	193.37	173.73	158.82	173.68	166.84	
G56	161.56	175.86	190.63	178.22	187.99	168.73	152.63	169.67	161.56	
G57	155.33	170.52	187.56	173.02	182.23	163.25	145.84	163.44	155.33	
G58	148.34	164.39	180.43	167.97	177.7	155.84	138.9	157.02	148.34	
G59	140.13	160.66	175.53	161.51	172.03	148.39	131.3	148.58	140.13	
G60	133.85	152.97	170.48	155.14	165.38	140.84	123.75	141.83	133.85	
G61	126.3	145.65	163.02	146.69	157.73	133.38	117.47	134.09	126.3	
G62	118.65	138.15	155.8	139.61	150.7	127.05	110.58	128.05	118.65	
G63	112.28	131.07	147.96	132.01	142.87	120.68	105.96	121.91	112.28	
G64	107.09	123.23	140.36	124.79	134.7	114.22	98.83	114.26	107.09	
G65	100.81	116.2	133.8	118.79	128.23	109.45	93.17	107.75	100.81	
G66	93.83	109.97	125.87	112.28	121.11	101.8	87.79	101.52	93.83	
G67	87.74	103.31	118.98	104.16	114.41	95.53	80.99	94.82	87.74	
G68	82.74	97.23	112.56	98.92	109.02	90.24	75.7	89.63	82.74	
G69	76.93	92.13	106.19	91.89	101.99	85.71	70.65	84.62	76.93	
G70	72.02	85.62	99.63	87.22	96.94	78.96	65.23	78.68	72.02	
G71	66.36	81.08	94.49	80.9	90.0	73.72	61.07	73.25	66.36	
G72	62.72	74.48	87.79	74.67	85.19	67.82	55.46	67.63	62.72	
G73	55.98	69.19	82.31	69.76	78.44	63.81	51.4	62.25	55.98	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:18:46

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

