

Report No.:

Test Time: 2025/6/9 18:14:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095-24°-28W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

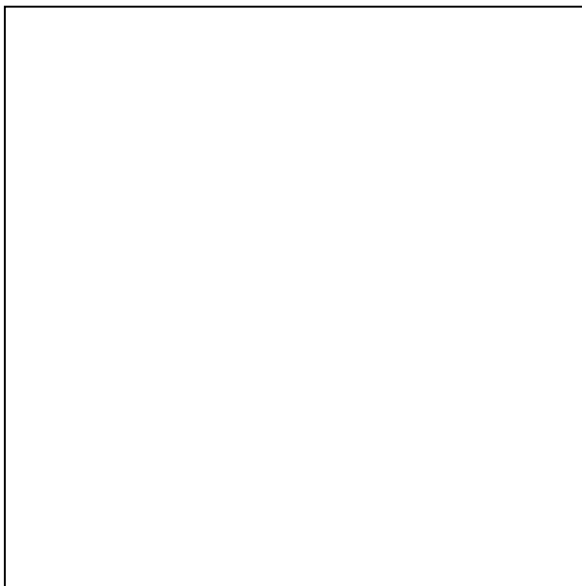
Voltage(V): 219.50 V
Current(A): 0.1280 A
Power(W): 27.53 W
Power Factor: 0.9750
Lamp Luminous Flux: 2565.13

Photometric Results

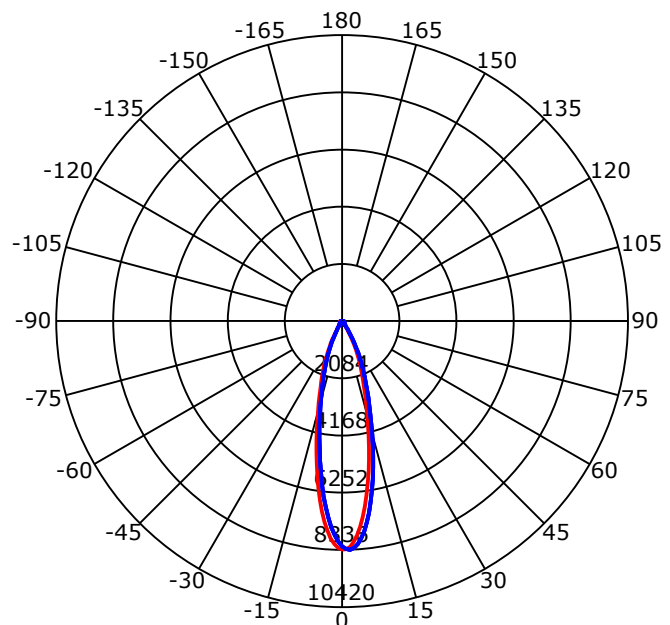
CIE Class: Direct
Luminaire Luminous Flux: 2565.127 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.18 lm/W
Beam Angle(50%) C0-180,C90-270: 26.2,26.6
Field Angle(10%) C0-180,C90-270: 55.3,55.6
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 8335.87 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8327.28 cd
Effective Luminous Flux: 2125.65 lm
ERP(ϕ use)(120deg): 2494.65 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 26.2 deg,26.6 deg

C0-180 — C90-270

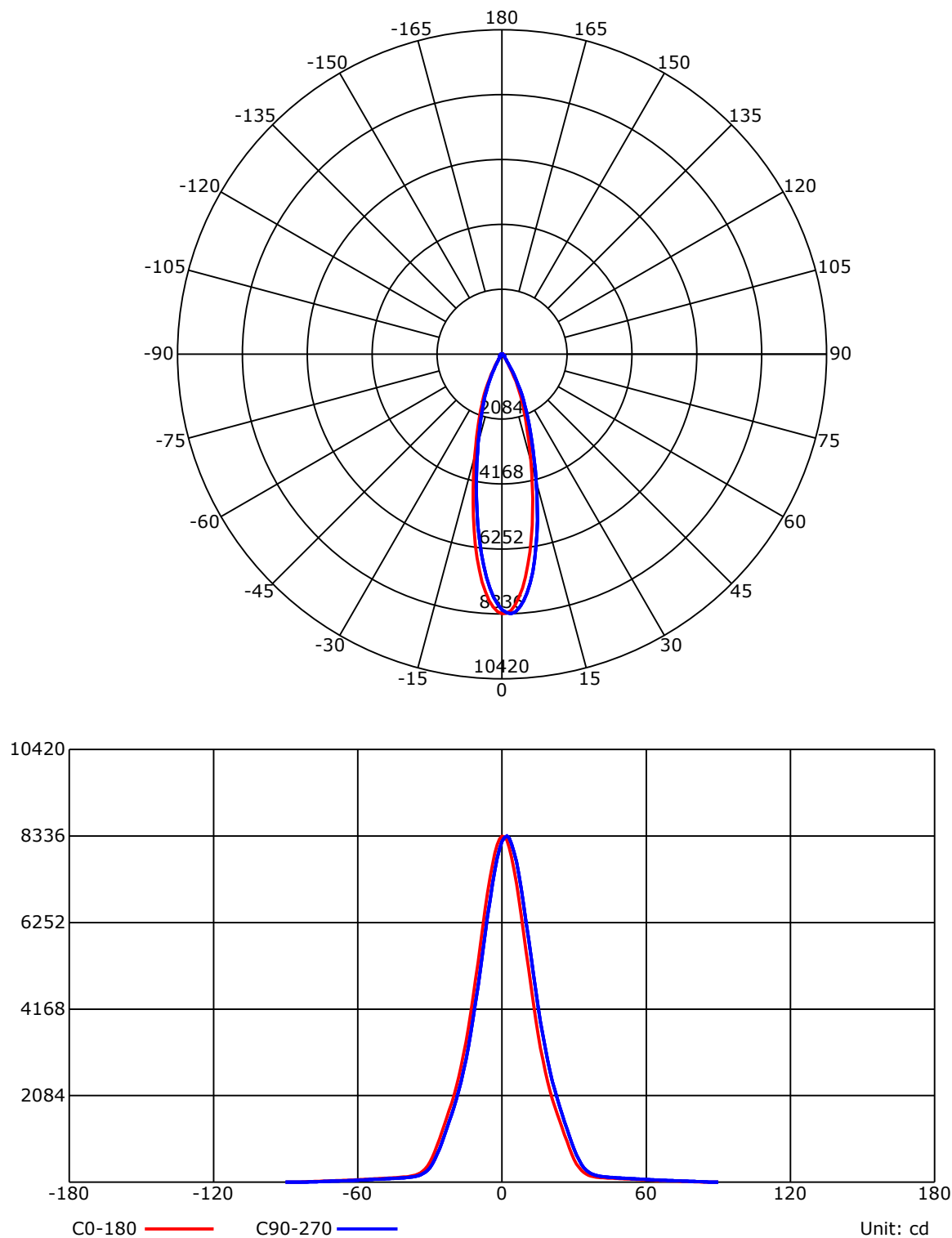
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

Luminous Intensity Distribution Curve



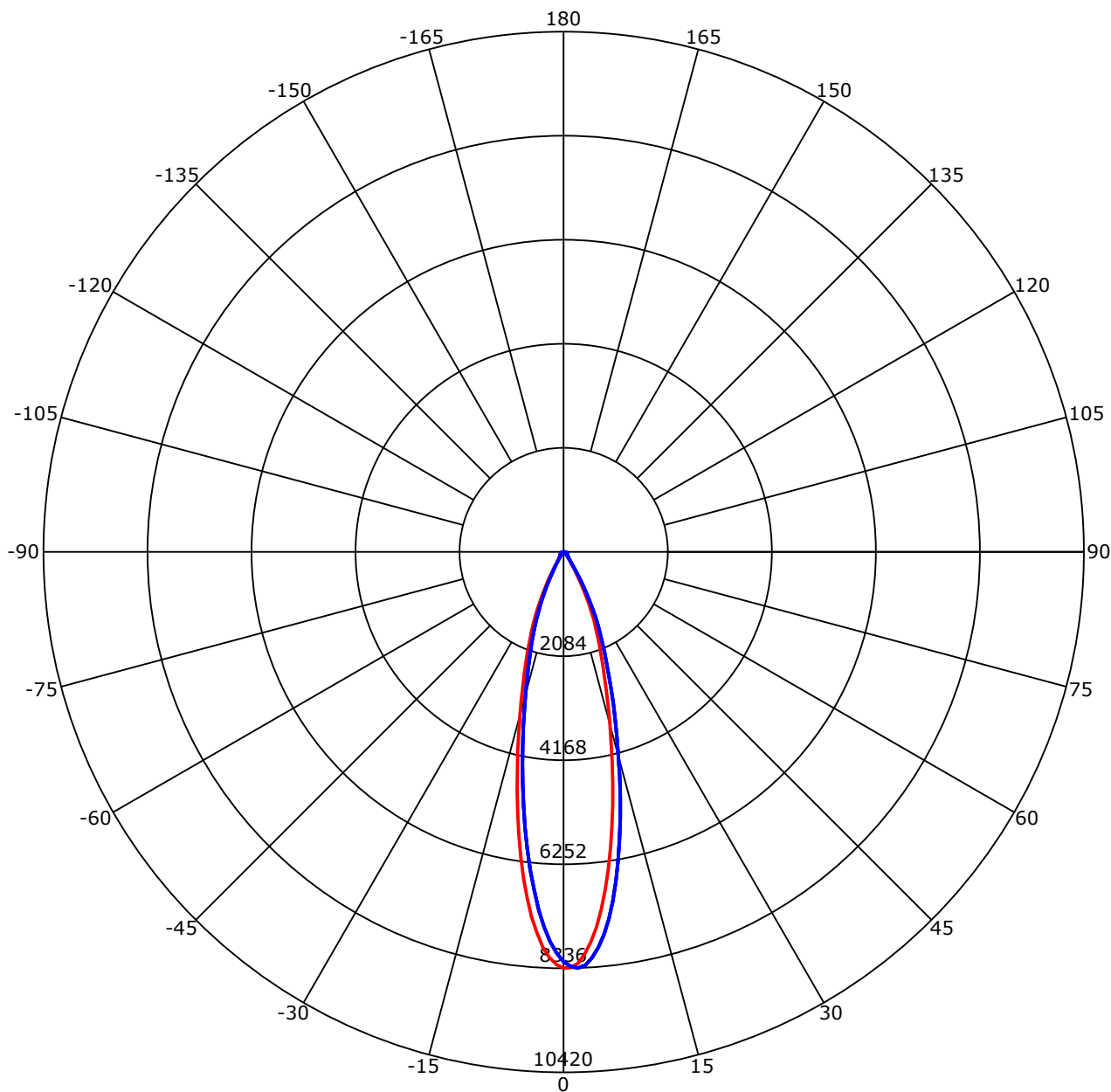
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

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

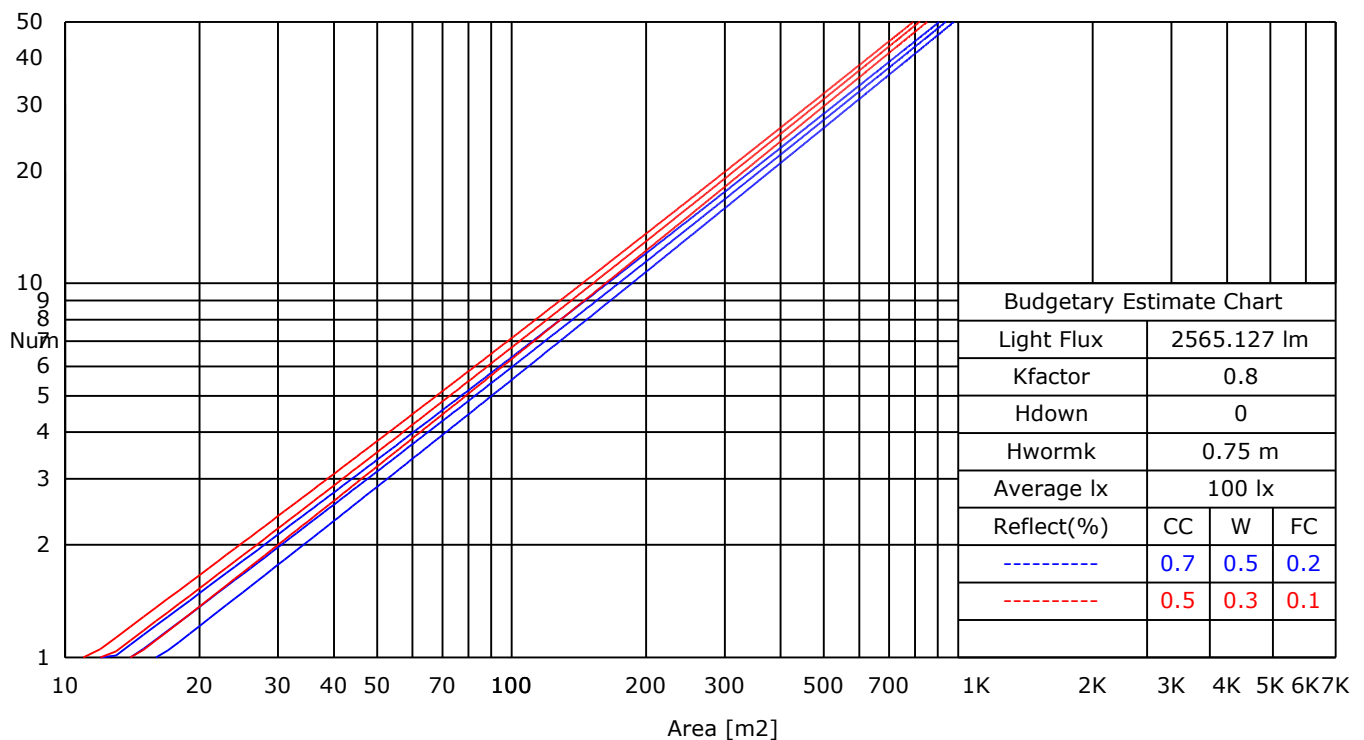
Report No.:

Test Time: 2025/6/9 18:14:20

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	0.68
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.63
4	0.82	0.80	0.79	0.82	0.79	0.77	0.80	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
5	0.80	0.78	0.76	0.79	0.76	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.77	0.76	0.74	0.77	0.74	0.73	0.75	0.72	0.69	0.73	0.69	0.66	0.70	0.66	0.62	0.58
7	0.75	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	0.69	0.71	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	0.71	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.64	0.67	0.63	0.60	0.64	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



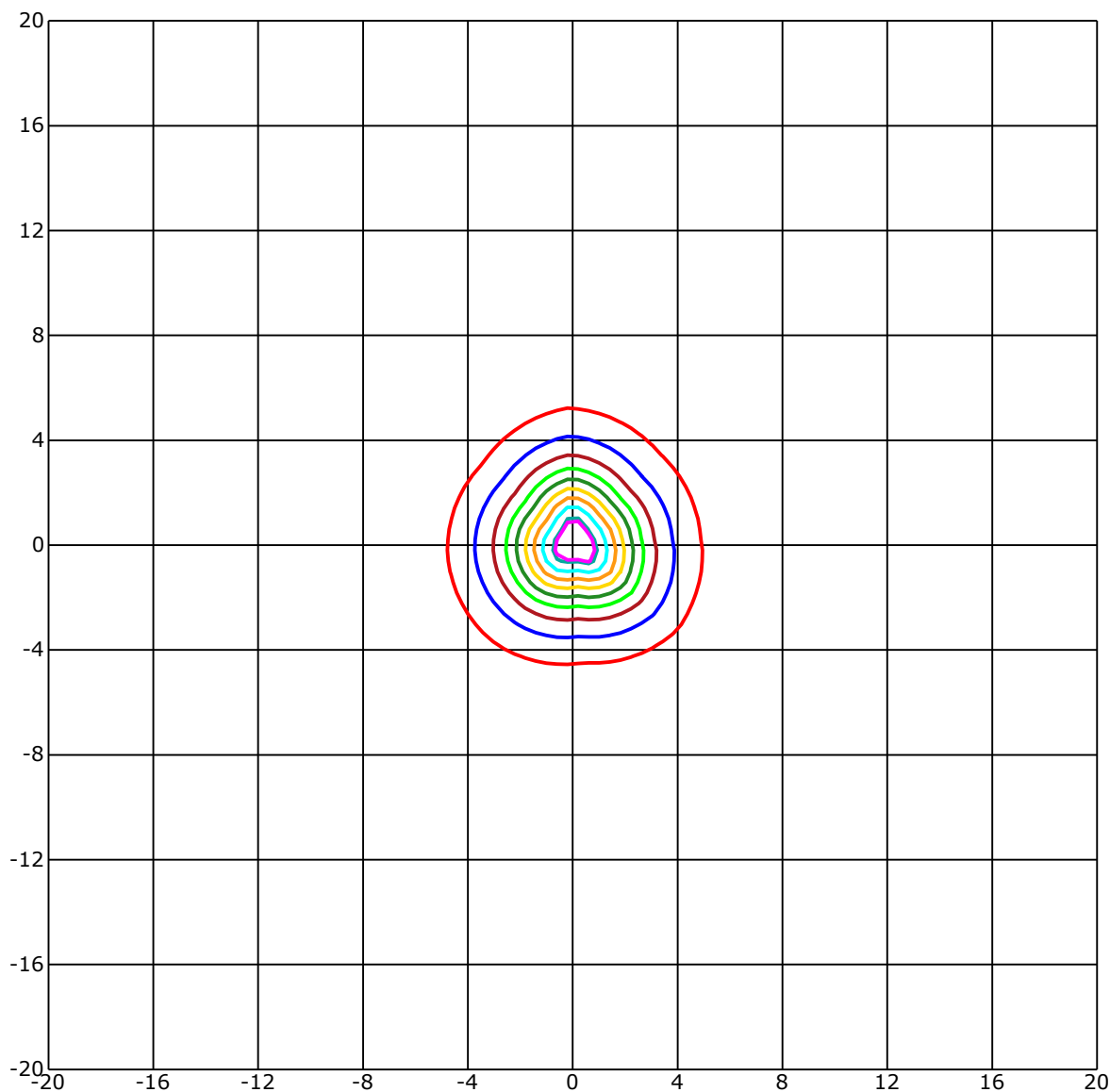
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

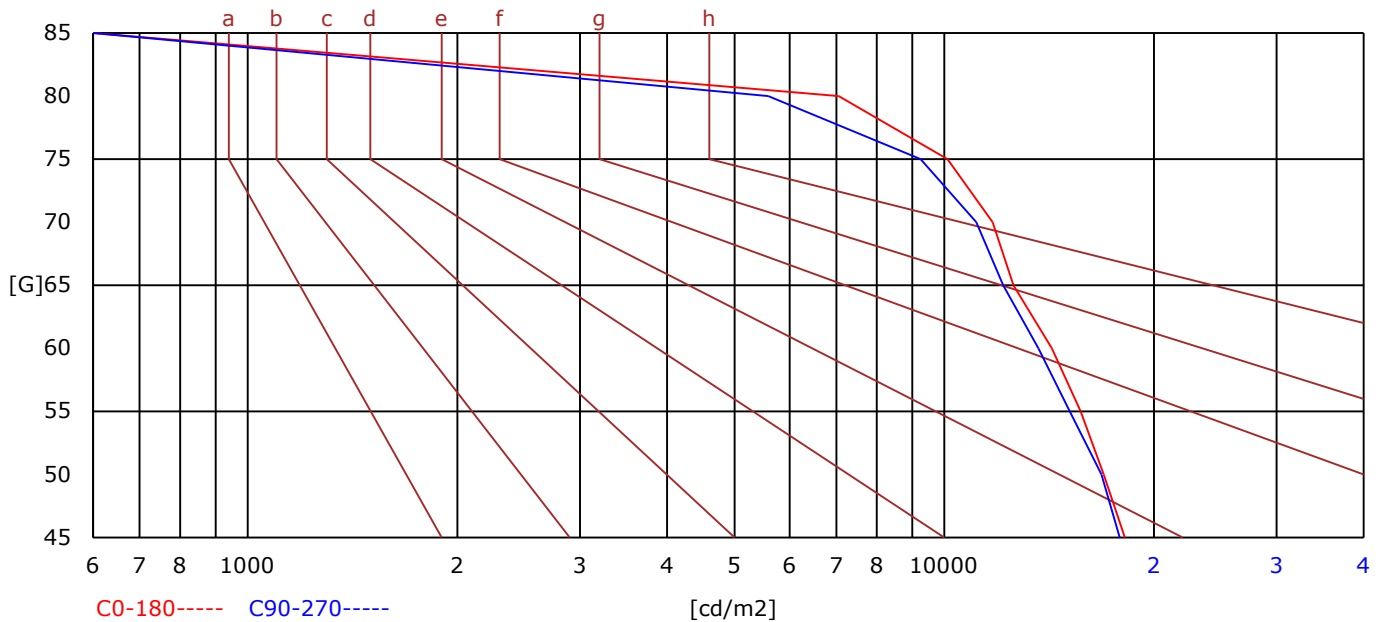
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/6/9 18:14:20

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18167	16937	15687	14269	12563	11736	10109	7056	0
C90	17851	16818	15142	13656	12155	11120	9246	5586	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



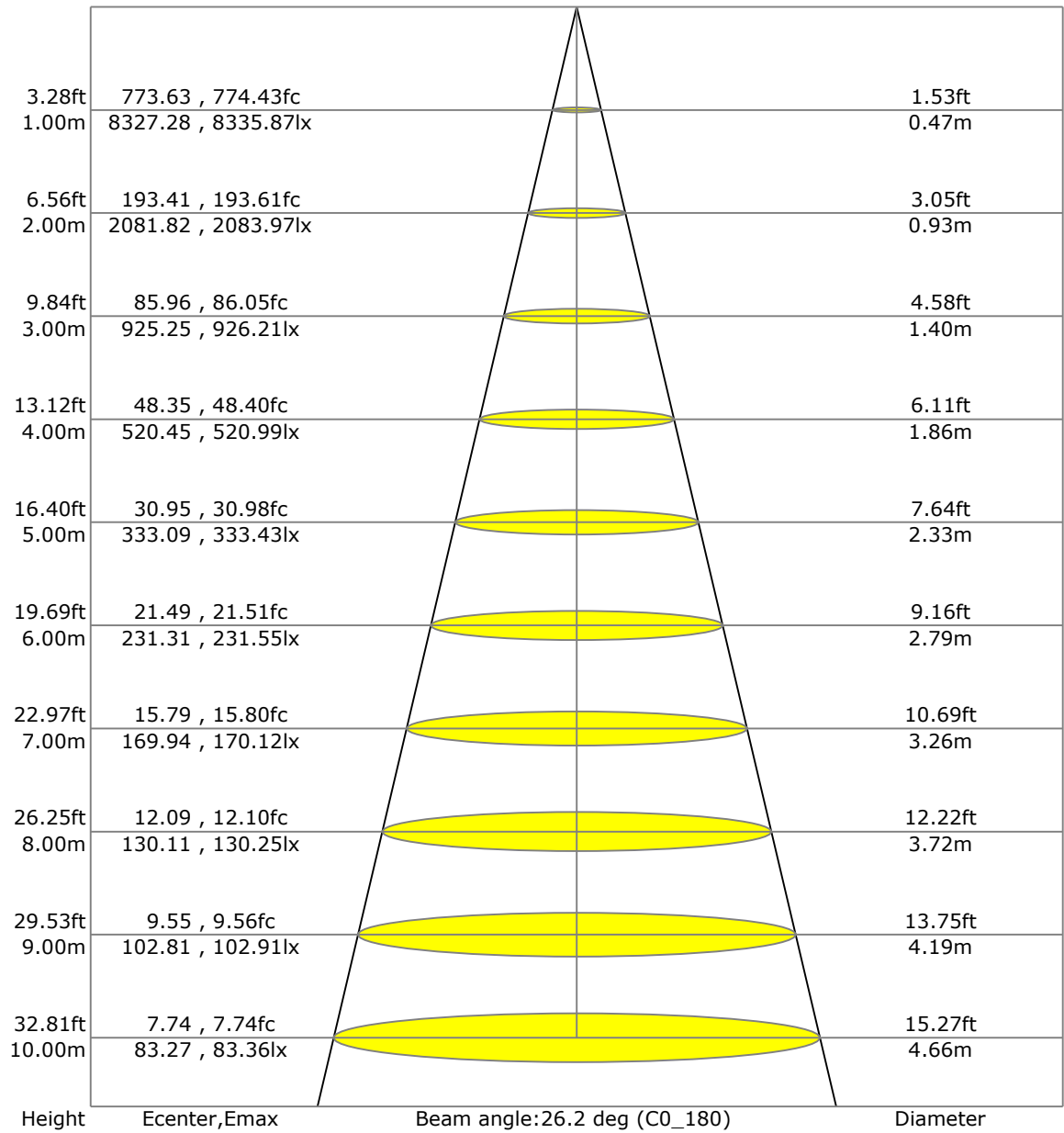
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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

UGR(Unified Glare Rating) TABLE

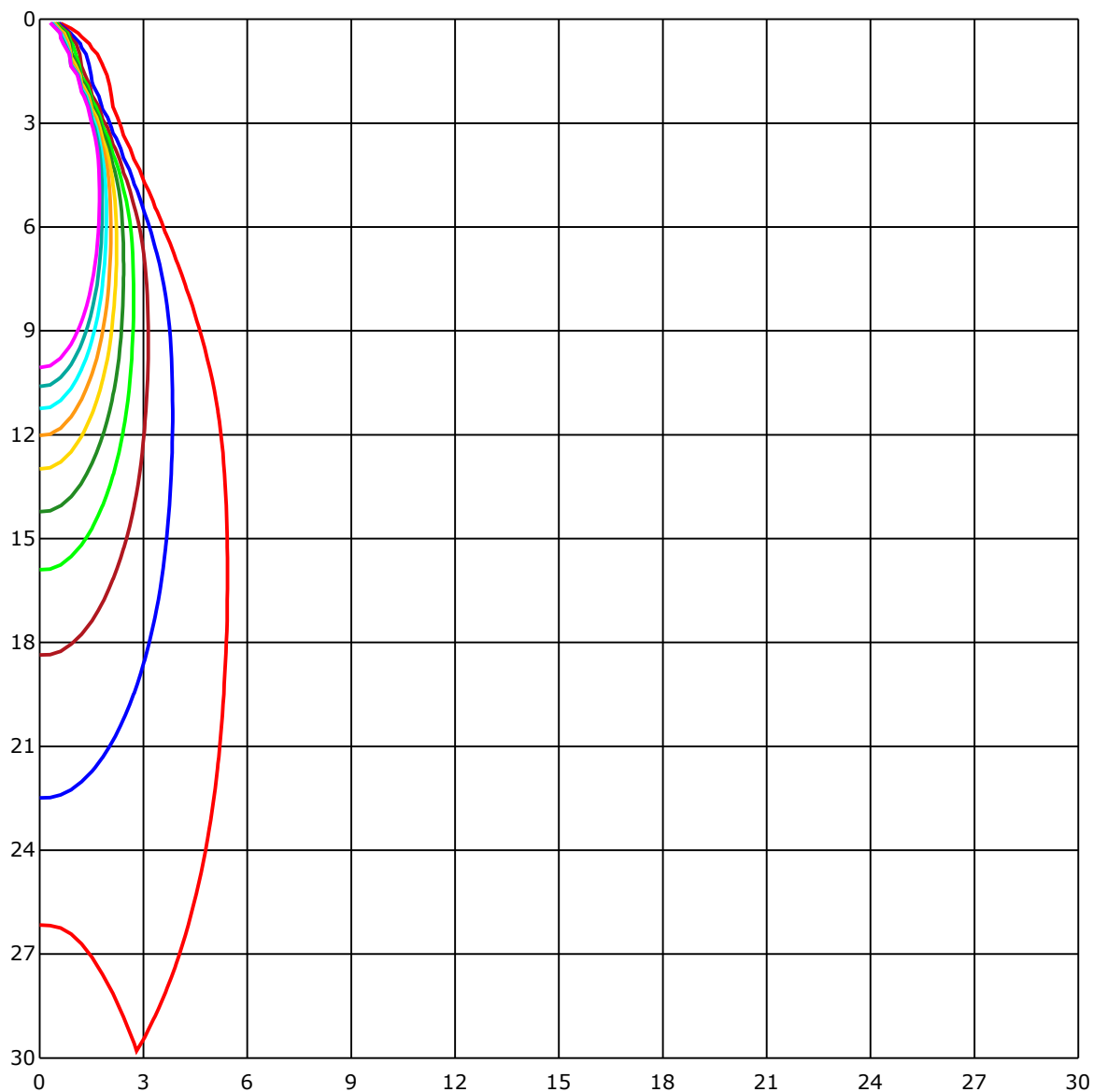
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	9.35	9.40	9.55	9.59	9.84	9.68	9.74	9.88	9.93	10.17
3H	9.48	9.54	9.69	9.73	9.98	9.78	9.83	9.98	10.03	10.27
4H	9.50	9.56	9.71	9.75	10.00	9.78	9.84	9.99	10.04	10.29
6H	9.49	9.55	9.71	9.75	10.00	9.77	9.83	9.99	10.03	10.28
8H	9.48	9.54	9.70	9.75	10.00	9.76	9.82	9.98	10.03	10.28
12H	9.48	9.53	9.70	9.74	10.00	9.75	9.81	9.98	10.02	10.27
4H 2H	10.90	10.96	11.11	11.16	11.41	11.58	11.64	11.79	11.84	12.09
3H	11.17	11.23	11.39	11.43	11.69	11.80	11.86	12.02	12.07	12.32
4H	11.23	11.28	11.46	11.50	11.76	11.84	11.90	12.07	12.11	12.37
6H	11.24	11.30	11.48	11.52	11.78	11.84	11.89	12.07	12.11	12.38
8H	11.23	11.29	11.48	11.52	11.78	11.82	11.88	12.07	12.11	12.38
12H	11.22	11.28	11.47	11.51	11.78	11.81	11.87	12.06	12.10	12.37
8H 4H	11.17	11.23	11.39	11.43	11.69	12.09	12.15	12.31	12.35	12.61
6H	11.60	11.65	11.85	11.89	12.17	12.48	12.53	12.73	12.77	13.04
8H	11.59	11.65	11.86	11.89	12.17	12.46	12.52	12.73	12.76	13.04
12H	11.58	11.63	11.85	11.88	12.17	12.45	12.50	12.72	12.75	13.03
12H 4H	11.57	11.63	11.82	11.86	12.13	12.55	12.60	12.80	12.83	13.10
6H	11.59	11.64	11.85	11.89	12.17	12.56	12.61	12.82	12.86	13.14

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: 2025/6/9 18:14:20

SPACE ISOLX DIAGRAM



Unit of illumination:lx

82.335	41.168
74.102	32.934
65.868	24.701
57.635	16.467
49.401	8.234

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8327.28	8317.89	8204.71	8258.14	8327.28	8317.89	8204.71	8258.14	8327.28	
G1	8318.08	8278.67	8297.07	8119.94	8265.73	8277.53	8030.32	8310.43	8318.08	
G2	8237.51	8154.16	8335.87	7920.49	8125.65	8163.79	7807.64	8291.27	8237.51	
G3	8054.76	7963.67	8282.87	7675.77	7925.11	7969.57	7513.23	8204.95	8054.76	
G4	7821.71	7725.28	8143.26	7370.74	7645.38	7715.42	7180.39	8052.12	7821.71	
G5	7534.66	7419.21	7952.11	7026.01	7344.97	7391.18	6794.47	7847.24	7534.66	
G6	7191.63	7034.79	7711.12	6648.96	6970.23	7026.72	6405.71	7576.99	7191.63	
G7	6814.19	6667.41	7403.07	6245.09	6586.66	6622.81	5980.04	7241.8	6814.19	
G8	6414.67	6230.32	7065.66	5831.65	6159.48	6195.96	5560.17	6888.58	6414.67	
G9	6000.19	5808.0	6679.92	5416.18	5730.74	5765.38	5128.08	6502.46	6000.19	
G10	5573.72	5366.48	6278.65	5014.29	5295.49	5323.91	4723.18	6098.6	5573.72	
G11	5151.59	4941.52	5869.83	4614.11	4876.24	4898.8	4324.89	5680.48	5151.59	
G12	4734.89	4515.89	5455.68	4238.09	4469.45	4467.9	3952.32	5279.59	4734.89	
G13	4327.48	4115.19	5033.46	3861.46	4084.37	4070.54	3592.77	4859.2	4327.48	
G14	3931.36	3735.45	4638.51	3520.75	3718.83	3695.75	3261.35	4471.43	3931.36	
G15	3571.53	3386.9	4239.08	3206.27	3383.97	3362.87	2955.94	4090.56	3571.53	
G16	3232.0	3069.64	3872.79	2920.54	3073.23	3049.11	2680.22	3749.7	3232.0	
G17	2941.97	2782.64	3530.47	2655.3	2792.17	2758.94	2423.61	3412.38	2941.97	
G18	2662.05	2514.89	3229.5	2405.01	2537.26	2495.91	2205.46	3110.7	2662.05	
G19	2415.25	2282.54	2929.56	2183.38	2307.79	2264.79	1999.59	2820.77	2415.25	
G20	2191.64	2074.63	2664.12	1982.6	2096.16	2057.5	1809.72	2559.91	2191.64	
G21	1991.47	1892.64	2420.92	1789.42	1903.92	1879.29	1633.39	2329.5	1991.47	
G22	1804.9	1723.96	2207.21	1608.85	1725.05	1706.07	1457.63	2117.54	1804.9	
G23	1633.25	1565.52	2004.69	1430.73	1553.72	1543.81	1285.83	1917.85	1633.25	
G24	1473.82	1405.0	1816.37	1258.03	1383.11	1376.12	1121.07	1729.72	1473.82	
G25	1310.71	1247.98	1637.26	1081.33	1216.41	1212.3	960.83	1543.39	1310.71	
G26	1144.05	1081.38	1457.96	918.64	1045.27	1047.91	809.76	1371.54	1144.05	
G27	981.37	922.46	1278.0	770.77	883.38	887.77	668.26	1197.43	981.37	
G28	822.78	768.79	1108.47	637.35	733.16	737.83	544.51	1031.16	822.78	
G29	674.16	629.61	946.01	517.8	601.95	601.81	434.21	871.77	674.16	
G30	546.02	501.61	794.84	415.99	489.81	480.98	350.25	727.54	546.02	
G31	436.57	393.76	655.42	337.36	391.22	382.34	285.21	598.27	436.57	
G32	351.57	313.77	535.5	276.86	317.4	307.63	237.16	490.99	351.57	
G33	283.84	255.15	429.87	231.03	263.78	256.75	201.29	399.1	283.84	
G34	232.21	211.02	350.48	197.61	222.82	215.69	173.26	329.01	232.21	
G35	194.59	178.59	289.55	171.23	194.03	188.83	151.83	273.13	194.59	
G36	167.22	155.33	245.24	151.88	172.79	168.4	138.19	232.35	167.22	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/9 18:14:20

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: 2025/6/9 18:14:20

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	148.39	140.22	210.17	138.1	157.21	153.96	127.95	200.82	148.39	
G38	134.7	127.43	184.87	128.38	146.12	142.87	120.07	176.33	134.7	
G39	124.41	119.5	165.52	119.08	137.06	135.17	113.79	159.15	124.41	
G40	116.86	113.37	152.78	113.51	130.45	129.32	108.69	147.92	116.86	
G41	110.96	108.84	141.35	108.51	125.54	123.33	104.26	137.58	110.96	
G42	106.19	103.79	134.42	105.58	119.97	118.7	101.28	129.37	106.19	
G43	101.8	100.2	127.05	100.62	116.58	116.29	97.51	123.8	101.8	
G44	98.59	97.6	121.48	98.31	111.53	111.86	94.77	118.51	98.59	
G45	96.14	95.01	116.81	93.36	108.98	107.61	90.95	114.69	96.14	
G46	93.69	91.51	112.66	92.13	104.45	104.07	89.06	110.3	93.69	
G47	90.0	89.77	108.03	88.31	102.37	101.71	84.86	106.52	90.0	
G48	86.98	86.23	105.06	85.85	97.84	97.18	82.78	102.56	86.98	
G49	84.39	84.58	100.81	82.41	94.91	94.39	79.57	99.16	84.39	
G50	81.41	80.52	98.59	79.95	91.61	91.37	77.07	95.67	81.41	
G51	79.01	77.92	95.15	75.94	90.0	88.64	73.72	92.41	79.01	
G52	76.08	75.75	91.56	73.82	85.19	85.62	70.98	89.72	76.08	
G53	74.38	72.4	88.12	69.99	82.64	82.22	68.44	86.65	74.38	
G54	70.89	69.8	85.71	67.73	79.05	78.72	64.8	83.35	70.89	
G55	69.05	66.55	81.98	64.23	76.6	76.32	62.49	79.81	69.05	
G56	66.55	63.81	79.1	62.58	72.73	72.68	59.37	77.83	66.55	
G57	62.91	61.21	75.85	58.52	70.04	69.66	57.06	74.05	62.91	
G58	59.52	58.0	73.25	56.16	66.78	66.08	53.33	70.7	59.52	
G59	57.16	55.6	69.71	53.33	63.76	64.0	50.03	67.21	57.16	
G60	54.04	52.77	66.26	50.5	60.88	59.61	47.24	64.75	54.04	
G61	50.6	50.74	63.2	46.91	57.53	56.73	43.66	60.79	50.6	
G62	47.76	46.3	59.94	44.08	53.8	52.77	41.63	58.62	47.76	
G63	44.37	43.14	56.73	41.2	51.44	49.98	39.08	53.95	44.37	
G64	42.19	41.01	53.62	39.27	48.33	47.57	38.18	51.92	42.19	
G65	40.26	39.27	49.7	37.99	46.87	45.69	34.6	47.76	40.26	
G66	37.1	36.72	48.71	36.39	43.99	43.09	34.08	45.83	37.1	
G67	35.63	34.78	45.4	33.09	41.96	41.82	30.77	44.74	35.63	
G68	33.93	32.99	44.27	31.81	39.36	39.83	29.45	41.82	33.93	
G69	31.72	32.0	42.15	29.21	37.95	37.14	27.56	40.68	31.72	
G70	30.02	29.69	40.4	28.13	35.44	34.93	26.48	37.99	30.02	
G71	27.89	27.56	37.24	25.63	33.42	33.51	23.88	35.35	27.89	
G72	25.91	25.63	36.11	23.74	30.68	30.68	21.85	34.78	25.91	
G73	24.73	24.5	33.65	21.1	29.03	29.03	19.54	31.39	24.73	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/9 18:14:20

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: