

Report No.:

Test Time: 2025/7/16 18:18:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-3F-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

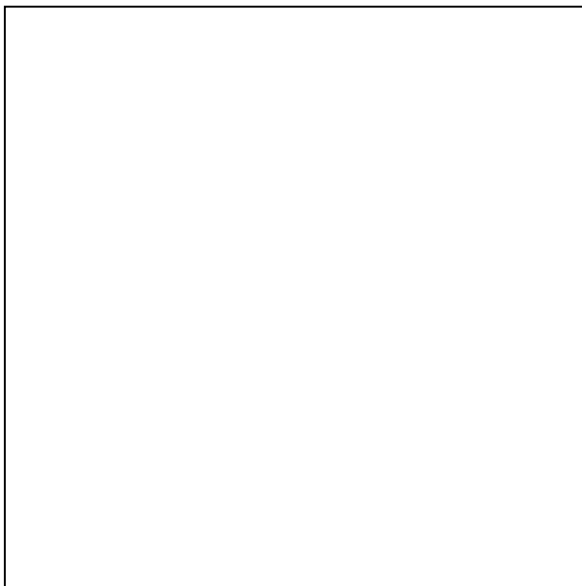
Voltage(V): 219.70 V
Current(A): 0.1520 A
Power(W): 30.78 W
Power Factor: 0.9160
Lamp Luminous Flux: 2938.66

Photometric Results

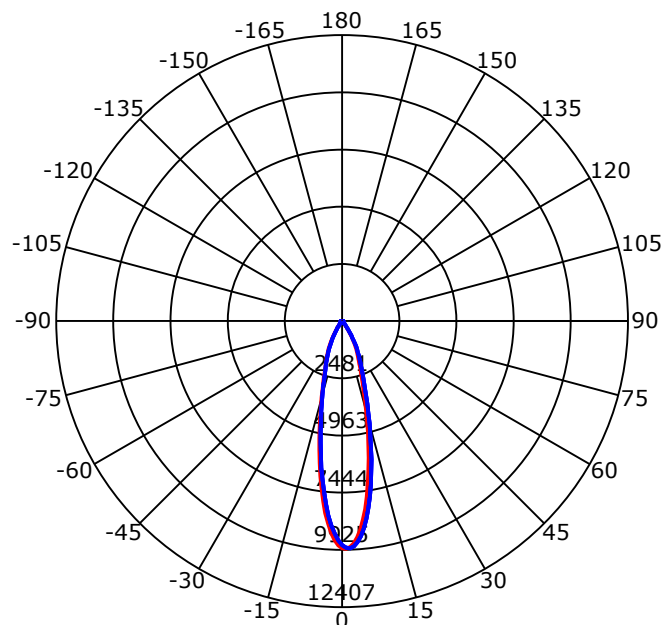
CIE Class: Direct
Luminaire Luminous Flux: 2938.664 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.46 lm/W
Beam Angle(50%) C0-180,C90-270: 24.5,25.2
Field Angle(10%) C0-180,C90-270: 58.4,58.7
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 9925.46 cd
Max.Intensity Angle: C=45 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9850.04 cd
Effective Luminous Flux: 2481.26 lm
ERP(ϕ use)(120deg): 2909.22 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.5 deg,25.2 deg

C0-180 — C90-270

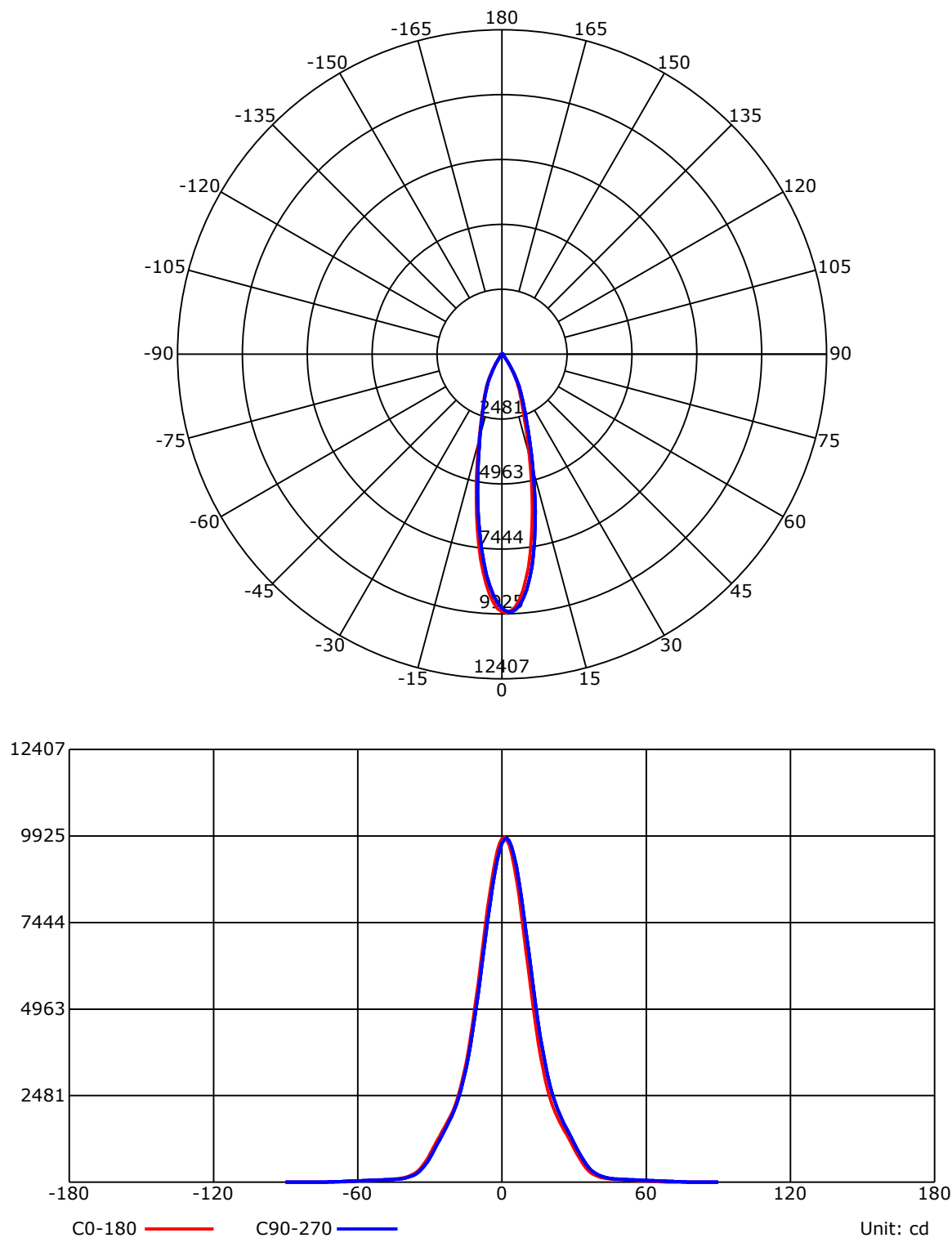
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:18:55

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 18:18:55

Luminous Intensity Distribution Curve



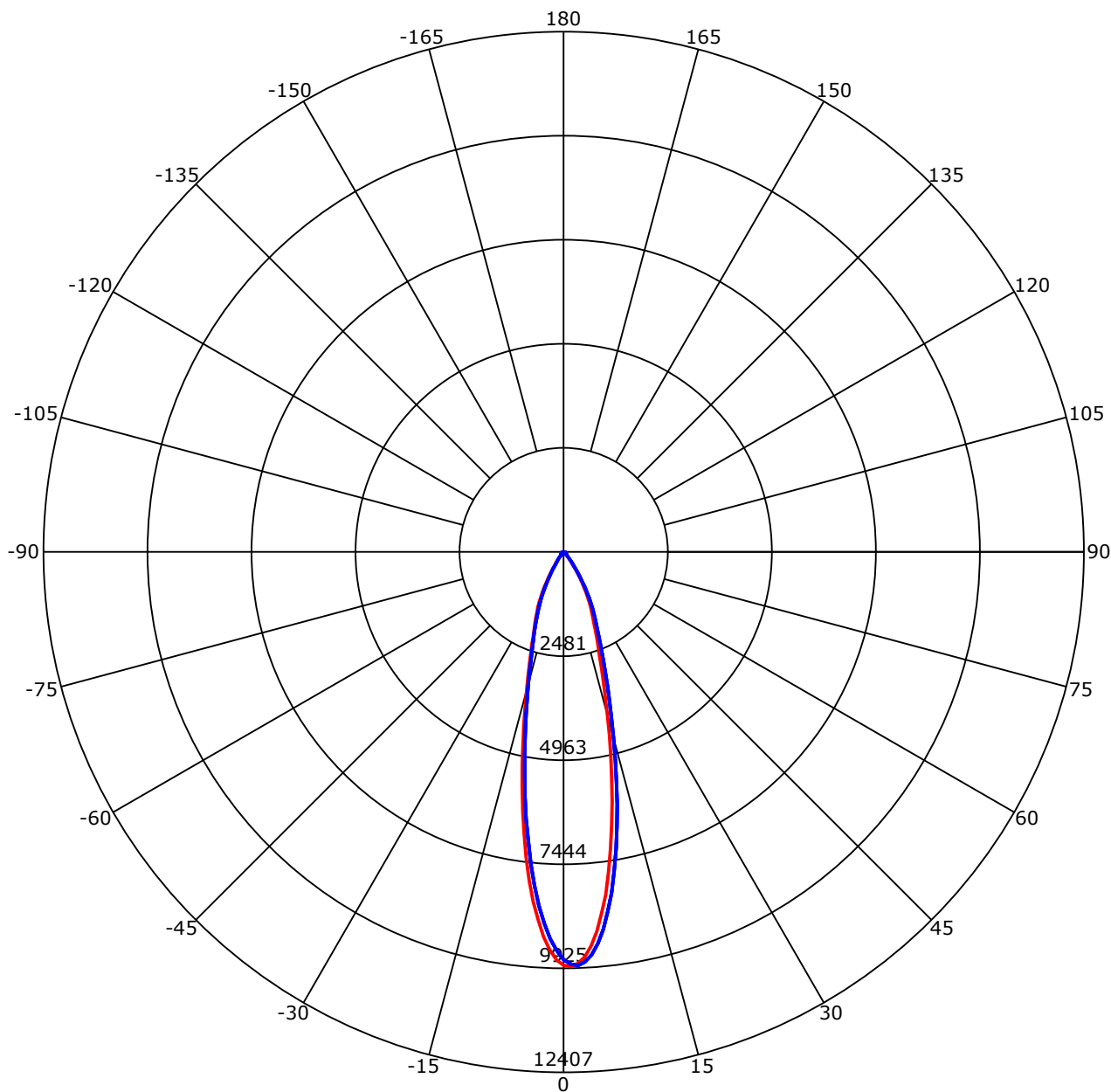
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:18:55

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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: 2025/7/16 18:18:55

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

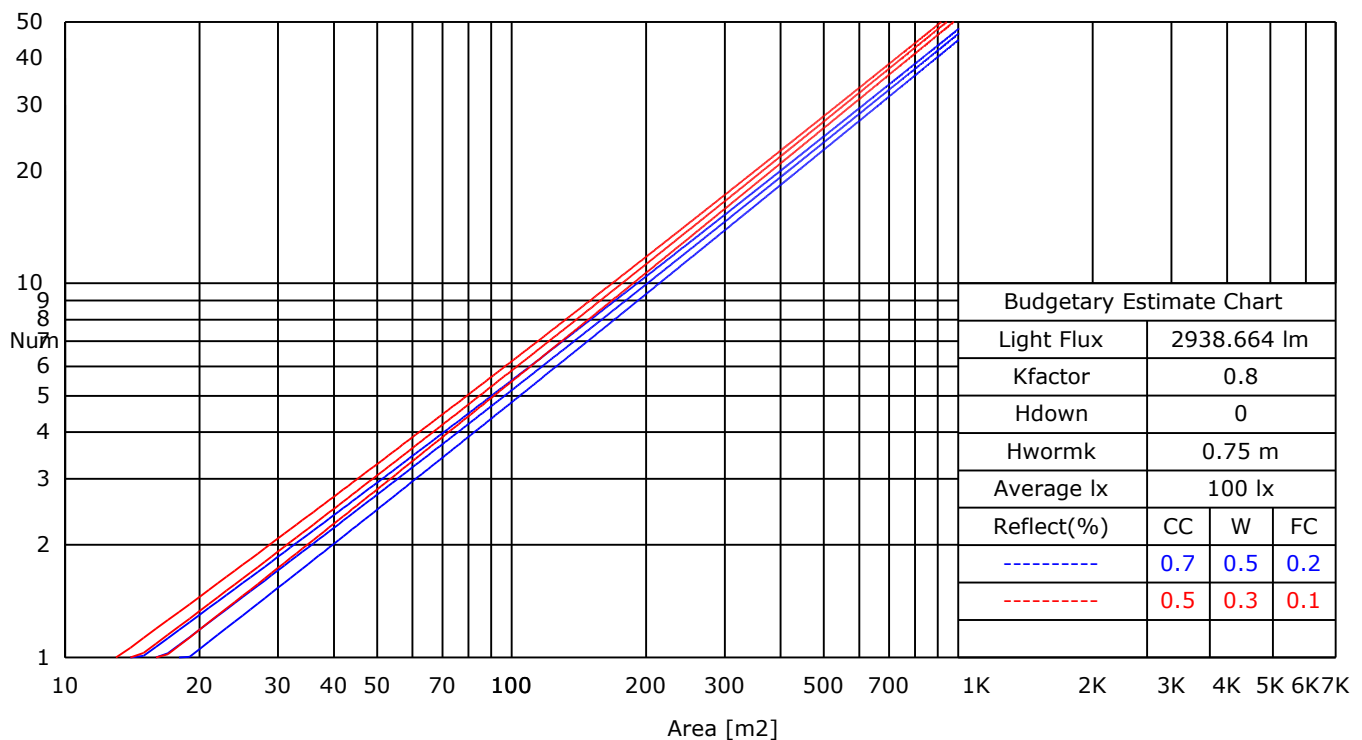
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UTILIZATION FACTORS TABLE

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	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	0.87	0.85	0.88	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	0.80	0.77	0.75	0.78	0.74	0.72	0.76	0.71	0.68	0.73	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	0.63	0.59
7	0.76	0.74	0.73	0.75	0.73	0.72	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
8	0.74	0.72	0.72	0.73	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
9	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55
10	0.71	0.69	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



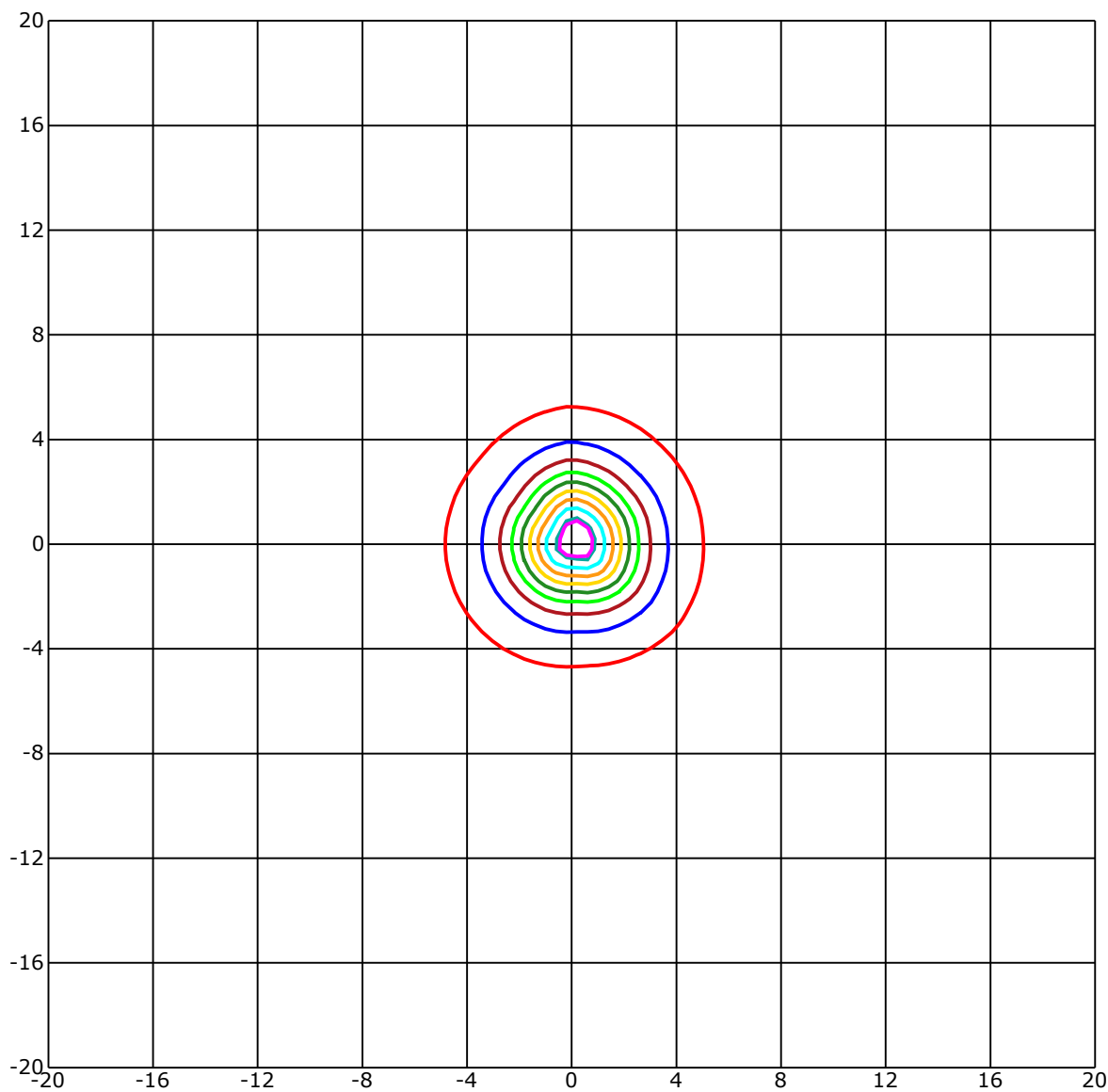
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:18:55

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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ISOLX DIAGRAM



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

91.273(92%Emax)	49.605(50%Emax)
89.288(90%Emax)	39.684(40%Emax)
79.367(80%Emax)	29.763(30%Emax)
69.446(70%Emax)	19.842(20%Emax)
59.526(60%Emax)	9.921(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:18:55

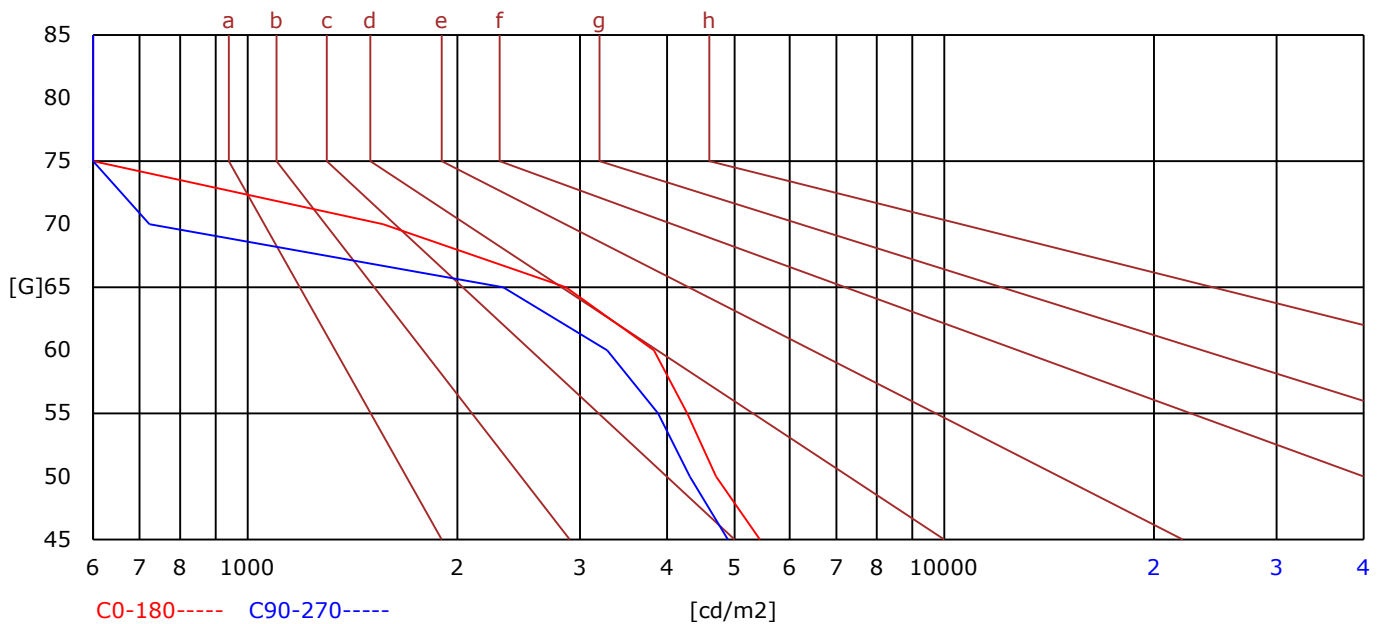
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5438	4706	4278	3832	2863	1566	0	0	0
C90	4892	4315	3882	3281	2327	723	0	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



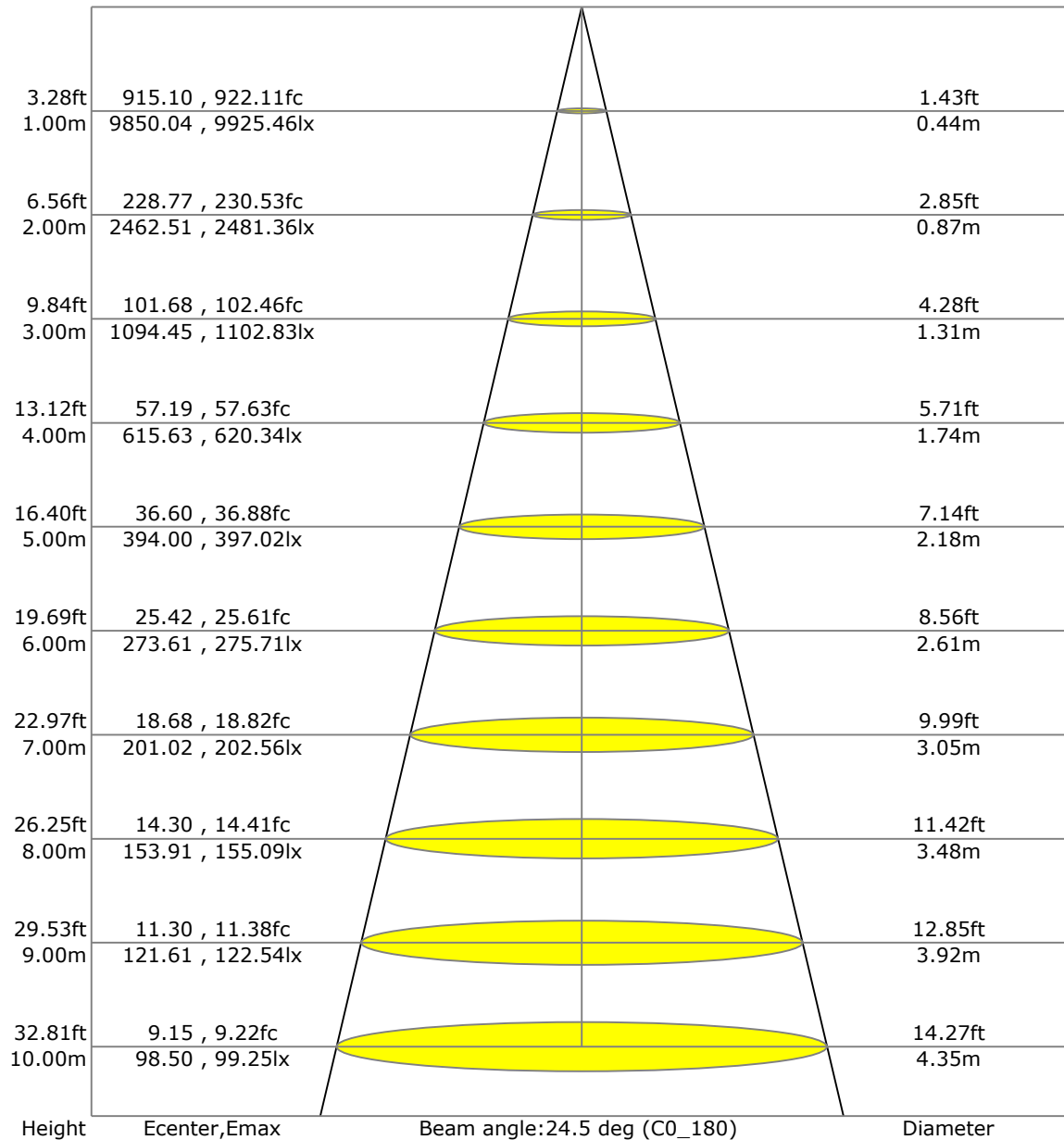
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:18:55

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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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 18:18:55

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	5.97	6.02	6.17	6.21	6.45	6.15	6.21	6.35	6.40	6.64
3H	5.98	6.04	6.19	6.23	6.48	6.14	6.20	6.35	6.39	6.64
4H	5.97	6.03	6.18	6.22	6.47	6.13	6.19	6.34	6.38	6.63
6H	5.95	6.01	6.17	6.21	6.46	6.11	6.17	6.33	6.37	6.62
8H	5.94	6.00	6.16	6.21	6.46	6.11	6.16	6.32	6.37	6.62
12H	5.93	5.99	6.16	6.20	6.45	6.10	6.15	6.32	6.36	6.62
4H 2H	6.12	6.18	6.33	6.37	6.62	6.66	6.72	6.87	6.92	7.16
3H	6.13	6.19	6.35	6.39	6.65	6.65	6.71	6.87	6.91	7.17
4H	6.11	6.17	6.34	6.38	6.64	6.63	6.69	6.86	6.90	7.16
6H	6.09	6.15	6.33	6.37	6.63	6.61	6.67	6.85	6.89	7.15
8H	6.08	6.13	6.32	6.36	6.63	6.59	6.65	6.84	6.88	7.15
12H	6.06	6.12	6.31	6.35	6.62	6.58	6.64	6.83	6.87	7.14
8H 4H	6.10	6.15	6.31	6.36	6.61	6.65	6.71	6.87	6.91	7.17
6H	6.05	6.10	6.31	6.34	6.62	6.58	6.64	6.84	6.88	7.15
8H	6.03	6.09	6.30	6.33	6.61	6.57	6.62	6.83	6.87	7.14
12H	6.02	6.07	6.29	6.32	6.60	6.55	6.60	6.82	6.85	7.14
12H 4H	6.06	6.12	6.31	6.35	6.62	6.60	6.65	6.85	6.88	7.15
6H	6.03	6.09	6.30	6.33	6.61	6.57	6.62	6.83	6.87	7.14

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:18:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

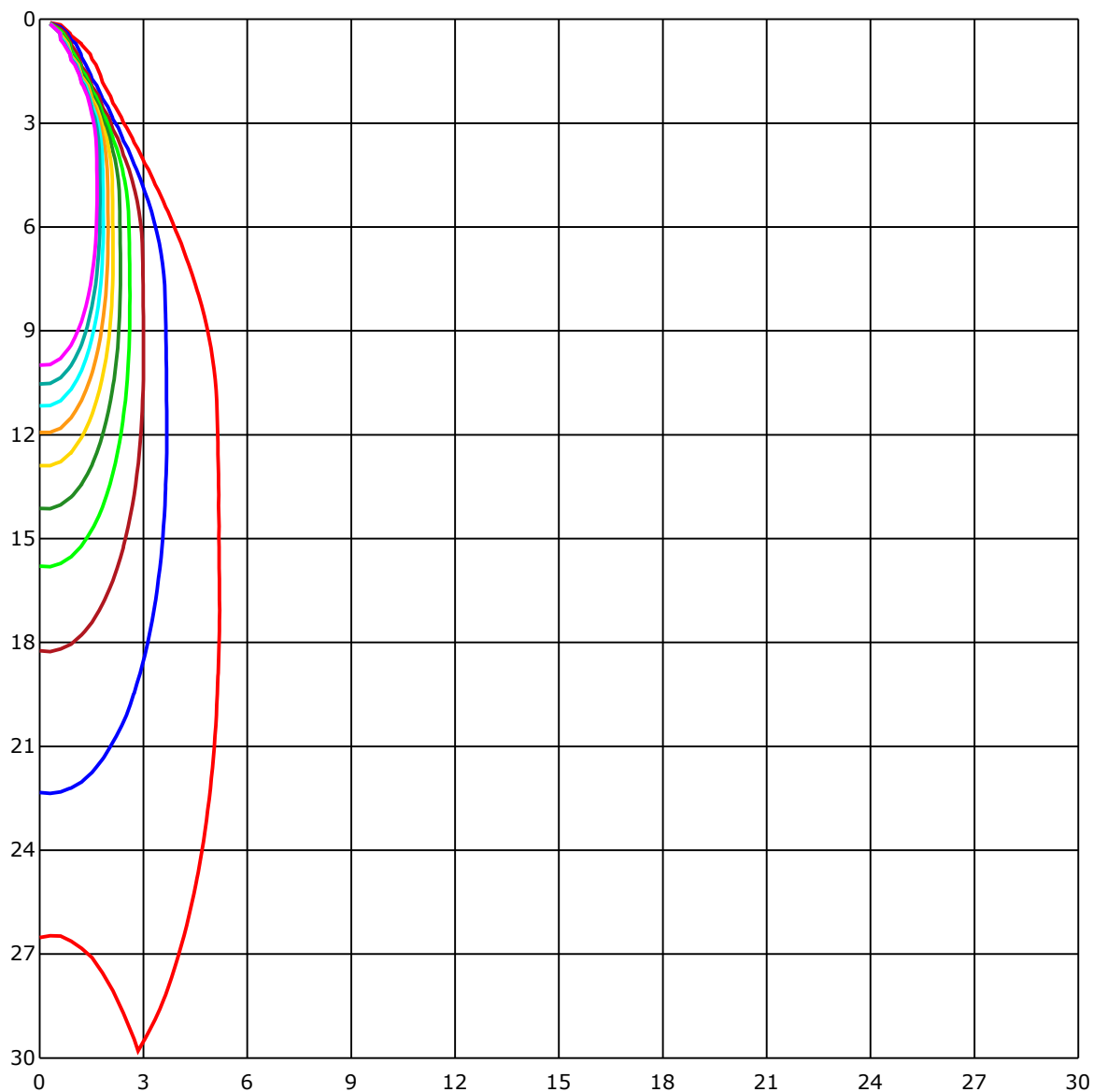
Test Distance: 6.87 m

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

98.757	49.378
88.881	39.503
79.005	29.627
69.13	19.751
59.254	9.876

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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:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9850.04	9868.16	9718.27	9764.24	9850.04	9868.16	9718.27	9764.24	9850.04	
G1	9885.82	9925.46	9826.49	9625.76	9726.76	9700.38	9509.19	9800.06	9885.82	
G2	9807.66	9866.28	9863.82	9381.33	9498.61	9450.94	9225.34	9743.71	9807.66	
G3	9667.01	9746.16	9785.1	9078.56	9177.91	9125.43	8865.42	9613.02	9667.01	
G4	9407.24	9521.22	9621.04	8695.13	8789.57	8734.73	8460.61	9394.17	9407.24	
G5	9077.57	9199.38	9367.4	8268.19	8359.19	8279.47	7979.53	9077.76	9077.57	
G6	8658.18	8809.63	9048.83	7773.9	7870.08	7768.33	7472.5	8687.3	8658.18	
G7	8227.6	8352.67	8637.22	7270.21	7335.77	7234.67	6938.94	8254.55	8227.6	
G8	7691.68	7859.23	8204.19	6728.67	6781.35	6685.3	6428.55	7774.37	7691.68	
G9	7154.86	7324.82	7701.12	6196.81	6238.53	6139.99	5887.81	7254.21	7154.86	
G10	6599.83	6777.0	7188.65	5680.15	5681.89	5598.83	5370.02	6712.53	6599.83	
G11	6048.9	6232.3	6657.22	5181.18	5173.39	5068.9	4872.8	6181.8	6048.9	
G12	5505.47	5691.38	6135.6	4686.13	4670.65	4593.11	4422.4	5646.17	5505.47	
G13	4987.16	5157.54	5595.52	4237.62	4215.3	4126.05	3978.18	5147.58	4987.16	
G14	4493.57	4644.84	5082.54	3816.29	3785.1	3717.7	3594.56	4663.71	4493.57	
G15	4033.35	4181.32	4598.44	3449.48	3408.84	3349.09	3248.52	4219.88	4033.35	
G16	3628.73	3758.95	4157.81	3115.99	3073.75	3029.62	2944.05	3796.8	3628.73	
G17	3259.18	3362.97	3753.43	2827.71	2791.18	2739.5	2666.25	3427.25	3259.18	
G18	2917.67	3019.23	3390.48	2564.4	2534.1	2495.4	2432.67	3089.75	2917.67	
G19	2641.8	2726.71	3055.2	2344.74	2315.76	2276.97	2219.81	2800.05	2641.8	
G20	2399.92	2472.79	2770.22	2151.19	2124.24	2095.4	2046.41	2543.39	2399.92	
G21	2199.19	2256.58	2518.85	1982.27	1964.85	1932.81	1881.88	2323.41	2199.19	
G22	2013.99	2064.96	2304.01	1830.39	1821.42	1792.11	1739.21	2133.06	2013.99	
G23	1858.8	1904.35	2112.16	1693.71	1694.94	1659.82	1598.89	1963.01	1858.8	
G24	1719.62	1763.09	1949.04	1561.46	1571.23	1538.29	1468.53	1811.09	1719.62	
G25	1592.75	1629.28	1793.67	1430.96	1455.46	1417.09	1337.61	1674.55	1592.75	
G26	1467.3	1503.32	1650.62	1299.43	1323.26	1292.02	1208.76	1540.7	1467.3	
G27	1343.41	1381.97	1515.26	1164.63	1198.14	1167.65	1081.19	1412.41	1343.41	
G28	1217.49	1261.15	1386.6	1033.14	1066.32	1040.13	950.22	1281.68	1217.49	
G29	1091.52	1128.57	1252.56	903.25	938.75	906.94	822.12	1151.98	1091.52	
G30	956.35	997.98	1118.43	775.82	809.43	782.52	702.81	1021.29	956.35	
G31	830.43	869.6	984.67	657.69	686.01	661.98	590.39	893.86	830.43	
G32	707.72	743.92	853.27	551.87	575.33	553.95	492.17	767.56	707.72	
G33	594.82	629.23	731.32	455.12	479.52	454.84	403.53	654.9	594.82	
G34	490.0	525.54	622.57	378.0	391.55	375.22	332.64	548.0	490.0	
G35	399.19	429.78	517.61	312.11	325.61	309.14	273.98	450.97	399.19	
G36	324.38	352.7	426.85	260.01	273.13	258.12	228.76	373.42	324.38	

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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	267.32	289.93	356.38	218.1	230.75	216.07	191.67	311.22	267.32	
G38	220.36	239.15	296.16	183.22	195.58	185.2	163.91	260.43	220.36	
G39	187.56	201.25	247.55	158.35	166.32	159.9	141.35	221.35	187.56	
G40	157.26	170.05	210.97	136.68	142.87	141.69	123.47	188.79	157.26	
G41	136.21	145.32	179.4	121.34	126.2	127.2	109.12	162.73	136.21	
G42	119.41	127.62	157.17	108.84	111.67	116.48	98.22	142.39	119.41	
G43	106.24	113.84	137.01	99.63	103.22	107.14	90.29	128.38	106.24	
G44	96.71	104.21	122.38	92.32	96.14	101.61	85.38	116.67	96.71	
G45	89.91	96.9	109.64	87.17	91.37	95.9	80.66	108.41	89.91	
G46	85.1	91.04	102.94	82.64	85.57	91.66	77.17	100.91	85.1	
G47	80.66	86.51	95.43	80.0	81.89	87.98	73.25	96.19	80.66	
G48	76.93	82.45	91.09	75.8	78.82	85.05	70.28	90.76	76.93	
G49	73.11	79.24	86.32	72.82	75.04	80.99	67.21	88.07	73.11	
G50	68.72	76.22	82.78	69.9	70.13	77.92	64.8	83.73	68.72	
G51	67.4	73.06	78.72	67.49	66.59	74.15	62.68	81.04	67.4	
G52	62.87	71.31	75.66	64.33	64.38	71.55	60.03	78.06	62.87	
G53	59.56	67.49	72.21	62.16	60.36	68.34	56.26	75.09	59.56	
G54	55.27	64.71	69.43	58.48	56.12	65.13	55.5	71.83	55.27	
G55	52.2	61.83	66.55	56.12	53.43	61.54	51.35	69.57	52.2	
G56	49.89	59.37	63.29	53.05	49.42	59.89	49.23	65.75	49.89	
G57	46.21	56.59	60.55	50.55	46.82	55.27	46.21	63.67	46.21	
G58	42.48	53.76	58.24	48.61	41.86	52.77	43.89	61.31	42.48	
G59	39.46	50.12	55.41	44.7	38.37	49.18	41.82	58.0	39.46	
G60	35.49	48.28	52.53	41.34	35.11	46.11	38.42	53.47	35.49	
G61	31.95	44.03	49.93	39.13	30.44	41.72	35.63	51.49	31.95	
G62	28.03	41.44	46.21	35.02	25.91	38.42	33.32	47.15	28.03	
G63	25.39	38.37	43.75	31.01	20.67	34.83	30.96	44.6	25.39	
G64	20.67	34.83	41.3	27.7	16.19	31.91	28.37	40.64	20.67	
G65	16.0	30.49	38.61	24.78	12.74	27.33	24.64	37.95	16.0	
G66	10.48	28.32	35.26	20.81	9.25	23.32	22.32	34.08	10.48	
G67	8.07	23.65	31.72	17.51	7.03	18.97	19.78	29.69	8.07	
G68	5.38	20.86	28.88	13.4	5.24	15.67	17.51	25.86	5.38	
G69	2.36	17.04	26.29	9.86	2.55	11.14	14.25	22.51	2.36	
G70	0.8	13.5	24.21	6.23	0.8	7.22	11.75	18.74	0.8	
G71	0.0	9.11	21.29	3.3	0.0	4.15	9.82	14.73	0.0	
G72	0.0	5.43	19.78	0.0	0.0	3.16	7.98	11.66	0.0	
G73	0.0	2.27	16.05	0.0	0.0	0.0	4.06	7.5	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:18:55

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 Interval: 45.0 Deg

Temperature: 25

Test Date: 2025/

G Interval: 1.0 Deg

Humidity: 60

Remarks: