

Report No.:

Test Time: 2025/5/13 18:11:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120H140-24°-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): 39.65 W
Power Factor: 0.9730
Lamp Luminous Flux: 3714.58

Photometric Results

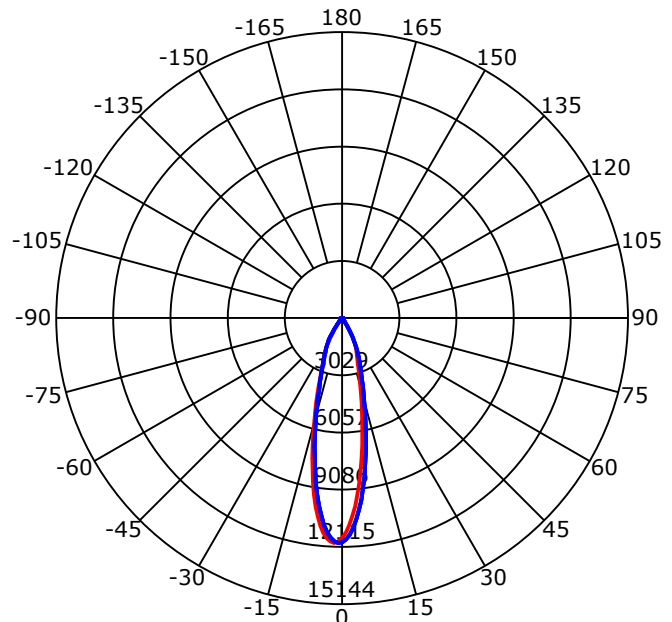
CIE Class: Direct
Luminaire Luminous Flux: 3714.577 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.69 lm/W
Beam Angle(50%) C0-180,C90-270: 25.0,25.9
Field Angle(10%) C0-180,C90-270: 60.1,60.6
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 12114.97 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11635.50 cd
Effective Luminous Flux: 3171.05 lm
ERP(ϕ use)(120deg): 3653.77 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.0 deg,25.9 deg

C0-180 — C90-270 —

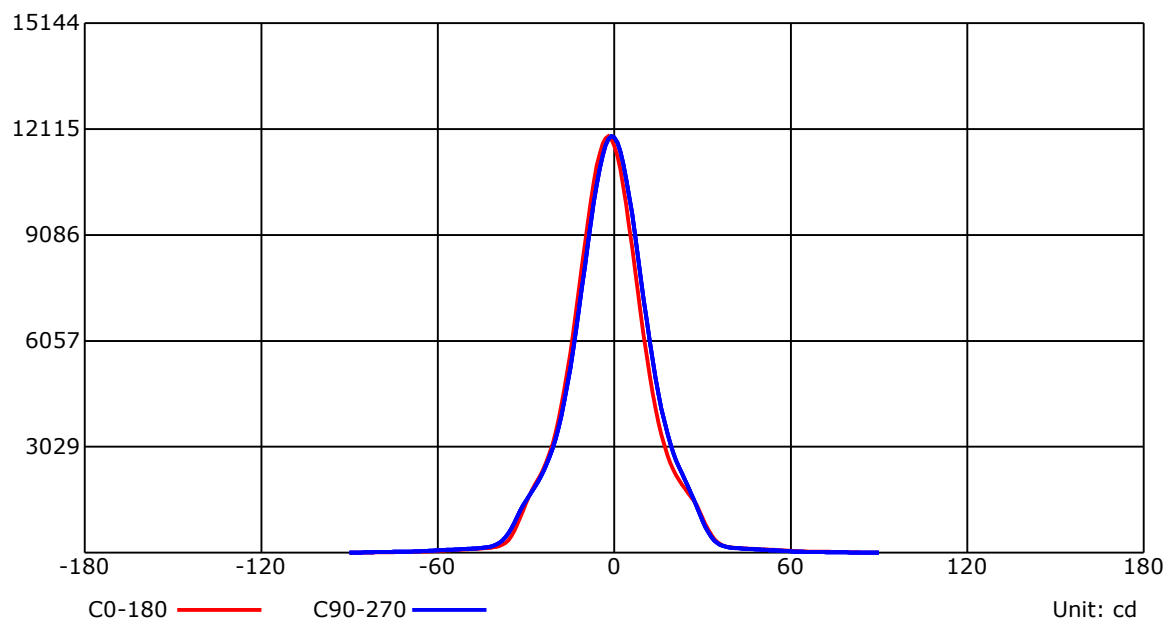
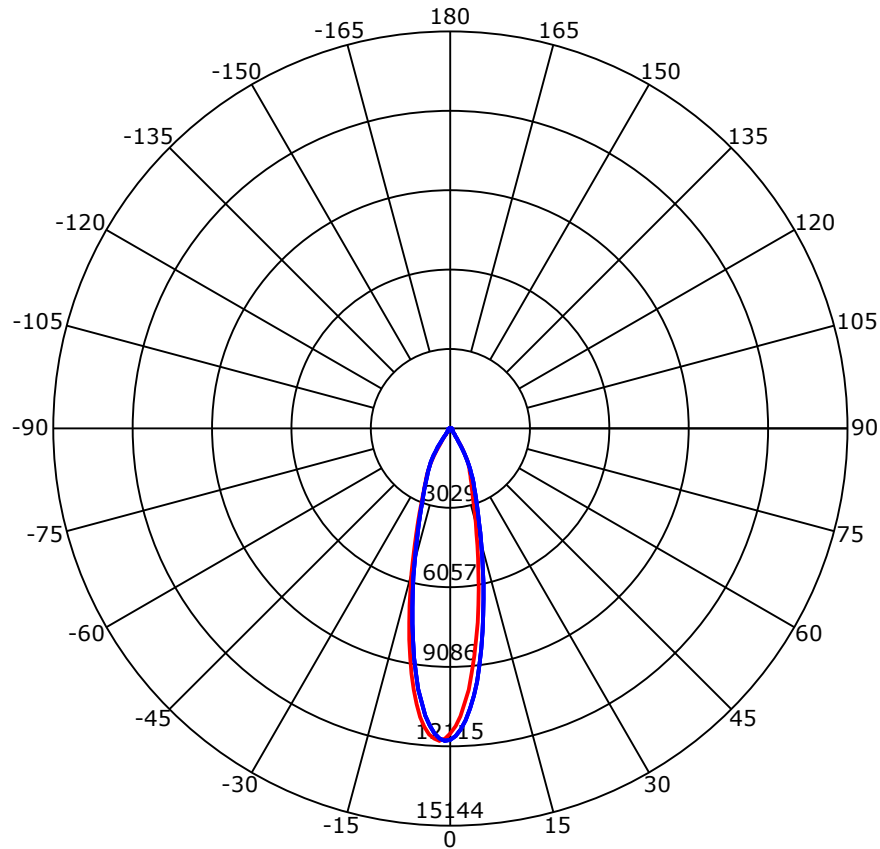
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:11:24

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 Intensity Distribution Curve



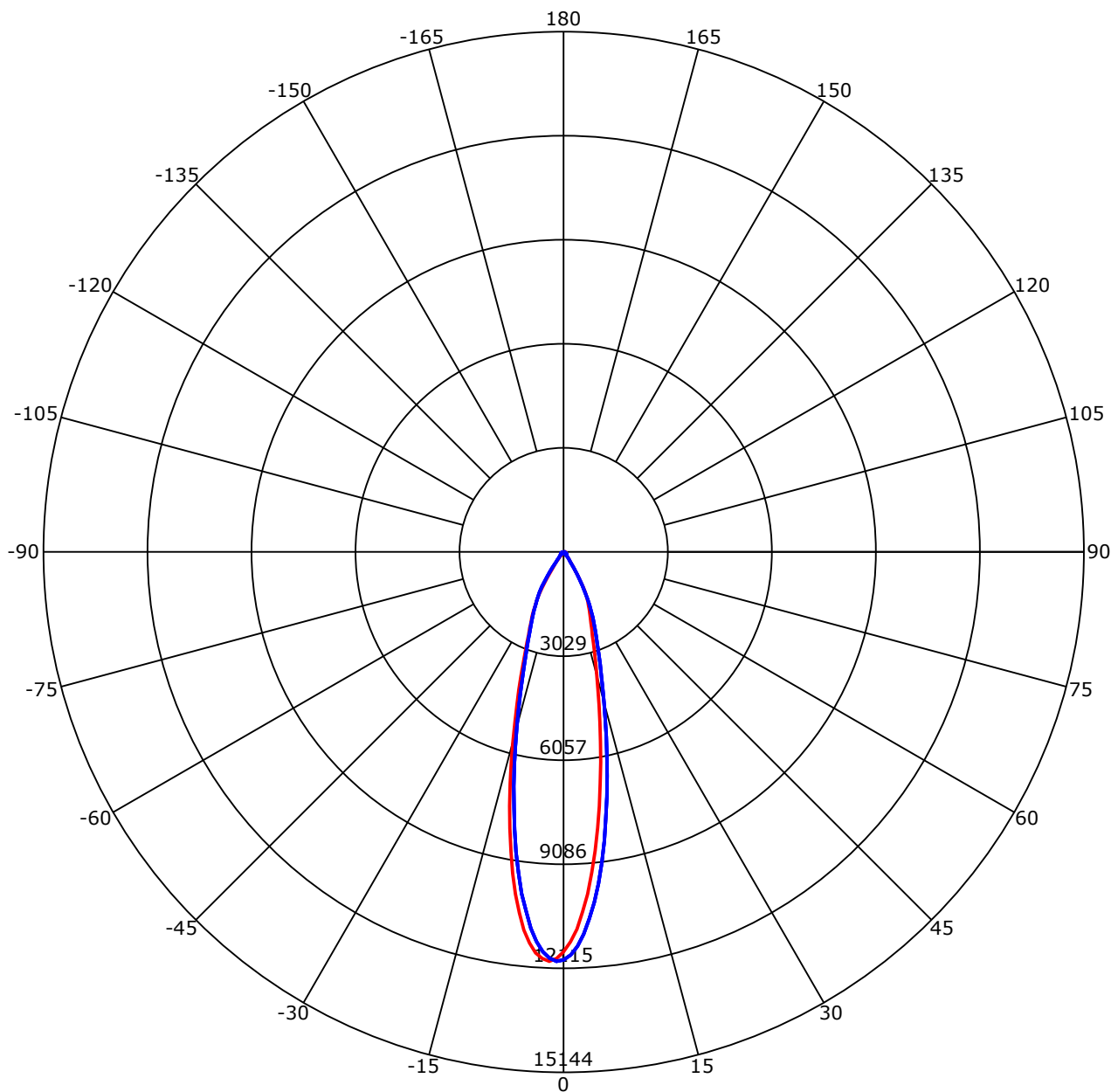
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Luminous Intensity Distribution Curve



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: 2025/5/13 18:11:24

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

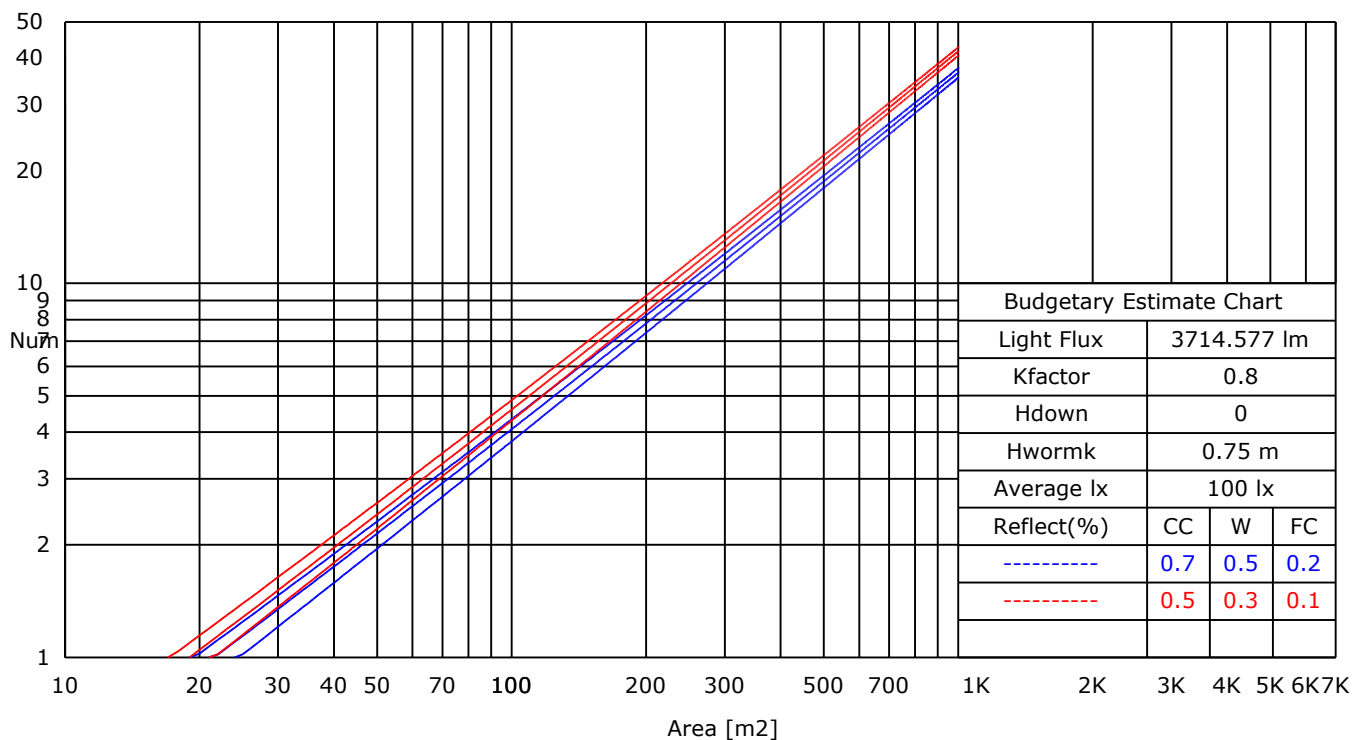
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



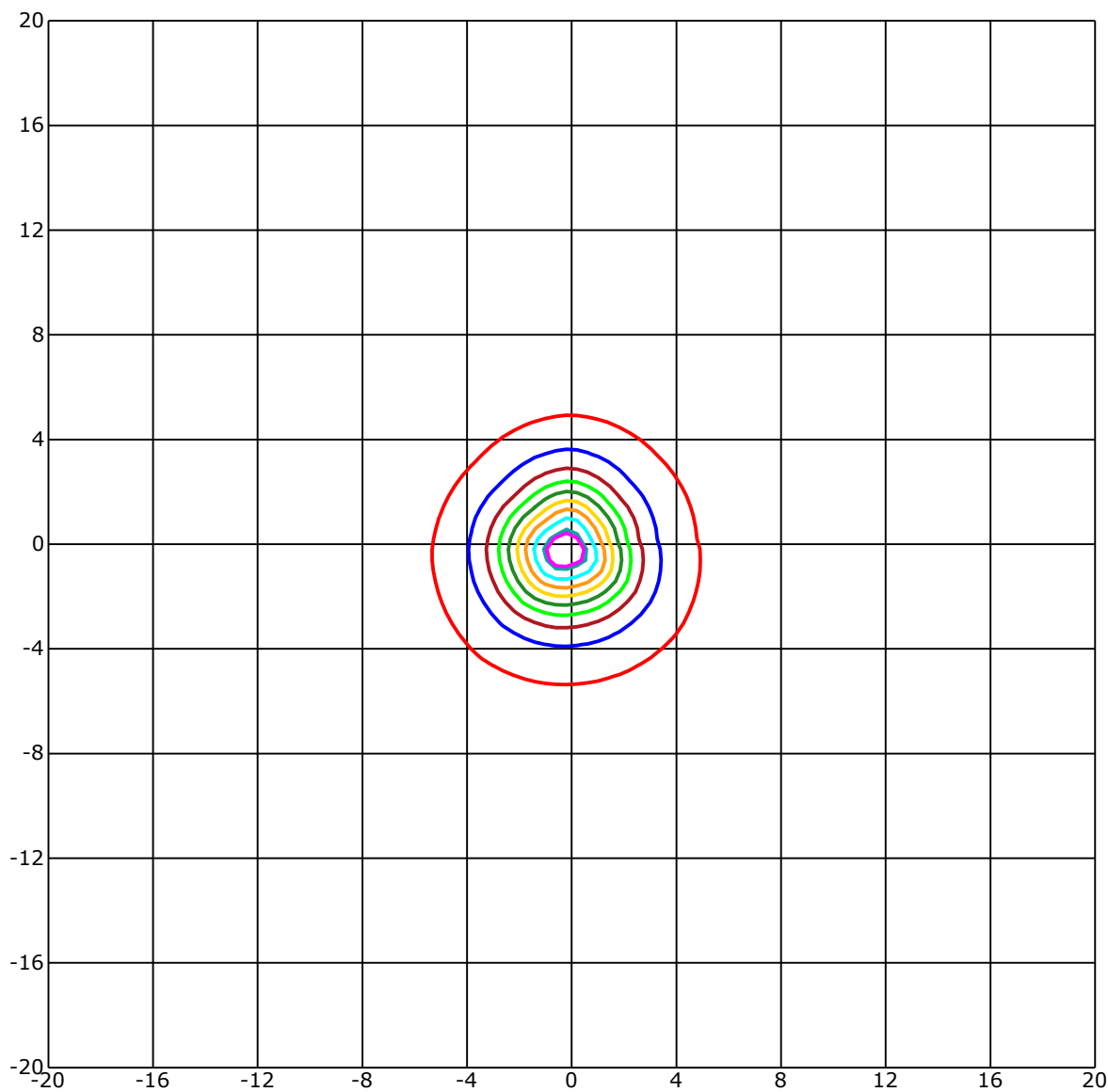
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:11:24

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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ISOLX DIAGRAM



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

111.254(92%Emax)	60.464(50%Emax)
108.836(90%Emax)	48.371(40%Emax)
96.743(80%Emax)	36.279(30%Emax)
84.65(70%Emax)	24.186(20%Emax)
72.557(60%Emax)	12.093(10%Emax)

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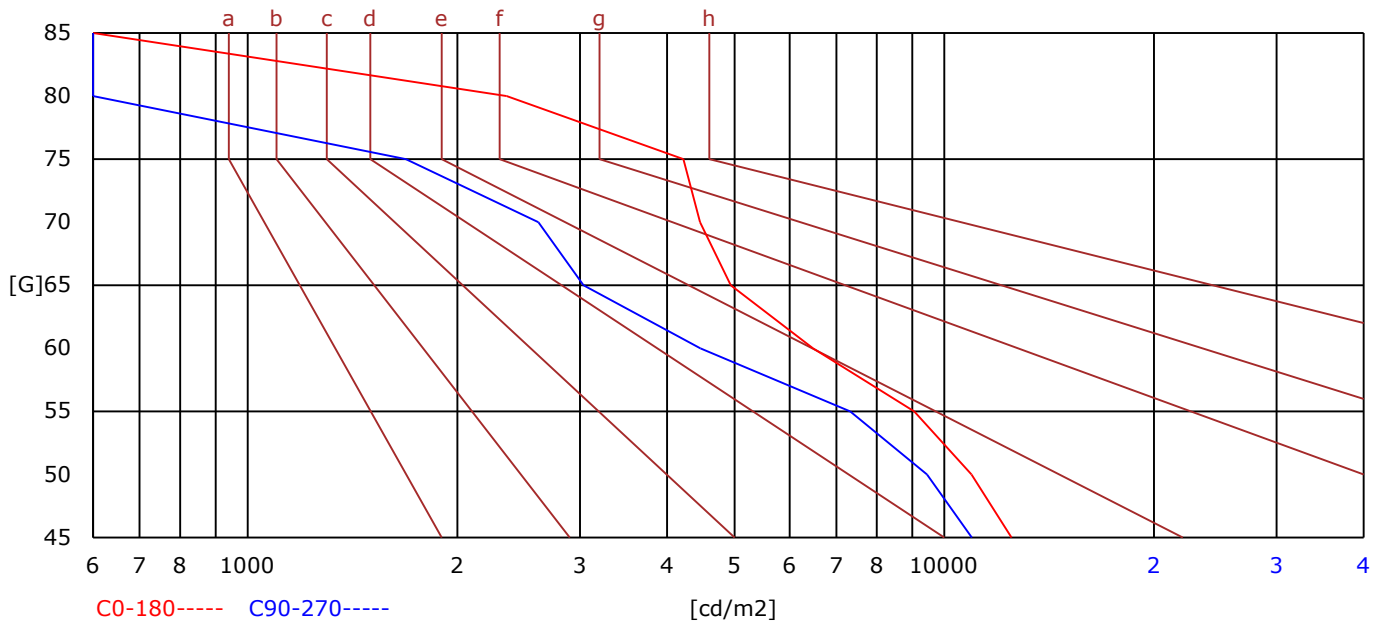
G Range: 0 - 90 Deg
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Humidity: 60
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12486	10947	9058	6482	4940	4460	4221	2354	0
C90	10958	9443	7330	4467	3035	2615	1688	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



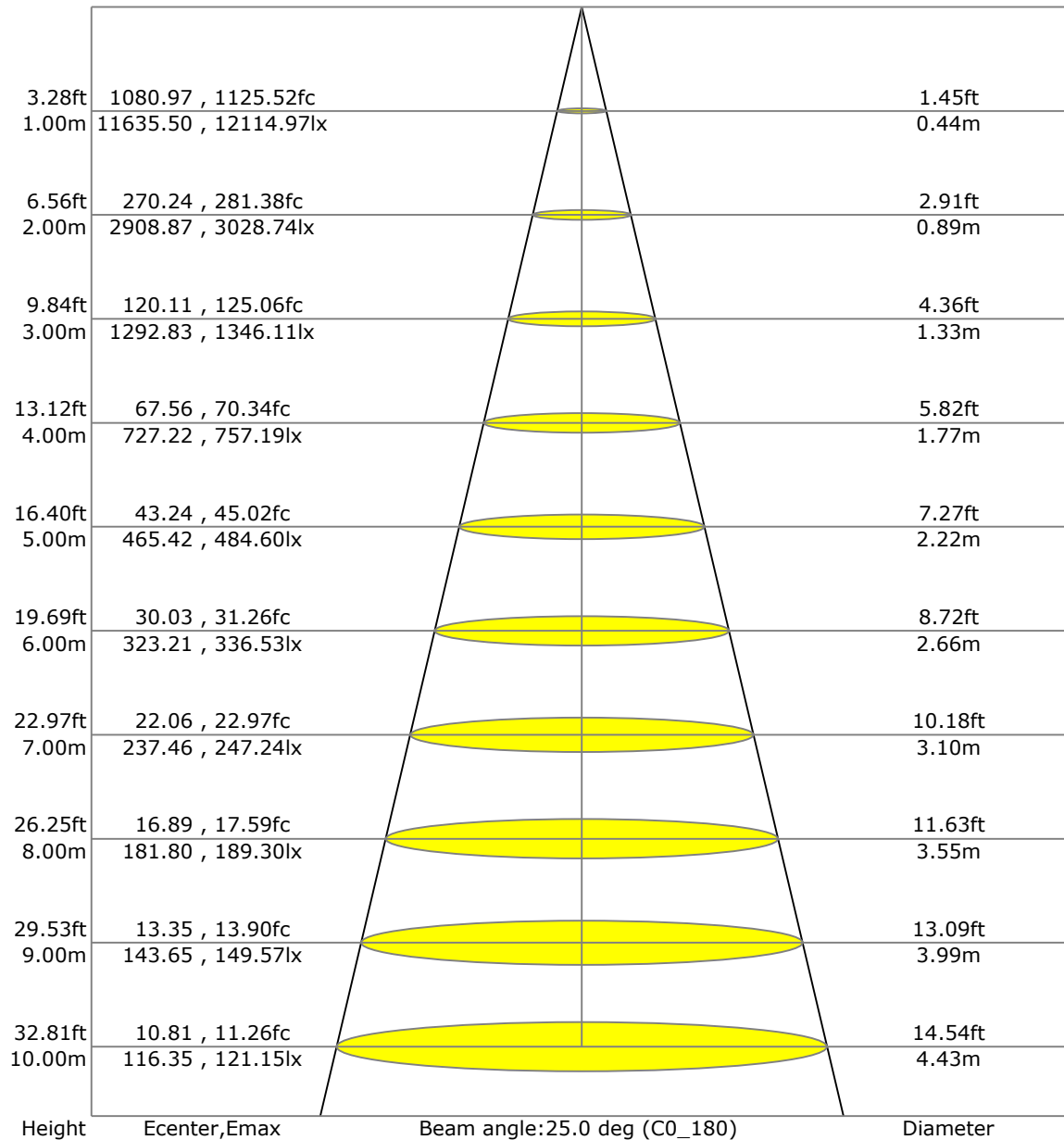
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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 18:11:24

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	5.41	5.47	5.61	5.66	5.90	5.10	5.15	5.30	5.34	5.58
3H	5.43	5.49	5.64	5.68	5.93	5.14	5.20	5.35	5.39	5.64
4H	5.43	5.49	5.64	5.68	5.93	5.15	5.21	5.36	5.40	5.65
6H	5.41	5.47	5.63	5.67	5.92	5.14	5.20	5.35	5.40	5.65
8H	5.41	5.46	5.62	5.67	5.92	5.13	5.19	5.35	5.39	5.64
12H	5.40	5.45	5.62	5.66	5.92	5.12	5.18	5.34	5.38	5.64
4H 2H	6.51	6.56	6.72	6.76	7.01	5.78	5.84	5.99	6.04	6.29
3H	6.62	6.68	6.84	6.89	7.14	5.92	5.98	6.14	6.18	6.44
4H	6.63	6.69	6.86	6.90	7.16	5.95	6.01	6.18	6.22	6.48
6H	6.62	6.68	6.86	6.90	7.16	5.95	6.01	6.19	6.23	6.49
8H	6.61	6.66	6.85	6.89	7.16	5.94	6.00	6.19	6.23	6.49
12H	6.59	6.65	6.84	6.88	7.15	5.93	5.98	6.18	6.22	6.49
8H 4H	6.91	6.97	7.13	7.17	7.42	5.88	5.94	6.10	6.14	6.39
6H	7.10	7.16	7.36	7.40	7.67	6.07	6.13	6.33	6.36	6.64
8H	7.09	7.14	7.35	7.39	7.66	6.06	6.11	6.32	6.36	6.64
12H	7.07	7.12	7.34	7.38	7.66	6.05	6.09	6.32	6.35	6.63
12H 4H	7.16	7.22	7.41	7.45	7.72	6.06	6.12	6.31	6.35	6.62
6H	7.15	7.20	7.41	7.44	7.72	6.06	6.11	6.32	6.35	6.63

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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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

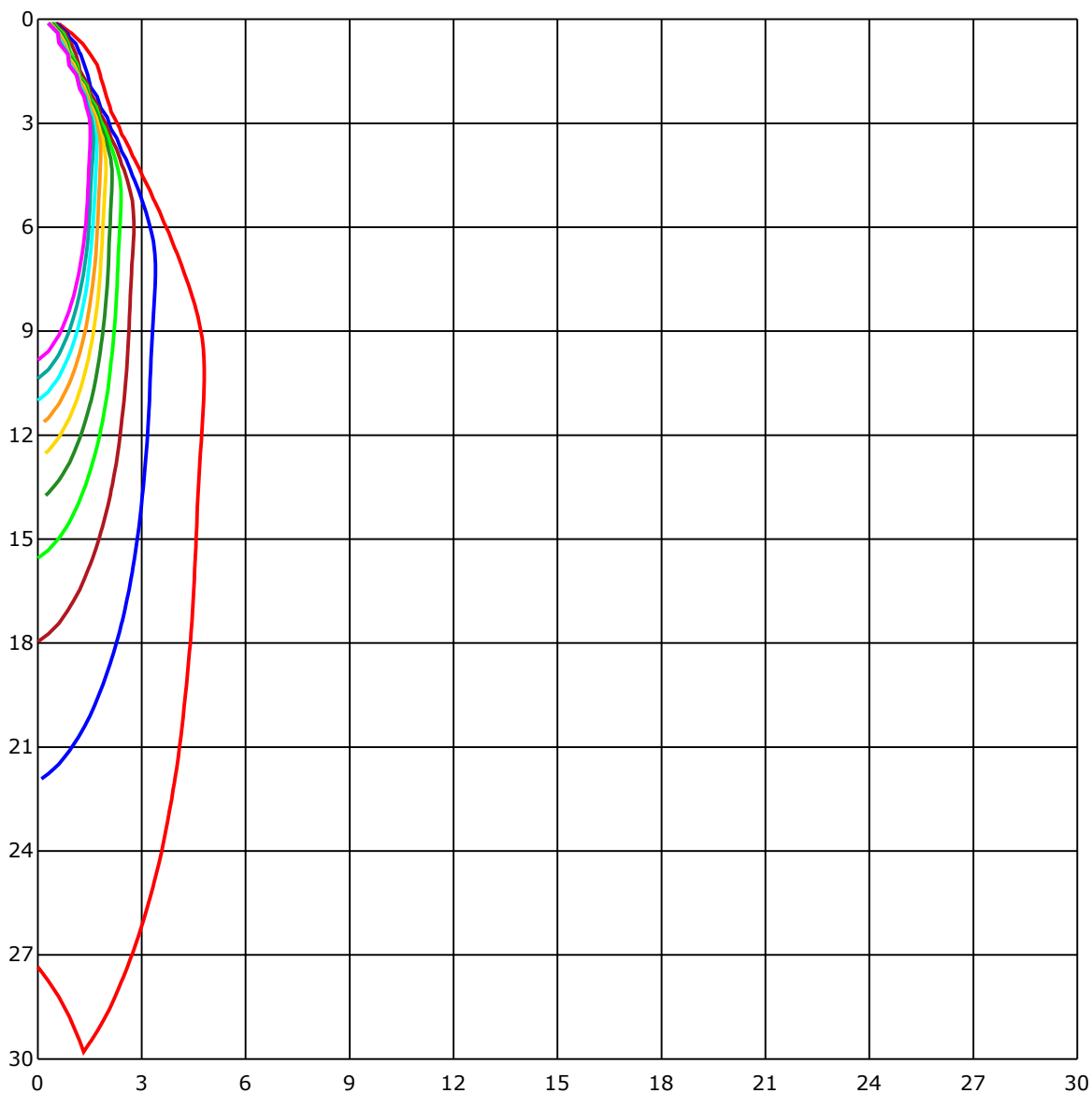
Remarks:

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SPACE ISOLX DIAGRAM



120.255

108.229

96.204

84.178

72.153

60.127

48.102

36.076

24.051

12.025

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C Interval: 45.0 Deg

Test Speed: High

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Operators: QC01

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11635.5	11746.13	11873.42	11713.99	11635.5	11746.13	11873.42	11713.99	11635.5	
G1	11346.09	11398.95	11727.11	11600.15	11828.63	11950.92	11915.14	11739.38	11346.09	
G2	10978.56	11002.59	11481.35	11374.55	11917.12	12114.97	11831.7	11652.02	10978.56	
G3	10485.4	10470.63	11139.6	11041.38	11845.67	12074.9	11647.58	11458.65	10485.4	
G4	9983.61	9922.96	10702.89	10612.08	11692.98	11951.67	11357.46	11145.88	9983.61	
G5	9359.48	9321.06	10232.48	10146.15	11413.63	11724.98	10990.98	10739.8	9359.48	
G6	8744.5	8703.16	9703.07	9575.54	11063.57	11372.33	10500.32	10284.2	8744.5	
G7	8092.57	8025.69	9104.99	8996.77	10584.52	10943.54	10015.84	9725.96	8092.57	
G8	7463.01	7382.11	8485.06	8367.16	10058.79	10453.78	9429.61	9147.23	7463.01	
G9	6814.1	6749.16	7849.18	7749.21	9469.59	9881.38	8845.97	8525.22	6814.1	
G10	6201.63	6138.19	7238.97	7134.99	8854.52	9264.37	8205.7	7901.94	6201.63	
G11	5616.43	5568.01	6634.37	6540.69	8199.8	8633.59	7581.99	7278.61	5616.43	
G12	5065.88	5039.83	6058.76	5947.52	7559.29	7992.42	6969.8	6655.57	5065.88	
G13	4570.36	4553.84	5519.91	5414.48	6923.27	7358.0	6372.95	6074.52	4570.36	
G14	4132.51	4128.17	5004.62	4901.54	6302.67	6731.88	5810.17	5510.62	4132.51	
G15	3731.2	3723.74	4552.19	4440.14	5706.15	6139.28	5270.1	4999.1	3731.2	
G16	3377.6	3385.39	4121.89	4018.34	5163.01	5574.05	4776.37	4520.71	3377.6	
G17	3069.12	3082.81	3753.33	3648.98	4668.01	5031.71	4332.63	4089.47	3069.12	
G18	2796.84	2819.97	3426.54	3312.7	4218.88	4545.01	3915.03	3699.95	2796.84	
G19	2570.06	2588.66	3133.54	3019.23	3799.4	4105.56	3566.72	3362.92	2570.06	
G20	2386.79	2394.3	2864.62	2766.07	3438.15	3717.37	3256.63	3061.47	2386.79	
G21	2217.97	2227.08	2640.34	2546.51	3119.34	3377.79	2988.18	2805.67	2217.97	
G22	2075.91	2074.12	2439.66	2348.05	2851.31	3077.62	2743.6	2592.34	2075.91	
G23	1946.21	1937.39	2264.08	2170.35	2619.29	2817.23	2535.13	2394.96	1946.21	
G24	1829.35	1807.64	2085.11	1987.51	2421.77	2596.92	2343.47	2228.83	1829.35	
G25	1710.37	1665.2	1905.34	1804.34	2246.76	2403.22	2181.39	2079.26	1710.37	
G26	1603.52	1500.96	1713.96	1609.79	2097.53	2239.54	2024.98	1941.87	1603.52	
G27	1485.66	1322.08	1516.44	1401.32	1945.27	2085.21	1882.87	1824.44	1485.66	
G28	1355.78	1134.71	1309.43	1188.61	1784.52	1951.64	1749.26	1696.87	1355.78	
G29	1178.84	943.65	1110.5	978.01	1617.25	1820.53	1624.33	1583.41	1178.84	
G30	989.77	764.73	913.17	777.1	1431.95	1678.84	1494.35	1466.83	989.77	
G31	808.48	599.02	729.48	599.35	1218.81	1509.88	1364.79	1349.5	808.48	
G32	644.71	458.23	568.91	454.41	1003.26	1327.51	1198.94	1213.15	644.71	
G33	503.17	353.32	438.98	346.57	804.28	1132.82	1025.21	1046.54	503.17	
G34	386.31	278.7	344.68	268.08	622.48	939.78	852.61	879.18	386.31	
G35	305.18	225.74	277.85	215.74	474.94	754.06	696.44	717.58	305.18	
G36	250.0	188.46	226.26	176.89	359.78	596.85	557.11	577.12	250.0	

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C Interval: 45.0 Deg

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	208.33	163.91	192.42	152.02	281.15	463.43	441.86	458.47	208.33	
G38	180.43	148.01	168.16	135.36	228.53	364.55	353.69	368.47	180.43	
G39	160.89	136.26	153.15	125.36	191.71	293.94	287.19	304.28	160.89	
G40	148.95	128.19	142.11	117.33	169.25	242.69	236.5	251.94	148.95	
G41	140.32	122.0	133.14	110.2	154.15	205.68	202.14	216.3	140.32	
G42	133.9	116.62	126.49	104.54	142.96	180.06	174.44	191.05	133.9	
G43	128.52	111.86	119.88	100.25	133.61	162.22	157.35	176.19	128.52	
G44	123.8	106.57	114.26	94.77	126.44	150.79	144.94	161.74	123.8	
G45	118.46	102.98	109.45	90.38	120.12	141.64	137.15	153.91	118.46	
G46	114.55	97.7	103.69	86.23	115.82	134.79	128.47	146.22	114.55	
G47	111.24	94.11	98.69	84.06	110.06	127.95	124.08	140.98	111.24	
G48	105.67	90.76	94.11	77.69	105.3	122.71	118.56	134.51	105.67	
G49	101.95	85.05	89.91	73.63	100.77	117.0	114.45	129.74	101.95	
G50	98.45	82.08	85.1	70.8	95.9	112.61	109.59	125.07	98.45	
G51	93.17	77.69	82.5	65.93	91.66	107.23	105.72	121.01	93.17	
G52	89.53	72.92	75.99	61.97	87.27	102.42	100.44	115.59	89.53	
G53	85.33	68.25	71.08	57.72	82.97	98.55	96.42	112.9	85.33	
G54	82.41	64.09	67.26	53.14	78.68	94.06	91.8	106.52	82.41	
G55	77.26	60.6	63.81	49.04	74.95	88.68	88.4	102.51	77.26	
G56	73.44	55.83	58.71	44.37	70.23	84.25	84.95	97.93	73.44	
G57	69.0	50.93	55.36	41.11	65.13	79.62	81.08	94.44	69.0	
G58	65.08	47.62	48.9	35.11	60.79	75.52	76.51	90.43	65.08	
G59	59.85	43.23	45.17	31.53	56.07	70.56	71.41	86.09	59.85	
G60	55.6	37.8	39.41	26.05	51.87	67.11	67.59	81.04	55.6	
G61	50.78	32.38	33.13	22.42	47.43	62.21	63.95	76.36	50.78	
G62	46.25	29.97	30.16	20.01	42.76	57.39	59.7	71.46	46.25	
G63	40.45	28.65	29.36	19.26	36.62	52.62	54.7	67.02	40.45	
G64	37.66	26.43	26.86	16.61	32.52	48.61	50.97	62.16	37.66	
G65	35.78	24.35	24.4	14.96	29.36	42.48	45.12	56.92	35.78	
G66	34.12	22.32	22.42	14.06	27.99	38.28	39.79	51.44	34.12	
G67	32.38	21.1	21.19	13.07	25.49	35.73	37.8	49.37	32.38	
G68	31.06	19.96	19.87	11.04	24.54	34.55	36.44	46.39	31.06	
G69	29.88	19.02	18.5	9.96	21.71	31.67	34.03	44.18	29.88	
G70	28.79	17.79	17.42	10.43	21.24	31.2	32.28	42.29	28.79	
G71	27.0	17.18	16.94	8.5	19.45	28.51	30.73	41.63	27.0	
G72	27.75	16.61	15.01	7.74	18.45	26.57	29.78	39.13	27.75	
G73	25.63	15.06	14.25	8.21	17.37	24.92	28.7	37.38	25.63	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 18:11:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

