

Report No.:

Test Time: 2025/2/11 16:32:13

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT120H140-60°-40W
Lamp Type:
Luminous Width: 111 mm
Luminous Length: 111 mm
Luminous Height: 105 mm

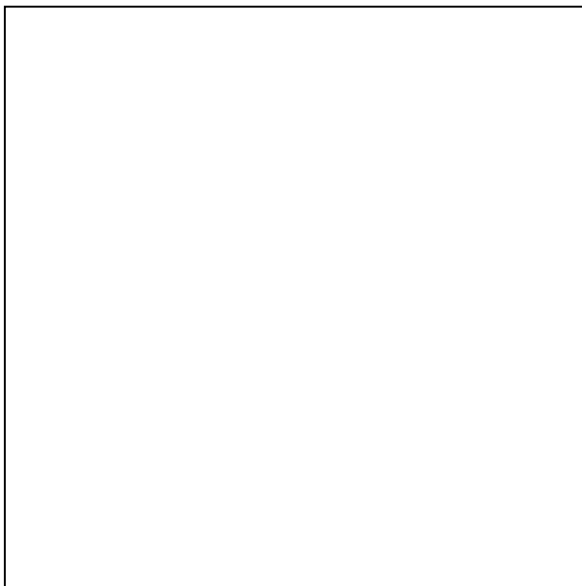
Voltage(V): 219.20 V
Current(A): 0.1830 A
Power(W): 39.08 W
Power Factor: 0.9720
Lamp Luminous Flux: 3535.02

Photometric Results

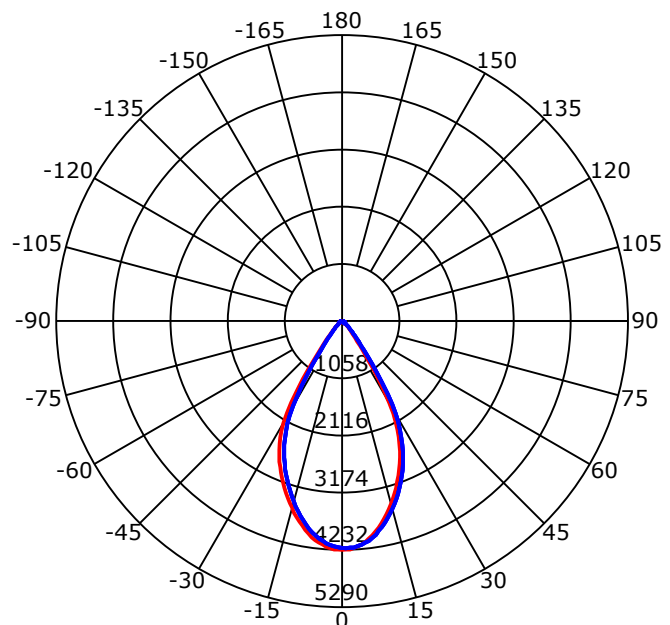
CIE Class: Direct
Luminaire Luminous Flux: 3535.017 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.46 lm/W
Beam Angle(50%) C0-180,C90-270: 58.3,57.6
Field Angle(10%) C0-180,C90-270: 77.8,78.8
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 4232.29 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4232.29 cd
Effective Luminous Flux: 3230.18 lm
ERP(ϕ use)(120deg): 3474.09 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 58.3 deg,57.6 deg

C0-180 — C90-270

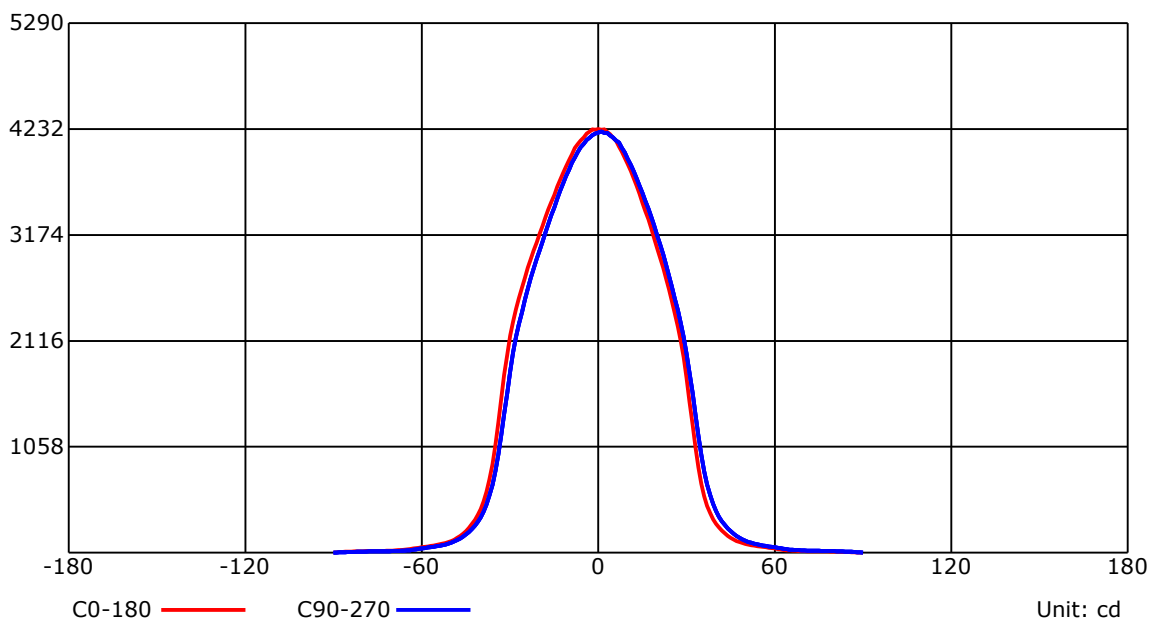
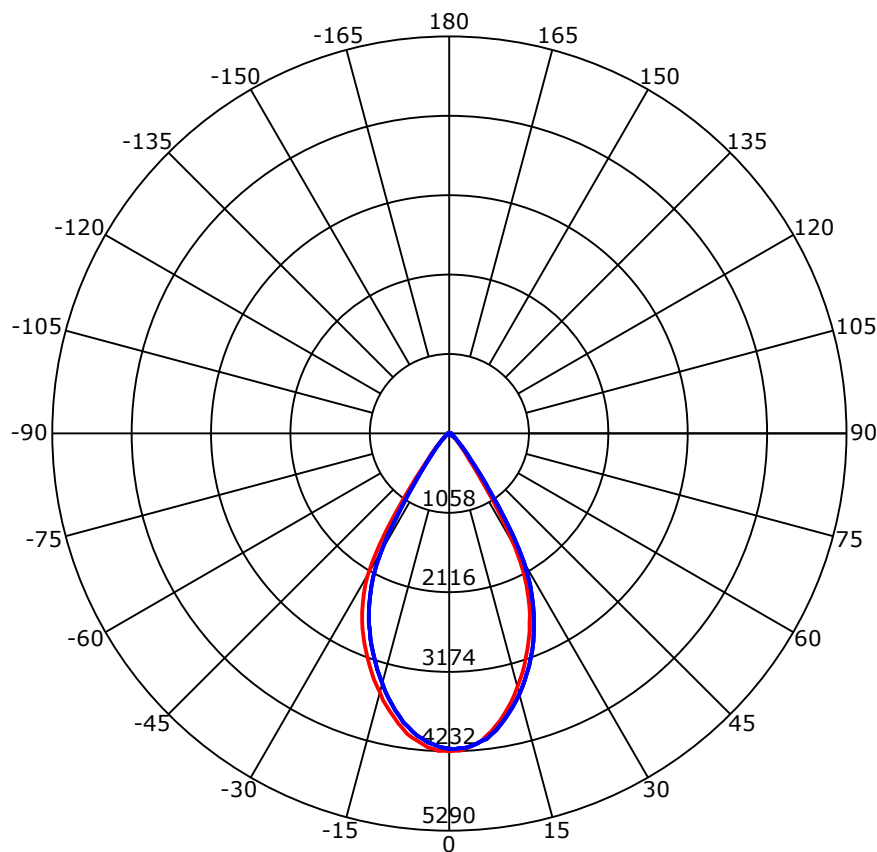
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 16:32:13

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: 2025/2/11 16:32:13

Luminous Intensity Distribution Curve



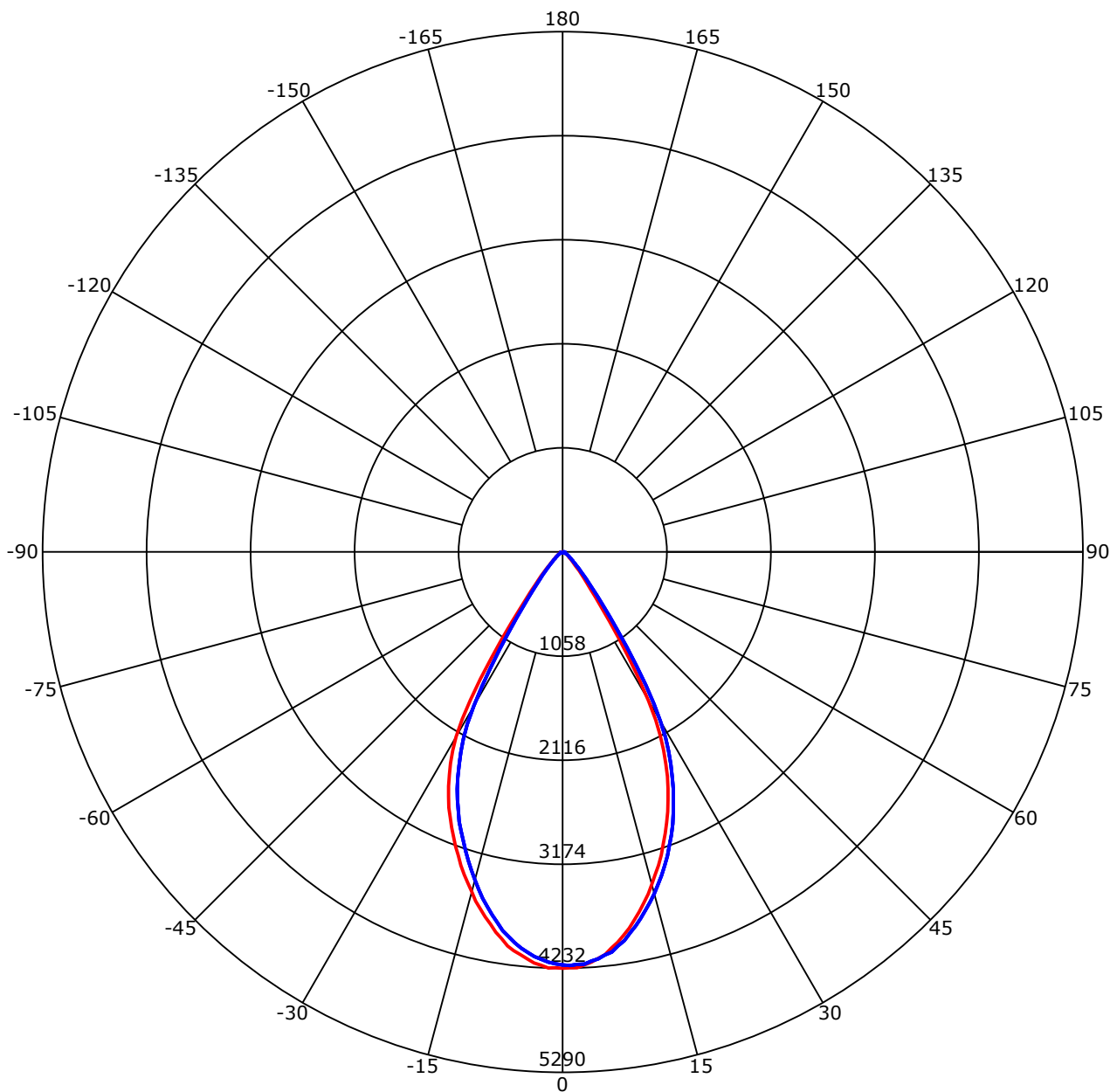
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 16:32:13

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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 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: 2025/2/11 16:32:13

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

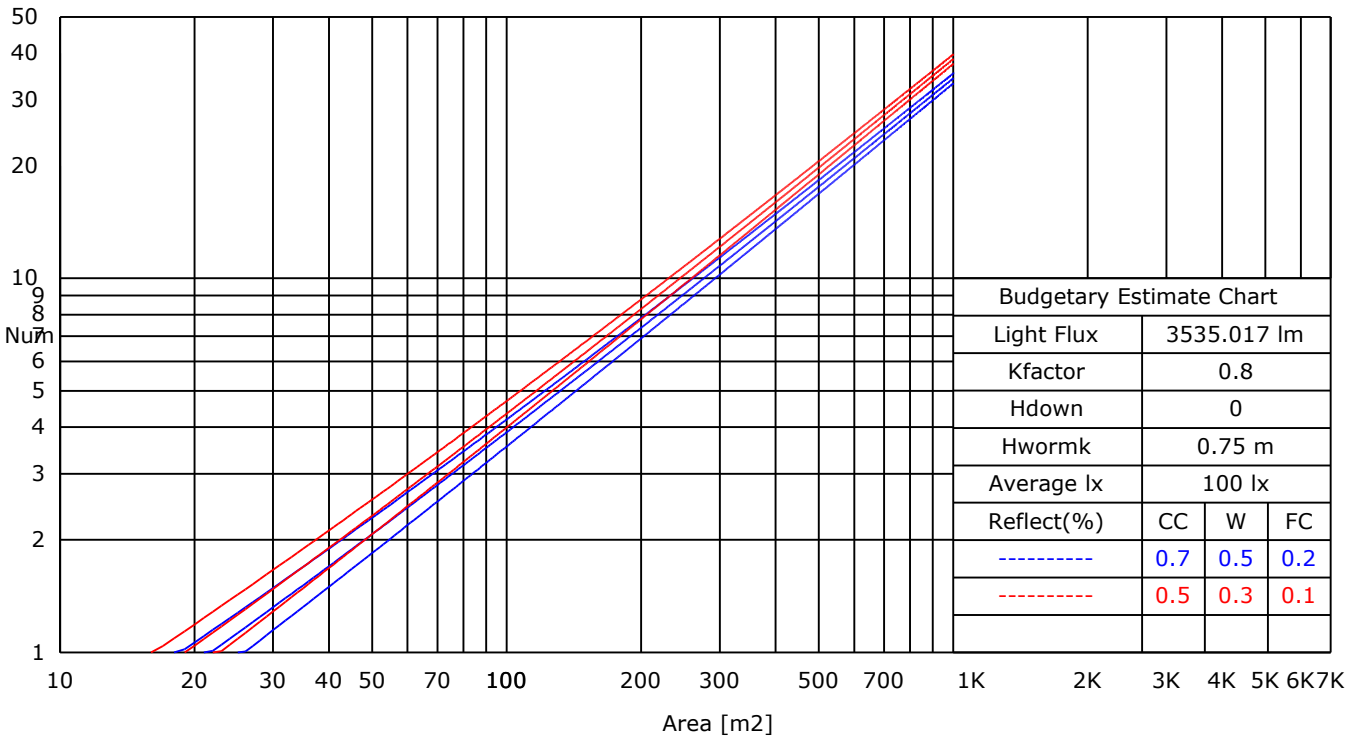
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.03	1.04	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.76
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.71	0.68
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
8	0.79	0.78	0.77	0.78	0.77	0.75	0.76	0.74	0.72	0.74	0.71	0.68	0.71	0.67	0.64	0.61
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



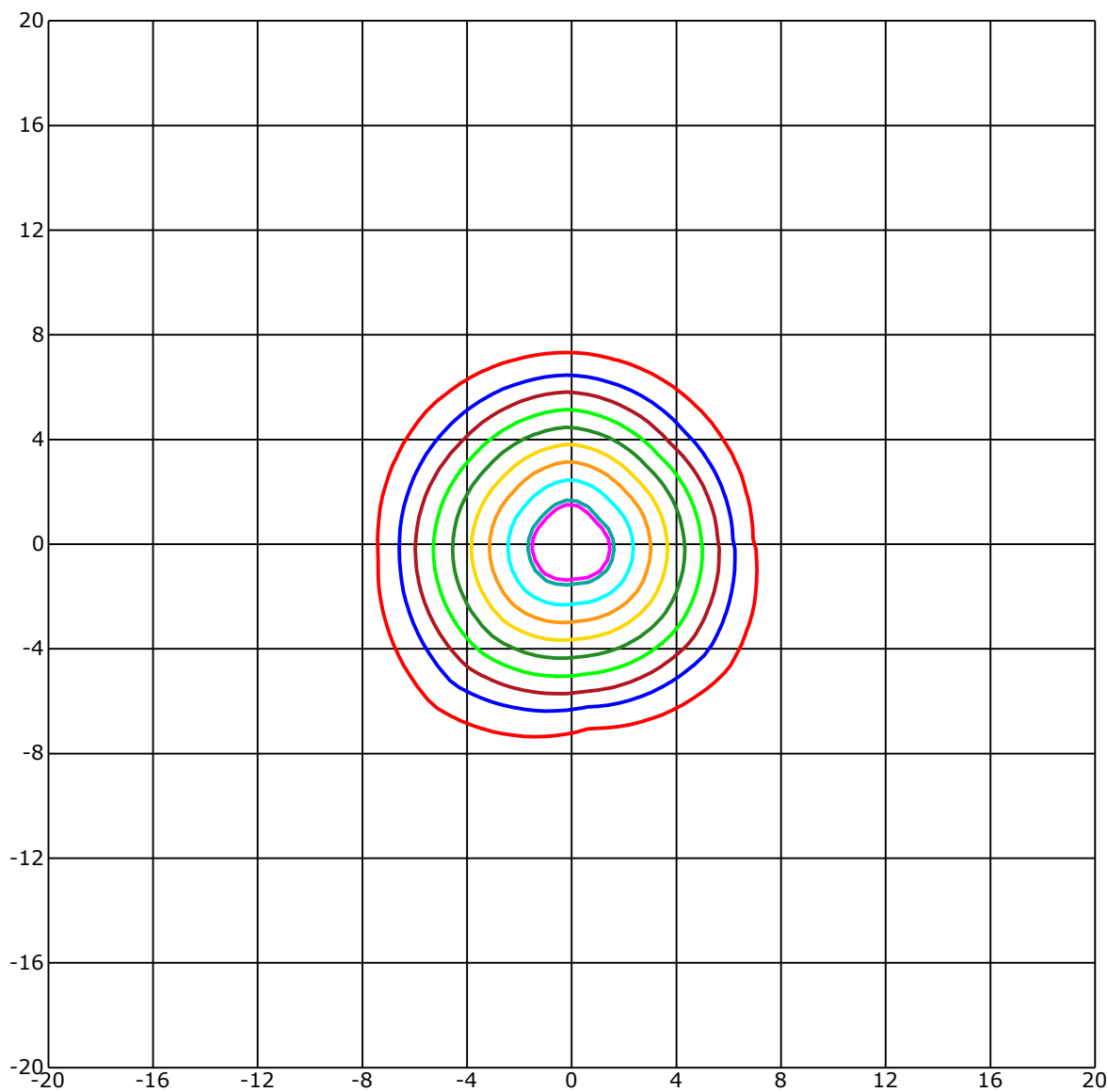
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 16:32:13

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)

38.937(92%Emax)	21.161(50%Emax)
38.091(90%Emax)	16.929(40%Emax)
33.858(80%Emax)	12.697(30%Emax)
29.626(70%Emax)	8.465(20%Emax)
25.394(60%Emax)	4.232(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 16:32:13

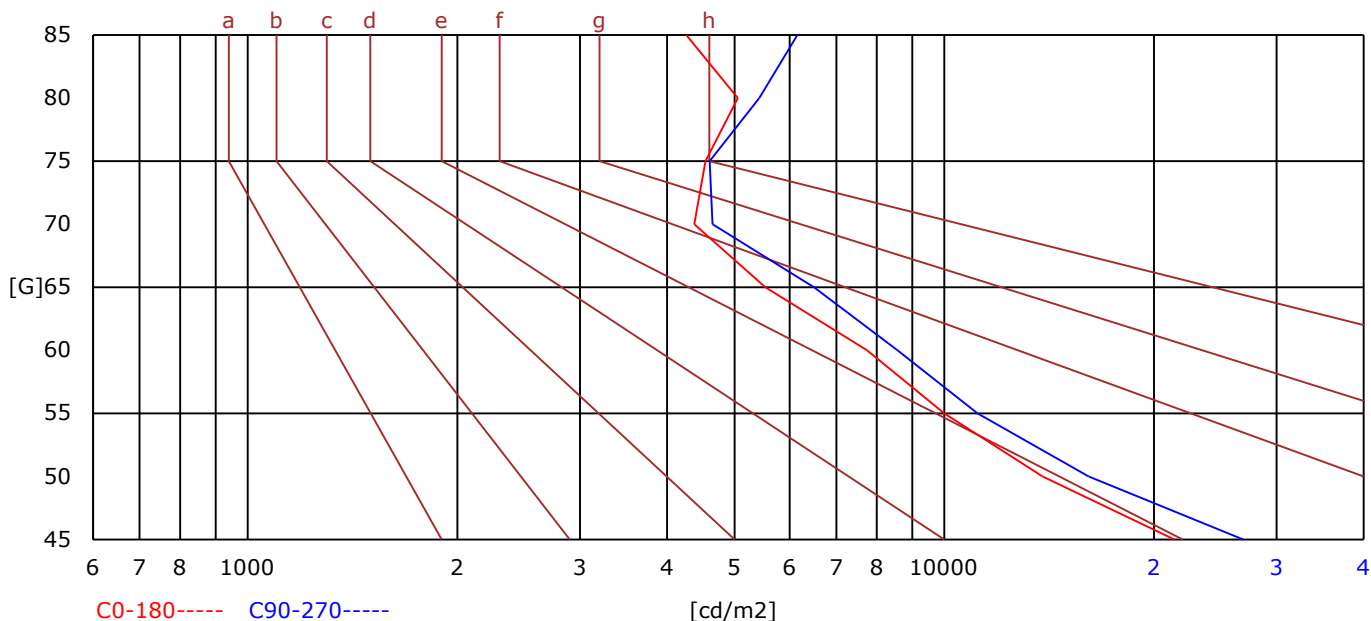
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	21398	13832	9998	7753	5538	4379	4544	5052	4263
C90	26864	16114	11160	8573	6499	4648	4603	5427	6153
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



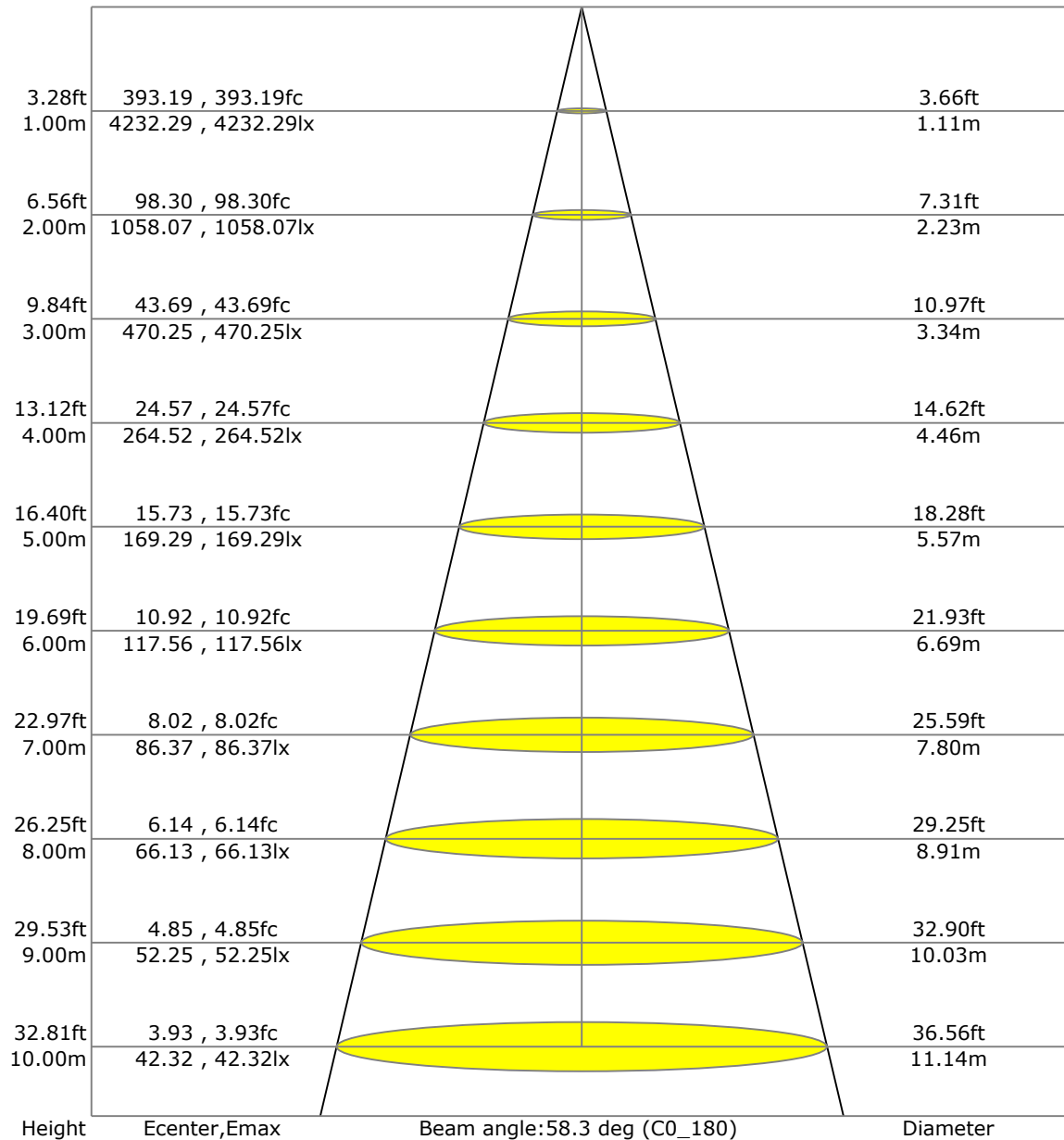
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 16:32:13

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: 2025/2/11 16:32:13

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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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	10.92	10.97	11.12	11.15	11.40	11.04	11.09	11.24	11.28	11.52
3H	10.90	10.95	11.11	11.14	11.39	11.02	11.07	11.22	11.26	11.51
4H	10.89	10.94	11.10	11.13	11.38	11.00	11.06	11.21	11.25	11.50
6H	10.87	10.92	11.08	11.12	11.37	10.99	11.04	11.20	11.24	11.49
8H	10.86	10.91	11.08	11.11	11.37	10.98	11.03	11.20	11.23	11.48
12H	10.85	10.90	11.07	11.11	11.36	10.97	11.02	11.19	11.22	11.48
4H 2H	11.03	11.08	11.24	11.27	11.52	11.21	11.26	11.42	11.46	11.71
3H	11.03	11.08	11.25	11.29	11.54	11.21	11.26	11.43	11.47	11.72
4H	11.03	11.08	11.26	11.29	11.55	11.21	11.26	11.43	11.47	11.73
6H	11.01	11.06	11.25	11.28	11.55	11.19	11.24	11.43	11.46	11.72
8H	11.00	11.05	11.25	11.28	11.54	11.18	11.23	11.42	11.45	11.72
12H	10.99	11.04	11.24	11.27	11.54	11.17	11.21	11.41	11.44	11.71
8H 4H	11.09	11.14	11.31	11.34	11.60	11.32	11.38	11.54	11.58	11.83
6H	11.14	11.19	11.40	11.42	11.70	11.39	11.43	11.64	11.67	11.94
8H	11.14	11.18	11.40	11.42	11.70	11.38	11.42	11.64	11.67	11.94
12H	11.13	11.17	11.40	11.42	11.70	11.37	11.41	11.64	11.66	11.94
12H 4H	11.17	11.22	11.42	11.45	11.72	11.47	11.52	11.72	11.75	12.02
6H	11.19	11.23	11.45	11.47	11.75	11.49	11.53	11.75	11.78	12.05

C Range: 0 - 360 Deg
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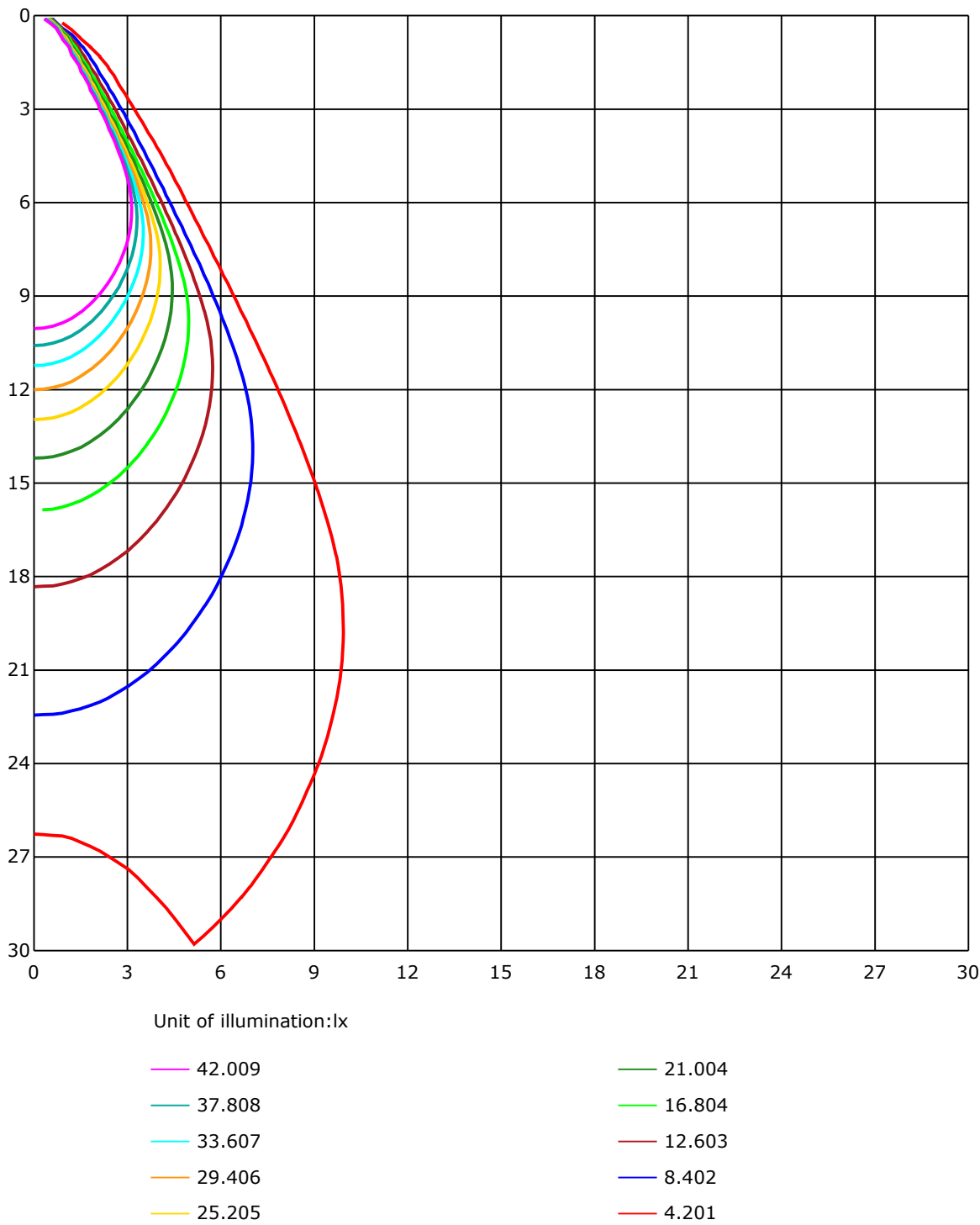
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/2/11 16:32:13

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: 2025/2/11 16:32:13

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4232.29	4169.8	4198.16	4219.31	4232.29	4169.8	4198.16	4219.31	4232.29	
G1	4226.86	4158.28	4205.67	4209.82	4226.15	4177.63	4188.44	4214.49	4226.86	
G2	4228.61	4149.46	4194.34	4203.36	4230.73	4175.93	4171.07	4208.12	4228.61	
G3	4202.79	4119.86	4194.63	4172.63	4206.75	4156.87	4146.63	4201.14	4202.79	
G4	4179.8	4091.64	4169.56	4139.22	4187.26	4145.92	4123.5	4178.44	4179.8	
G5	4145.59	4047.56	4150.5	4114.77	4150.02	4122.56	4084.84	4156.06	4145.59	
G6	4114.39	4007.44	4118.12	4067.38	4116.23	4104.76	4049.4	4119.82	4114.39	
G7	4057.14	3951.89	4098.67	4023.25	4082.77	4073.33	4003.24	4086.54	4057.14	
G8	4006.59	3903.7	4044.92	3968.5	4043.26	4041.8	3948.12	4026.37	4006.59	
G9	3945.47	3840.03	4000.32	3908.42	3978.65	3988.33	3897.85	3983.84	3945.47	
G10	3884.92	3784.25	3933.63	3839.7	3923.81	3943.58	3827.15	3910.41	3884.92	
G11	3812.8	3714.02	3874.77	3775.47	3853.58	3891.43	3759.23	3845.51	3812.8	
G12	3738.66	3638.6	3810.35	3703.92	3791.7	3829.7	3685.98	3776.98	3738.66	
G13	3664.84	3556.71	3739.79	3631.75	3724.21	3762.3	3615.19	3707.55	3664.84	
G14	3585.22	3490.97	3667.67	3556.29	3658.33	3696.18	3535.38	3623.73	3585.22	
G15	3497.2	3400.82	3596.73	3477.94	3574.41	3623.87	3449.24	3554.59	3497.2	
G16	3412.9	3315.35	3517.59	3399.26	3501.02	3553.88	3367.4	3461.23	3412.9	
G17	3330.21	3218.88	3437.35	3325.64	3429.04	3477.89	3283.82	3387.09	3330.21	
G18	3238.89	3128.64	3351.36	3236.67	3350.18	3400.11	3195.7	3290.1	3238.89	
G19	3138.31	3028.48	3267.44	3155.82	3264.52	3318.23	3107.73	3212.36	3138.31	
G20	3043.96	2924.08	3171.73	3058.5	3185.08	3235.4	3020.98	3114.05	3043.96	
G21	2949.52	2819.73	3082.76	2971.52	3101.73	3150.63	2937.77	3027.16	2949.52	
G22	2848.62	2708.35	2983.17	2877.97	3017.63	3072.99	2834.32	2932.44	2848.62	
G23	2739.73	2590.45	2876.98	2783.63	2931.12	2981.43	2742.71	2841.49	2739.73	
G24	2632.93	2468.16	2767.58	2681.63	2847.44	2899.4	2636.7	2745.21	2632.93	
G25	2516.3	2334.88	2659.69	2582.1	2746.44	2806.94	2529.14	2646.0	2516.3	
G26	2391.8	2197.11	2540.7	2461.93	2649.82	2711.37	2404.45	2535.32	2391.8	
G27	2256.63	2051.79	2421.67	2342.57	2540.28	2613.72	2282.54	2428.23	2256.63	
G28	2111.12	1899.68	2289.71	2209.9	2431.54	2505.87	2153.22	2302.31	2111.12	
G29	1951.64	1735.01	2153.64	2067.89	2307.17	2391.99	2000.21	2170.3	1951.64	
G30	1743.78	1570.43	1987.7	1924.22	2169.55	2263.61	1810.05	2027.15	1743.78	
G31	1509.78	1403.82	1801.98	1768.14	1982.18	2131.32	1598.04	1875.89	1509.78	
G32	1275.59	1243.36	1596.01	1605.36	1775.69	1992.51	1381.88	1705.84	1275.59	
G33	1051.26	1090.25	1376.92	1441.44	1536.26	1840.02	1171.05	1536.92	1051.26	
G34	852.66	944.5	1168.93	1273.47	1300.23	1686.2	978.72	1365.31	852.66	
G35	688.6	811.13	980.09	1108.66	1079.06	1519.55	815.37	1197.81	688.6	
G36	563.72	695.02	813.77	954.56	888.34	1357.05	678.5	1037.15	563.72	

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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	467.53	591.52	681.9	816.7	730.94	1195.73	569.38	890.04	467.53	
G38	393.53	506.75	573.4	691.95	608.98	1046.21	480.94	757.89	393.53	
G39	334.86	434.21	486.32	589.68	512.04	904.81	408.68	648.06	334.86	
G40	289.51	373.47	416.23	499.01	437.37	783.37	352.51	551.73	289.51	
G41	252.08	321.65	360.02	426.0	377.81	672.37	307.63	472.39	252.08	
G42	220.17	278.32	312.92	363.6	327.45	578.4	268.55	406.51	220.17	
G43	191.34	241.7	274.87	311.83	285.12	496.89	234.38	349.26	191.34	
G44	167.64	211.44	241.65	269.35	247.69	429.02	206.39	301.73	167.64	
G45	148.58	186.43	213.57	234.05	215.78	371.01	182.51	262.93	148.58	
G46	131.92	165.57	189.26	204.03	188.79	323.96	160.85	231.31	131.92	
G47	117.24	147.44	167.83	179.54	165.9	281.91	142.53	204.93	117.24	
G48	105.82	132.86	149.05	158.96	146.88	247.08	126.87	182.27	105.82	
G49	95.95	120.02	132.53	142.25	130.22	217.01	111.9	163.87	95.95	
G50	88.68	109.54	118.65	127.62	116.81	192.56	99.44	147.87	88.68	
G51	81.79	99.77	107.61	115.25	105.86	170.95	89.72	134.89	81.79	
G52	75.85	91.14	98.5	104.07	97.41	153.67	81.7	122.76	75.85	
G53	70.84	83.59	90.62	94.58	89.49	138.15	74.71	112.42	70.84	
G54	66.26	76.98	83.73	86.23	82.69	125.31	68.77	103.13	66.26	
G55	61.69	70.65	77.64	78.87	76.74	113.41	63.76	94.82	61.69	
G56	57.82	65.51	72.31	72.21	71.55	103.55	58.9	87.41	57.82	
G57	53.95	60.65	67.63	66.64	66.69	94.3	54.8	80.99	53.95	
G58	50.08	56.45	62.82	61.59	62.21	86.46	50.5	75.18	50.08	
G59	45.4	52.25	58.19	57.11	57.96	79.43	46.16	70.13	45.4	
G60	41.34	47.76	53.76	52.81	54.18	73.58	42.19	65.23	41.34	
G61	36.91	43.8	49.32	48.52	49.84	68.01	38.28	60.79	36.91	
G62	32.14	39.98	44.98	44.6	45.4	62.96	34.08	56.54	32.14	
G63	26.81	36.15	40.54	40.97	41.53	58.38	29.07	52.34	26.81	
G64	24.12	32.52	34.78	37.43	36.86	54.13	24.54	47.81	24.12	
G65	22.23	28.84	31.15	33.84	31.48	50.03	22.56	43.75	22.23	
G66	20.72	25.3	28.74	30.54	28.88	45.59	20.72	39.83	20.72	
G67	19.21	22.28	26.9	27.19	26.67	41.53	19.21	36.01	19.21	
G68	17.89	20.77	25.11	23.79	25.06	37.66	17.65	32.0	17.89	
G69	16.61	19.4	23.6	21.14	23.13	33.79	16.38	28.88	16.61	
G70	15.72	18.45	22.04	19.59	21.47	30.06	15.29	26.81	15.72	
G71	15.01	17.18	21.1	18.36	20.11	27.23	14.4	25.25	15.01	
G72	14.87	16.33	19.92	17.18	19.35	25.44	13.88	23.6	14.87	
G73	14.44	15.48	19.35	16.19	18.27	23.74	13.64	22.42	14.44	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/2/11 16:32:13

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: