

Report No.:

Test Time: 2025/1/7 15:39:19

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H105-15°-25W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

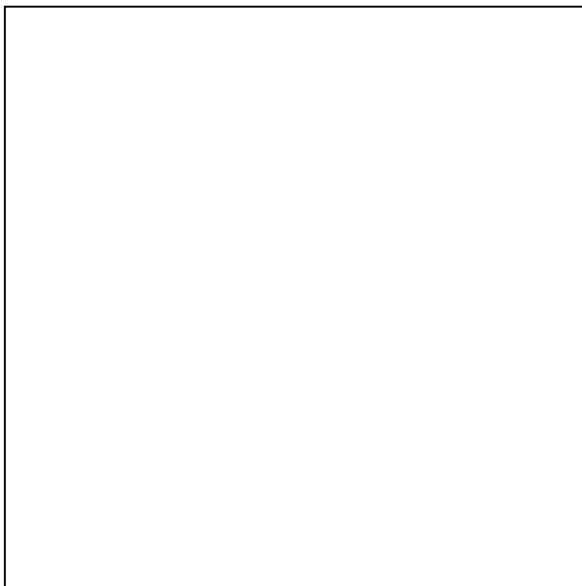
Voltage(V): 227.90 V
Current(A): 0.1130 A
Power(W): 24.80 W
Power Factor: 0.9550
Lamp Luminous Flux: 2091.83

Photometric Results

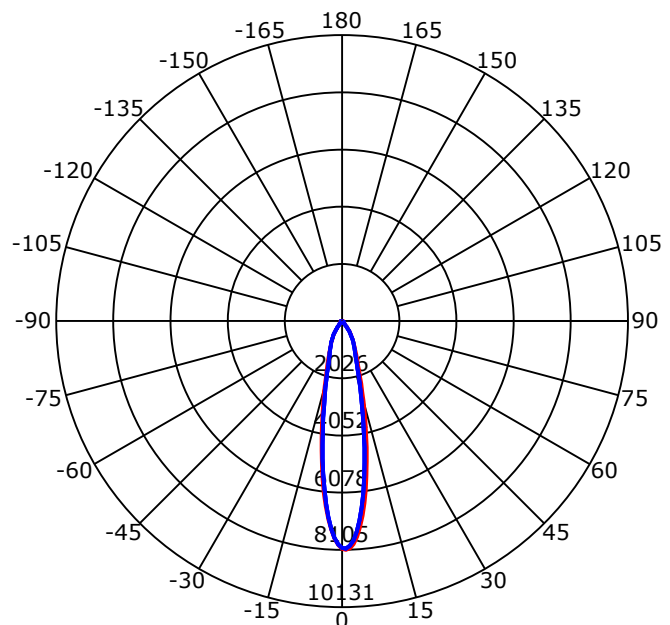
CIE Class: Direct
Luminaire Luminous Flux: 2091.825 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 84.36 lm/W
Beam Angle(50%) C0-180,C90-270: 22.4,20.8
Field Angle(10%) C0-180,C90-270: 56.0,56.3
S/MH C0-180,C90-270: 0.389,0.353

Max. Intensity: 8104.55 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8071.41 cd
Effective Luminous Flux: 1674.15 lm
ERP(ϕ use)(120deg): 2081.17 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.4 deg,20.8 deg

C0-180 — C90-270 —

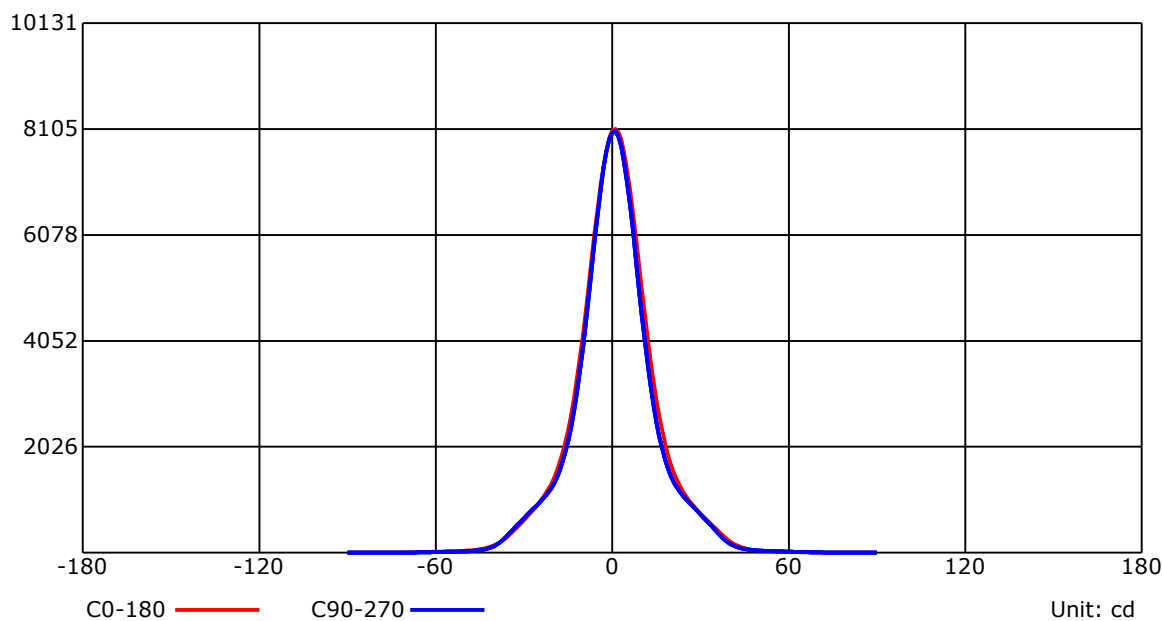
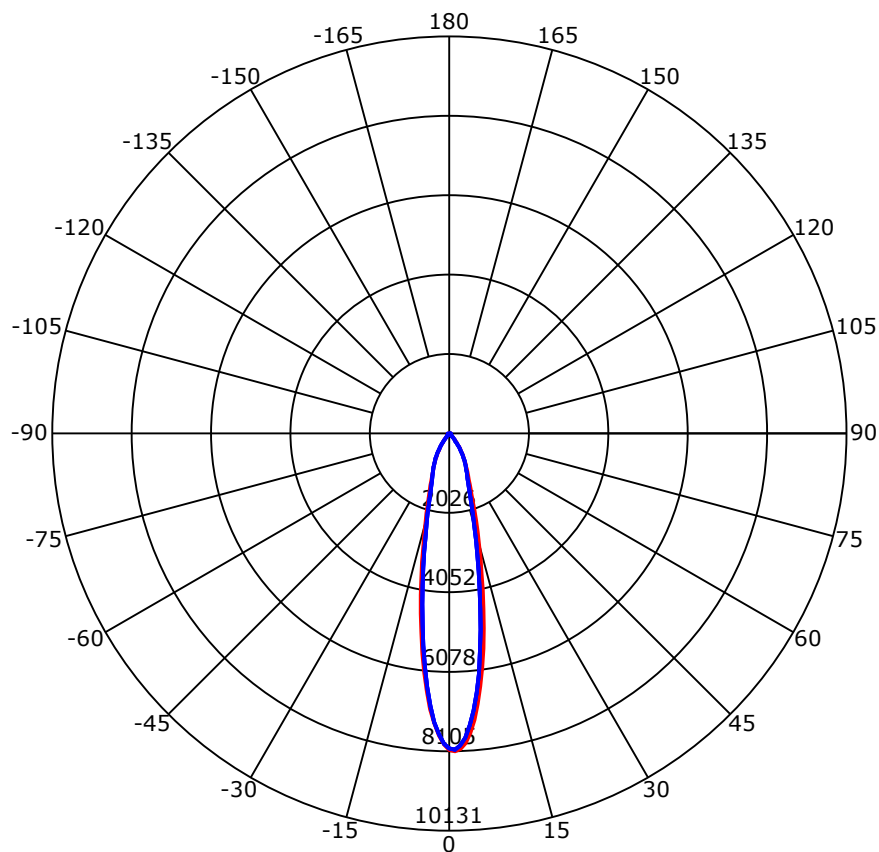
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



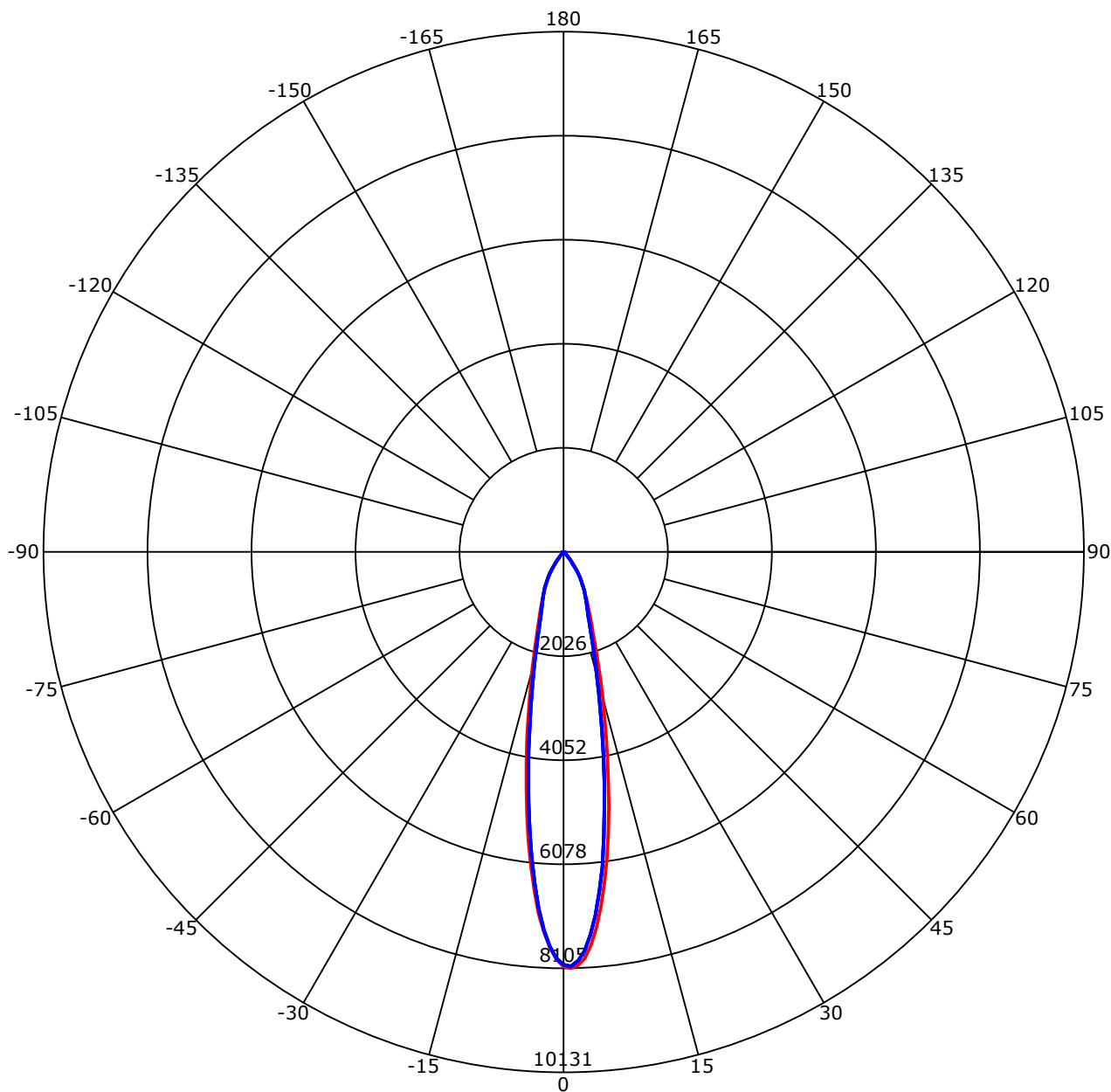
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

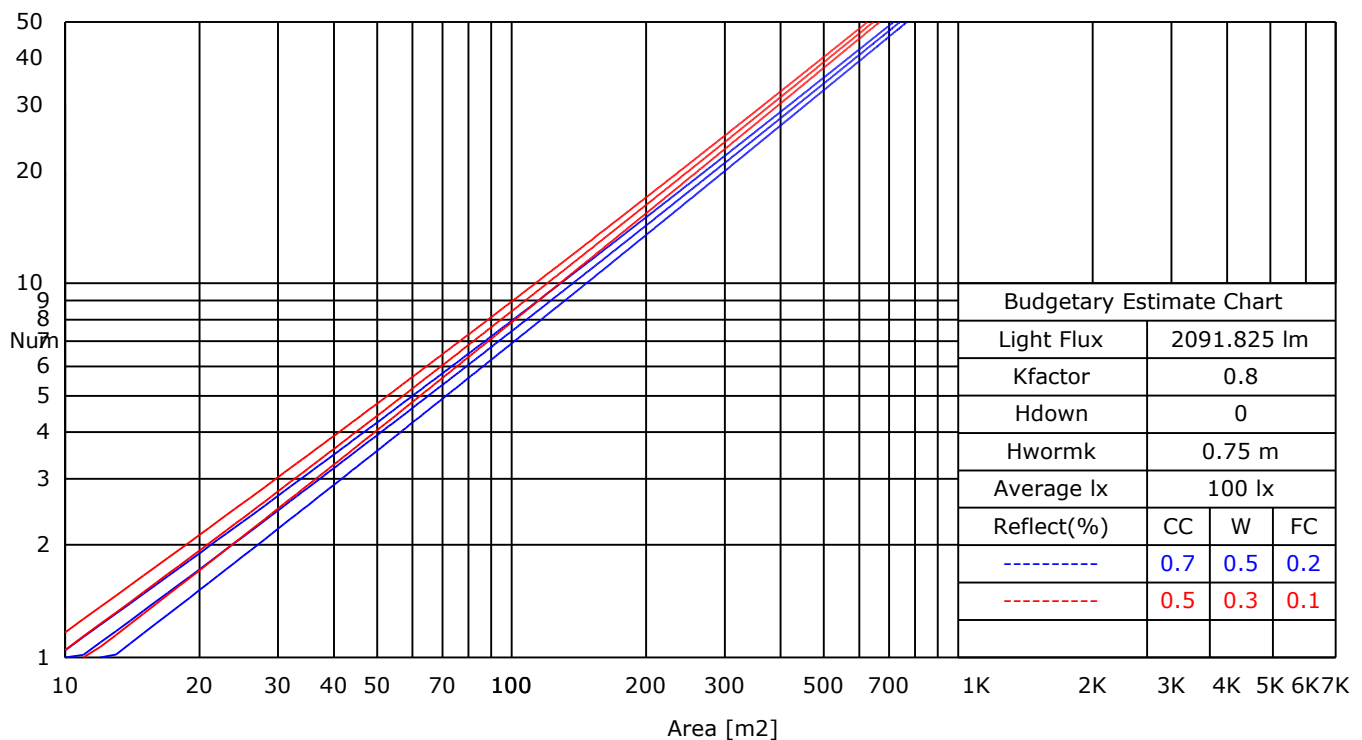
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UTILIZATION FACTORS TABLE

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	0.91	0.88	0.86	0.90	0.87	0.84	0.88	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.71	0.66
2	0.87	0.84	0.82	0.86	0.83	0.81	0.84	0.81	0.77	0.81	0.77	0.74	0.77	0.73	0.69	0.64
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	0.81	0.79	0.77	0.80	0.77	0.75	0.79	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.72	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.59
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.69	0.65	0.61	0.57
7	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	0.56
8	0.72	0.70	0.69	0.71	0.69	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
9	0.70	0.68	0.68	0.69	0.67	0.66	0.68	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.56	0.53
10	0.68	0.67	0.66	0.68	0.66	0.65	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.52

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



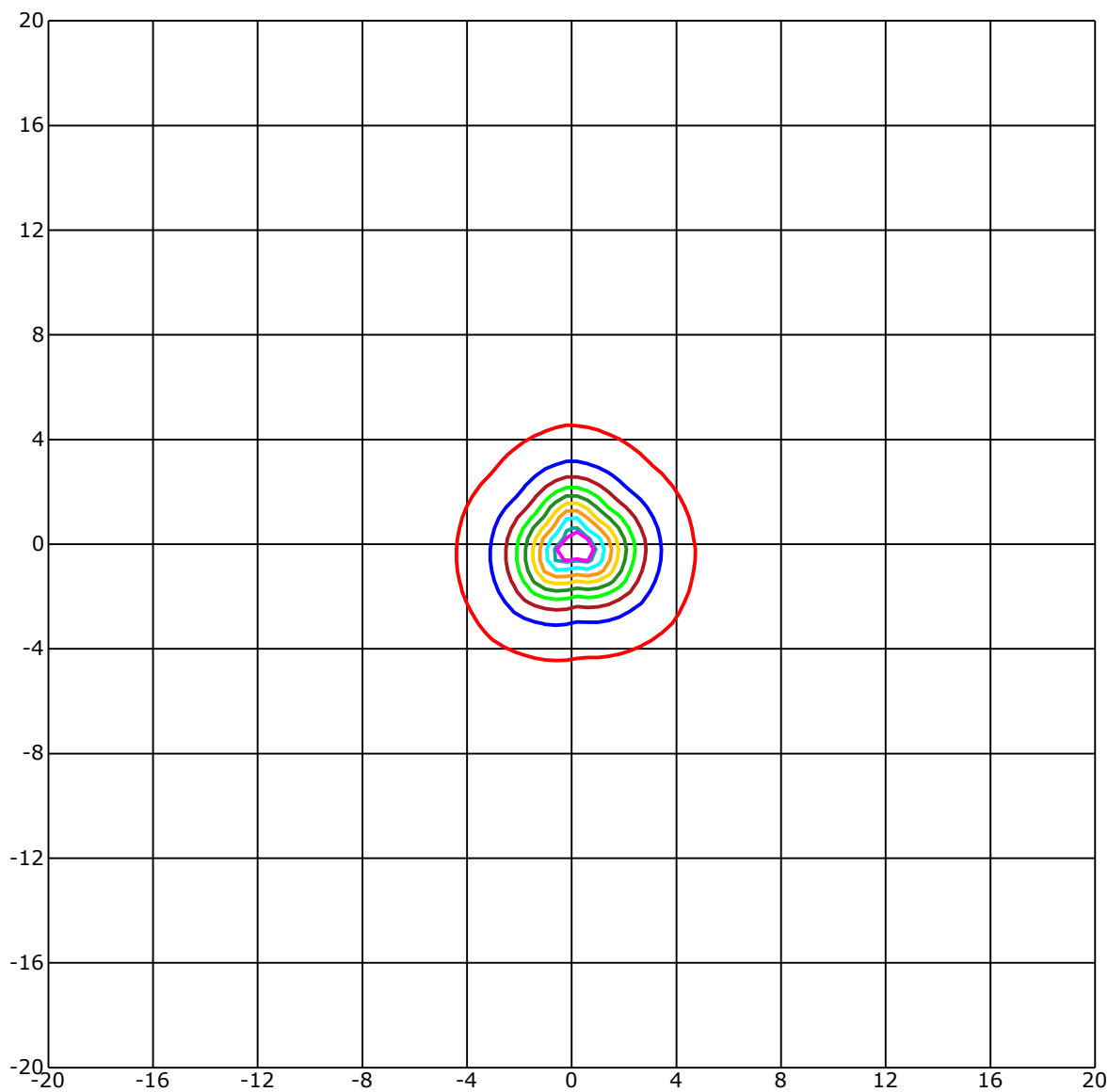
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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ISOLX DIAGRAM



74.528(92%Emax)
72.908(90%Emax)
64.807(80%Emax)
56.706(70%Emax)
48.605(60%Emax)

40.504(50%Emax)
32.403(40%Emax)
24.303(30%Emax)
16.202(20%Emax)
8.101(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:39:19

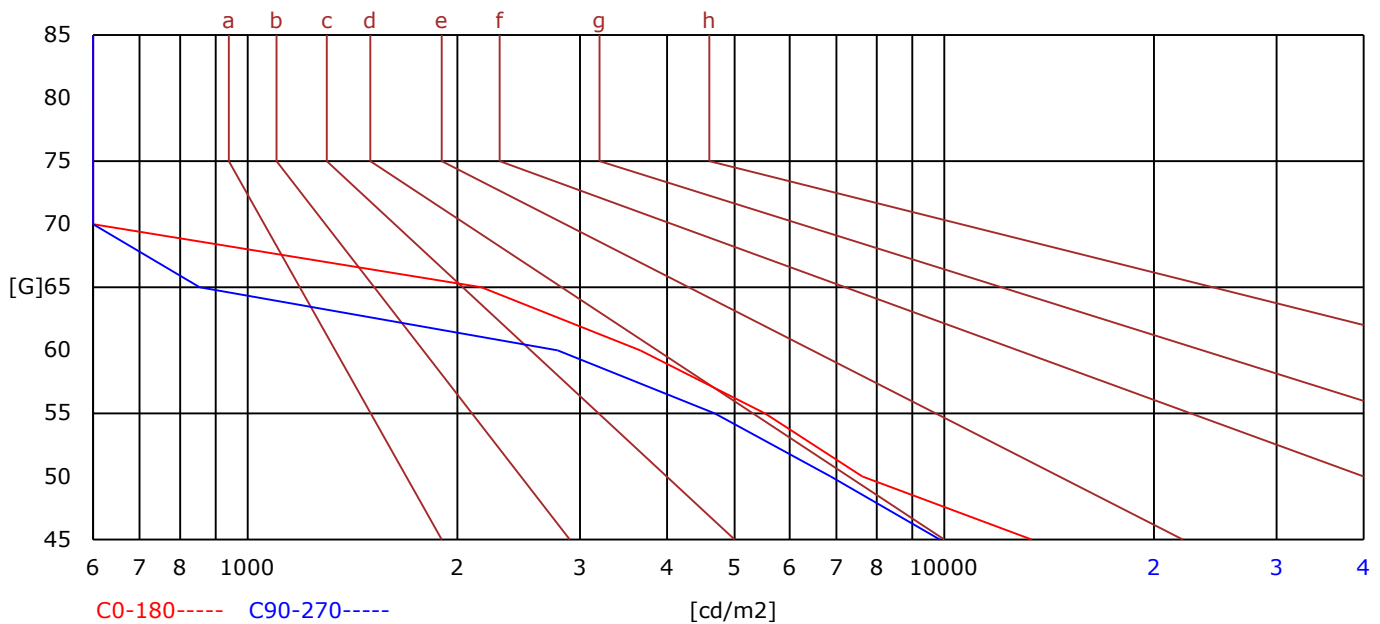
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13344	7627	5532	3660	2165	0	0	0	0
C90	9853	6869	4683	2787	854	0	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



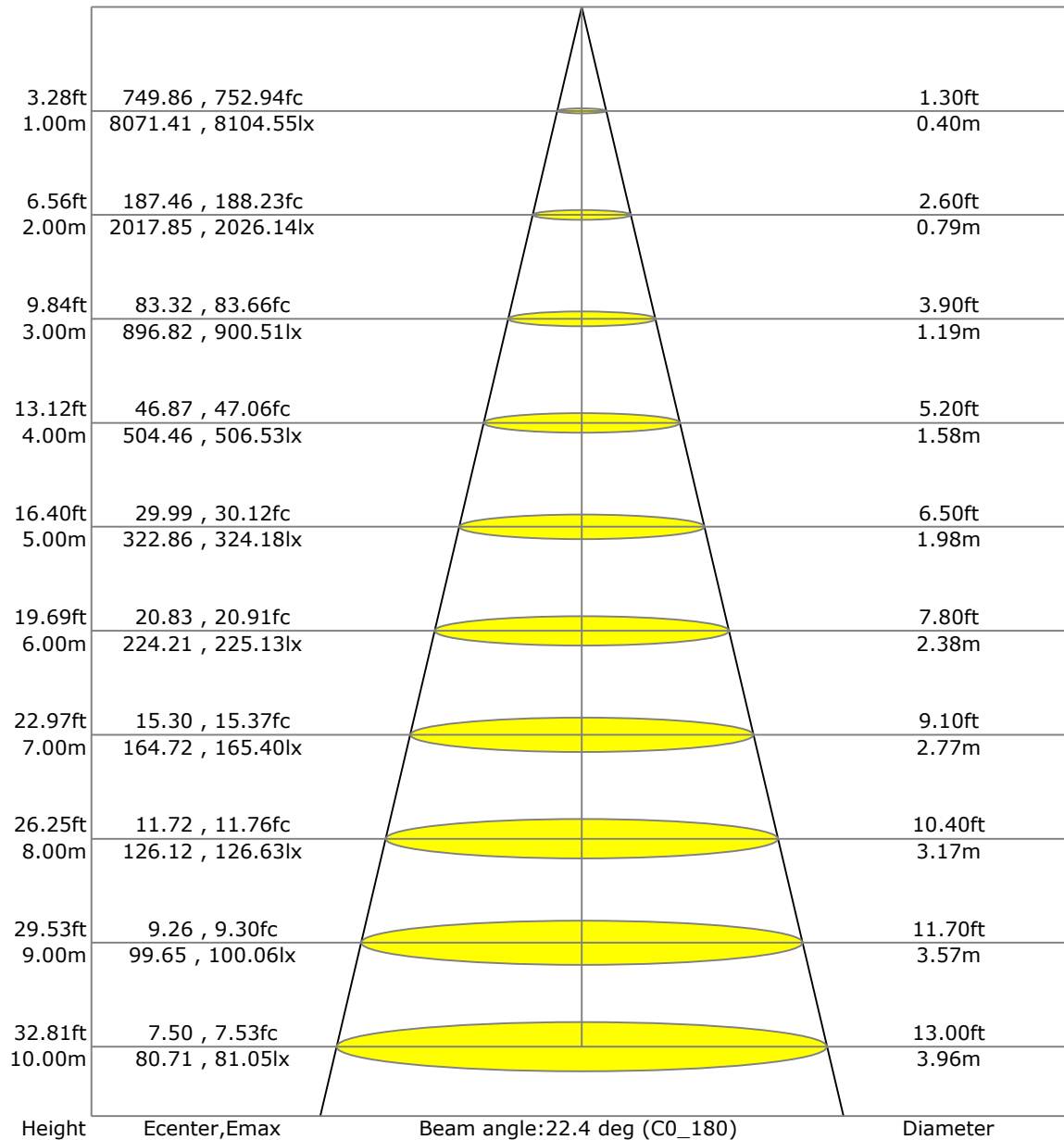
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 15:39:19

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 15:39:19

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	10.55	10.61	10.75	10.80	11.04	10.58	10.64	10.78	10.83	11.07
3H	10.53	10.59	10.73	10.78	11.03	10.56	10.62	10.77	10.81	11.06
4H	10.51	10.57	10.72	10.77	11.02	10.54	10.60	10.75	10.80	11.05
6H	10.50	10.56	10.71	10.76	11.01	10.53	10.59	10.74	10.79	11.04
8H	10.49	10.55	10.71	10.75	11.00	10.52	10.58	10.74	10.78	11.04
12H	10.48	10.54	10.70	10.74	11.00	10.51	10.57	10.73	10.78	11.03
4H 2H	10.55	10.61	10.76	10.80	11.05	10.62	10.68	10.83	10.87	11.12
3H	10.51	10.57	10.74	10.78	11.04	10.58	10.64	10.81	10.85	11.11
4H	10.49	10.55	10.72	10.77	11.03	10.56	10.62	10.79	10.84	11.10
6H	10.47	10.53	10.71	10.75	11.02	10.54	10.60	10.78	10.82	11.09
8H	10.46	10.52	10.70	10.74	11.01	10.53	10.59	10.77	10.81	11.08
12H	10.44	10.50	10.69	10.73	11.00	10.51	10.57	10.76	10.80	11.08
8H 4H	10.52	10.58	10.74	10.78	11.04	10.59	10.65	10.81	10.86	11.11
6H	10.43	10.49	10.69	10.73	11.00	10.50	10.56	10.76	10.80	11.07
8H	10.41	10.47	10.68	10.72	10.99	10.48	10.54	10.75	10.79	11.06
12H	10.40	10.45	10.67	10.71	10.99	10.47	10.52	10.74	10.78	11.06
12H 4H	10.44	10.50	10.69	10.73	11.00	10.51	10.57	10.76	10.80	11.08
6H	10.41	10.47	10.68	10.72	10.99	10.48	10.54	10.75	10.79	11.06

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: 6.78 m
 Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

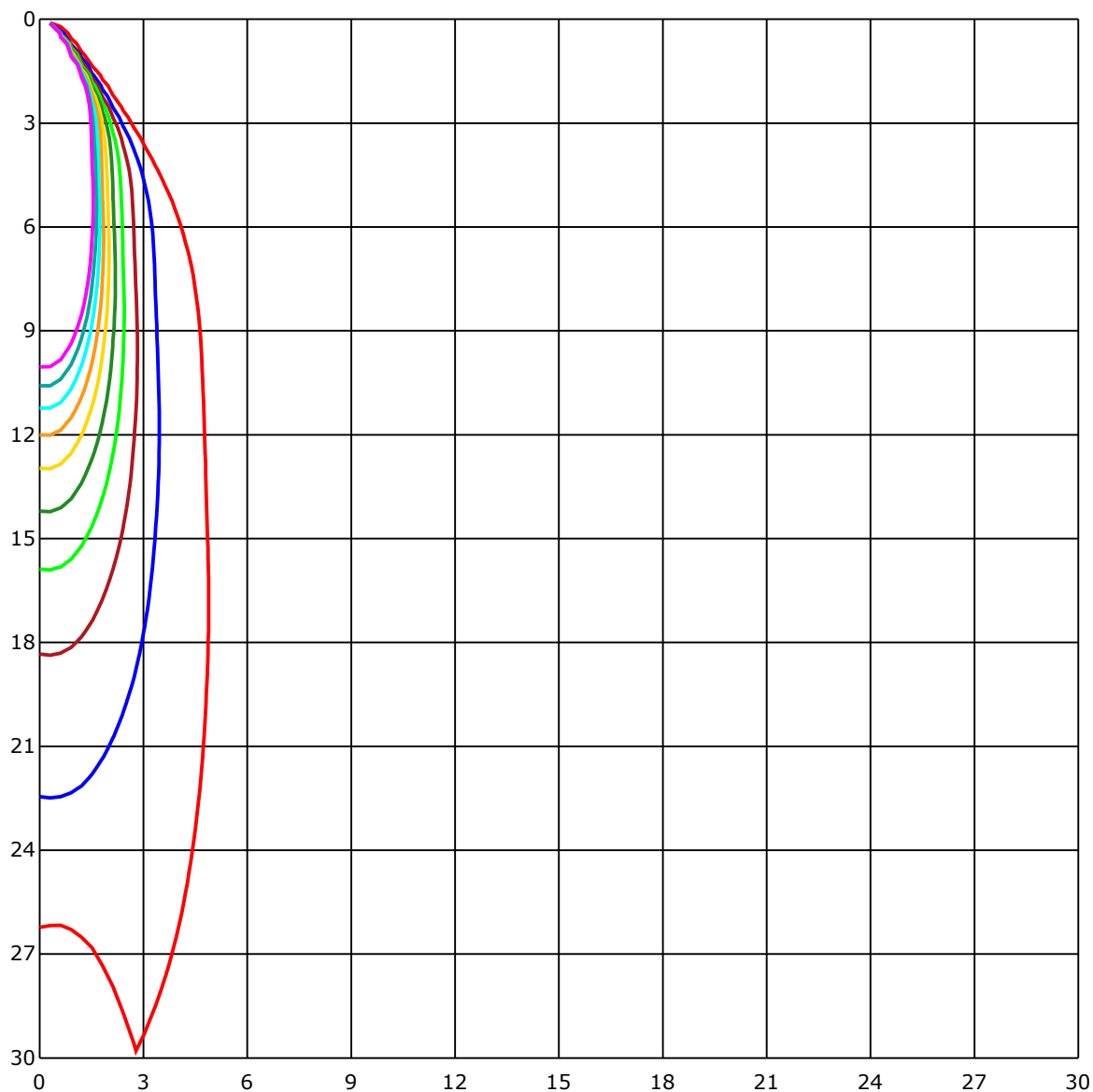
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
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Temperature: 25
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Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 15:39:19

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8071.41	7951.66	8033.12	7857.24	8071.41	7951.66	8033.12	7857.24	8071.41	
G1	8104.55	7783.37	8065.11	7582.72	7935.39	8029.81	7917.28	8015.28	8104.55	
G2	8051.5	7511.33	7961.64	7243.56	7707.98	8002.59	7682.47	8070.21	8051.5	
G3	7913.51	7174.52	7777.62	6824.01	7396.32	7892.59	7371.4	8023.88	7913.51	
G4	7660.08	6764.94	7467.06	6357.52	7046.18	7673.69	6955.62	7880.82	7660.08	
G5	7332.79	6315.23	7097.48	5846.91	6596.42	7369.38	6485.64	7626.43	7332.79	
G6	6936.13	5811.46	6644.09	5318.41	6139.54	6988.85	5972.86	7297.62	6936.13	
G7	6499.33	5315.33	6169.33	4792.39	5651.49	6563.14	5448.68	6872.97	6499.33	
G8	6040.43	4815.28	5606.9	4292.53	5138.44	6083.96	4922.02	6415.31	6040.43	
G9	5550.36	4340.75	5067.65	3830.92	4651.22	5588.01	4415.31	5901.06	5550.36	
G10	5052.07	3889.75	4554.37	3393.02	4185.19	5079.23	3924.0	5387.22	5052.07	
G11	4562.59	3471.3	4058.83	3000.63	3737.83	4586.91	3478.98	4871.92	4562.59	
G12	4100.7	3087.79	3600.34	2652.33	3343.47	4106.36	3071.79	4378.86	4100.7	
G13	3664.56	2755.94	3193.06	2356.16	2973.88	3666.76	2721.51	3898.44	3664.56	
G14	3277.73	2450.16	2823.93	2095.7	2649.07	3267.3	2409.57	3473.88	3277.73	
G15	2924.65	2189.48	2491.99	1874.36	2359.74	2914.86	2148.29	3086.32	2924.65	
G16	2611.14	1956.46	2214.71	1681.66	2106.92	2590.69	1913.16	2744.04	2611.14	
G17	2323.34	1757.51	1975.12	1519.85	1892.11	2313.73	1721.15	2441.43	2323.34	
G18	2069.18	1583.43	1768.68	1384.84	1708.32	2070.97	1549.87	2187.68	2069.18	
G19	1853.08	1442.12	1596.3	1267.26	1547.34	1859.65	1415.23	1958.3	1853.08	
G20	1671.69	1318.33	1451.73	1171.64	1410.04	1676.7	1303.89	1762.98	1671.69	
G21	1520.18	1218.53	1334.83	1093.96	1296.31	1529.87	1214.58	1603.56	1520.18	
G22	1385.63	1131.28	1240.14	1020.96	1195.32	1403.92	1133.03	1470.9	1385.63	
G23	1271.26	1053.18	1162.17	956.33	1106.92	1298.52	1065.69	1360.53	1271.26	
G24	1172.75	981.38	1087.34	892.15	1023.12	1199.09	1003.31	1264.78	1172.75	
G25	1084.85	913.3	1024.41	831.8	948.19	1116.25	947.59	1182.26	1084.85	
G26	1007.08	849.04	964.23	774.84	877.12	1041.55	891.51	1107.75	1007.08	
G27	935.23	787.3	906.86	713.15	811.53	973.84	836.99	1042.38	935.23	
G28	870.73	726.25	847.66	654.96	748.96	905.85	780.68	978.99	870.73	
G29	806.42	667.0	792.45	593.45	686.08	844.26	724.32	919.09	806.42	
G30	745.65	606.0	729.89	535.81	625.49	779.99	663.46	861.49	745.65	
G31	686.72	548.54	669.99	475.41	564.03	717.34	606.0	800.54	686.72	
G32	633.49	493.79	608.25	415.37	506.76	654.59	546.24	740.0	633.49	
G33	577.0	436.42	550.66	360.58	448.93	595.89	490.8	675.87	577.0	
G34	523.03	381.95	488.69	307.99	396.25	536.91	428.7	615.93	523.03	
G35	470.85	328.9	428.66	251.59	343.02	481.38	372.57	556.86	470.85	
G36	417.53	277.47	368.07	204.38	290.38	421.76	311.02	497.24	417.53	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	365.77	229.24	307.25	166.18	246.11	364.53	253.75	437.11	365.77	
G38	310.15	189.3	252.18	135.01	205.89	308.72	203.41	379.15	310.15	
G39	260.46	156.06	208.19	109.54	173.48	260.04	164.02	319.85	260.46	
G40	217.15	128.02	169.85	89.78	146.59	214.49	132.3	265.28	217.15	
G41	180.79	106.05	140.62	73.92	123.75	178.77	107.38	220.23	180.79	
G42	148.75	87.02	115.29	62.06	105.54	148.29	85.87	182.31	148.75	
G43	123.52	73.32	96.03	51.58	88.81	125.45	70.33	149.58	123.52	
G44	102.14	61.14	80.63	43.62	76.35	105.13	59.39	124.07	102.14	
G45	84.9	51.67	69.69	38.15	66.1	88.81	49.0	103.93	84.9	
G46	70.65	44.31	60.31	34.25	58.84	75.99	42.06	87.39	70.65	
G47	59.39	38.89	53.83	30.25	50.84	65.32	36.96	74.15	59.39	
G48	50.2	34.06	47.72	28.68	45.55	56.86	32.32	64.49	50.2	
G49	42.93	30.11	43.72	25.28	41.65	50.47	29.19	55.76	42.93	
G50	37.05	26.85	40.41	24.18	39.17	45.23	26.34	50.66	37.05	
G51	32.36	24.96	37.79	21.15	35.21	41.65	25.14	44.87	32.36	
G52	28.96	21.88	34.38	19.44	34.06	38.48	22.48	41.65	28.96	
G53	25.74	20.55	33.28	17.84	30.57	36.04	21.1	37.56	25.74	
G54	23.63	18.16	30.61	16.64	28.78	32.68	19.77	35.12	23.63	
G55	21.42	17.38	29.83	14.71	26.43	30.57	18.8	32.59	21.42	
G56	20.96	15.49	26.43	13.42	25.33	28.45	17.33	31.12	20.96	
G57	18.8	15.35	25.7	12.37	23.35	27.21	16.18	29.56	18.8	
G58	17.15	12.46	23.35	11.12	21.83	24.96	14.53	27.21	17.15	
G59	15.86	11.77	21.56	9.79	19.86	23.21	13.24	25.28	15.86	
G60	14.8	10.02	20.64	7.63	19.26	21.61	11.72	24.55	14.8	
G61	13.19	9.7	18.43	7.4	17.61	20.55	10.94	23.35	13.19	
G62	11.58	7.68	16.5	5.75	15.63	18.43	9.42	21.15	11.58	
G63	11.12	6.57	15.72	4.18	14.02	17.15	8.41	19.63	11.12	
G64	9.98	5.33	13.74	2.94	13.79	15.72	6.48	18.76	9.98	
G65	8.14	5.01	13.1	1.98	11.86	14.57	6.21	17.05	8.14	
G66	7.31	3.22	11.54	1.33	10.48	13.28	4.87	16.59	7.31	
G67	5.61	2.44	10.07	0.05	8.78	11.45	4.64	14.25	5.61	
G68	4.5	1.24	8.37	0.0	7.45	10.99	2.02	13.15	4.5	
G69	3.63	0.0	7.72	0.0	6.44	9.98	1.52	11.03	3.63	
G70	3.22	0.0	6.16	0.0	4.69	7.35	0.0	10.25	3.22	
G71	0.92	0.0	4.78	0.0	3.13	6.21	0.0	8.5	0.92	
G72	0.09	0.0	3.54	0.0	2.25	4.18	0.0	7.4	0.09	
G73	0.0	0.0	2.8	0.0	0.41	3.26	0.0	5.06	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 15:39:19

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

Test Time: 2025/1/7 15:39:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: