

Report No.:

Test Time: 2024/5/25 11:11:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H78-24°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.63 W
Power Factor: 0.9180
Lamp Luminous Flux: 1166.25

Photometric Results

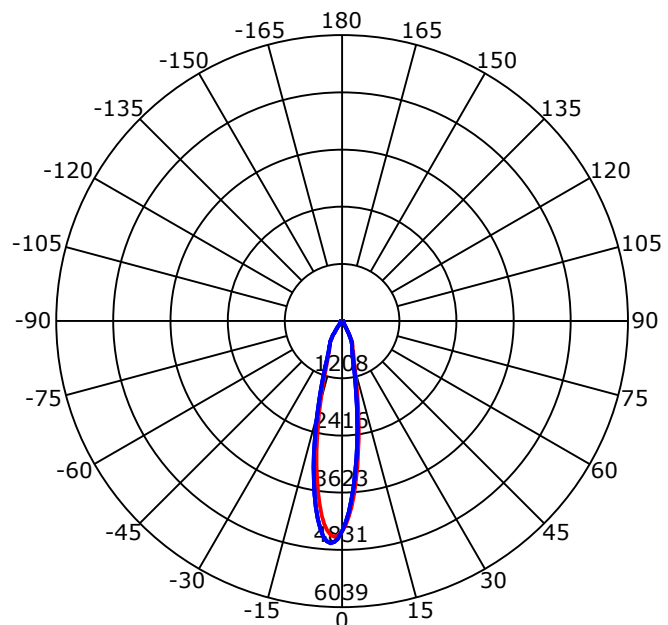
CIE Class: Direct
Luminaire Luminous Flux: 1166.251 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.71 lm/W
Beam Angle(50%) C0-180,C90-270: 21.8,21.7
Field Angle(10%) C0-180,C90-270: 56.4,55.5
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4831.02 cd
Max.Intensity Angle: C=225 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4446.44 cd
Effective Luminous Flux: 955.09 lm
ERP(ϕ use)(120deg): 1151.68 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.8 deg,21.7 deg

C0-180 — C90-270 —

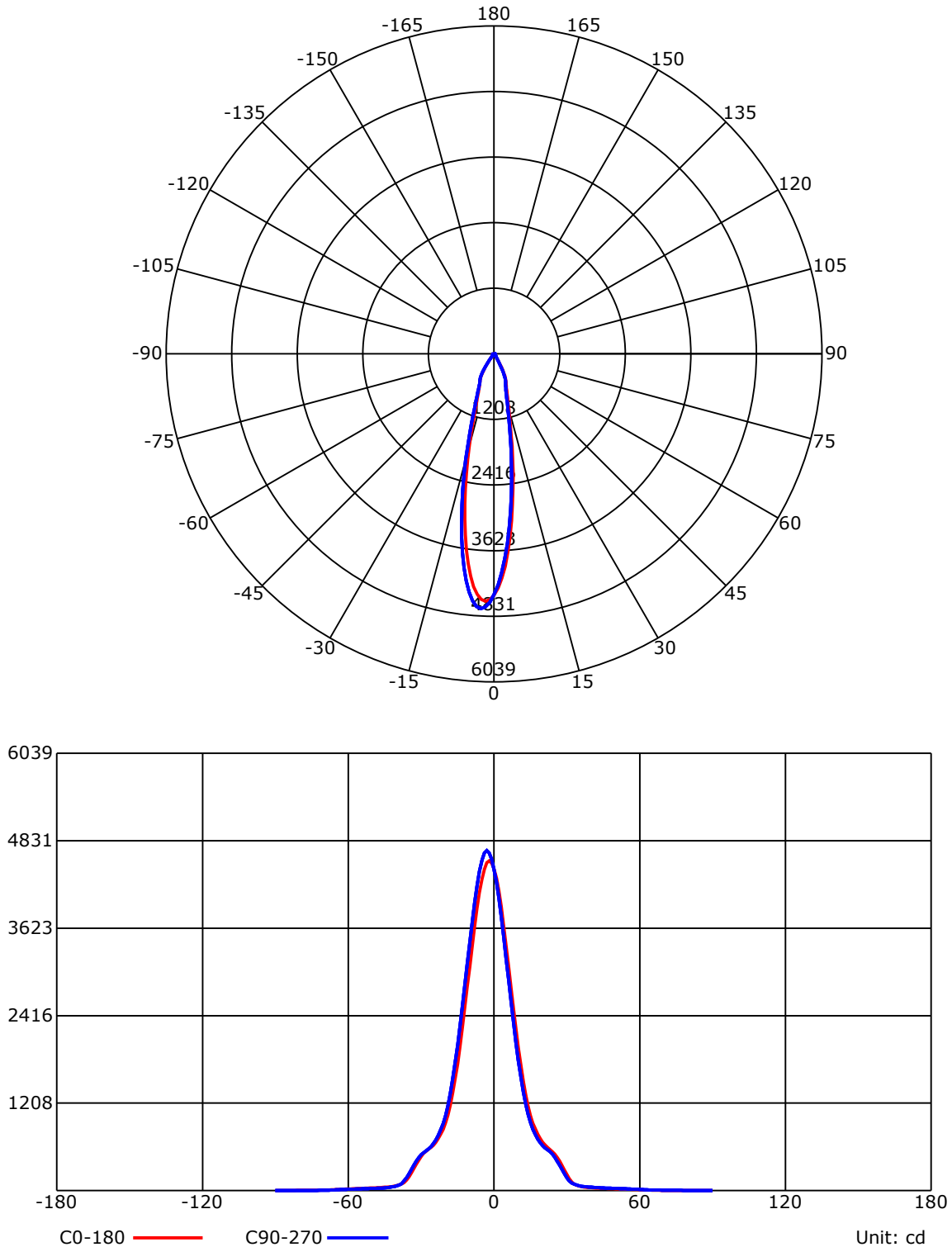
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:11:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/5/25 11:11:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

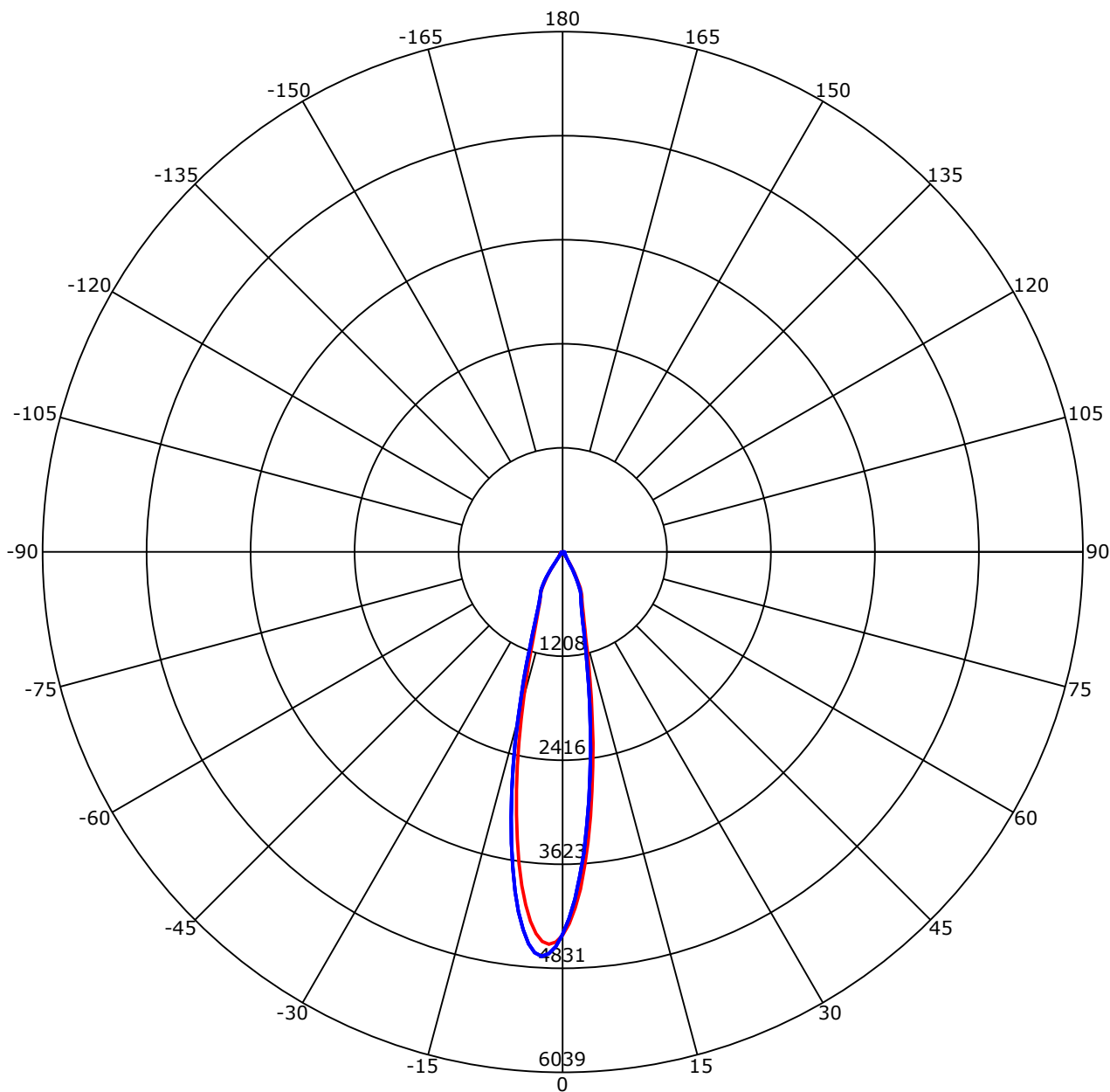
Test Distance: 6.7 m

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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: 2024/5/25 11:11:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

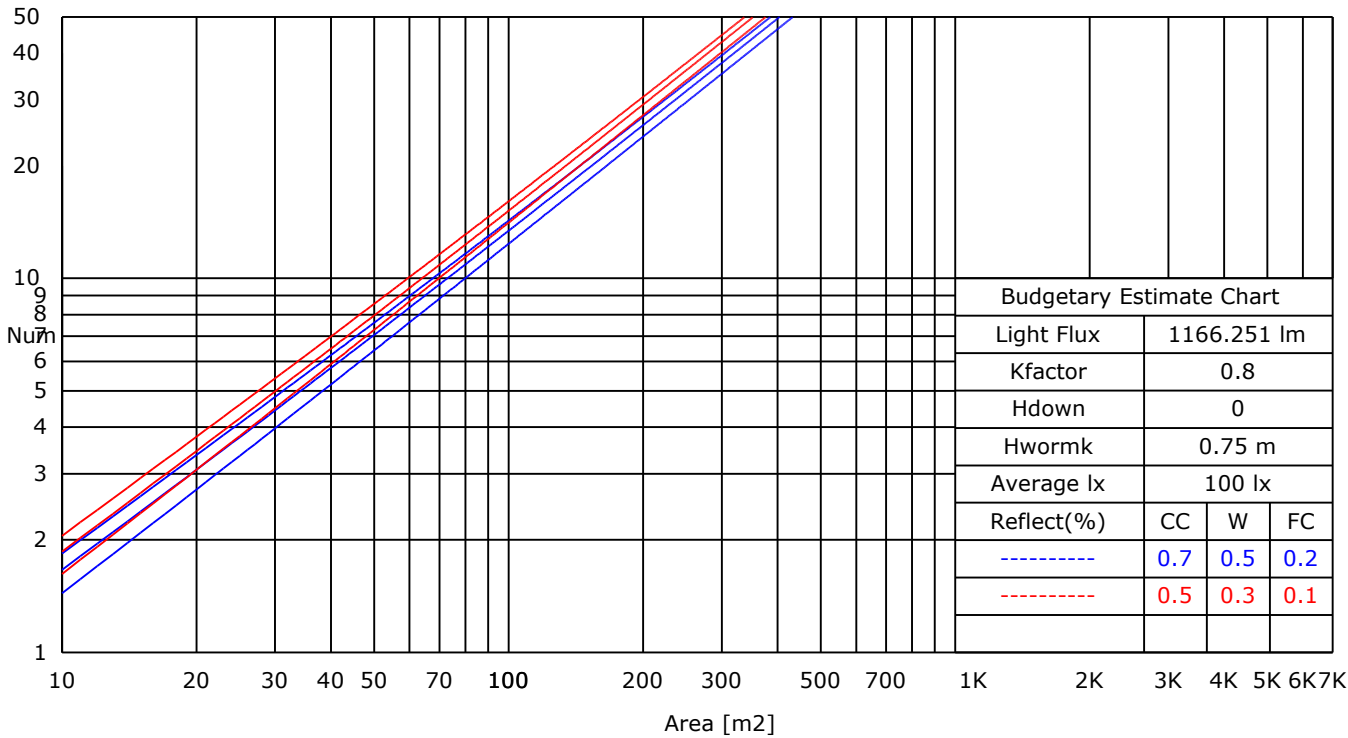
Test Distance: 6.7 m

Remarks:

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	0.93	0.90	0.88	0.92	0.89	0.87	0.90	0.86	0.83	0.86	0.82	0.79	0.80	0.77	0.73	0.68
2	0.87	0.84	0.82	0.87	0.83	0.81	0.85	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.83	0.81	0.79	0.83	0.80	0.78	0.81	0.77	0.74	0.78	0.74	0.71	0.75	0.70	0.66	0.62
4	0.80	0.78	0.77	0.80	0.77	0.75	0.78	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	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.67	0.64	0.69	0.64	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	0.67	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	0.69	0.68	0.70	0.67	0.66	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.56	0.53
10	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.61	0.59	0.63	0.59	0.55	0.52

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



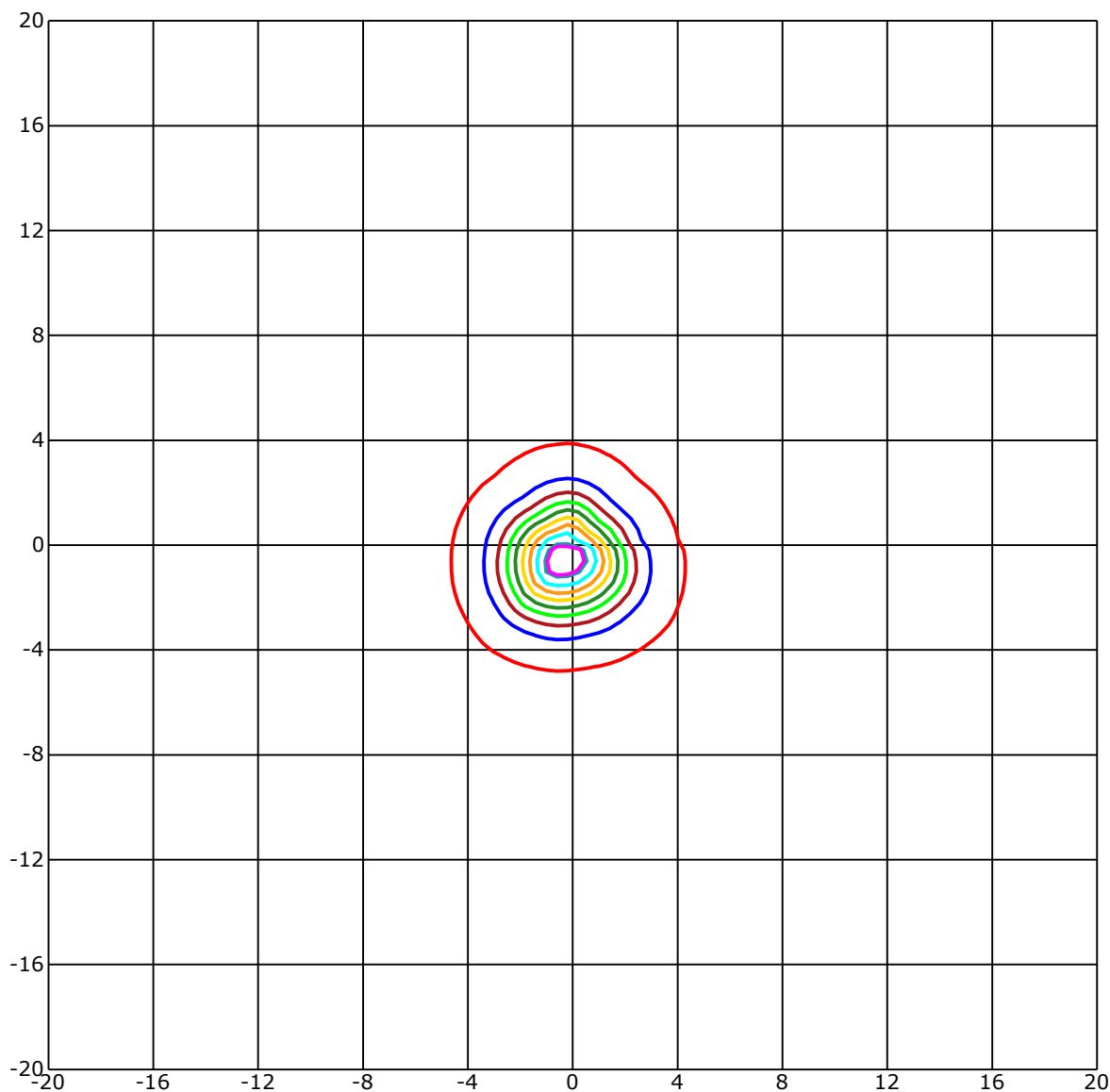
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:11:11

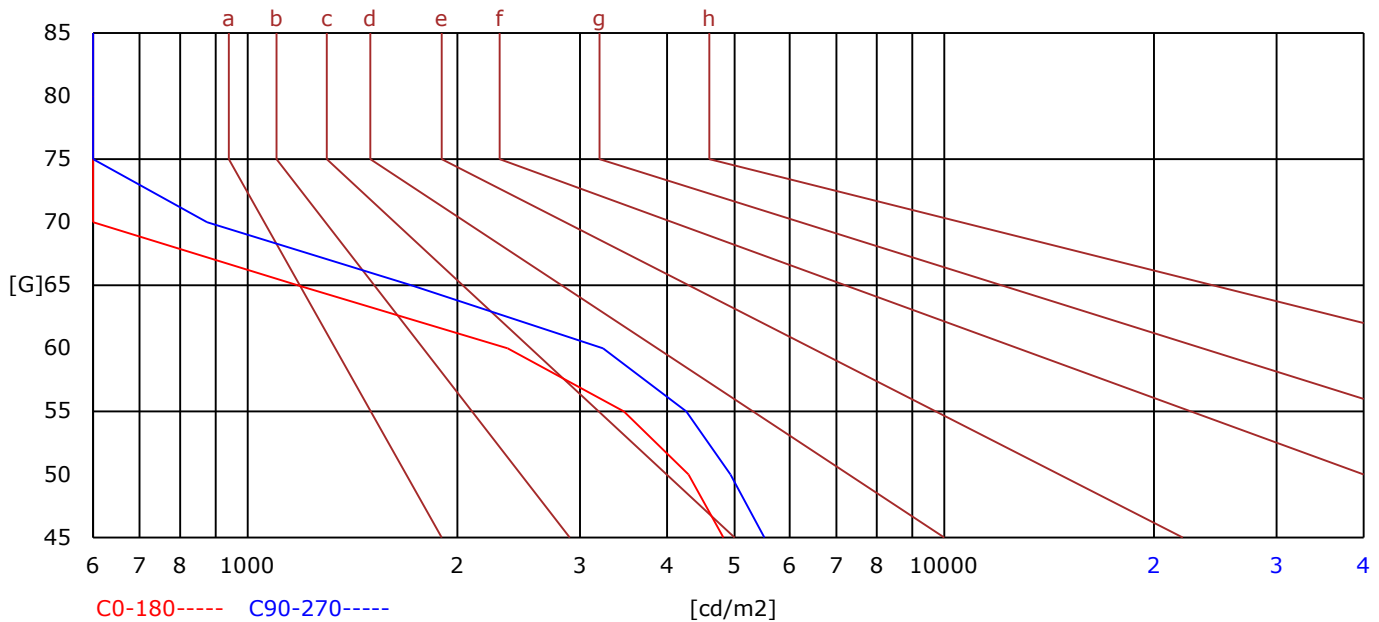
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4820	4294	3469	2361	1180	486	300	0	0
C90	5518	4932	4261	3237	1718	875	321	160	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



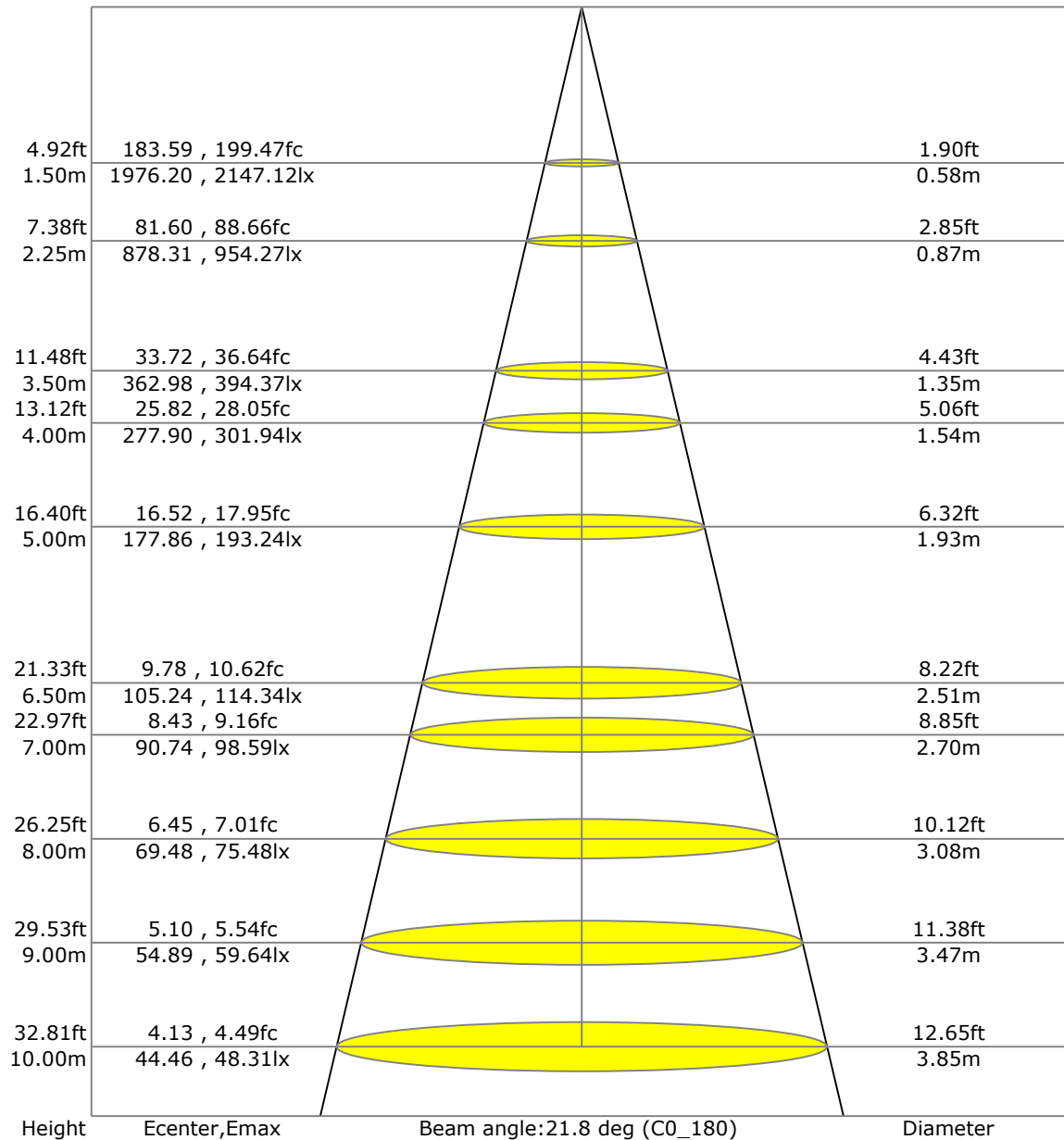
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/25 11:11:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 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	4.46	4.52	4.66	4.71	4.95	4.88	4.94	5.08	5.12	5.37
	3H	4.46	4.52	4.67	4.72	4.96	4.87	4.93	5.07	5.12	5.37
	4H	4.45	4.51	4.66	4.71	4.96	4.85	4.91	5.06	5.11	5.36
	6H	4.44	4.50	4.65	4.70	4.95	4.84	4.90	5.05	5.10	5.35
	8H	4.43	4.49	4.65	4.69	4.95	4.83	4.89	5.05	5.09	5.35
	12H	4.42	4.48	4.64	4.69	4.94	4.82	4.88	5.04	5.09	5.34
4H	2H	4.69	4.75	4.90	4.94	5.19	5.39	5.45	5.60	5.65	5.90
	3H	4.68	4.75	4.91	4.95	5.21	5.38	5.44	5.60	5.65	5.90
	4H	4.67	4.73	4.90	4.94	5.20	5.36	5.42	5.59	5.64	5.89
	6H	4.65	4.71	4.89	4.93	5.20	5.34	5.40	5.58	5.62	5.88
	8H	4.64	4.70	4.88	4.93	5.19	5.33	5.39	5.57	5.61	5.88
	12H	4.63	4.68	4.88	4.92	5.19	5.31	5.37	5.56	5.60	5.87
8H	4H	4.67	4.73	4.89	4.93	5.19	5.52	5.58	5.74	5.78	6.03
	6H	4.62	4.67	4.87	4.91	5.19	5.48	5.54	5.74	5.77	6.05
	8H	4.60	4.66	4.87	4.90	5.18	5.46	5.52	5.73	5.76	6.04
	12H	4.59	4.64	4.86	4.89	5.18	5.45	5.50	5.72	5.75	6.03
12H	4H	4.63	4.69	4.88	4.92	5.19	5.57	5.63	5.82	5.86	6.13
	6H	4.60	4.66	4.86	4.90	5.18	5.55	5.60	5.81	5.85	6.13

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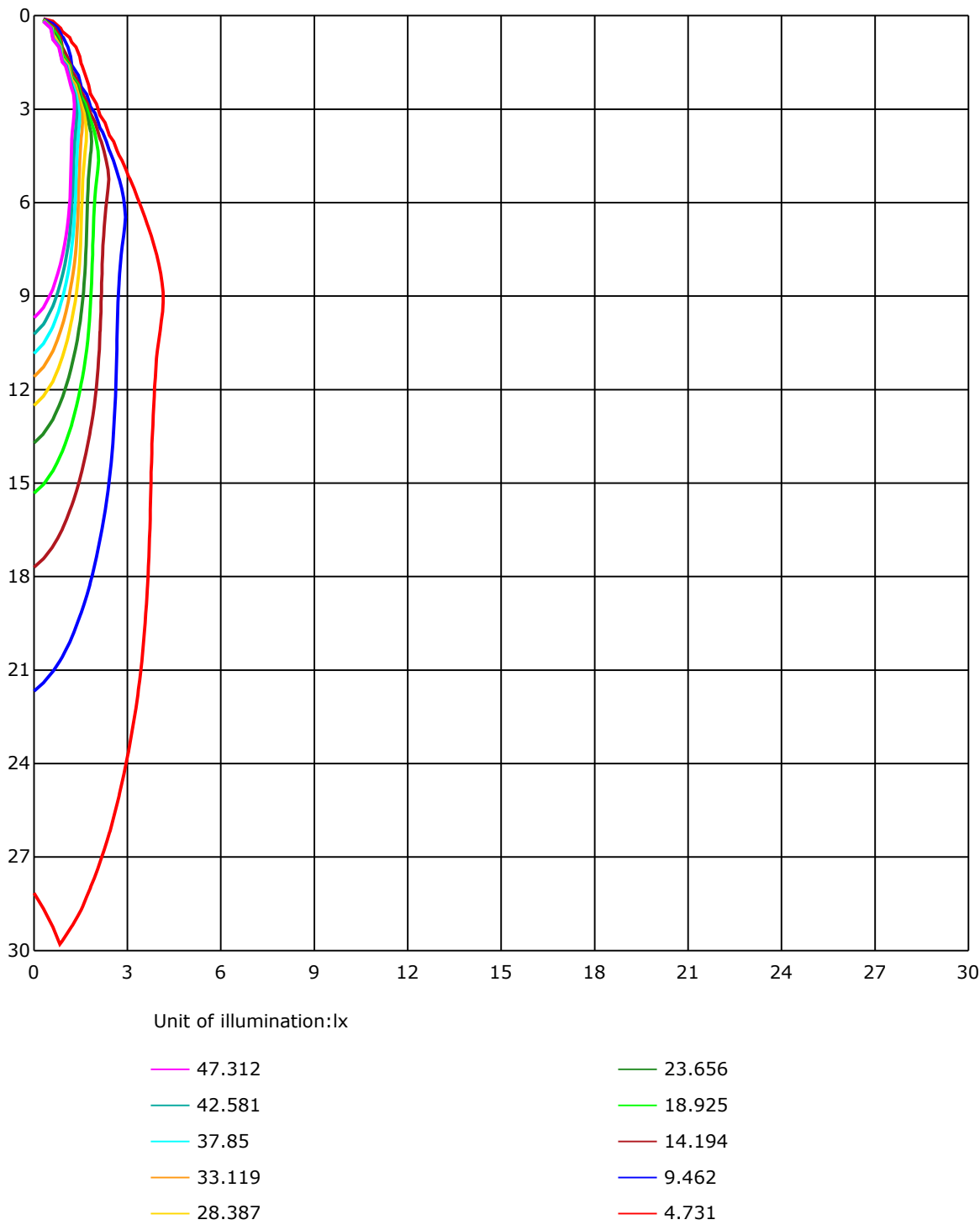
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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: 2024/5/25 11:11:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.7 m
 Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4446.44	4172.57	4435.22	4343.6	4446.44	4172.57	4435.22	4343.6	4446.44	
G1	4312.58	3916.65	4254.36	4214.45	4526.12	4401.38	4578.87	4423.64	4312.58	
G2	4132.13	3617.87	4033.1	4043.87	4555.62	4587.85	4663.85	4449.54	4132.13	
G3	3917.86	3312.97	3771.88	3831.27	4526.53	4729.57	4696.53	4414.21	3917.86	
G4	3649.02	3006.28	3502.54	3581.55	4438.18	4811.18	4661.74	4324.3	3649.02	
G5	3380.62	2691.47	3200.12	3313.47	4302.71	4831.02	4564.15	4177.6	3380.62	
G6	3083.72	2396.09	2900.48	3038.25	4115.11	4783.16	4406.85	4000.96	3083.72	
G7	2792.7	2114.68	2604.88	2750.72	3899.24	4676.28	4207.54	3766.59	2792.7	
G8	2512.9	1849.24	2328.13	2478.2	3649.69	4514.23	3978.42	3512.51	2512.9	
G9	2245.31	1609.67	2046.31	2207.33	3374.11	4312.09	3712.09	3253.85	2245.31	
G10	1979.07	1400.03	1797.71	1952.9	3093.55	4066.63	3436.96	2981.1	1979.07	
G11	1736.66	1218.18	1568.95	1707.75	2815.86	3793.79	3135.34	2708.44	1736.66	
G12	1517.01	1068.43	1365.91	1486.8	2538.08	3505.1	2845.62	2444.98	1517.01	
G13	1328.79	946.69	1198.02	1299.88	2261.65	3194.33	2558.91	2188.7	1328.79	
G14	1168.49	850.26	1055.86	1138.9	1996.75	2898.55	2282.61	1948.18	1168.49	
G15	1036.96	769.06	941.84	1011.33	1751.56	2596.57	2013.09	1723.82	1036.96	
G16	932.99	705.54	846.67	907.77	1536.54	2310.76	1765.16	1521.23	932.99	
G17	850.22	654.23	771.12	817.94	1347.15	2034.82	1544.8	1342.62	850.22	
G18	779.65	612.03	708.54	750.7	1180.7	1780.56	1345.17	1191.02	779.65	
G19	719.45	574.19	660.29	696.33	1043.15	1540.04	1173.78	1064.16	719.45	
G20	669.31	545.59	620.02	647.81	934.83	1333.01	1035.79	957.14	669.31	
G21	631.92	515.97	589.59	611.63	845.23	1163.41	925.81	874.28	631.92	
G22	595.87	486.61	562.07	579.22	773.28	1029.64	836.39	805.55	595.87	
G23	567.14	444.19	536.88	552.01	714.87	918.99	759.76	747.19	567.14	
G24	538.28	393.69	504.92	525.75	666.57	835.4	699.79	695.93	538.28	
G25	506.4	338.2	459.36	495.41	626.98	764.16	650.41	657.86	506.4	
G26	460.66	280.2	406.34	450.43	594.93	711.64	608.35	622.27	460.66	
G27	406.16	223.78	347.81	396.38	569.47	664.82	575.89	594.75	406.16	
G28	343.54	171.48	288.46	338.2	542.9	629.18	549.5	566.6	343.54	
G29	282.09	126.05	230.15	280.43	514.89	599.73	523.1	535.0	282.09	
G30	222.79	92.92	175.39	223.55	473.37	575.22	497.43	483.82	222.79	
G31	166.05	74.88	131.84	170.99	421.56	550.53	458.55	426.9	166.05	
G32	119.23	65.45	103.07	127.22	363.79	526.25	407.11	365.0	119.23	
G33	88.93	57.1	87.4	94.36	305.25	481.67	352.88	300.94	88.93	
G34	72.77	51.0	76.18	77.03	245.32	428.16	294.43	239.31	72.77	
G35	63.12	46.06	67.51	67.16	191.46	369.4	234.91	182.16	63.12	
G36	54.77	43.32	60.69	58.4	145.35	306.19	181.22	133.5	54.77	

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Humidity: 60
Test Distance: 6.7 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	48.71	41.07	56.02	51.94	111.73	245.19	134.58	102.89	48.71	
G38	44.44	39.01	52.97	47.63	92.83	188.36	97.59	86.23	44.44	
G39	42.6	36.72	50.14	44.58	80.4	138.08	76.81	74.88	42.6	
G40	40.0	34.74	47.49	41.88	70.43	104.28	66.12	65.54	40.0	
G41	37.57	32.95	44.44	39.23	62.8	86.46	57.14	58.85	37.57	
G42	35.37	31.33	42.06	36.76	57.41	75.59	50.28	54.68	35.37	
G43	33.49	29.94	40.0	34.88	53.78	67.07	43.9	51.31	33.49	
G44	31.96	28.77	38.25	33.13	50.14	59.61	40.58	48.12	31.96	
G45	30.44	27.61	36.72	31.6	46.69	54.32	37.89	44.98	30.44	
G46	29.18	26.75	35.37	30.3	44.04	50.95	35.6	42.51	29.18	
G47	27.97	25.72	33.98	29.18	42.11	47.58	33.85	40.36	27.97	
G48	26.71	24.47	32.77	28.06	40.13	44.8	32.37	38.47	26.71	
G49	25.72	23.21	31.38	26.93	38.7	42.78	31.02	36.85	25.72	
G50	24.38	22.36	30.21	25.68	37.03	40.58	29.9	35.6	24.38	
G51	23.3	21.1	28.82	24.51	35.73	39.01	28.73	33.94	23.3	
G52	22.36	19.89	27.92	23.48	34.25	37.62	28.01	32.55	22.36	
G53	21.1	18.67	26.35	22.31	33.08	36.09	26.57	31.33	21.1	
G54	19.98	17.51	24.82	20.87	31.47	34.74	25.45	29.76	19.98	
G55	18.67	16.12	23.48	19.8	29.99	33.17	24.15	28.55	18.67	
G56	17.51	14.9	22.0	18.63	28.64	31.92	23.12	27.02	17.51	
G57	16.52	13.87	20.56	17.24	26.98	30.35	21.95	25.77	16.52	
G58	15.13	12.34	19.12	15.76	25.63	29.0	20.87	24.33	15.13	
G59	13.78	11.04	17.73	14.54	24.2	27.61	19.39	22.98	13.78	
G60	12.66	9.56	16.03	13.11	22.71	26.17	18.32	21.37	12.66	
G61	11.31	7.63	14.41	11.54	21.14	24.78	16.97	20.07	11.31	
G62	9.79	6.37	12.61	9.79	19.53	23.3	15.49	18.58	9.79	
G63	7.9	5.61	11.13	8.39	18.09	21.64	13.96	17.28	7.9	
G64	6.55	4.8	10.1	7.0	16.52	20.25	12.43	15.53	6.55	
G65	5.7	4.04	8.98	5.88	14.9	18.49	10.95	13.78	5.7	
G66	4.89	3.5	8.13	5.21	12.57	16.79	9.25	11.76	4.89	
G67	4.22	2.74	7.27	4.22	10.73	15.13	7.27	10.41	4.22	
G68	3.55	2.24	6.51	3.64	9.61	13.02	6.15	9.47	3.55	
G69	2.78	1.66	5.79	3.01	8.8	11.09	5.25	8.57	2.78	
G70	2.24	1.35	5.07	2.42	7.95	9.74	4.62	7.72	2.24	
G71	1.84	0.94	4.58	2.02	7.14	8.8	3.77	6.91	1.84	
G72	1.3	0.81	4.13	1.44	6.42	7.9	3.19	6.19	1.3	
G73	1.03	0.67	3.73	1.21	5.7	7.0	2.51	5.61	1.03	

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: 6.7 m

Remarks:

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