

Report No.:

Test Time: 2024/12/24 8:52:36

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H122-38°-25W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 75 mm

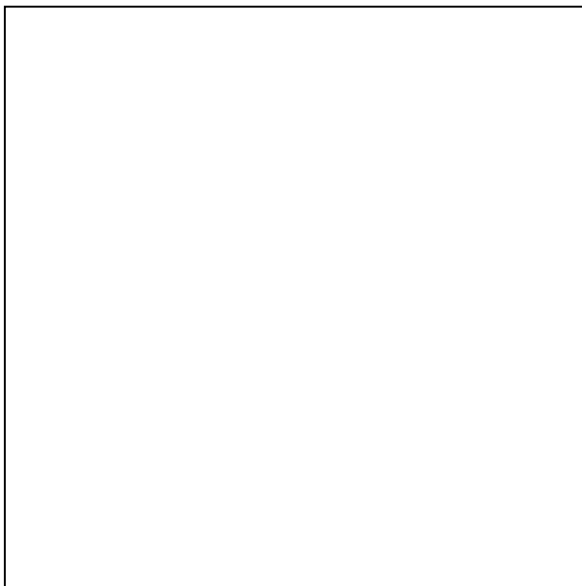
Voltage(V): 220.00 V
Current(A): 0.1130 A
Power(W): 23.97 W
Power Factor: 0.9600
Lamp Luminous Flux: 2008.27

Photometric Results

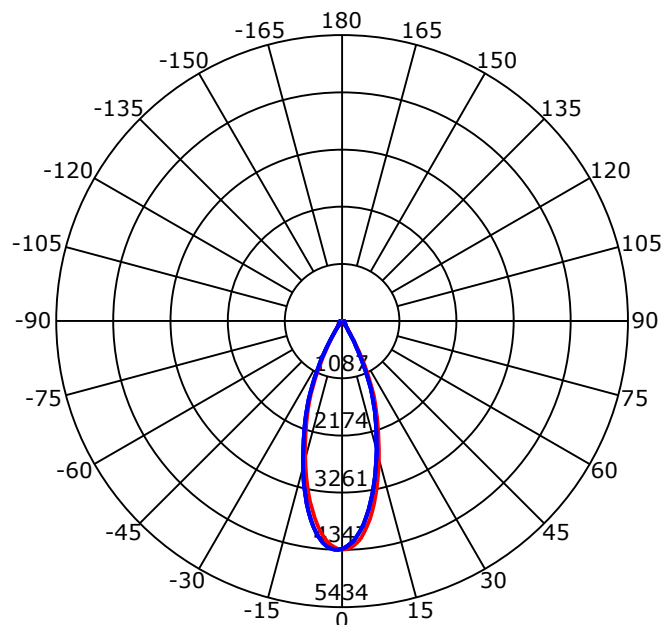
CIE Class: Direct
Luminaire Luminous Flux: 2008.271 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.78 lm/W
Beam Angle(50%) C0-180,C90-270: 36.8,36.6
Field Angle(10%) C0-180,C90-270: 62.0,61.8
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 4347.44 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4340.39 cd
Effective Luminous Flux: 1700.37 lm
ERP(ϕ use)(120deg): 1931.94 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.8 deg,36.6 deg

C0-180 — C90-270

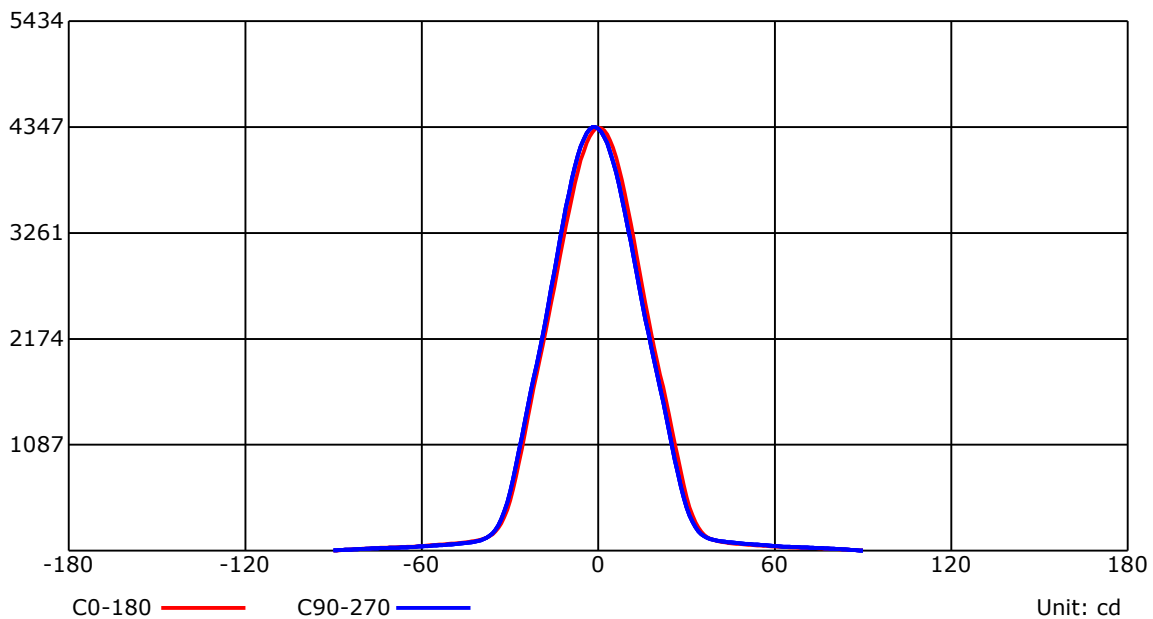
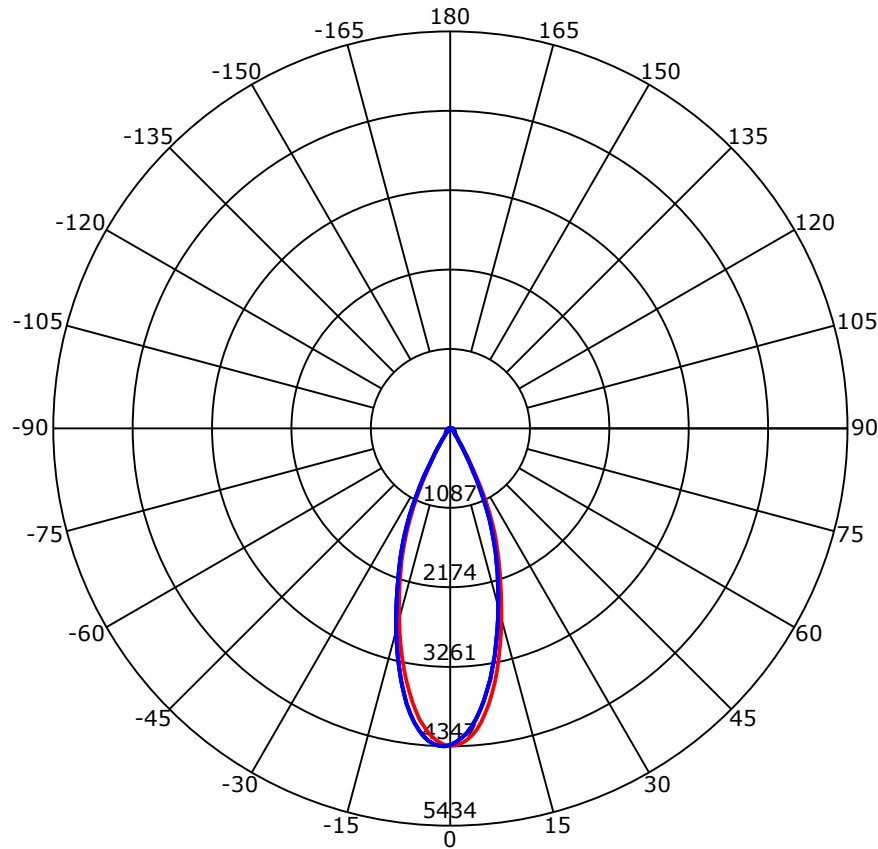
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



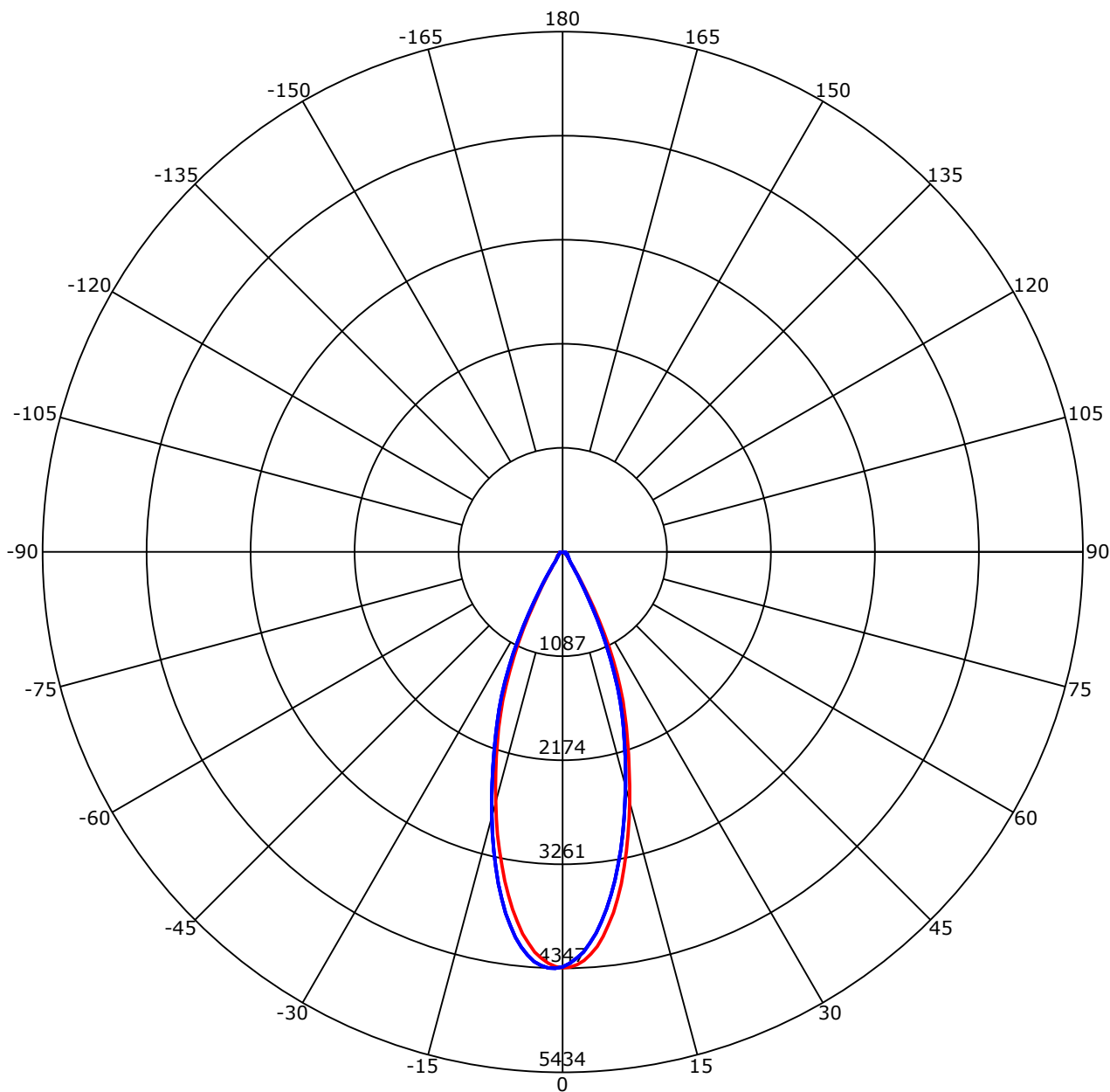
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Humidity: 60
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Remarks:

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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: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

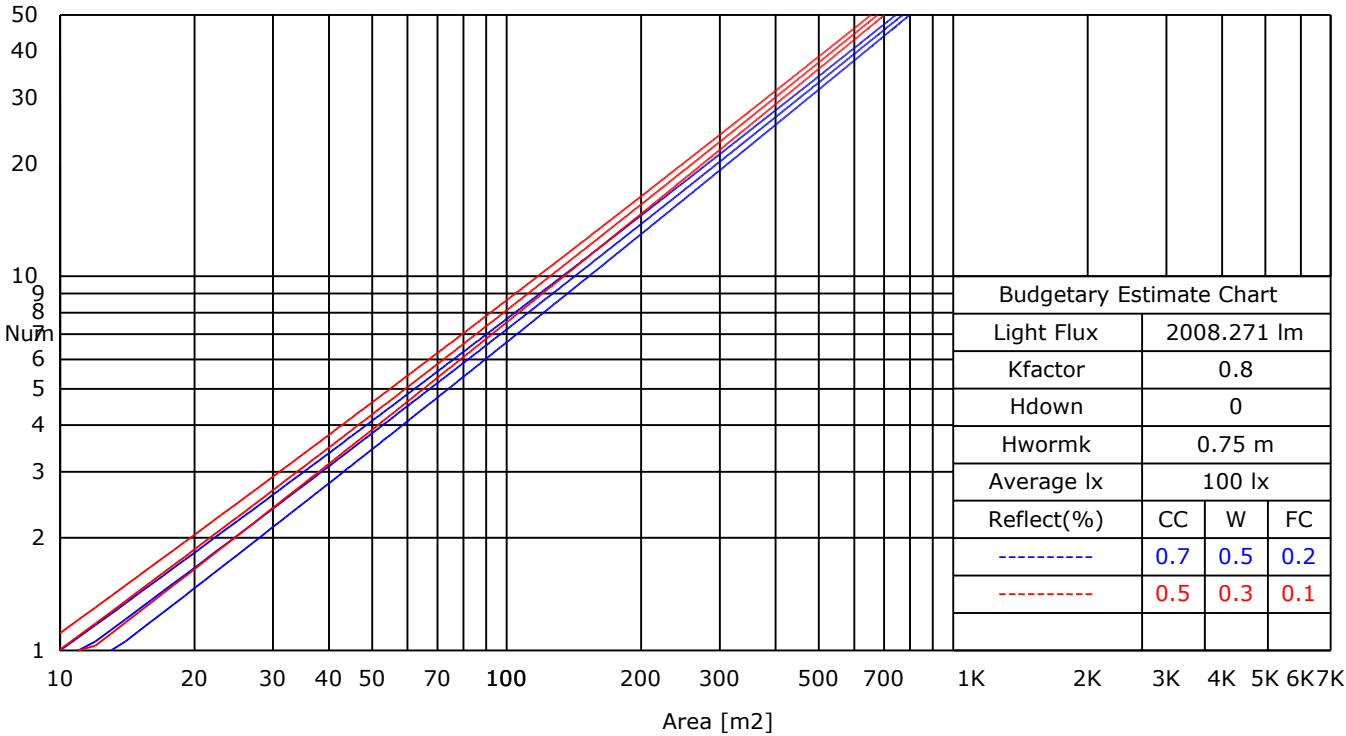
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UTILIZATION FACTORS TABLE

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	0.99	0.97	0.95	0.98	0.95	0.93	0.95	0.92	0.89	0.90	0.87	0.85	0.84	0.81	0.79	0.73
2	0.94	0.92	0.91	0.93	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.71
3	0.90	0.88	0.87	0.90	0.87	0.85	0.87	0.84	0.81	0.84	0.80	0.77	0.80	0.76	0.72	0.68
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.64
6	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.62
7	0.79	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.77	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.59
9	0.76	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.68	0.64	0.61	0.58
10	0.74	0.73	0.72	0.73	0.71	0.70	0.71	0.69	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



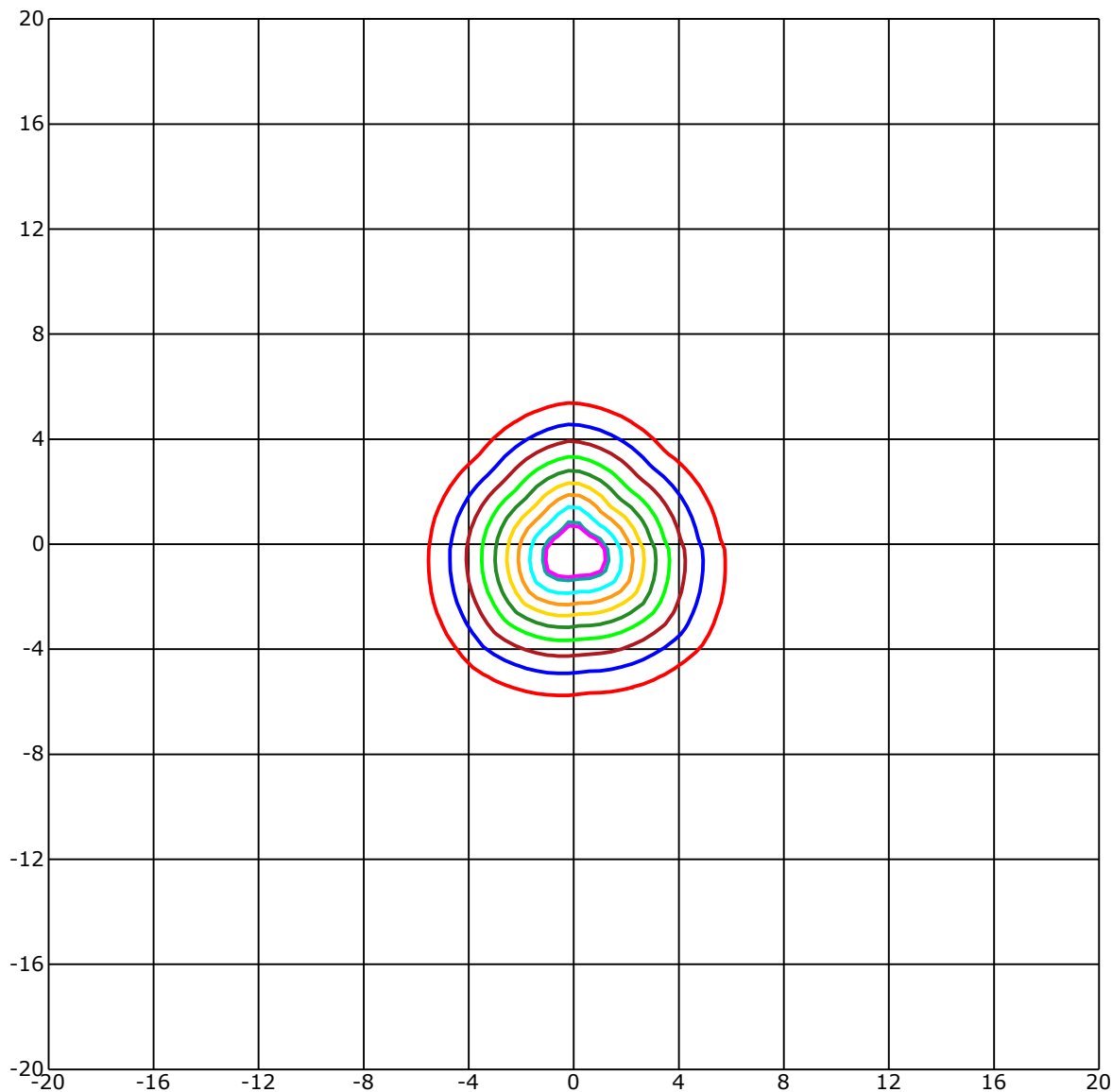
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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ISOLX DIAGRAM



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

39.978(92%Emax)	21.727(50%Emax)
39.109(90%Emax)	17.382(40%Emax)
34.764(80%Emax)	13.036(30%Emax)
30.418(70%Emax)	8.691(20%Emax)
26.073(60%Emax)	4.345(10%Emax)

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 8:52:36

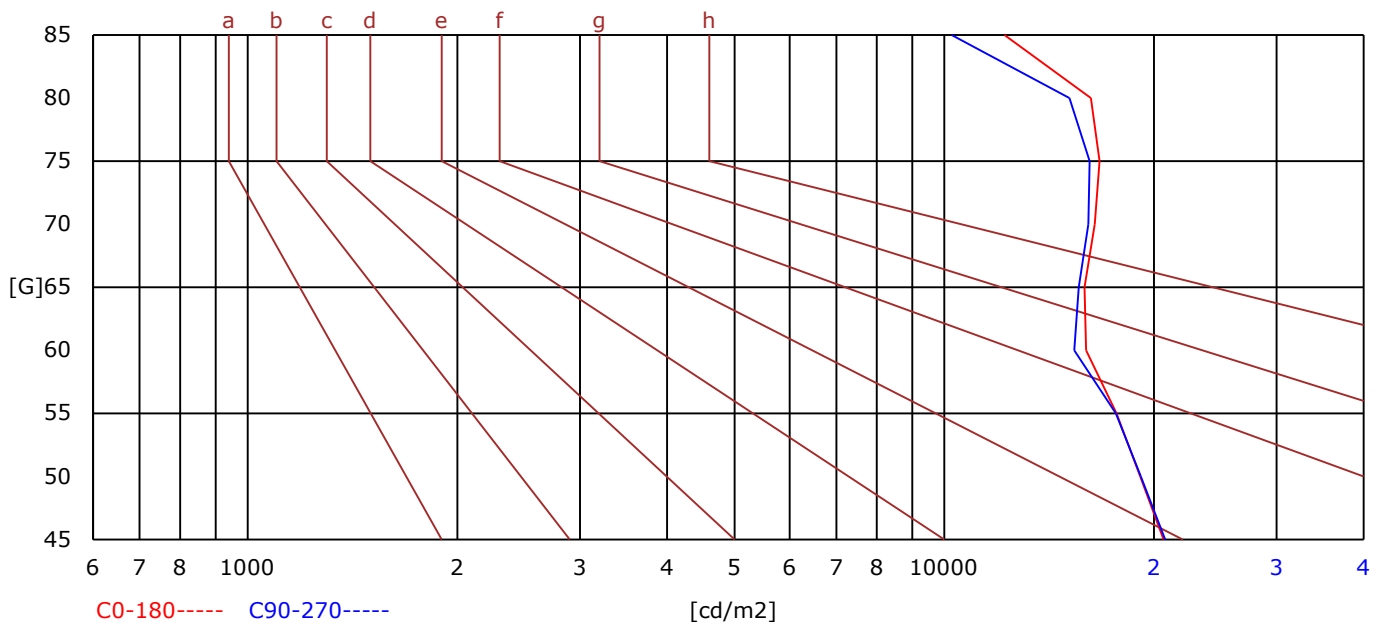
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	20652	19114	17678	15987	15900	16451	16702	16230	12198
C90	20751	19145	17626	15365	15592	16099	16159	15132	10242
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



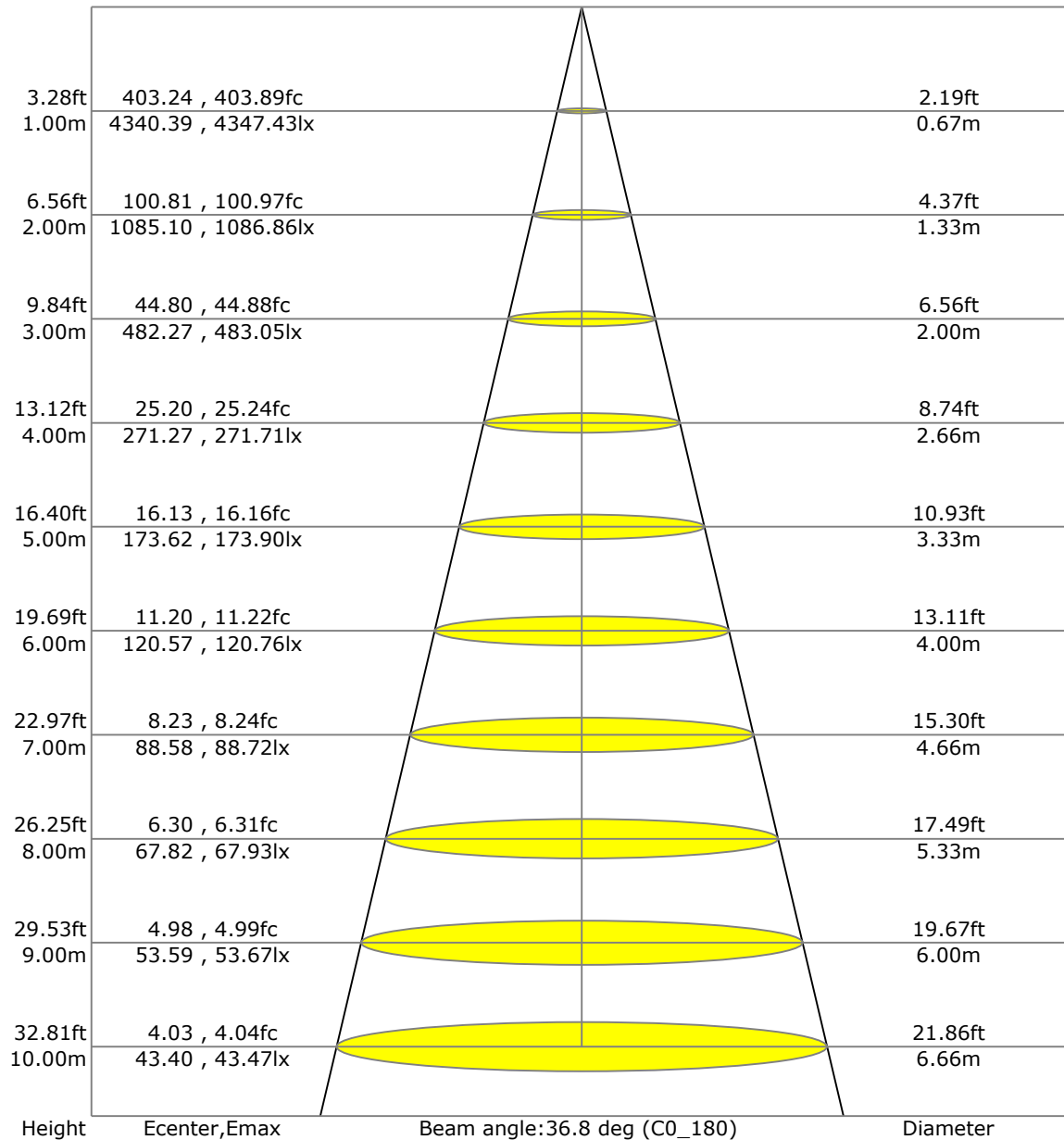
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.81 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	10.24	10.30	10.44	10.48	10.73	10.45	10.50	10.65	10.69	10.93
3H	10.43	10.48	10.63	10.67	10.92	10.60	10.66	10.81	10.85	11.10
4H	10.47	10.52	10.68	10.72	10.97	10.64	10.69	10.85	10.89	11.13
6H	10.47	10.53	10.69	10.73	10.98	10.64	10.69	10.85	10.89	11.14
8H	10.46	10.52	10.68	10.72	10.97	10.63	10.68	10.85	10.88	11.14
12H	10.45	10.51	10.68	10.72	10.97	10.62	10.67	10.84	10.88	11.13
4H 2H	12.59	12.65	12.81	12.85	13.09	12.94	13.00	13.15	13.19	13.44
3H	12.97	13.03	13.20	13.24	13.49	13.29	13.34	13.51	13.55	13.80
4H	13.08	13.14	13.31	13.35	13.61	13.38	13.43	13.61	13.65	13.91
6H	13.13	13.18	13.37	13.41	13.67	13.42	13.47	13.66	13.69	13.96
8H	13.14	13.19	13.38	13.41	13.68	13.42	13.47	13.66	13.70	13.96
12H	13.13	13.18	13.38	13.41	13.68	13.41	13.46	13.66	13.69	13.96
8H 4H	13.48	13.54	13.70	13.74	13.99	13.89	13.94	14.10	14.14	14.40
6H	14.33	14.38	14.59	14.62	14.89	14.68	14.73	14.93	14.96	15.24
8H	14.36	14.40	14.62	14.65	14.93	14.70	14.74	14.96	14.99	15.27
12H	14.36	14.41	14.63	14.66	14.94	14.70	14.74	14.97	15.00	15.28
12H 4H	14.52	14.57	14.77	14.80	15.07	14.90	14.95	15.15	15.18	15.45
6H	14.68	14.73	14.94	14.97	15.25	15.05	15.09	15.31	15.34	15.62

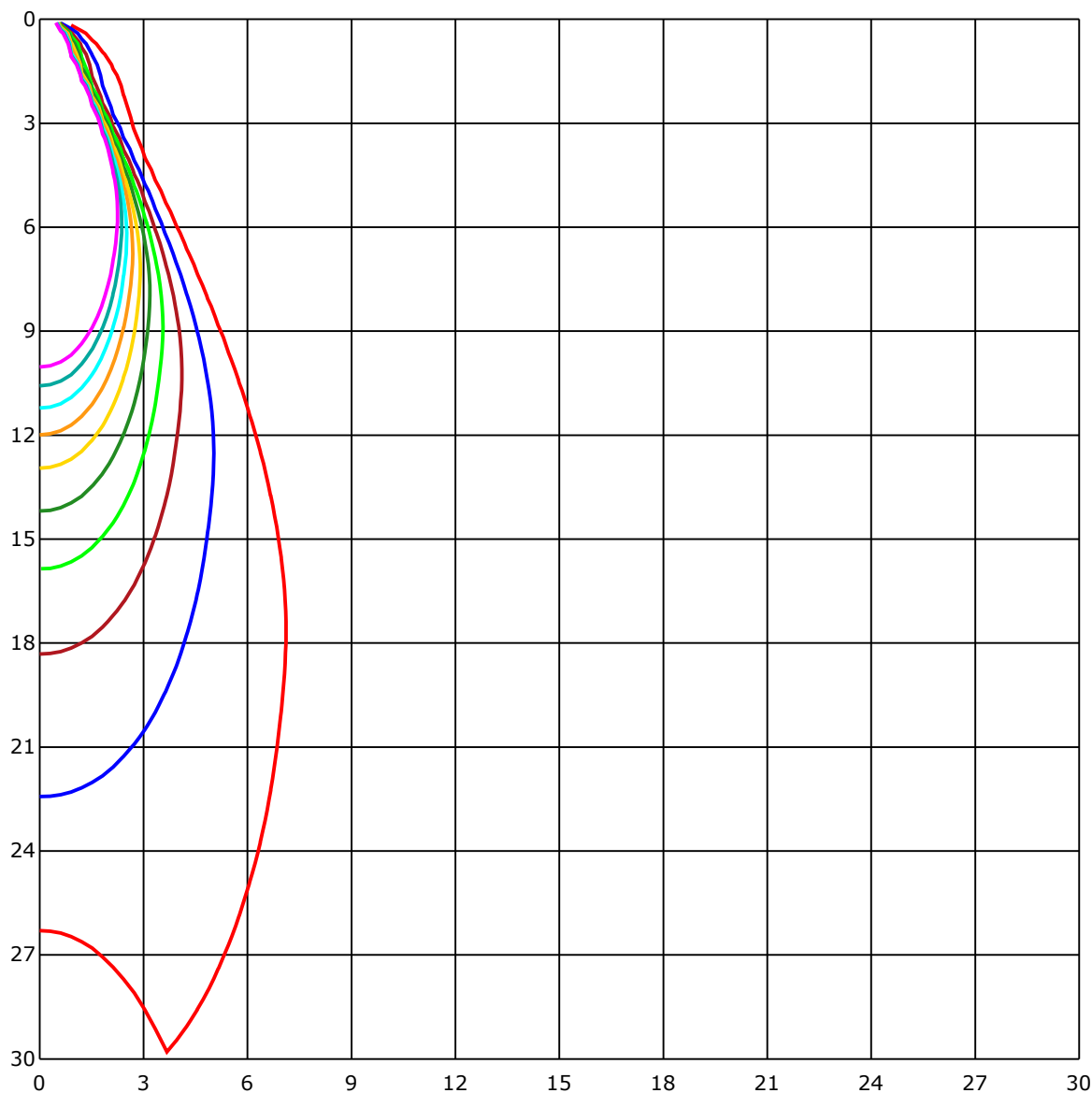
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

43.137
38.823
34.51
30.196
25.882

21.569
17.255
12.941
8.627
4.314

C Range: 0 - 360 Deg
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Operators: QC01
Test Date: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4340.39	4241.51	4331.57	4242.72	4340.39	4241.51	4331.57	4242.72	4340.39	
G1	4335.33	4173.66	4294.15	4182.38	4330.18	4291.55	4347.44	4292.02	4335.33	
G2	4312.05	4094.13	4242.49	4094.04	4296.0	4323.5	4347.02	4327.59	4312.05	
G3	4271.05	3988.62	4183.59	3999.57	4248.28	4338.11	4324.99	4343.73	4271.05	
G4	4209.7	3872.82	4091.49	3878.06	4186.83	4332.08	4286.5	4345.3	4209.7	
G5	4135.77	3738.42	3994.56	3762.91	4099.32	4305.0	4223.01	4323.27	4135.77	
G6	4036.85	3593.92	3879.96	3615.06	4010.05	4259.65	4146.72	4285.66	4036.85	
G7	3919.89	3443.56	3756.19	3476.45	3888.45	4195.6	4053.41	4224.58	3919.89	
G8	3802.1	3287.42	3616.04	3325.12	3768.1	4121.91	3940.02	4148.85	3802.1	
G9	3663.53	3125.47	3474.17	3176.9	3627.08	4024.94	3818.84	4063.8	3663.53	
G10	3517.44	2970.85	3321.78	3012.73	3485.77	3912.84	3672.38	3954.4	3517.44	
G11	3356.05	2799.35	3169.11	2854.82	3335.0	3783.04	3526.53	3827.28	3356.05	
G12	3198.61	2632.82	3007.54	2693.48	3181.82	3647.39	3362.45	3692.42	3198.61	
G13	3027.29	2466.51	2849.3	2536.17	3028.87	3499.87	3204.54	3549.26	3027.29	
G14	2864.28	2319.45	2689.77	2380.39	2868.55	3333.24	3030.82	3396.03	2864.28	
G15	2700.48	2160.38	2531.76	2228.56	2703.91	3172.08	2861.08	3244.61	2700.48	
G16	2539.14	2016.67	2375.48	2077.51	2547.21	3010.55	2694.22	3077.61	2539.14	
G17	2377.47	1876.47	2231.48	1933.51	2391.29	2844.85	2521.52	2924.89	2377.47	
G18	2222.25	1746.52	2085.39	1791.23	2240.62	2680.03	2354.52	2754.69	2222.25	
G19	2077.32	1617.23	1947.24	1647.42	2096.48	2504.08	2199.71	2595.02	2077.32	
G20	1941.35	1478.42	1811.5	1493.96	1959.34	2347.84	2052.79	2434.47	1941.35	
G21	1805.93	1334.66	1672.42	1341.38	1816.27	2192.99	1910.51	2282.12	1805.93	
G22	1678.68	1192.1	1528.83	1189.69	1670.61	2049.68	1769.9	2139.56	1678.68	
G23	1537.65	1046.15	1380.76	1040.4	1516.27	1910.56	1630.4	2000.53	1537.65	
G24	1396.34	904.52	1231.61	895.71	1363.09	1771.38	1479.4	1863.3	1396.34	
G25	1247.15	766.92	1081.12	760.8	1206.85	1623.3	1327.79	1724.22	1247.15	
G26	1100.32	639.71	935.31	636.56	1053.16	1475.27	1172.99	1572.2	1100.32	
G27	954.93	522.19	792.75	525.21	900.95	1321.02	1022.13	1424.3	954.93	
G28	811.44	417.66	662.3	427.03	761.08	1168.35	873.63	1269.04	811.44	
G29	675.79	330.29	545.94	346.29	631.23	1015.87	733.48	1117.06	675.79	
G30	550.35	260.54	445.91	281.6	516.58	866.07	604.19	965.32	550.35	
G31	444.89	208.55	360.71	231.23	420.17	723.37	492.79	823.78	444.89	
G32	359.14	171.04	292.49	190.7	342.35	595.52	399.44	690.08	359.14	
G33	290.31	143.67	239.72	160.97	280.95	483.7	323.01	572.14	290.31	
G34	236.47	124.8	198.81	138.48	233.36	389.79	261.65	469.56	236.47	
G35	194.36	111.67	169.18	122.2	197.14	315.91	215.23	387.1	194.36	
G36	163.2	102.58	147.15	109.87	169.64	257.94	178.87	317.17	163.2	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	139.5	95.77	132.03	101.1	148.91	213.42	151.84	262.12	139.5	
G38	123.08	90.25	120.76	94.28	133.8	180.63	131.99	219.17	123.08	
G39	110.98	85.8	112.46	88.9	122.43	156.7	118.12	186.66	110.98	
G40	102.44	81.95	105.64	84.13	113.67	139.68	107.31	162.08	102.44	
G41	95.67	78.24	100.36	80.14	106.43	126.93	99.43	143.95	95.67	
G42	89.97	75.31	95.49	76.43	100.59	117.24	92.71	130.27	89.97	
G43	85.05	72.49	91.73	73.41	95.4	109.4	87.23	119.56	85.05	
G44	80.79	70.26	87.84	70.49	91.04	103.19	82.73	111.16	80.79	
G45	77.17	67.52	84.73	67.85	87.0	97.58	78.98	104.53	77.17	
G46	74.02	65.25	81.53	65.48	83.62	92.98	75.41	98.36	74.02	
G47	71.19	63.12	78.84	63.44	80.23	89.0	72.44	93.31	71.19	
G48	68.59	60.89	76.06	60.98	77.4	85.52	69.56	88.9	68.59	
G49	65.85	58.71	73.46	58.94	74.48	81.95	67.01	85.33	65.85	
G50	63.44	56.81	71.0	56.9	71.88	78.98	64.51	81.58	63.44	
G51	61.17	55.05	68.73	55.19	69.38	76.43	62.47	78.38	61.17	
G52	58.99	52.96	66.23	53.05	66.97	73.55	60.15	75.45	58.99	
G53	56.72	50.97	64.28	51.01	64.69	71.09	58.06	72.76	56.72	
G54	54.72	49.16	62.1	49.07	62.24	68.59	55.93	69.94	54.72	
G55	52.78	46.89	59.5	46.75	59.92	66.46	54.03	67.52	52.78	
G56	51.01	45.12	57.23	44.52	57.83	64.09	52.22	65.07	51.01	
G57	49.07	43.22	55.23	42.48	55.42	61.77	50.18	62.93	49.07	
G58	46.93	41.51	52.92	40.35	53.19	59.87	47.77	60.66	46.93	
G59	45.08	39.51	50.6	38.03	50.83	57.46	45.91	58.48	45.08	
G60	43.5	36.96	48.05	35.52	48.32	55.56	43.92	56.39	43.5	
G61	41.69	34.83	45.36	34.09	45.96	52.96	42.2	54.31	41.69	
G62	39.88	33.95	42.62	33.25	43.55	51.2	40.21	52.13	39.88	
G63	37.52	32.88	41.32	32.42	41.65	48.28	38.21	50.23	37.52	
G64	35.62	32.05	40.12	31.54	40.76	45.87	35.9	47.86	35.62	
G65	34.5	31.07	39.1	30.47	39.47	43.36	34.64	45.54	34.5	
G66	33.72	30.19	37.98	29.5	38.35	41.69	33.67	43.18	33.72	
G67	32.6	29.17	36.82	28.61	37.1	40.3	32.79	41.78	32.6	
G68	31.81	28.15	35.66	27.45	36.08	39.28	31.81	40.81	31.81	
G69	30.7	27.04	34.64	26.43	34.78	38.21	30.93	39.56	30.7	
G70	29.87	26.02	33.48	25.46	33.76	37.19	29.91	38.35	29.87	
G71	28.66	24.86	32.42	24.35	32.56	35.99	28.94	37.33	28.66	
G72	27.78	23.74	30.93	23.0	31.4	34.97	27.96	36.22	27.78	
G73	26.62	22.49	29.73	21.84	30.01	33.76	26.85	35.15	26.62	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 8:52:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks: