

Report No.:

Test Time: 2024/11/13 13:01:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-19.4W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

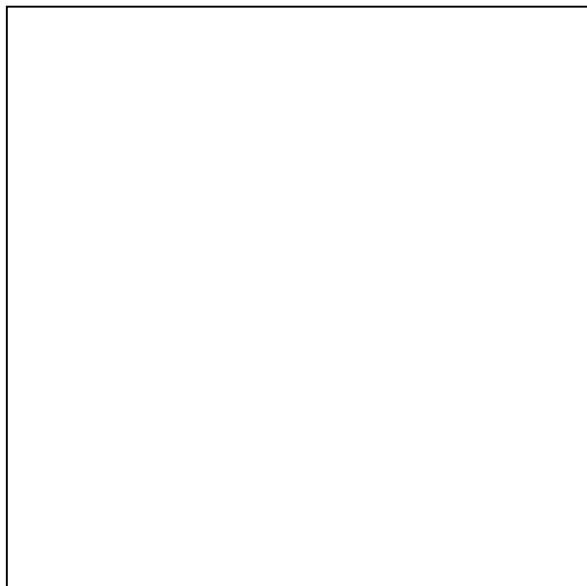
Voltage(V): 219.90 V
Current(A): 0.0950 A
Power(W): 19.40 W
Power Factor: 0.9230
Lamp Luminous Flux: 1759.93

Photometric Results

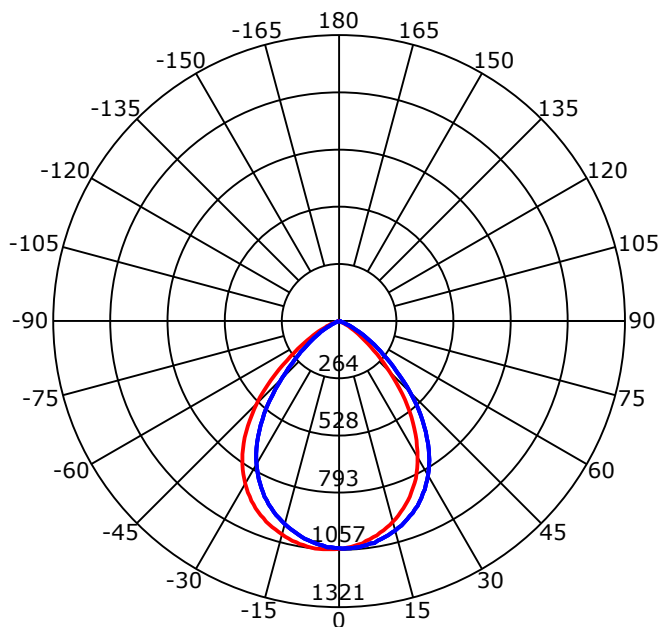
CIE Class: Direct
Luminaire Luminous Flux: 1759.933 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.72 lm/W
Beam Angle(50%) C0-180,C90-270: 83.2,82.6
Field Angle(10%) C0-180,C90-270: 119.1,120.2
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1056.73 cd
Max.Intensity Angle: C=180 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1052.64 cd
Effective Luminous Flux: 1697.79 lm
ERP(ϕ use)(120deg): 1700.59 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 83.2 deg,82.6 deg

C0-180 — C90-270 —

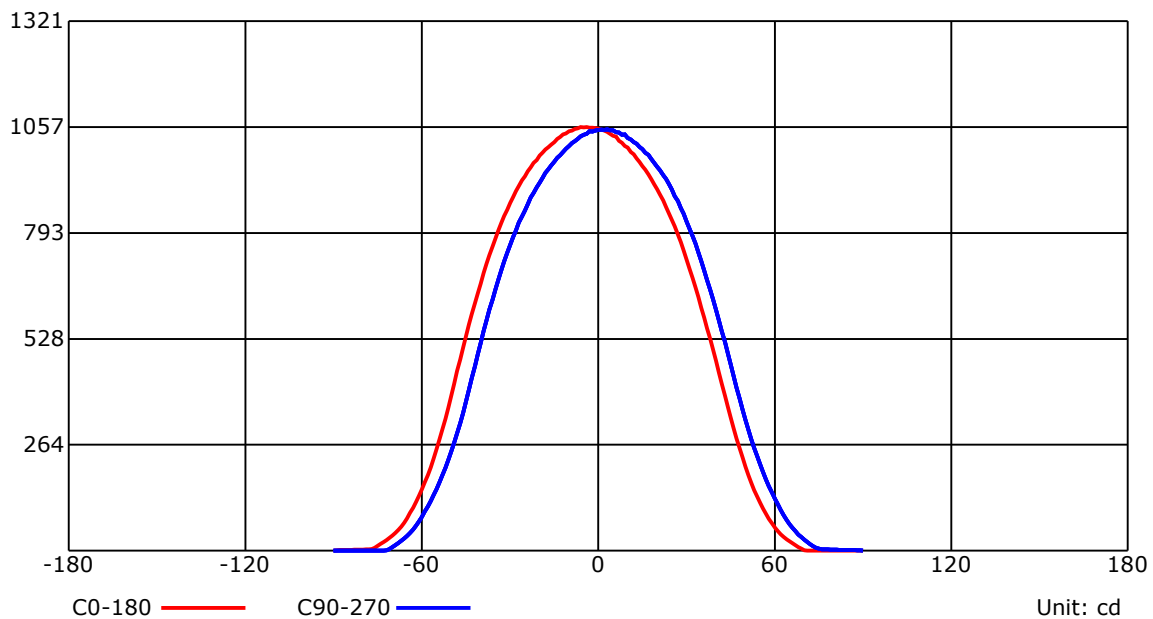
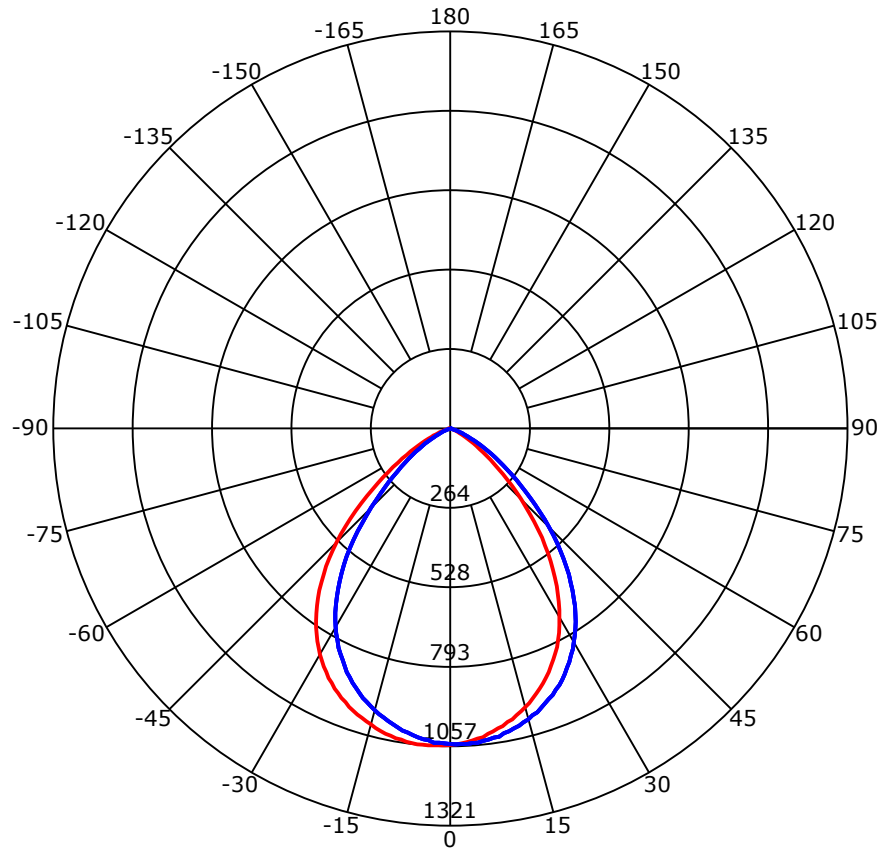
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/13 13:01:25

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



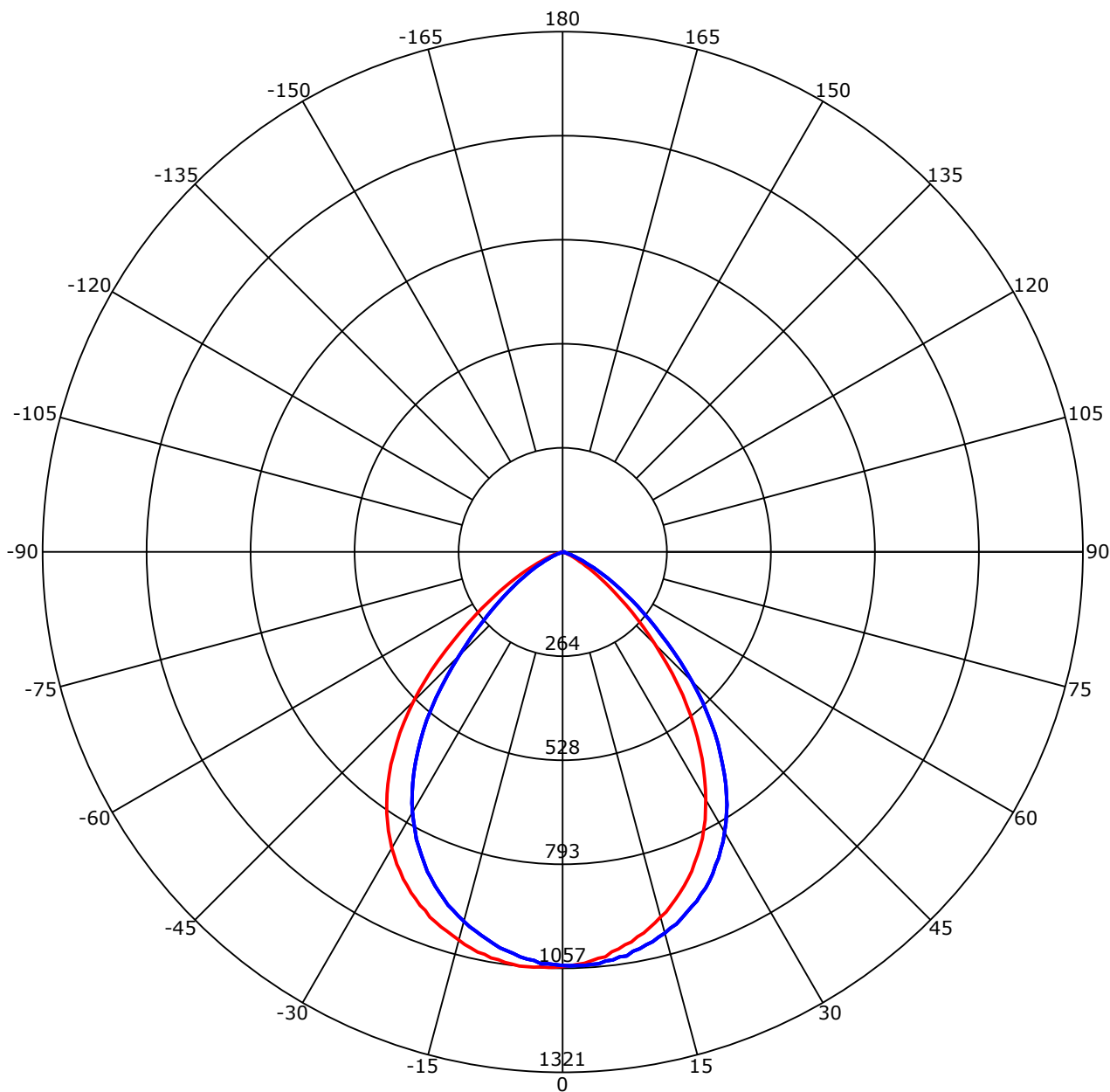
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Temperature: 25
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Humidity: 60
Test Distance: 6.81 m
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Luminous Intensity Distribution Curve



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: 2024/11/13 13:01:25

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

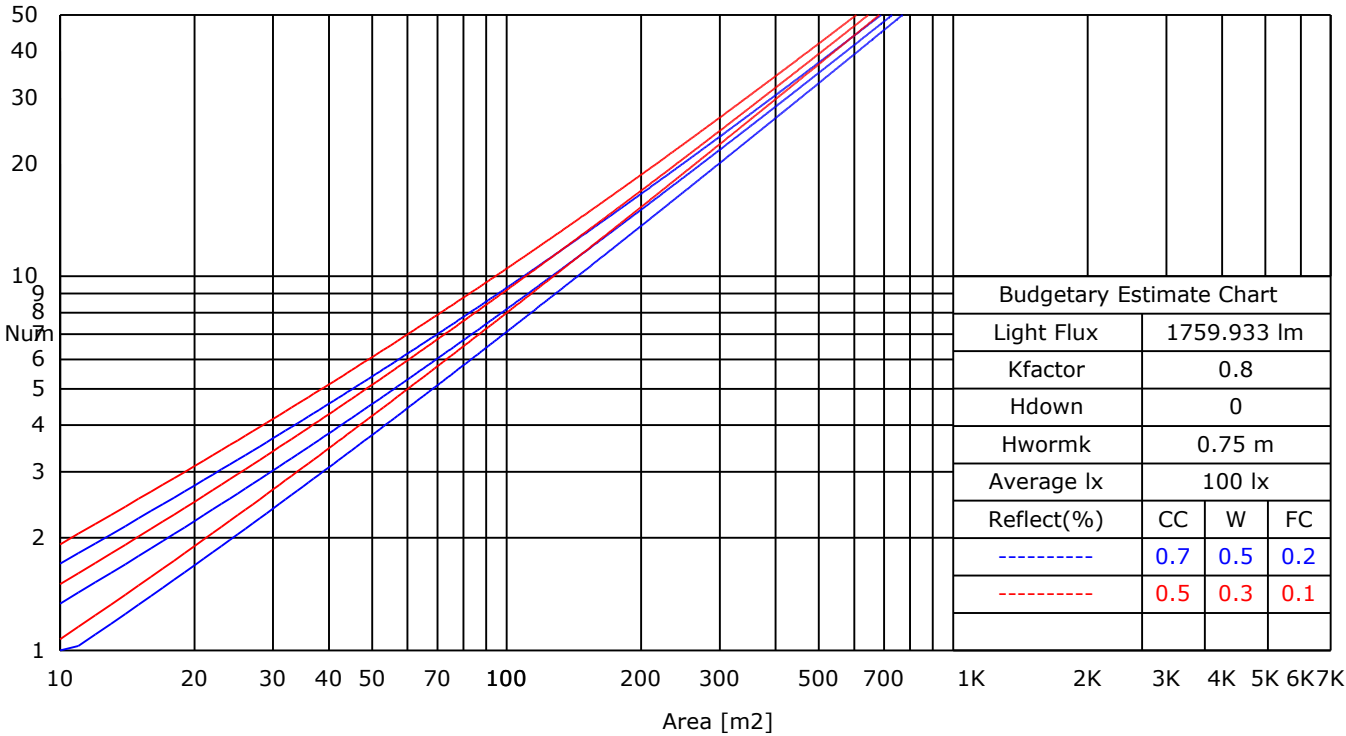
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	0.90	0.88	0.83
2	1.01	1.00	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.82	0.77
3	0.94	0.92	0.91	0.93	0.91	0.89	0.90	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.76	0.71
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.81	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.66
5	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
6	0.77	0.75	0.74	0.76	0.74	0.72	0.75	0.71	0.69	0.73	0.68	0.65	0.70	0.65	0.62	0.58
7	0.72	0.70	0.69	0.72	0.69	0.68	0.70	0.67	0.65	0.69	0.64	0.61	0.66	0.62	0.58	0.54
8	0.68	0.66	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.54	0.51
9	0.64	0.63	0.62	0.64	0.62	0.60	0.63	0.60	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.48
10	0.61	0.59	0.58	0.61	0.58	0.57	0.60	0.56	0.54	0.59	0.55	0.52	0.57	0.52	0.49	0.46

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



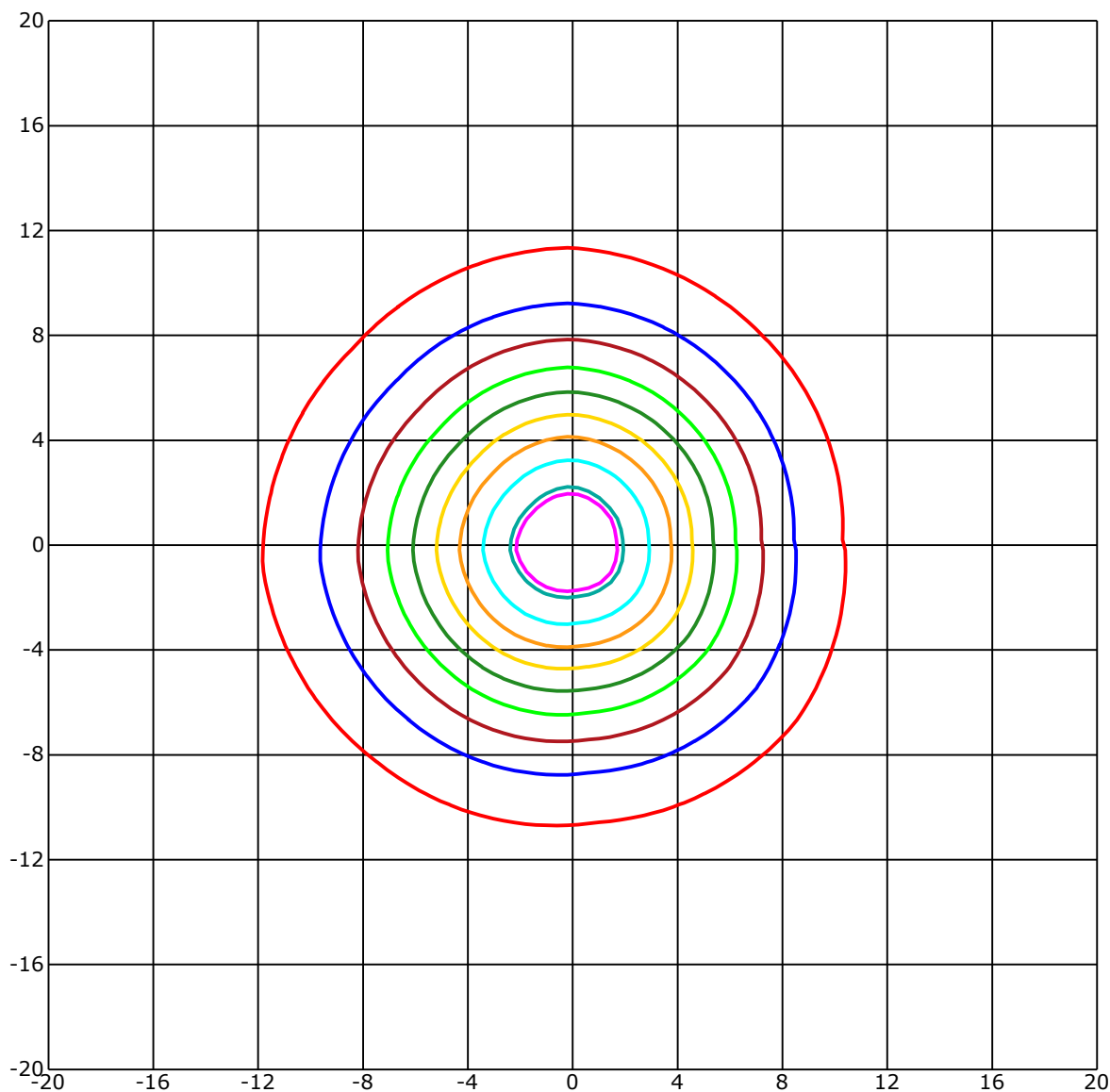
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/13 13:01:25

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



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

9.695(92%Emax)	5.269(50%Emax)
9.485(90%Emax)	4.215(40%Emax)
8.431(80%Emax)	3.162(30%Emax)
7.377(70%Emax)	2.108(20%Emax)
6.323(60%Emax)	1.054(10%Emax)

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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/13 13:01:25

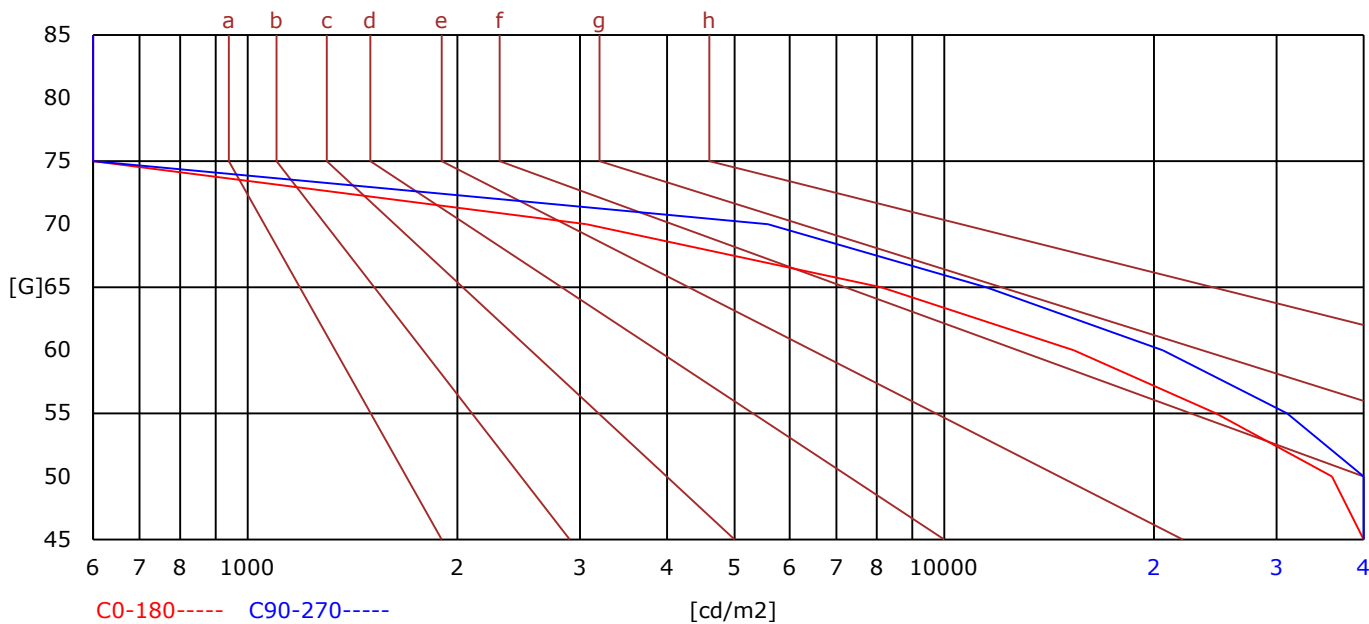
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.81 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	49252	36007	24541	15346	8116	3063	0	0	0
C90	57564	43508	31057	20589	11485	5582	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



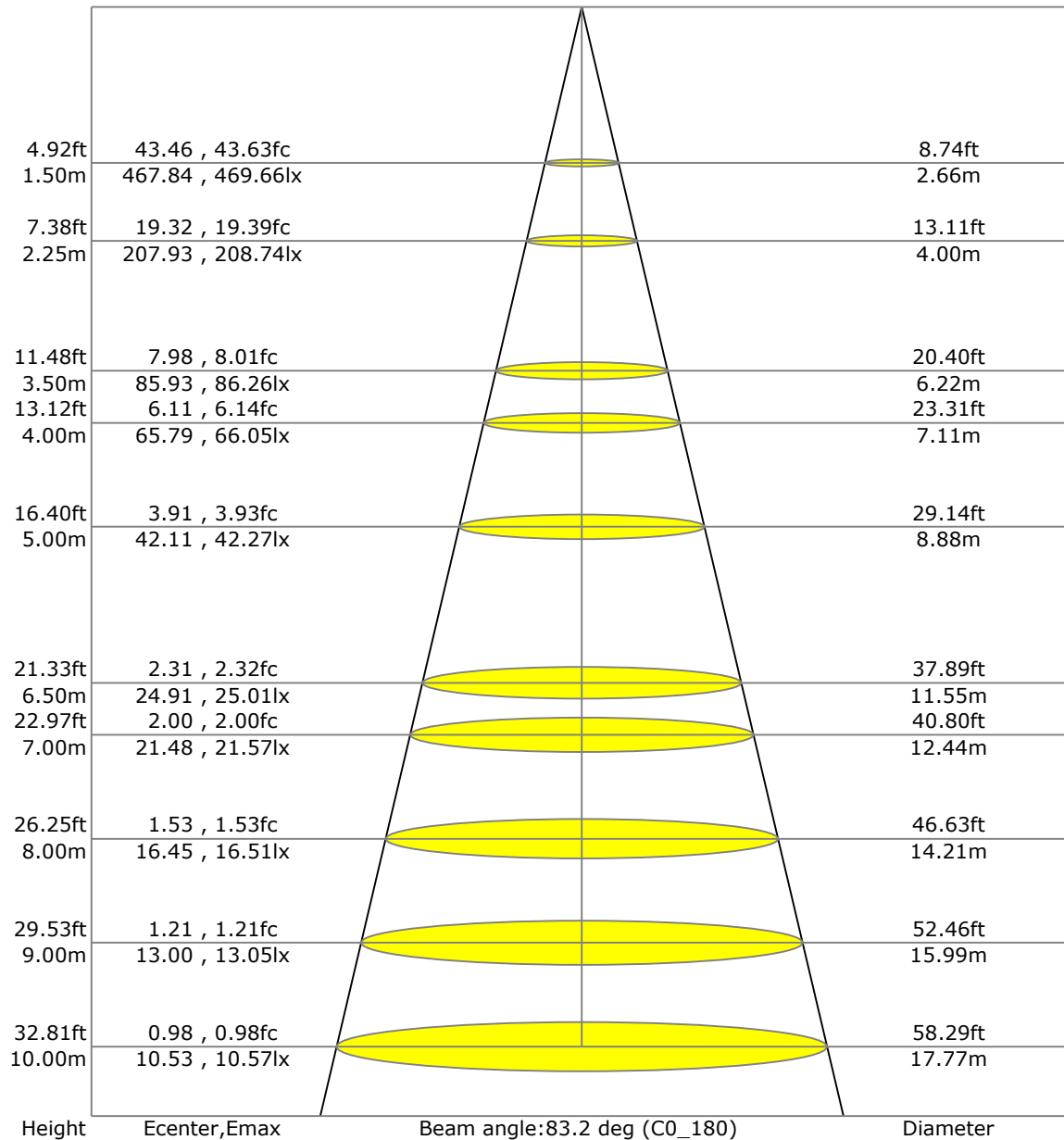
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/11/13 13:01:25

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	17.29	17.35	17.49	17.53	17.78	17.94	18.00	18.14	18.19	18.44
3H	17.26	17.32	17.47	17.51	17.76	17.91	17.97	18.11	18.16	18.41
4H	17.24	17.30	17.45	17.49	17.74	17.89	17.94	18.10	18.14	18.39
6H	17.21	17.27	17.43	17.47	17.72	17.86	17.92	18.08	18.12	18.37
8H	17.20	17.26	17.42	17.46	17.71	17.85	17.91	18.07	18.11	18.36
12H	17.19	17.24	17.41	17.45	17.71	17.84	17.89	18.06	18.10	18.35
4H 2H	17.29	17.35	17.51	17.55	17.80	18.10	18.15	18.31	18.35	18.60
3H	17.26	17.32	17.48	17.52	17.78	18.05	18.11	18.27	18.31	18.57
4H	17.23	17.29	17.46	17.50	17.76	18.03	18.08	18.25	18.29	18.55
6H	17.20	17.25	17.44	17.48	17.74	18.00	18.05	18.23	18.27	18.53
8H	17.19	17.24	17.43	17.46	17.73	17.98	18.03	18.22	18.25	18.52
12H	17.17	17.22	17.42	17.45	17.72	17.96	18.01	18.21	18.24	18.51
8H 4H	17.26	17.32	17.48	17.52	17.77	18.06	18.12	18.28	18.32	18.57
6H	17.15	17.20	17.41	17.44	17.71	17.95	17.99	18.20	18.23	18.50
8H	17.14	17.18	17.40	17.42	17.70	17.93	17.97	18.19	18.22	18.49
12H	17.12	17.15	17.38	17.41	17.69	17.91	17.95	18.18	18.20	18.48
12H 4H	17.17	17.22	17.42	17.45	17.72	17.97	18.01	18.21	18.24	18.51
6H	17.14	17.18	17.40	17.42	17.70	17.93	17.97	18.19	18.22	18.49

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

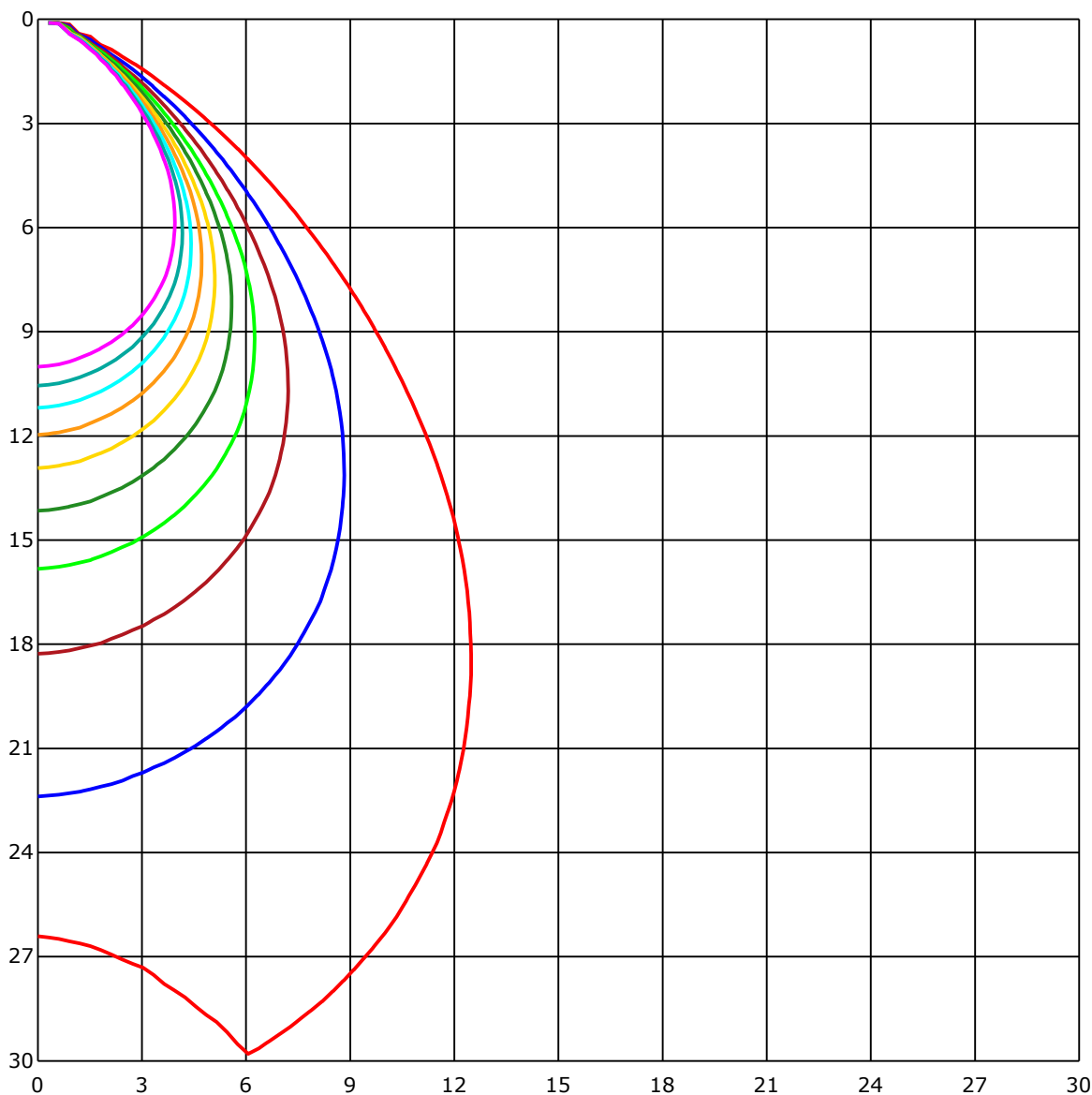
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1052.64	1047.0	1049.82	1052.86	1052.64	1047.0	1049.82	1052.86	1052.64	
G1	1050.5	1046.0	1050.59	1053.23	1054.32	1047.32	1047.73	1053.41	1050.5	
G2	1047.73	1046.04	1049.95	1051.59	1054.91	1049.41	1045.82	1050.27	1047.73	
G3	1045.18	1042.59	1051.13	1052.32	1054.86	1047.18	1046.54	1048.27	1045.18	
G4	1040.14	1040.05	1049.18	1049.59	1056.68	1046.68	1039.64	1044.82	1040.14	
G5	1035.32	1036.96	1049.09	1049.23	1056.18	1043.41	1037.55	1041.59	1035.32	
G6	1033.0	1036.18	1044.23	1046.82	1056.73	1042.5	1033.36	1038.41	1033.0	
G7	1022.68	1031.73	1043.0	1044.36	1053.91	1038.14	1026.96	1033.0	1022.68	
G8	1017.82	1025.96	1037.91	1039.05	1052.0	1035.46	1021.59	1029.64	1017.82	
G9	1009.46	1019.59	1038.36	1035.36	1047.68	1030.55	1017.09	1022.32	1009.46	
G10	1005.32	1016.32	1029.32	1029.09	1046.64	1027.27	1009.82	1015.37	1005.32	
G11	994.41	1005.19	1025.73	1024.46	1040.55	1021.41	1002.14	1009.5	994.41	
G12	988.82	997.91	1019.23	1018.46	1038.46	1015.69	994.73	1002.28	988.82	
G13	978.83	990.23	1015.28	1011.91	1032.0	1011.0	986.82	997.01	978.83	
G14	970.1	982.83	1007.14	1005.64	1027.09	1004.28	979.78	986.46	970.1	
G15	959.42	973.64	1001.55	998.01	1019.55	995.51	970.51	978.33	959.42	
G16	950.47	965.74	992.6	990.19	1013.14	989.28	961.28	970.96	950.47	
G17	938.83	957.37	987.32	982.69	1006.23	980.69	951.01	961.51	938.83	
G18	926.47	948.33	977.1	973.6	1000.55	973.96	942.19	950.15	926.47	
G19	914.02	936.42	967.1	966.74	992.78	962.6	929.97	943.65	914.02	
G20	901.47	925.02	957.69	954.65	986.01	954.69	918.2	929.65	901.47	
G21	888.11	912.61	949.28	944.79	974.46	943.15	906.97	918.02	888.11	
G22	874.2	900.06	937.01	931.97	967.15	933.7	892.56	904.47	874.2	
G23	856.84	885.11	927.24	921.15	956.01	920.47	881.07	891.02	856.84	
G24	841.48	871.89	914.61	906.88	946.92	907.88	863.93	876.98	841.48	
G25	825.3	856.25	900.93	893.52	934.1	896.52	848.62	863.66	825.3	
G26	809.39	841.12	884.61	881.2	923.88	881.2	833.85	846.48	809.39	
G27	788.31	824.98	872.2	867.52	909.61	865.48	818.53	832.39	788.31	
G28	769.94	807.12	854.52	849.89	897.38	851.02	798.76	814.17	769.94	
G29	748.13	788.71	840.16	833.12	881.84	834.57	781.85	797.08	748.13	
G30	726.27	771.58	821.44	815.62	867.61	818.53	762.58	778.53	726.27	
G31	703.54	748.95	803.8	799.08	850.8	798.76	743.99	760.4	703.54	
G32	679.55	728.27	784.4	779.49	834.62	780.53	721.41	738.99	679.55	
G33	656.6	704.82	765.9	760.17	816.89	760.04	698.86	718.59	656.6	
G34	632.37	683.27	743.63	738.77	798.99	737.77	675.59	695.23	632.37	
G35	605.6	658.14	722.45	717.0	779.26	714.72	651.55	672.78	605.6	
G36	581.38	634.69	699.27	696.09	758.76	691.82	626.05	649.73	581.38	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	554.84	608.92	674.73	671.96	737.45	668.37	601.24	626.87	554.84	
G38	528.25	584.06	650.14	647.69	715.41	643.37	574.74	599.74	528.25	
G39	500.66	558.56	626.19	624.19	692.68	615.28	548.43	574.74	500.66	
G40	473.89	531.88	600.97	597.1	666.41	588.92	518.75	548.16	473.89	
G41	444.17	505.02	574.38	571.52	642.42	559.65	490.57	521.07	444.17	
G42	416.26	478.53	547.43	543.93	617.42	531.48	460.08	491.44	416.26	
G43	386.72	449.26	521.25	516.39	590.6	502.34	430.63	464.03	386.72	
G44	358.41	420.76	492.16	486.85	563.74	472.98	400.9	434.17	358.41	
G45	331.41	391.31	464.53	457.35	535.16	443.17	372.27	405.31	331.41	
G46	305.01	364.32	435.67	427.63	506.66	411.9	344.0	374.63	305.01	
G47	279.65	334.96	406.76	398.63	477.12	381.86	318.37	346.32	279.65	
G48	255.19	308.69	378.59	369.22	447.99	353.27	292.46	318.73	255.19	
G49	232.47	282.83	351.95	341.0	416.67	325.91	269.6	293.05	232.47	
G50	209.7	260.06	326.18	314.23	386.99	300.05	247.51	266.87	209.7	
G51	188.98	236.42	301.91	289.05	357.0	276.19	227.24	242.92	188.98	
G52	169.34	215.65	278.42	264.47	329.32	252.78	206.79	219.93	169.34	
G53	150.93	195.2	256.42	242.2	302.37	231.33	187.61	198.43	150.93	
G54	134.48	176.07	235.33	220.47	277.05	210.93	170.02	178.2	134.48	
G55	119.35	158.16	215.34	200.16	253.15	191.61	153.84	160.3	119.35	
G56	105.03	141.57	195.75	181.07	230.15	174.25	138.8	143.3	105.03	
G57	92.17	126.17	177.89	163.02	208.15	157.12	123.98	128.03	92.17	
G58	79.63	111.85	160.89	145.71	188.79	141.16	110.39	113.3	79.63	
G59	67.9	98.71	145.12	130.62	170.07	126.71	97.49	100.12	67.9	
G60	57.58	86.22	129.8	115.67	152.57	112.94	84.44	87.62	57.58	
G61	48.72	74.35	115.76	101.62	136.85	99.9	73.22	76.17	48.72	
G62	40.86	63.49	101.71	88.4	121.58	87.31	62.31	65.67	40.86	
G63	34.22	53.95	88.67	75.35	107.21	75.76	53.04	56.4	34.22	
G64	28.54	45.49	76.22	63.49	94.12	65.85	44.36	48.4	28.54	
G65	23.18	38.54	65.81	54.54	80.9	57.08	37.22	41.22	23.18	
G66	18.68	32.45	56.81	46.31	69.81	49.18	30.59	34.72	18.68	
G67	13.86	26.68	48.58	39.13	60.31	41.99	24.68	29.22	13.86	
G68	9.18	21.5	40.4	32.54	51.99	35.86	19.13	23.86	9.18	
G69	4.73	16.68	33.45	26.72	44.09	29.86	13.86	18.86	4.73	
G70	1.18	11.77	27.41	21.45	37.86	24.27	8.64	13.73	1.18	
G71	0.0	7.09	21.86	16.41	31.77	18.91	4.14	9.32	0.0	
G72	0.0	3.05	16.36	11.45	26.59	13.63	0.68	5.73	0.0	
G73	0.0	0.0	11.77	6.64	21.68	8.91	0.0	3.95	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/13 13:01:25

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

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/13 13:01:25

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