

Report No.:

Test Time: 2025/6/19 17:04:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042.(C)-38°-7W
Lamp Type:
Luminous Width: 32 mm
Luminous Length: 32 mm
Luminous Height: 46 mm

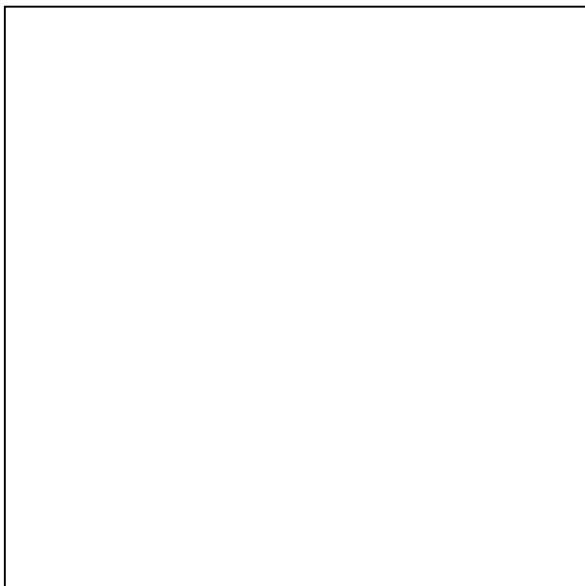
Voltage(V): 219.80 V
Current(A): 0.0360 A
Power(W): 7.38 W
Power Factor: 0.9100
Lamp Luminous Flux: 484.08

Photometric Results

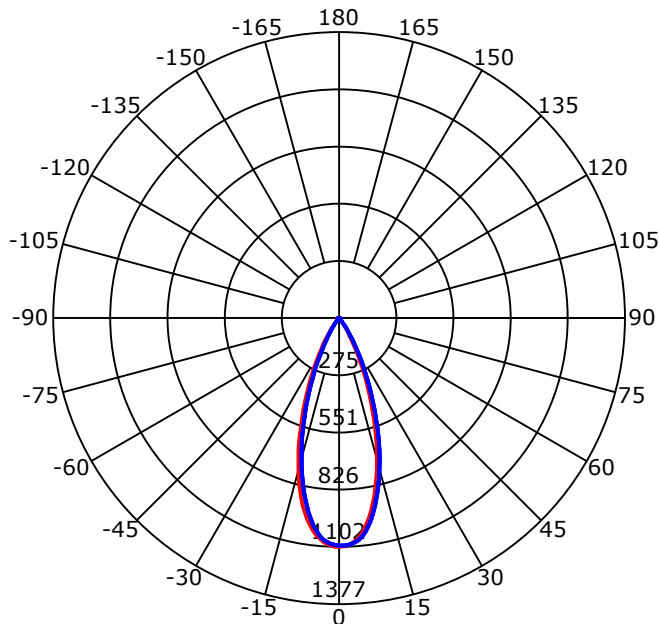
CIE Class: Direct
Luminaire Luminous Flux: 484.0764 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.57 lm/W
Beam Angle(50%) C0-180,C90-270: 37.8,37.8
Field Angle(10%) C0-180,C90-270: 63.1,63.1
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 1101.95 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1101.48 cd
Effective Luminous Flux: 443.24 lm
ERP(ϕ use)(120deg): 481.71 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.8 deg,37.8 deg

C0-180 — C90-270 —

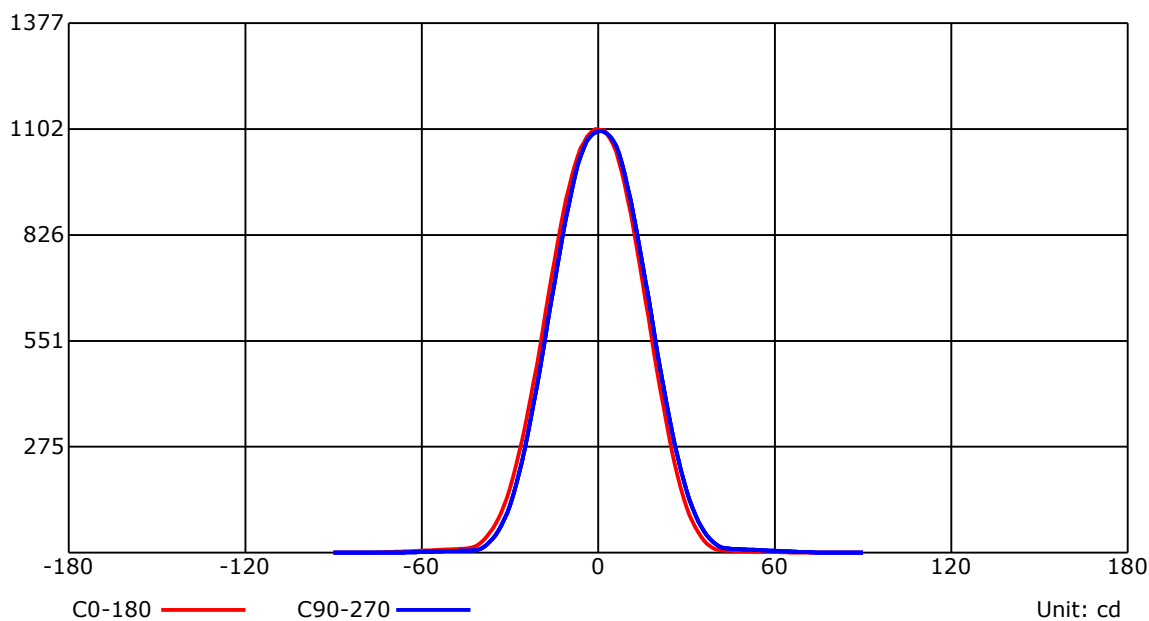
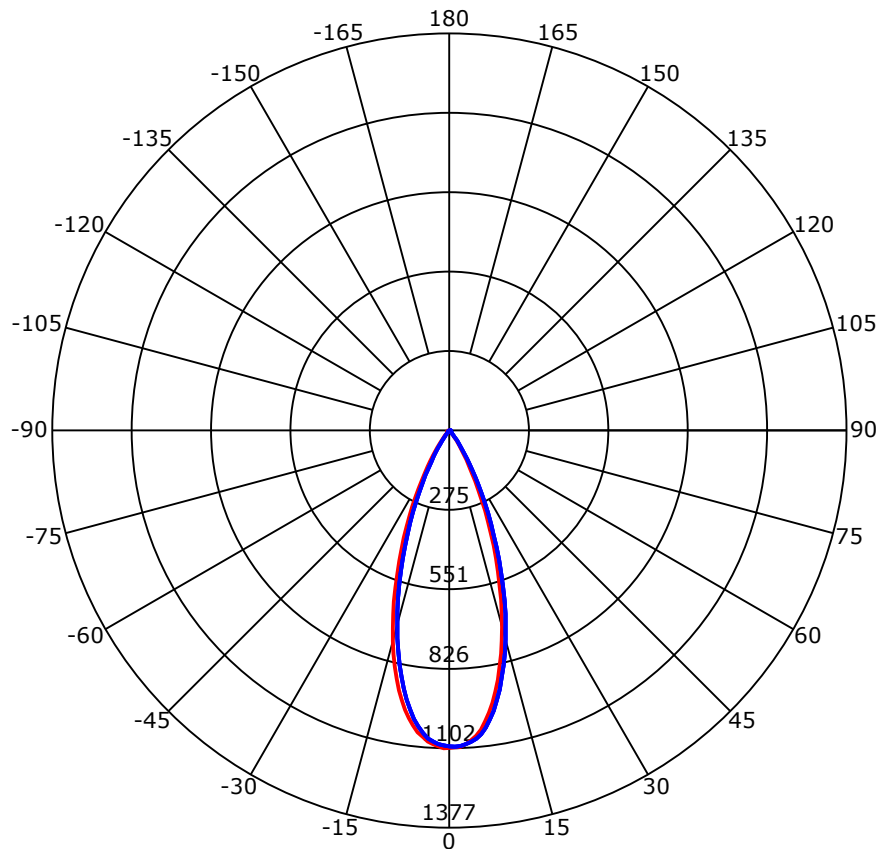
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:04:34

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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Luminous Intensity Distribution Curve



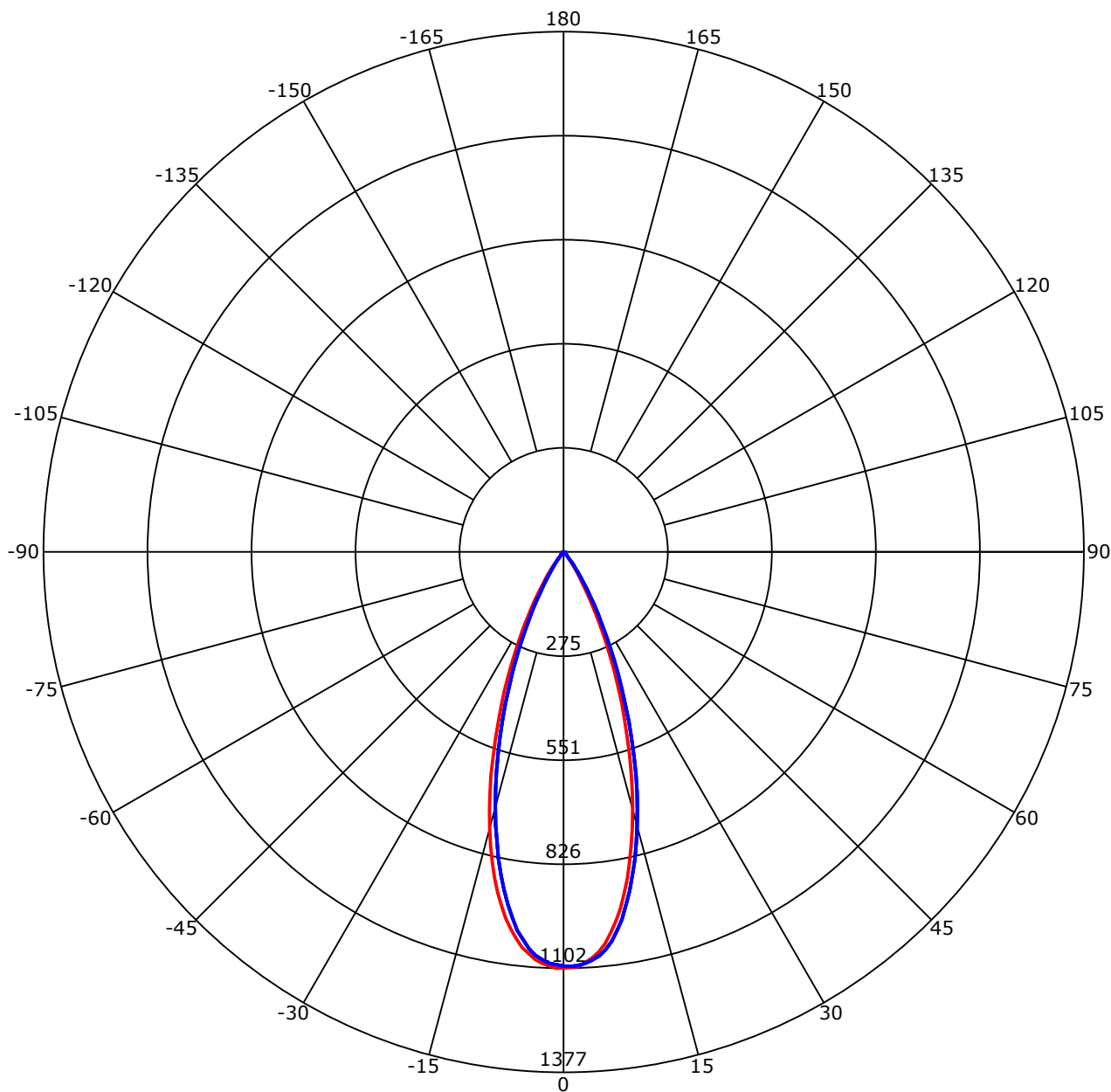
C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:04:34

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 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: 2025/6/19 17:04:34

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

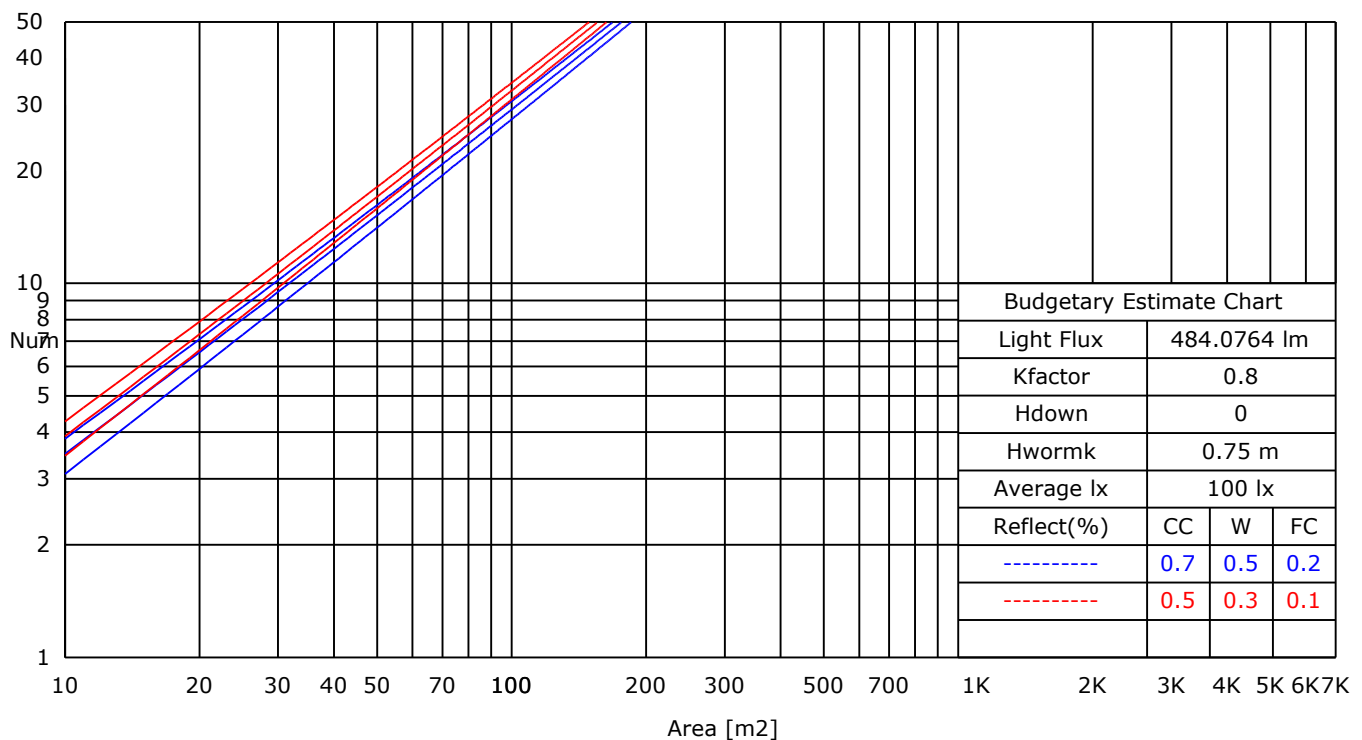
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



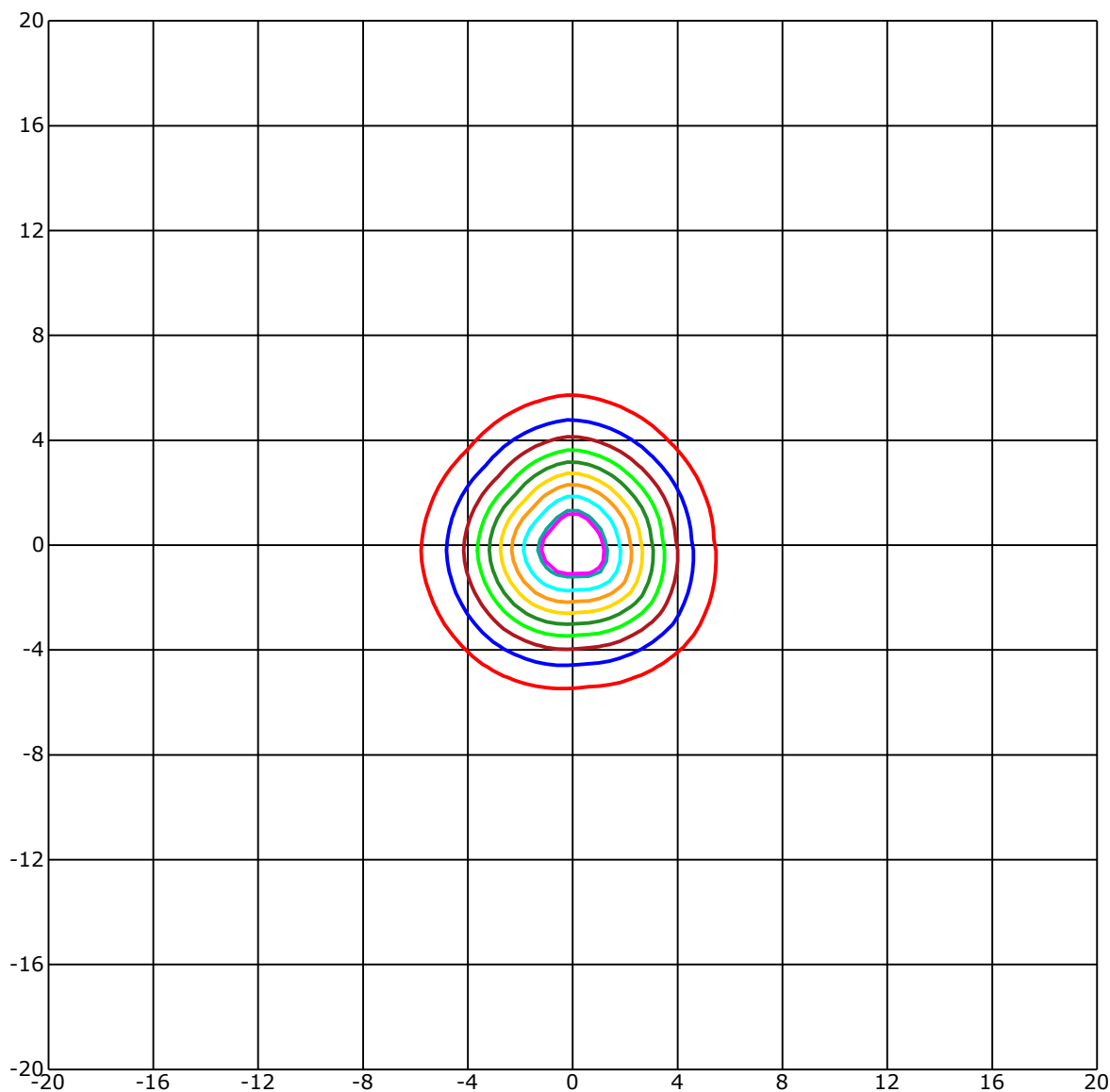
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:04:34

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



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

10.134(92%Emax)	5.507(50%Emax)
9.913(90%Emax)	4.406(40%Emax)
8.812(80%Emax)	3.304(30%Emax)
7.71(70%Emax)	2.203(20%Emax)
6.609(60%Emax)	1.101(10%Emax)

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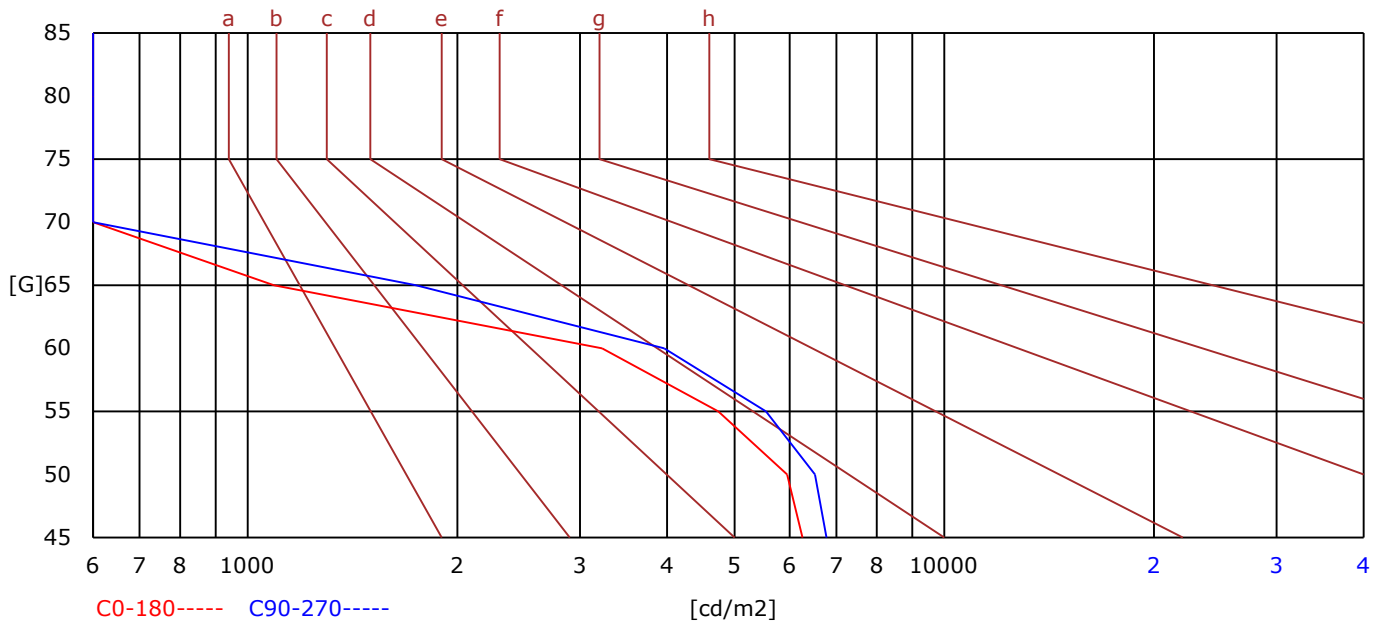
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6257	5951	4741	3226	1091	0	0	0	0
C90	6779	6525	5545	3964	1745	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



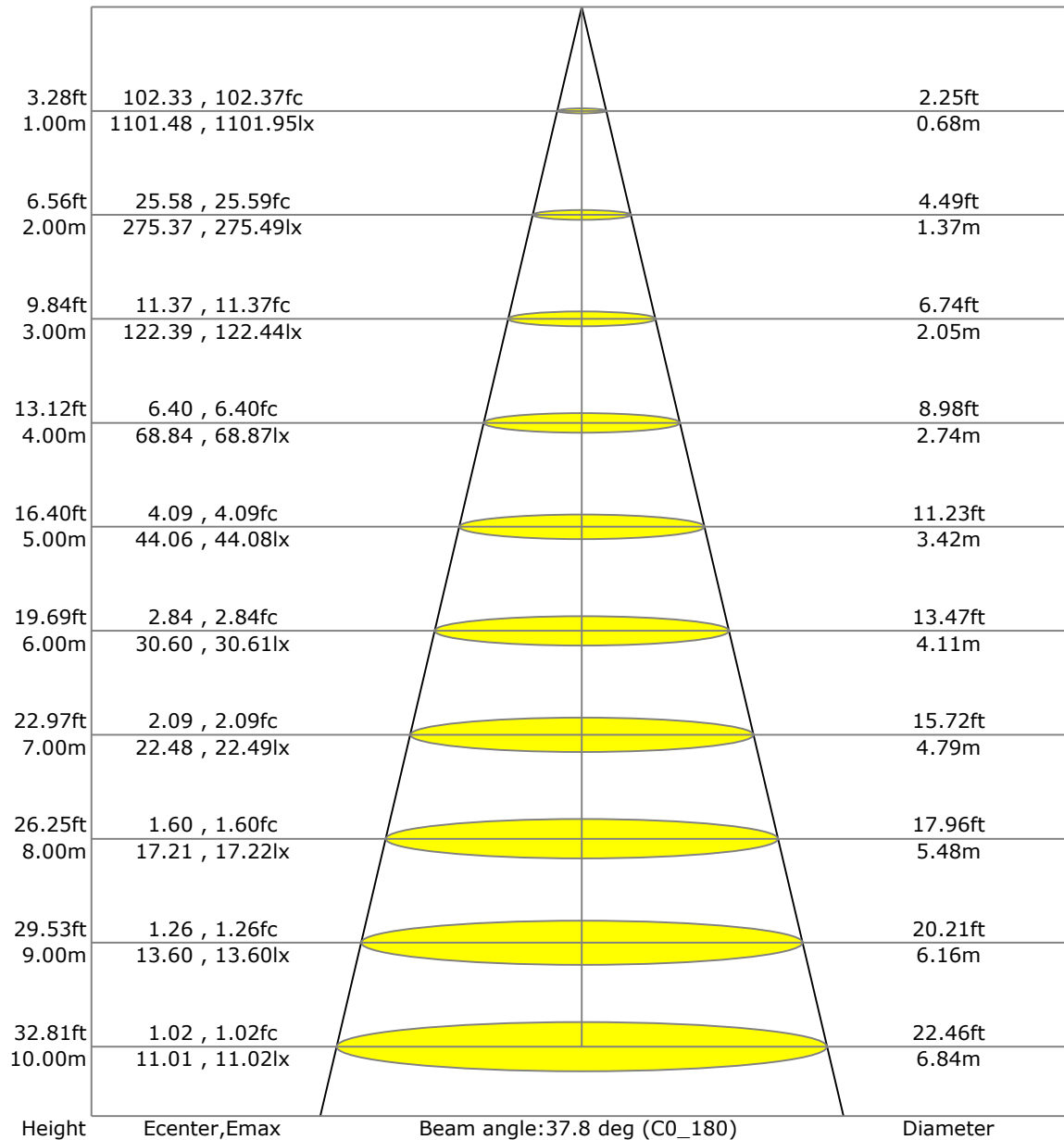
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:04:34

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/19 17:04:34

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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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	11.53	11.58	11.73	11.77	12.01	11.90	11.95	12.10	12.14	12.38
3H	11.52	11.57	11.72	11.76	12.01	11.88	11.93	12.08	12.12	12.37
4H	11.50	11.55	11.71	11.75	12.00	11.86	11.91	12.07	12.11	12.36
6H	11.49	11.54	11.70	11.74	11.99	11.85	11.90	12.06	12.10	12.35
8H	11.48	11.53	11.70	11.74	11.99	11.84	11.89	12.06	12.10	12.35
12H	11.47	11.52	11.69	11.73	11.98	11.83	11.88	12.05	12.09	12.34
4H 2H	11.51	11.56	11.72	11.75	12.00	12.10	12.15	12.31	12.34	12.59
3H	11.48	11.54	11.71	11.74	12.00	12.07	12.12	12.29	12.32	12.58
4H	11.47	11.52	11.69	11.73	11.99	12.05	12.10	12.28	12.31	12.57
6H	11.44	11.50	11.68	11.72	11.98	12.03	12.08	12.26	12.30	12.56
8H	11.43	11.48	11.68	11.71	11.98	12.01	12.06	12.26	12.29	12.56
12H	11.42	11.47	11.67	11.70	11.97	12.00	12.05	12.25	12.28	12.55
8H 4H	11.48	11.54	11.70	11.74	11.99	12.07	12.13	12.29	12.33	12.58
6H	11.41	11.46	11.66	11.69	11.97	11.99	12.04	12.24	12.27	12.55
8H	11.39	11.44	11.65	11.69	11.96	11.97	12.02	12.24	12.27	12.54
12H	11.38	11.42	11.65	11.68	11.96	11.96	12.00	12.23	12.26	12.54
12H 4H	11.42	11.47	11.67	11.70	11.97	12.00	12.05	12.25	12.28	12.55
6H	11.39	11.44	11.65	11.69	11.96	11.97	12.02	12.24	12.27	12.54

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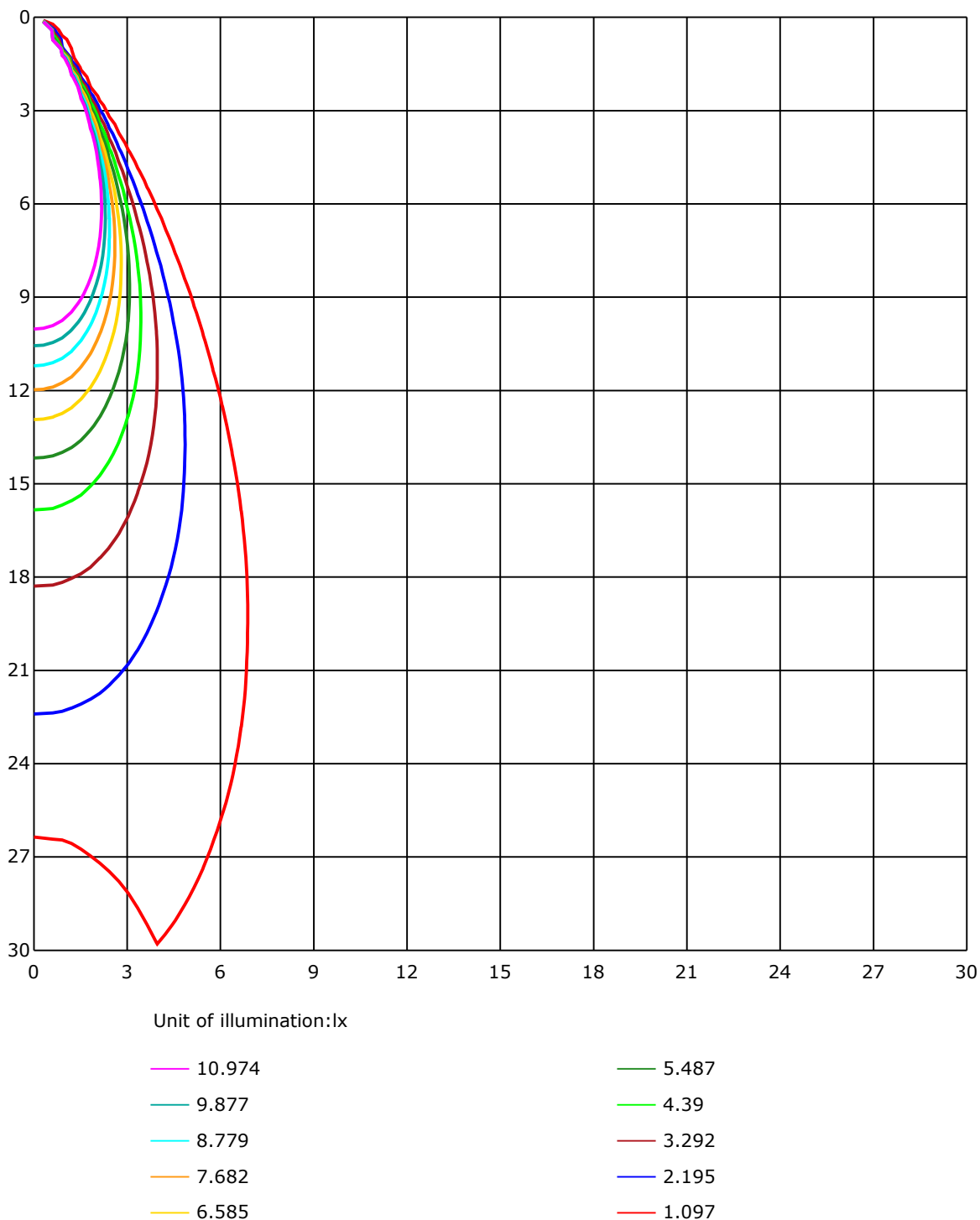
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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: 2025/6/19 17:04:34

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: 2025/6/19 17:04:34

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1101.48	1094.02	1095.96	1096.48	1101.48	1094.02	1095.96	1096.48	1101.48	
G1	1099.45	1092.14	1096.62	1093.03	1101.95	1094.83	1092.56	1100.11	1099.45	
G2	1098.79	1088.27	1094.92	1082.6	1096.86	1090.82	1088.88	1100.07	1098.79	
G3	1088.93	1079.68	1089.73	1073.4	1089.82	1085.34	1080.62	1098.84	1088.93	
G4	1076.8	1068.92	1082.74	1057.82	1081.52	1077.18	1070.43	1094.45	1076.8	
G5	1062.59	1052.44	1073.12	1041.07	1066.56	1065.33	1053.01	1089.87	1062.59	
G6	1043.34	1034.08	1058.82	1016.67	1052.96	1049.47	1031.44	1075.29	1043.34	
G7	1016.43	1006.8	1038.95	990.76	1031.44	1028.04	1008.41	1058.63	1016.43	
G8	988.59	977.92	1012.56	957.15	1007.65	1003.31	977.64	1035.5	988.59	
G9	956.49	948.19	984.76	923.36	981.27	975.14	945.02	1011.76	956.49	
G10	919.96	912.32	949.27	887.35	950.36	944.5	907.93	978.11	919.96	
G11	881.07	873.99	915.24	849.69	917.74	908.54	870.07	944.41	881.07	
G12	838.5	833.97	875.22	808.62	880.74	873.61	830.1	906.61	838.5	
G13	795.17	789.7	836.19	766.43	841.28	832.69	786.11	868.23	795.17	
G14	752.55	744.2	794.7	721.07	800.74	792.39	743.92	825.33	752.55	
G15	706.21	697.76	751.99	677.18	757.46	749.82	698.8	783.19	706.21	
G16	659.29	652.03	708.76	631.12	712.11	706.77	652.97	738.54	659.29	
G17	612.76	606.1	664.91	584.25	667.22	662.64	609.12	694.79	612.76	
G18	563.72	561.08	619.22	537.53	622.81	618.52	561.17	648.77	563.72	
G19	515.96	514.21	571.79	494.29	574.67	571.98	516.71	602.19	515.96	
G20	471.45	470.98	524.36	449.74	529.08	526.29	472.02	556.17	471.45	
G21	427.89	425.81	481.64	409.48	485.04	481.27	430.25	510.91	427.89	
G22	385.32	383.29	436.71	369.79	444.41	438.36	387.16	465.74	385.32	
G23	343.69	342.7	395.09	332.22	403.68	395.65	347.42	421.23	343.69	
G24	303.38	303.52	355.53	296.11	364.88	355.82	308.48	378.9	303.38	
G25	265.15	265.91	318.3	263.03	327.03	319.1	271.81	339.06	265.15	
G26	230.56	230.79	281.48	229.75	291.77	283.56	237.26	299.18	230.56	
G27	196.62	198.46	247.55	199.64	257.27	249.81	204.6	262.84	196.62	
G28	167.93	170.38	216.02	172.93	225.55	217.44	175.01	227.68	167.93	
G29	141.87	143.76	188.22	147.58	196.86	187.47	148.48	195.91	141.87	
G30	118.13	120.35	161.56	125.07	170.48	160.52	124.22	167.03	118.13	
G31	97.65	100.2	137.53	105.44	145.32	136.35	103.69	141.59	97.65	
G32	80.52	82.31	116.06	88.16	123.7	115.4	86.09	119.22	80.52	
G33	65.37	66.83	97.7	73.25	104.49	97.65	70.37	100.06	65.37	
G34	52.48	54.09	81.32	60.22	88.35	81.89	57.2	82.92	52.48	
G35	40.87	42.52	67.35	48.57	74.0	67.82	45.45	67.92	40.87	
G36	31.06	32.66	55.22	38.51	61.59	56.02	35.68	55.08	31.06	

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: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	22.8	24.5	44.46	29.88	50.88	45.31	27.37	44.22	22.8	
G38	16.66	17.7	35.54	22.37	40.78	36.72	20.15	35.02	16.66	
G39	11.85	12.55	27.85	16.38	32.61	29.21	14.73	27.23	11.85	
G40	8.68	8.92	21.57	11.66	25.86	23.08	10.57	21.05	8.68	
G41	6.75	6.37	16.9	8.12	20.48	18.03	7.65	16.52	6.75	
G42	5.81	5.43	13.55	6.23	16.24	14.4	6.28	13.59	5.81	
G43	5.29	4.91	11.7	5.38	13.31	12.41	5.76	12.04	5.29	
G44	5.1	4.63	10.67	5.05	11.85	11.14	5.38	11.14	5.1	
G45	4.81	4.53	10.24	4.91	10.9	10.57	5.19	10.52	4.81	
G46	4.72	4.29	9.72	4.72	10.34	10.24	4.96	10.24	4.72	
G47	4.58	4.34	9.3	4.72	9.82	9.77	4.86	9.63	4.58	
G48	4.48	4.29	9.01	4.63	9.44	9.49	4.77	9.34	4.48	
G49	4.29	3.92	8.73	4.58	9.16	9.01	4.67	9.01	4.29	
G50	4.29	3.92	8.31	4.29	8.87	8.64	4.44	8.68	4.29	
G51	3.92	3.68	8.02	4.11	8.59	8.4	4.29	8.45	3.92	
G52	3.73	3.63	7.65	3.96	8.17	8.21	4.01	8.12	3.73	
G53	3.54	3.3	7.41	3.78	7.93	7.79	3.73	7.74	3.54	
G54	3.4	3.21	7.03	3.49	7.69	7.36	3.59	7.27	3.4	
G55	2.93	2.78	6.7	3.26	7.22	7.13	3.35	6.94	2.93	
G56	2.64	2.55	6.37	2.97	6.99	6.61	3.02	6.51	2.64	
G57	2.45	2.27	5.9	2.74	6.47	6.23	2.74	6.23	2.45	
G58	2.31	2.08	5.62	2.6	6.14	5.95	2.55	5.76	2.31	
G59	1.98	1.84	5.19	2.31	5.76	5.57	2.36	5.47	1.98	
G60	1.79	1.65	4.86	2.03	5.29	5.1	1.94	4.96	1.79	
G61	1.51	1.37	4.48	1.89	5.0	4.81	1.7	4.77	1.51	
G62	1.23	1.13	4.25	1.51	4.72	4.53	1.42	4.29	1.23	
G63	0.99	0.8	3.87	1.27	4.34	4.11	1.23	3.92	0.99	
G64	0.8	0.66	3.4	0.94	3.92	3.92	0.9	3.54	0.8	
G65	0.52	0.47	3.16	0.76	3.63	3.63	0.8	3.3	0.52	
G66	0.28	0.28	3.02	0.47	3.3	3.21	0.42	2.93	0.28	
G67	0.09	0.0	2.6	0.28	3.07	2.78	0.24	2.55	0.09	
G68	0.0	0.0	2.27	0.0	2.74	2.41	0.0	2.31	0.0	
G69	0.0	0.0	2.08	0.0	2.36	2.03	0.0	2.08	0.0	
G70	0.0	0.0	1.6	0.0	2.12	1.84	0.0	1.7	0.0	
G71	0.0	0.0	1.51	0.0	1.84	1.7	0.0	1.51	0.0	
G72	0.0	0.0	1.13	0.0	1.56	1.27	0.0	1.27	0.0	
G73	0.0	0.0	0.85	0.0	1.23	0.99	0.0	0.99	0.0	

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Humidity: 60
Test Distance: 6.87 m
Remarks:

[illegible]

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: