

Report No.:

Test Time: 2025/7/17 11:03:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H90-60°-15W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

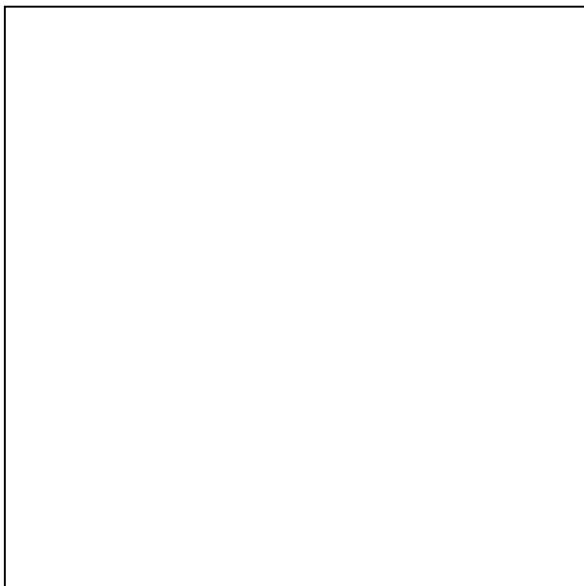
Voltage(V): 219.80 V
Current(A): 0.0720 A
Power(W): 15.19 W
Power Factor: 0.9520
Lamp Luminous Flux: 1048.66

Photometric Results

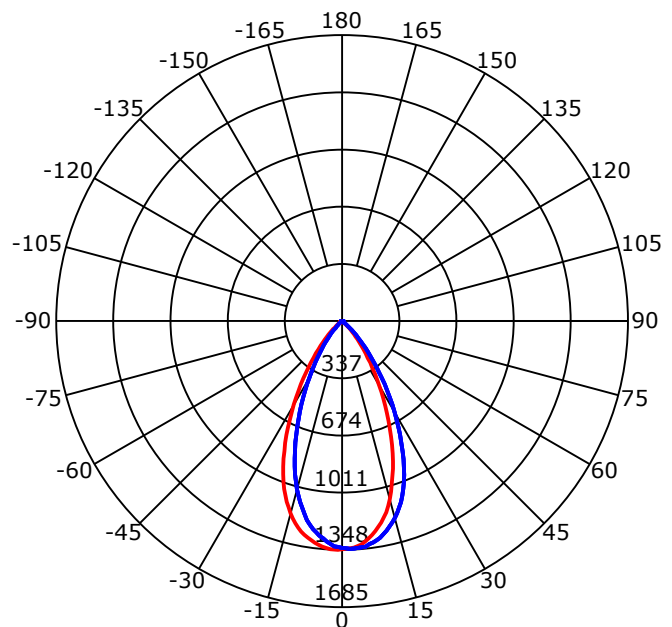
CIE Class: Direct
Luminaire Luminous Flux: 1048.66 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 69.05 lm/W
Beam Angle(50%) C0-180,C90-270: 52.1,51.9
Field Angle(10%) C0-180,C90-270: 84.0,83.2
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 1348.32 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1344.07 cd
Effective Luminous Flux: 981.18 lm
ERP(ϕ use)(120deg): 1037.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.1 deg,51.9 deg

C0-180 — C90-270 —

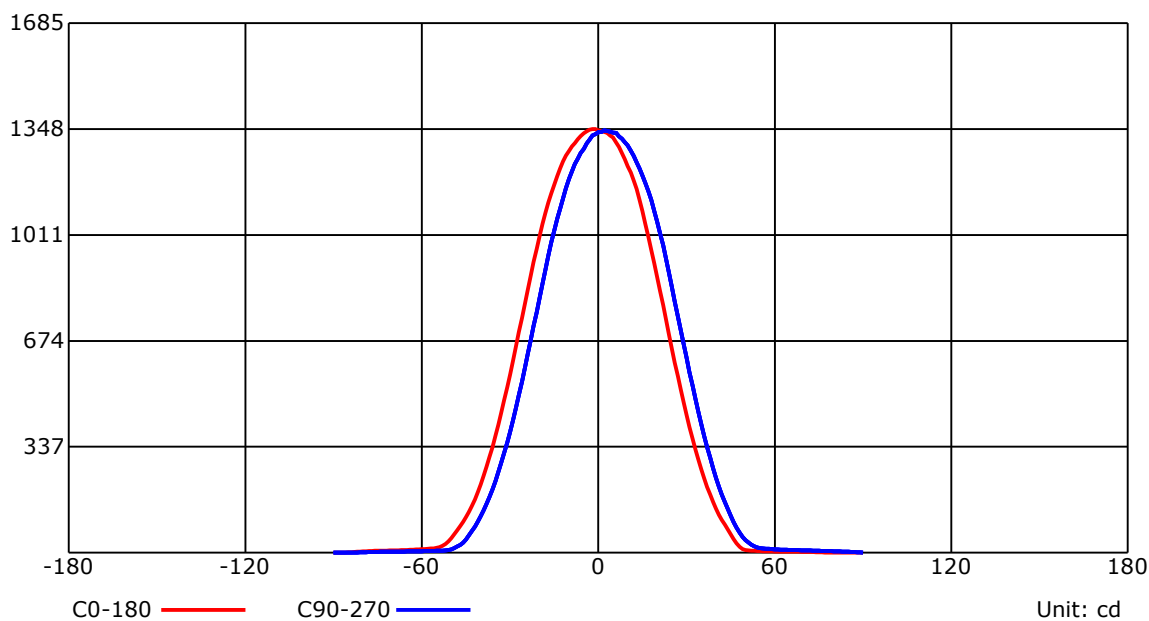
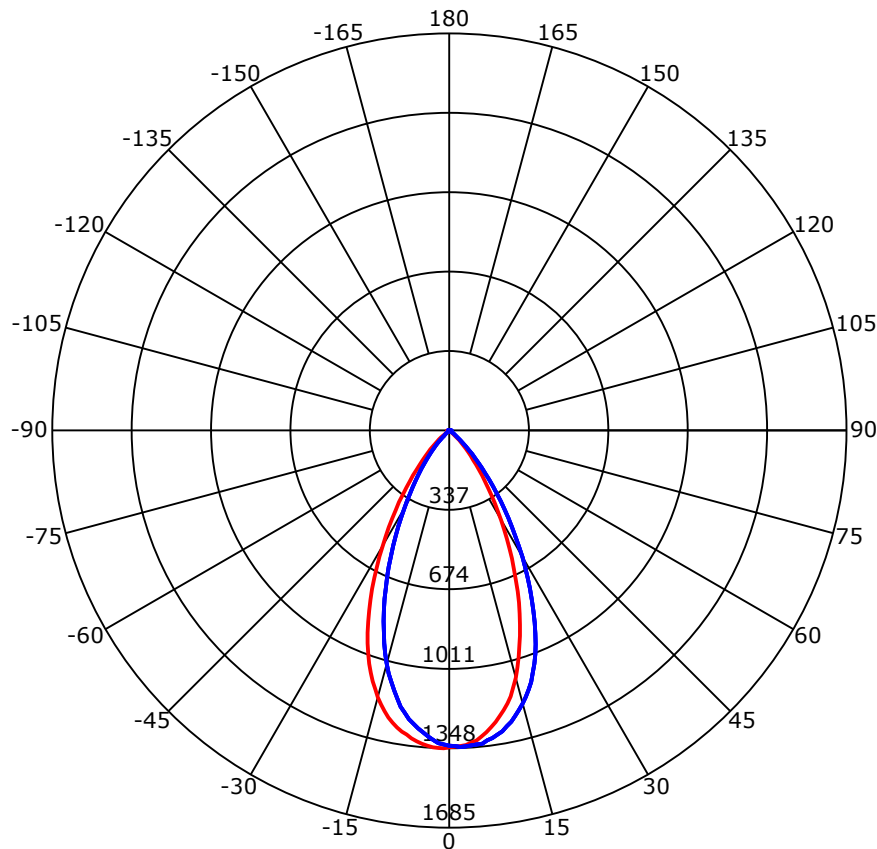
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:03:03

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



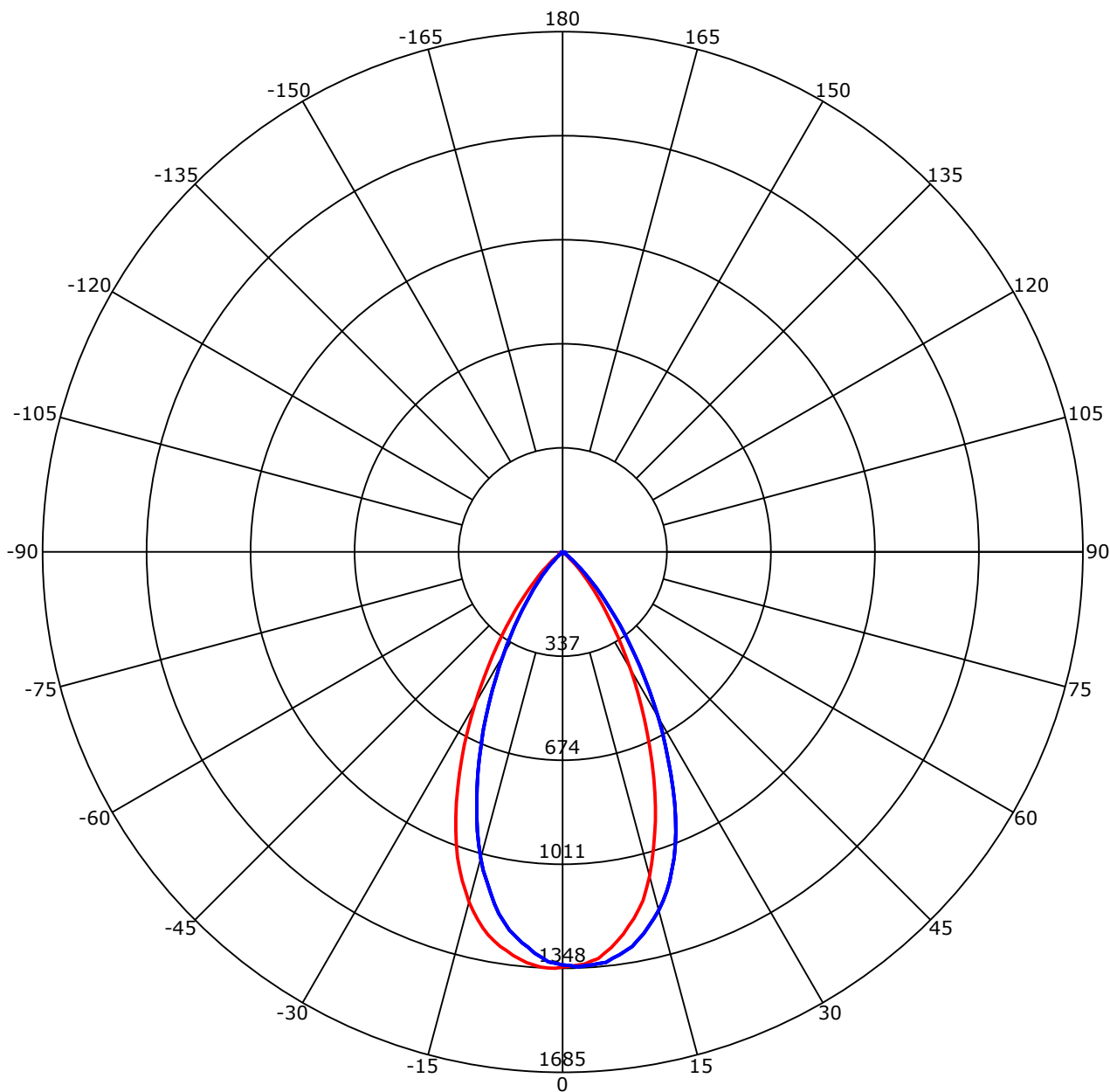
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:03:03

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: 2025/7/17 11:03:03

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

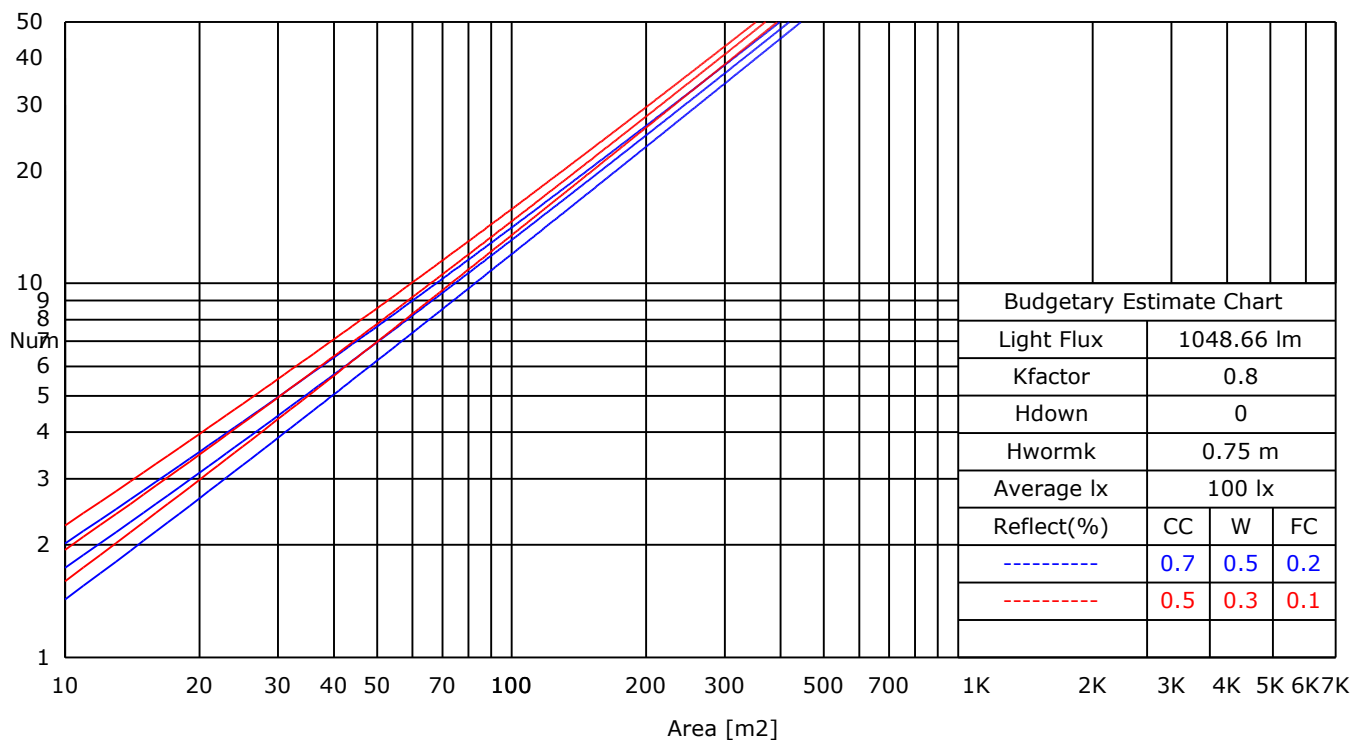
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UTILIZATION FACTORS TABLE

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	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	1.07	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.76
3	0.96	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	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	0.81	0.80	0.82	0.80	0.78	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.64	0.61
9	0.77	0.76	0.75	0.76	0.75	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.62	0.59
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



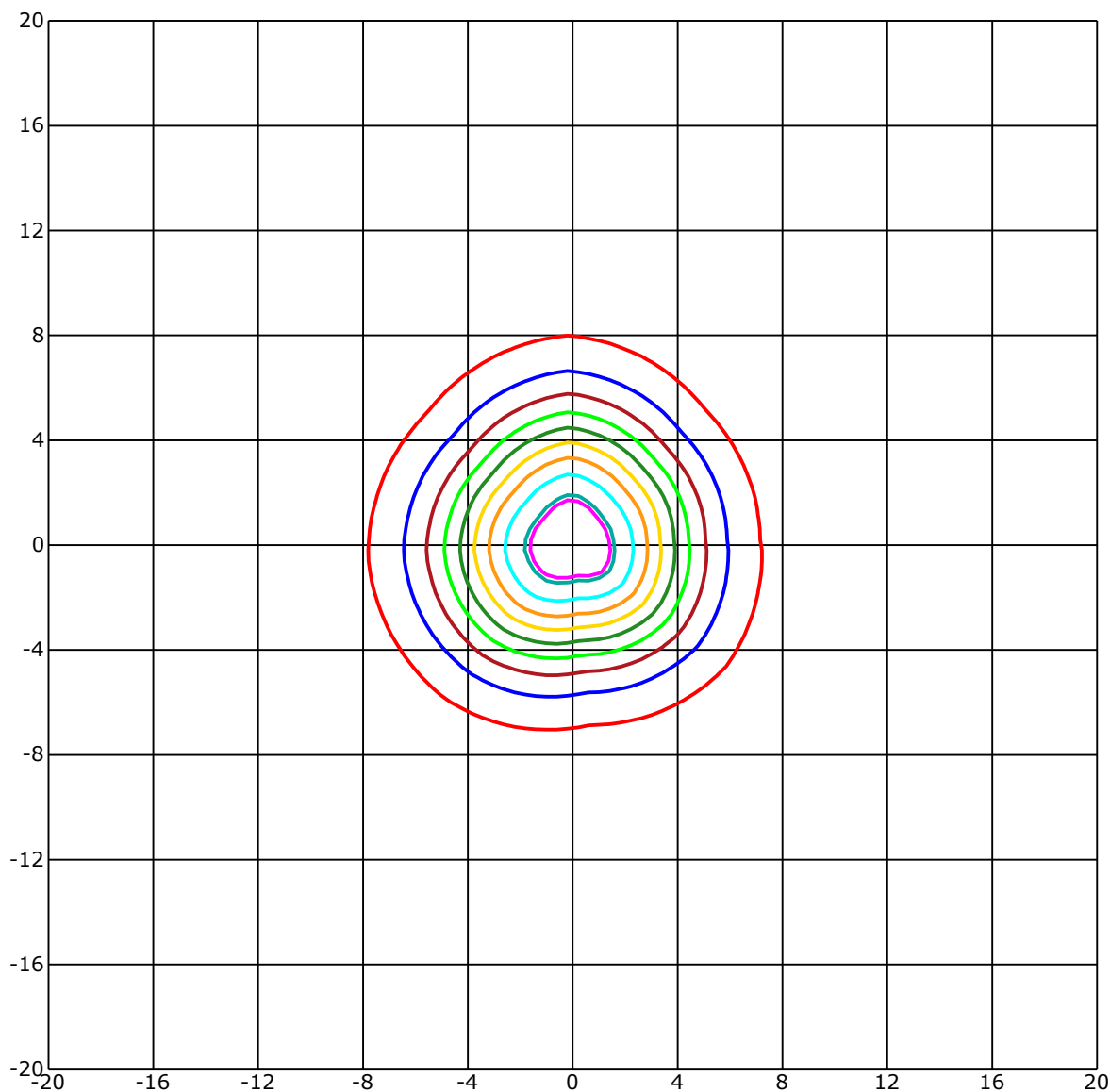
C Range: 0 - 360 Deg
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

12.399(92%Emax)	6.739(50%Emax)
12.129(90%Emax)	5.391(40%Emax)
10.782(80%Emax)	4.043(30%Emax)
9.434(70%Emax)	2.695(20%Emax)
8.086(60%Emax)	1.348(10%Emax)

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Operators: QC01
Test Date: 2025/7/17 11:03:03

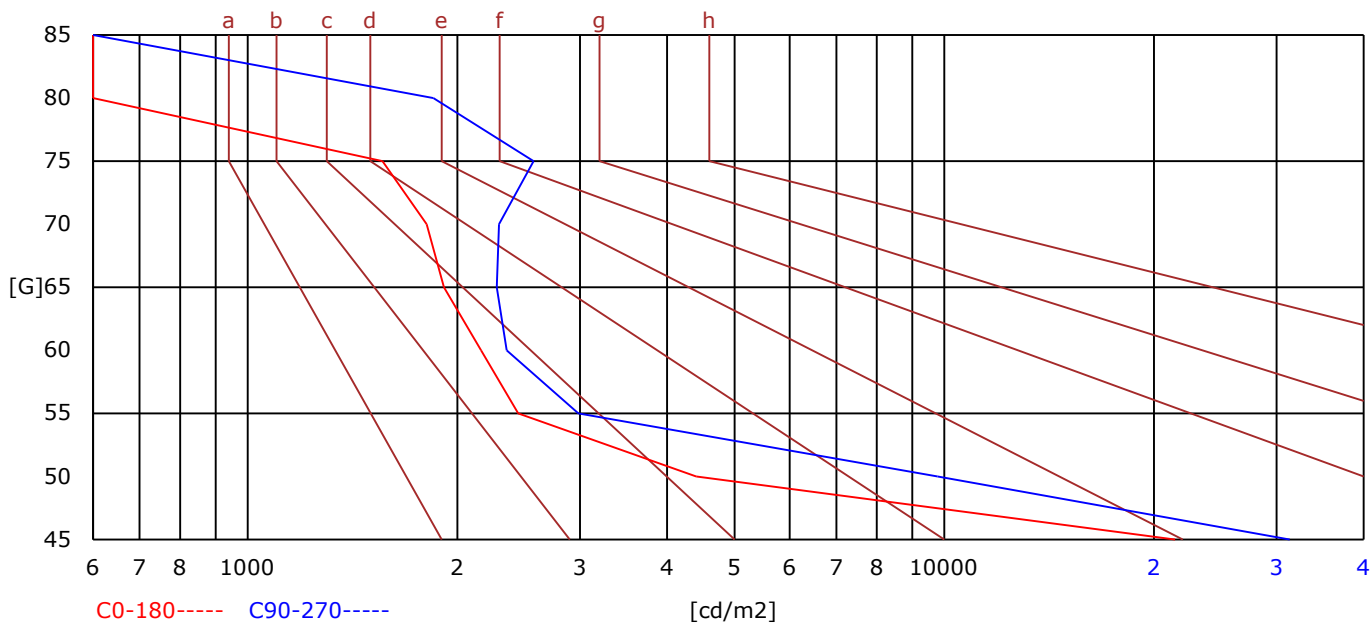
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	21442	4403	2446	2164	1913	1808	1562	68	0
C90	31313	9786	2985	2354	2279	2295	2573	1849	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



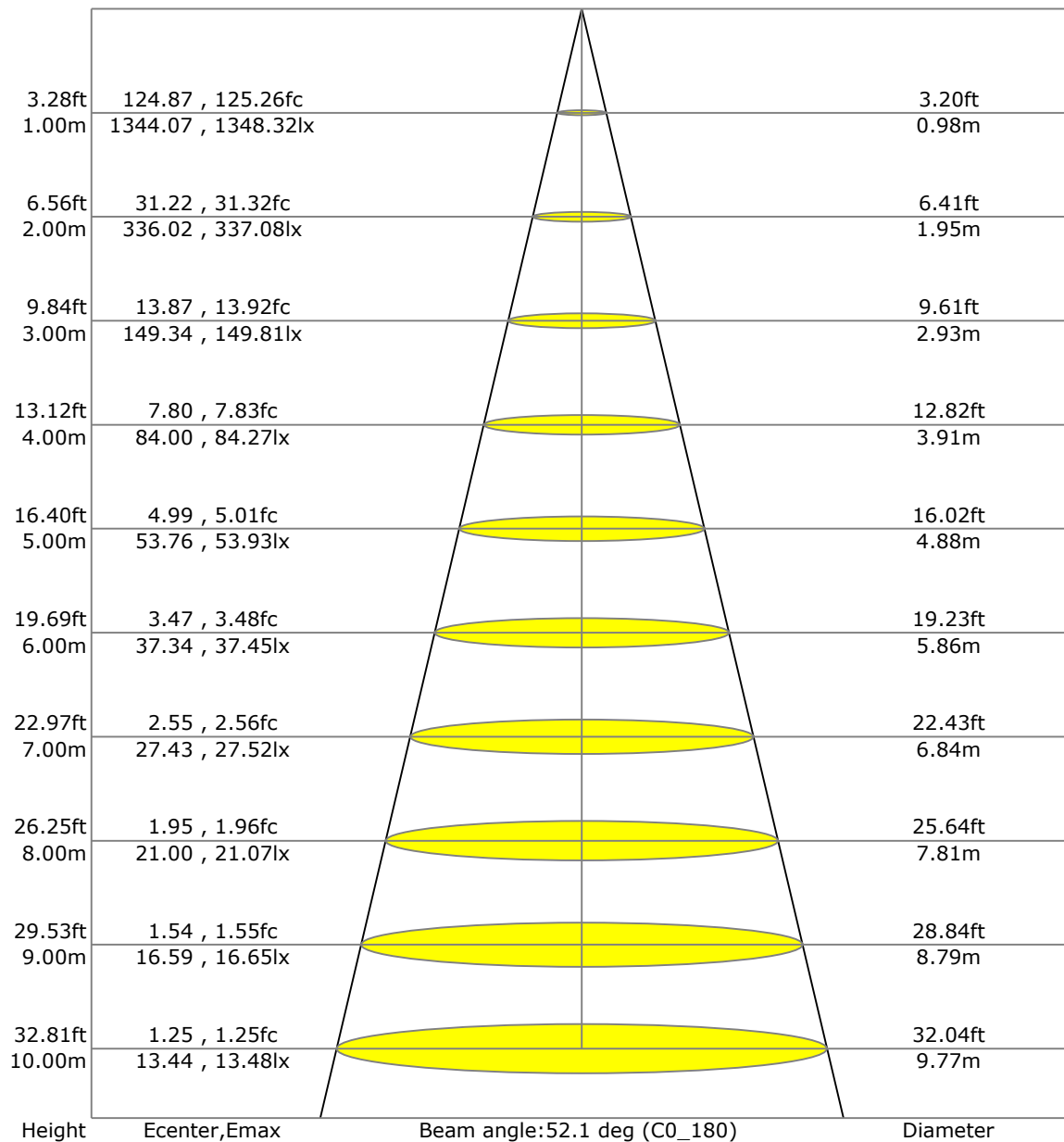
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:03:03

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: 2025/7/17 11:03:03

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

UGR(Unified Glare Rating) TABLE

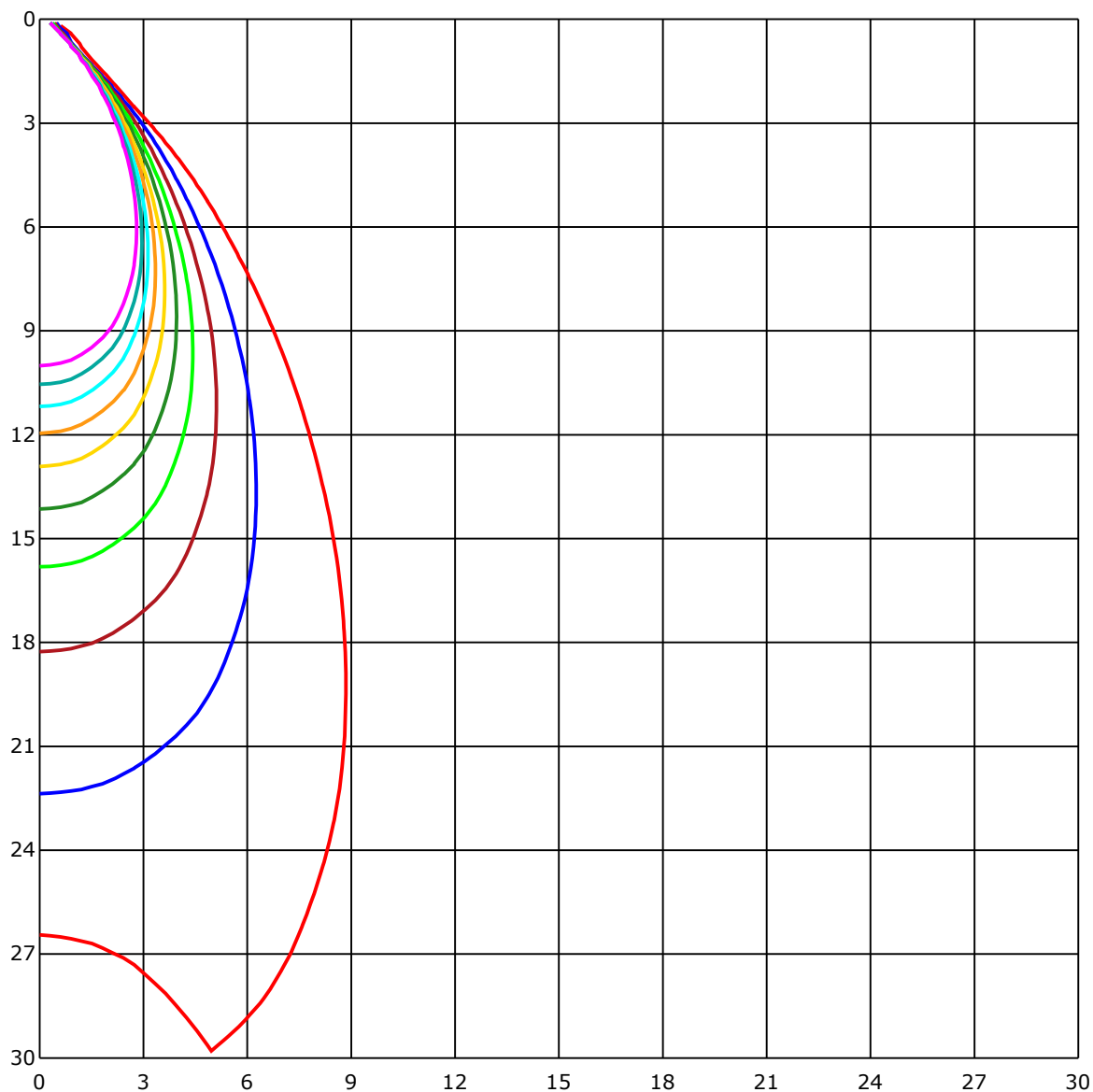
RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H 2H		14.78	14.83	14.98	15.02	15.26	14.99	15.05	15.19	15.23	15.48
3H		14.76	14.81	14.96	15.00	15.25	14.97	15.02	15.17	15.21	15.46
4H		14.74	14.79	14.95	14.99	15.24	14.95	15.00	15.16	15.20	15.45
6H		14.72	14.78	14.94	14.98	15.23	14.93	14.99	15.15	15.19	15.44
8H		14.71	14.77	14.93	14.97	15.22	14.92	14.98	15.14	15.18	15.43
12H		14.71	14.76	14.93	14.96	15.22	14.91	14.97	15.14	15.17	15.43
4H 2H		14.76	14.81	14.97	15.01	15.26	15.07	15.12	15.28	15.32	15.57
3H		14.73	14.79	14.96	14.99	15.25	15.05	15.10	15.27	15.30	15.56
4H		14.72	14.77	14.95	14.98	15.24	15.02	15.07	15.25	15.29	15.55
6H		14.70	14.74	14.93	14.96	15.23	15.00	15.05	15.24	15.27	15.53
8H		14.68	14.73	14.93	14.96	15.22	14.99	15.04	15.23	15.26	15.53
12H		14.67	14.72	14.92	14.95	15.22	14.97	15.02	15.22	15.25	15.52
8H 4H		14.74	14.79	14.95	14.99	15.24	15.14	15.20	15.36	15.40	15.65
6H		14.65	14.70	14.91	14.94	15.21	15.08	15.13	15.34	15.37	15.64
8H		14.64	14.68	14.90	14.93	15.20	15.07	15.11	15.33	15.35	15.63
12H		14.62	14.66	14.89	14.92	15.20	15.05	15.09	15.32	15.34	15.62
12H 4H		14.67	14.71	14.92	14.94	15.21	15.16	15.21	15.41	15.44	15.71
6H		14.64	14.68	14.90	14.93	15.20	15.14	15.18	15.40	15.43	15.70

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SPACE ISOLX DIAGRAM



13.435	6.718
12.092	5.374
10.748	4.031
9.405	2.687
8.061	1.344

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1344.07	1338.03	1337.7	1344.97	1344.07	1338.03	1337.7	1344.97	1344.07	
G1	1342.47	1334.87	1339.5	1345.35	1348.32	1340.82	1332.27	1343.37	1342.47	
G2	1339.45	1335.3	1344.17	1345.25	1347.9	1342.19	1328.17	1342.14	1339.45	
G3	1336.38	1325.67	1342.14	1343.41	1346.48	1338.27	1314.72	1337.8	1336.38	
G4	1328.22	1318.96	1340.49	1334.02	1341.01	1332.37	1302.35	1331.94	1328.22	
G5	1321.7	1310.89	1337.65	1326.89	1335.06	1323.31	1285.27	1325.71	1321.7	
G6	1305.89	1298.81	1336.52	1315.57	1325.53	1315.19	1272.15	1317.5	1305.89	
G7	1290.84	1284.32	1325.1	1301.88	1315.99	1300.42	1254.07	1307.02	1290.84	
G8	1272.1	1270.64	1317.93	1285.69	1303.67	1290.32	1236.89	1293.62	1272.1	
G9	1252.94	1252.61	1307.07	1270.82	1293.48	1274.27	1213.57	1278.8	1252.94	
G10	1230.61	1232.55	1296.88	1251.24	1279.23	1262.42	1189.98	1259.5	1230.61	
G11	1209.56	1208.43	1279.18	1233.63	1263.79	1241.37	1159.91	1238.87	1209.56	
G12	1184.17	1184.45	1263.23	1209.75	1245.43	1217.96	1127.68	1212.06	1184.17	
G13	1157.88	1159.3	1242.88	1186.91	1222.82	1196.77	1094.31	1187.29	1157.88	
G14	1122.77	1130.22	1222.64	1160.67	1198.09	1173.03	1063.21	1156.89	1122.77	
G15	1087.46	1098.08	1200.83	1135.37	1172.61	1147.12	1026.01	1125.69	1087.46	
G16	1046.36	1063.72	1176.81	1104.55	1142.31	1117.01	986.37	1089.45	1046.36	
G17	1004.44	1031.25	1150.0	1070.52	1113.52	1082.79	944.98	1051.5	1004.44	
G18	962.39	993.64	1121.78	1032.15	1081.19	1049.61	900.38	1013.6	962.39	
G19	921.47	949.04	1087.75	993.45	1046.59	1008.46	856.01	974.57	921.47	
G20	877.82	906.37	1054.28	949.88	1008.22	968.1	811.17	931.53	877.82	
G21	833.92	860.45	1016.76	905.66	967.3	925.58	765.82	887.77	833.92	
G22	787.48	814.05	978.2	860.31	925.34	886.03	721.4	842.46	787.48	
G23	741.42	766.52	934.78	816.88	880.88	839.4	676.33	797.53	741.42	
G24	693.89	721.45	891.36	770.96	836.75	793.14	632.58	750.24	693.89	
G25	649.34	675.06	845.58	726.27	792.34	746.8	588.03	704.6	649.34	
G26	604.64	629.7	798.9	679.07	747.13	704.37	544.27	659.39	604.64	
G27	561.31	584.16	751.33	634.8	702.62	659.58	501.18	616.2	561.31	
G28	519.21	540.97	707.67	591.71	656.65	616.96	460.97	571.98	519.21	
G29	478.44	499.72	663.49	548.43	611.62	575.0	422.46	530.87	478.44	
G30	438.7	457.39	620.83	505.34	567.78	533.42	385.6	491.13	438.7	
G31	399.99	417.98	574.2	466.16	526.62	489.15	350.58	451.86	399.99	
G32	362.43	381.68	530.78	428.45	485.04	446.39	317.64	413.68	362.43	
G33	327.69	345.48	488.77	391.64	445.35	408.58	286.3	378.85	327.69	
G34	295.74	310.7	447.85	356.86	407.36	373.85	257.18	344.73	295.74	
G35	265.15	278.23	408.73	322.64	371.82	338.45	227.82	311.92	265.15	
G36	236.79	247.45	371.11	290.31	336.66	305.36	201.63	281.15	236.79	

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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	209.55	218.8	336.14	260.24	304.04	274.83	177.04	252.93	209.55	
G38	184.3	191.81	302.01	232.49	273.27	246.79	154.81	226.12	184.3	
G39	161.32	167.69	268.31	205.26	244.67	220.69	134.37	201.58	161.32	
G40	140.13	145.56	238.11	180.24	217.34	195.73	116.43	178.17	140.13	
G41	120.82	125.02	209.88	157.97	192.52	171.8	99.49	156.69	120.82	
G42	103.74	106.67	184.63	137.2	169.67	150.51	83.26	137.15	103.74	
G43	88.45	90.05	160.75	119.17	148.53	131.11	68.11	119.46	88.45	
G44	73.44	75.04	139.14	102.79	130.17	113.84	55.22	103.6	73.44	
G45	57.96	60.18	117.1	87.88	113.65	98.78	41.86	89.25	57.96	
G46	42.71	46.58	97.51	73.16	98.26	85.52	32.0	74.76	42.71	
G47	29.4	34.6	79.67	59.18	84.34	72.16	24.83	61.4	29.4	
G48	18.83	24.31	63.1	46.11	70.51	59.89	19.35	48.8	18.83	
G49	11.8	16.42	50.69	34.88	58.19	48.66	14.4	38.09	11.8	
G50	8.17	11.23	40.45	24.97	46.16	38.75	10.43	29.03	8.17	
G51	7.03	8.31	32.57	17.46	35.78	29.92	8.07	22.47	7.03	
G52	6.42	6.99	26.01	11.7	27.42	23.17	7.13	18.08	6.42	
G53	5.95	6.47	20.48	8.54	21.19	18.55	6.61	15.48	5.95	
G54	5.38	6.14	16.66	7.17	17.18	15.81	6.37	14.21	5.38	
G55	5.05	5.57	14.68	6.8	15.06	14.3	6.09	13.45	5.05	
G56	4.72	5.14	13.55	6.23	13.92	13.4	5.71	12.46	4.72	
G57	4.53	4.91	12.79	5.85	13.17	12.65	5.38	11.75	4.53	
G58	4.39	4.72	12.13	5.38	12.37	12.27	5.19	11.19	4.39	
G59	4.01	4.39	11.37	5.05	11.75	11.42	4.86	10.67	4.01	
G60	3.78	4.29	10.81	4.67	11.09	10.95	4.67	10.24	3.78	
G61	3.63	4.11	10.24	4.53	10.62	10.38	4.34	9.77	3.63	
G62	3.54	3.87	9.91	4.34	10.19	10.1	4.34	9.25	3.54	
G63	3.3	3.68	9.39	4.34	9.53	9.53	4.15	9.01	3.3	
G64	3.16	3.49	9.11	4.15	9.16	9.2	3.96	8.54	3.16	
G65	3.11	3.21	8.68	3.82	8.83	8.78	3.96	8.21	3.11	
G66	3.07	3.07	8.59	3.78	8.35	8.59	3.78	7.83	3.07	
G67	2.93	2.97	8.17	3.63	8.17	8.21	3.59	7.6	2.93	
G68	2.97	2.78	7.98	3.4	7.83	7.98	3.59	7.22	2.97	
G69	2.69	2.5	7.6	3.4	7.46	7.55	3.4	6.89	2.69	
G70	2.5	2.45	7.36	3.11	7.32	7.32	3.4	6.7	2.5	
G71	2.5	2.36	7.03	3.07	7.03	6.94	3.21	6.51	2.5	
G72	2.17	2.31	6.94	3.02	6.8	6.75	3.07	6.18	2.17	
G73	2.03	2.03	6.61	2.93	6.7	6.65	2.97	5.9	2.03	

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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 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: 2025/7/17 11:03:03

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