

Report No.:

Test Time: 2025/5/8 17:56:52

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H48-45°-10W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

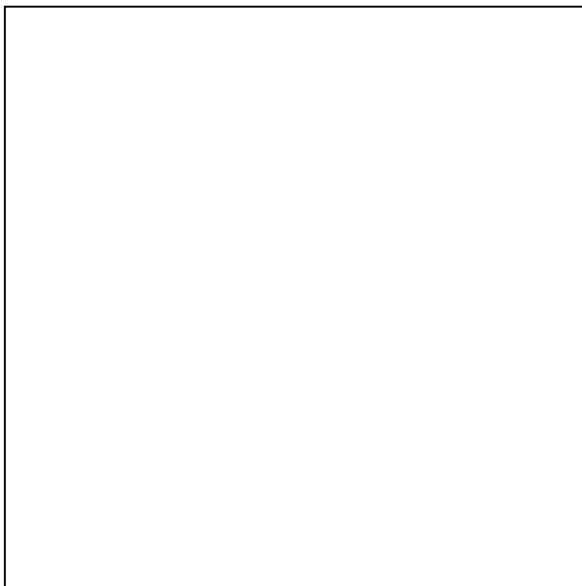
Voltage(V): 219.90 V
Current(A): 0.0510 A
Power(W): 10.42 W
Power Factor: 0.9150
Lamp Luminous Flux: 984.58

Photometric Results

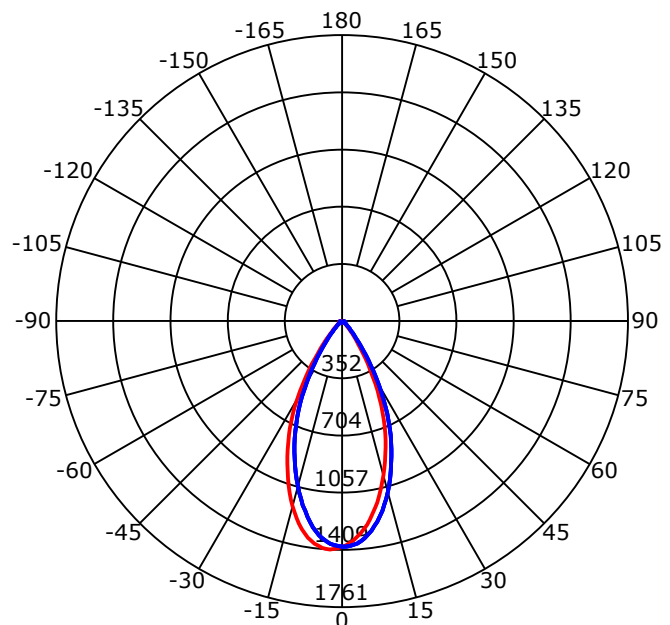
CIE Class: Direct
Luminaire Luminous Flux: 984.5754 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.49 lm/W
Beam Angle(50%) C0-180,C90-270: 48.5,48.7
Field Angle(10%) C0-180,C90-270: 77.5,78.2
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1408.69 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1390.94 cd
Effective Luminous Flux: 877.31 lm
ERP(ϕ use)(120deg): 959.00 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.5 deg,48.7 deg

C0-180 — C90-270 —

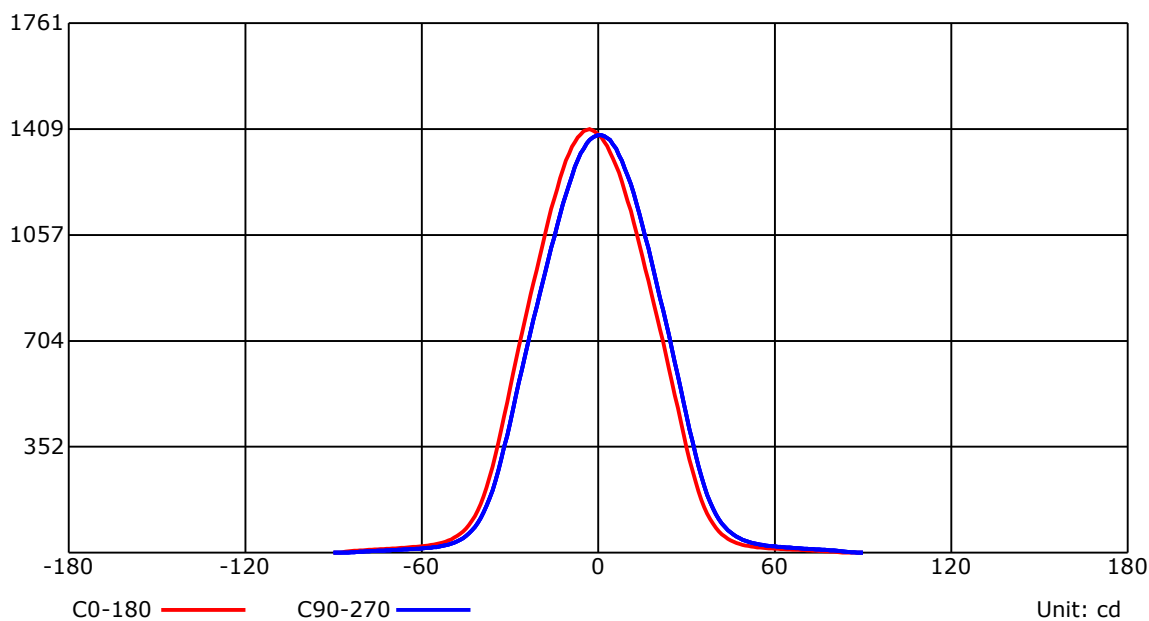
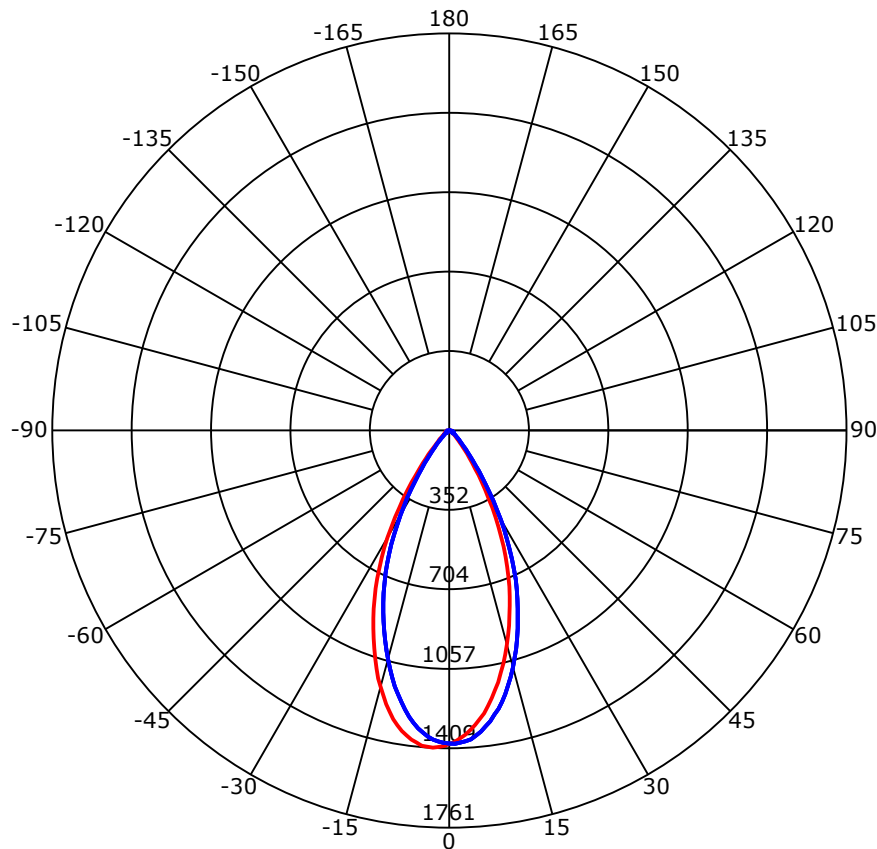
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:56:52

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: 2025/5/8 17:56:52

Luminous Intensity Distribution Curve



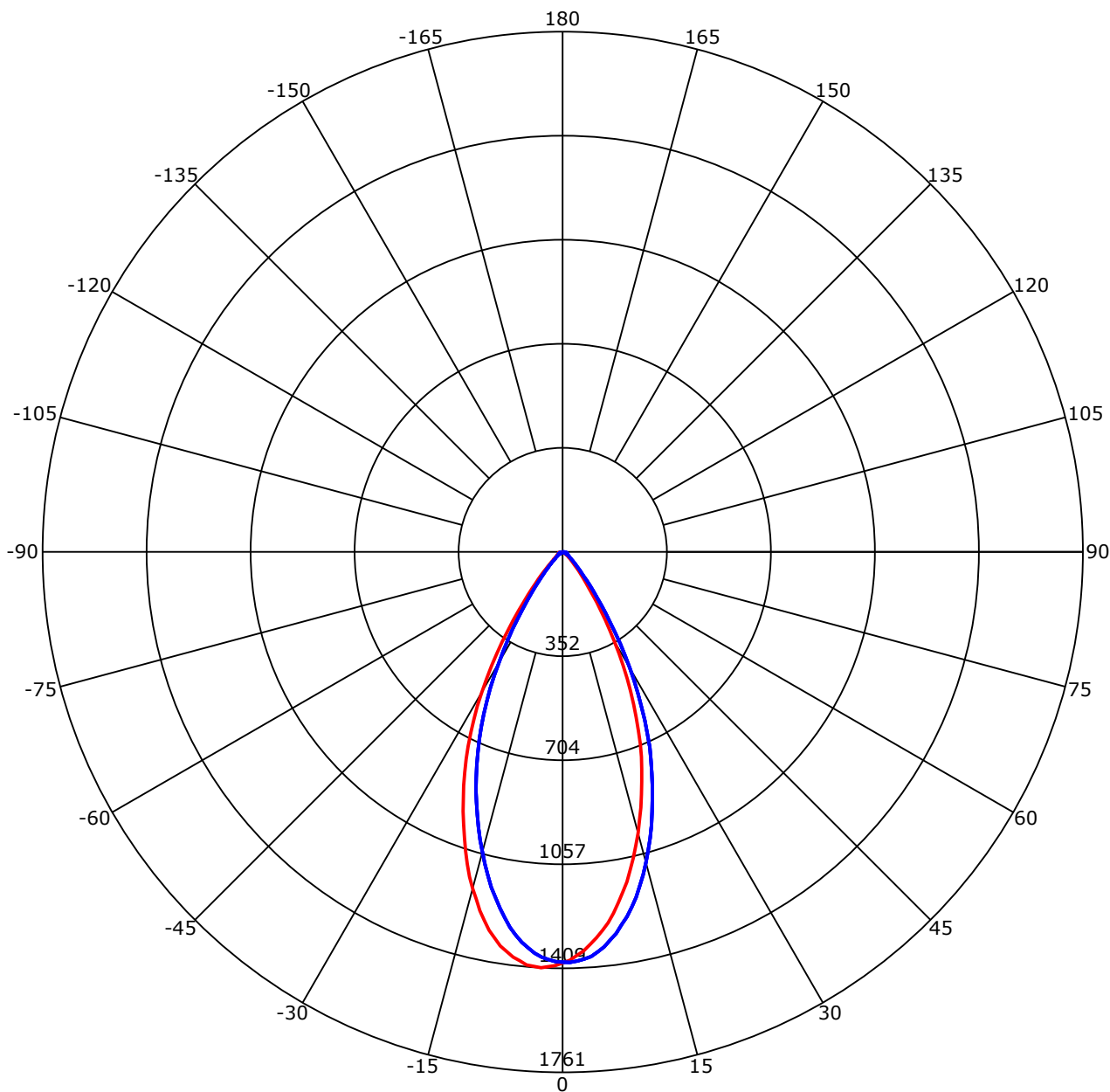
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:56:52

G Range: 0 - 90 Deg
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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: 2025/5/8 17:56:52

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

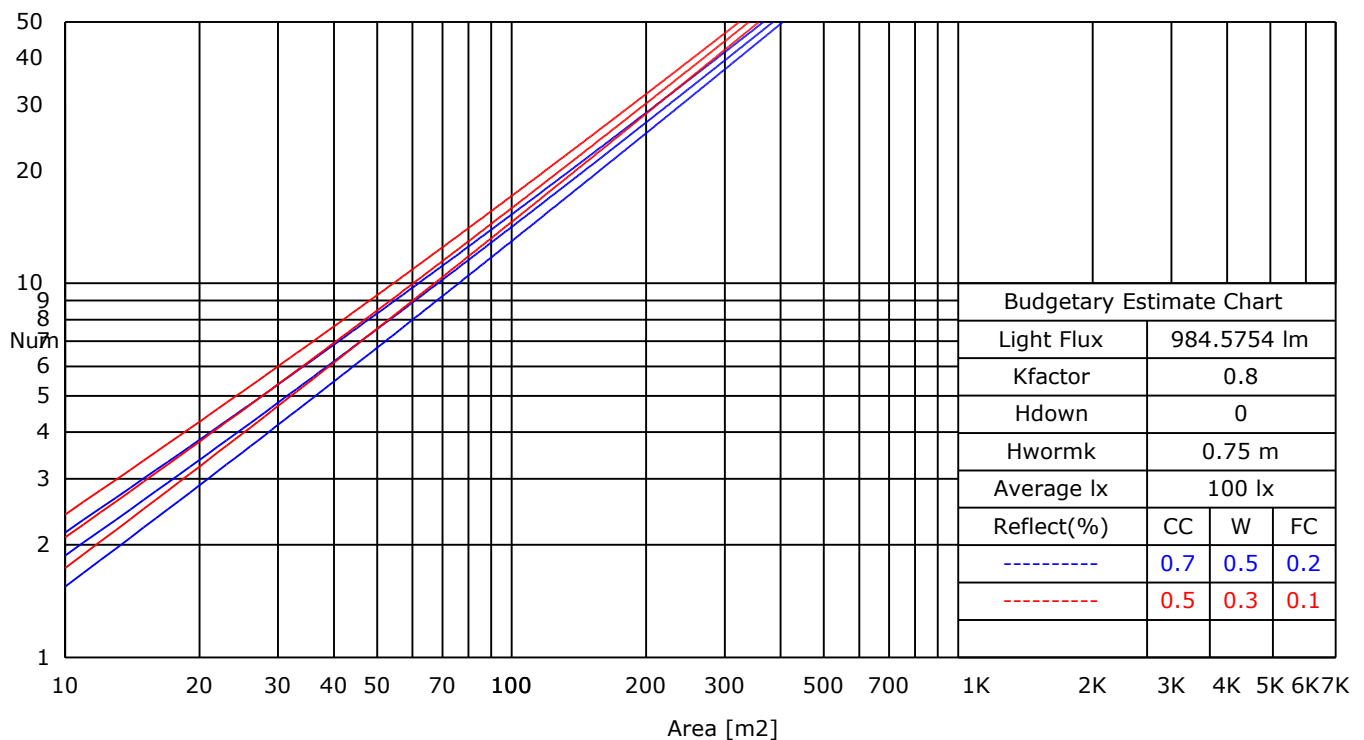
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UTILIZATION FACTORS TABLE

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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.86	0.83	0.78
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.80	0.75
3	0.95	0.93	0.92	0.94	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.91	0.89	0.88	0.90	0.87	0.86	0.87	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
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	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
8	0.78	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.67	0.63	0.60
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.69	0.71	0.68	0.65	0.69	0.65	0.61	0.58
10	0.74	0.72	0.72	0.73	0.71	0.70	0.71	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



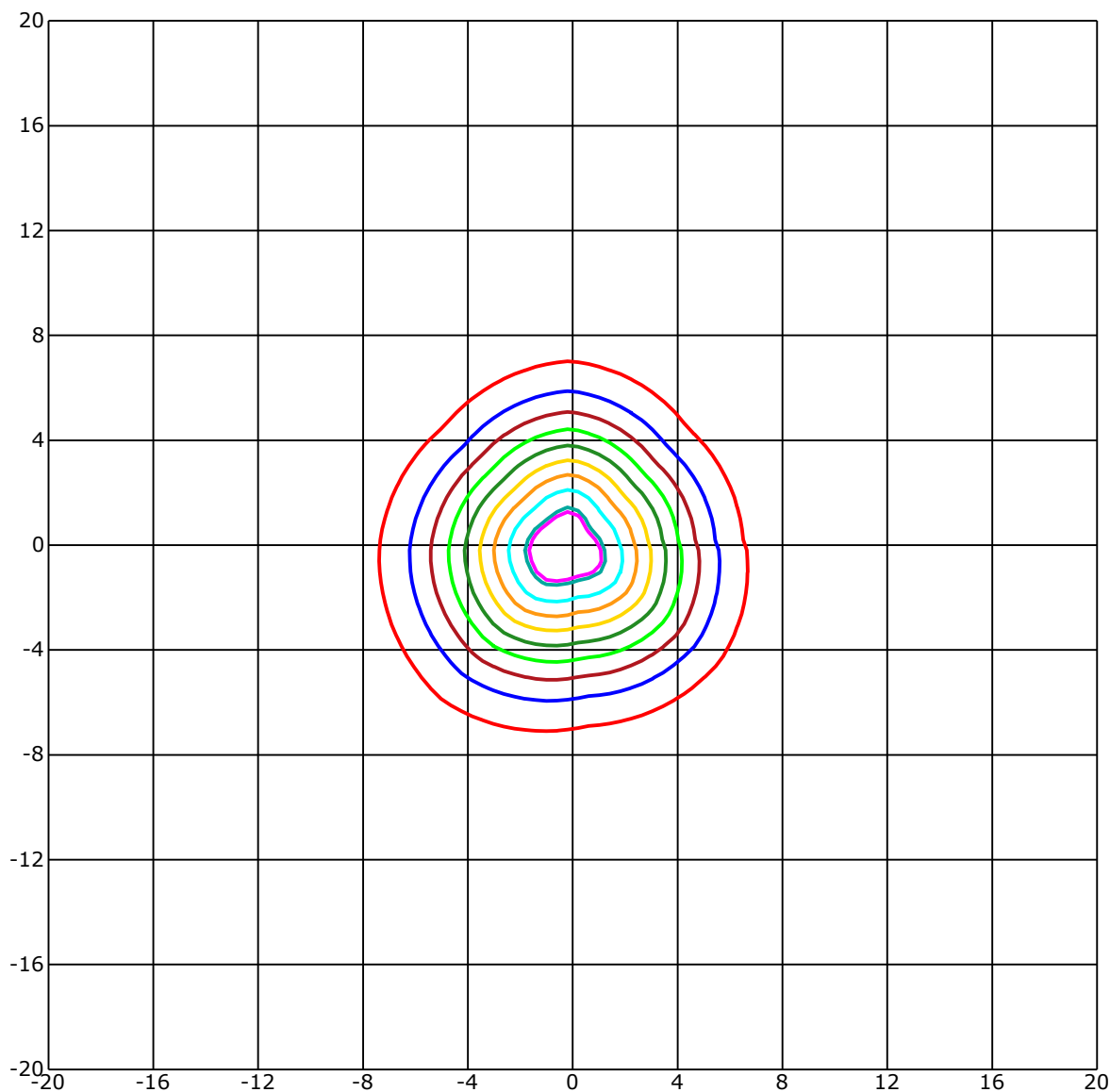
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:56:52

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



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

12.907(92%Emax)	7.015(50%Emax)
12.626(90%Emax)	5.612(40%Emax)
11.223(80%Emax)	4.209(30%Emax)
9.82(70%Emax)	2.806(20%Emax)
8.417(60%Emax)	1.403(10%Emax)

C Range: 0 - 360 Deg
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Test Date: 2025/5/8 17:56:52

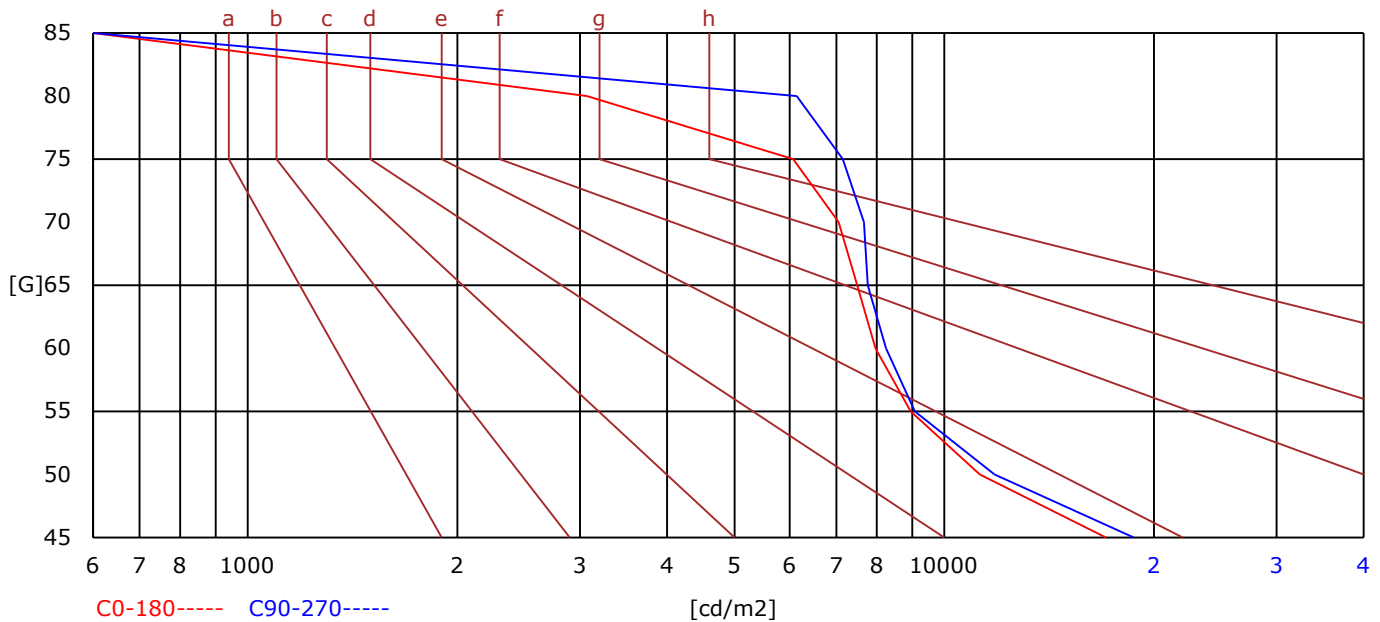
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17064	11241	8953	7969	7503	7056	6071	3070	0
C90	18710	11808	9075	8250	7768	7671	7155	6140	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



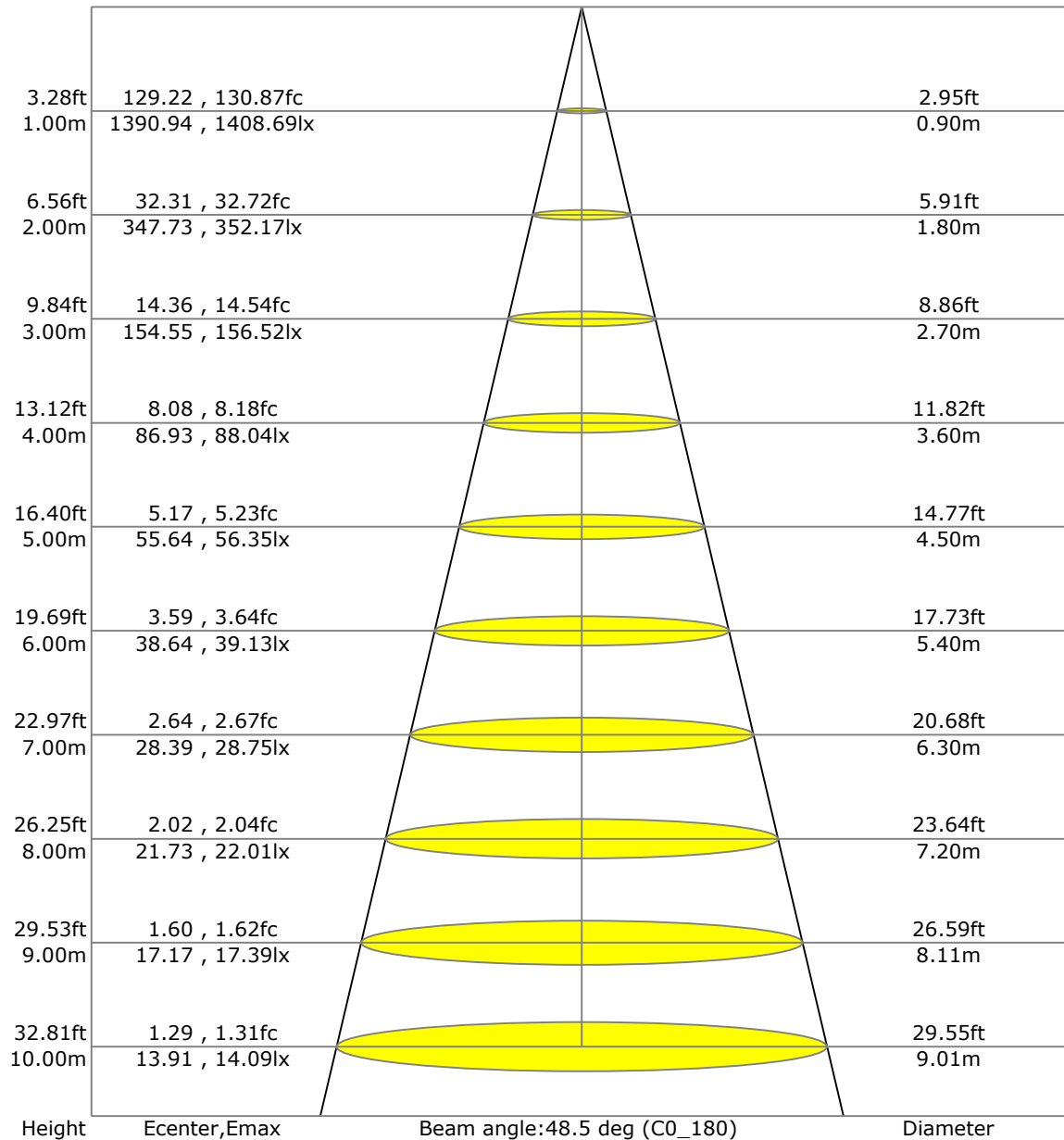
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:56:52

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: 2025/5/8 17:56:52

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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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	12.77	12.82	12.97	13.00	13.25	13.15	13.21	13.35	13.39	13.64
3H	12.81	12.86	13.01	13.05	13.30	13.17	13.22	13.37	13.41	13.66
4H	12.81	12.86	13.02	13.06	13.31	13.16	13.21	13.37	13.41	13.66
6H	12.80	12.85	13.01	13.05	13.30	13.15	13.20	13.36	13.40	13.65
8H	12.79	12.84	13.01	13.04	13.30	13.14	13.19	13.35	13.39	13.64
12H	12.78	12.83	13.00	13.03	13.29	13.13	13.18	13.35	13.38	13.64
4H 2H	13.41	13.46	13.62	13.66	13.91	14.19	14.24	14.40	14.44	14.69
3H	13.53	13.58	13.75	13.79	14.04	14.28	14.33	14.50	14.54	14.79
4H	13.55	13.61	13.78	13.82	14.08	14.29	14.34	14.52	14.55	14.81
6H	13.55	13.60	13.79	13.82	14.09	14.27	14.32	14.51	14.54	14.81
8H	13.54	13.59	13.79	13.82	14.08	14.26	14.31	14.50	14.53	14.80
12H	13.53	13.58	13.78	13.81	14.08	14.25	14.29	14.49	14.52	14.79
8H 4H	13.53	13.58	13.75	13.78	14.04	14.61	14.66	14.83	14.86	15.12
6H	13.69	13.74	13.95	13.98	14.25	14.78	14.82	15.03	15.06	15.33
8H	13.68	13.72	13.94	13.97	14.25	14.76	14.80	15.02	15.05	15.32
12H	13.67	13.71	13.94	13.96	14.24	14.74	14.78	15.01	15.04	15.32
12H 4H	13.69	13.73	13.93	13.96	14.23	14.87	14.92	15.12	15.15	15.42
6H	13.68	13.72	13.94	13.97	14.24	14.86	14.90	15.12	15.14	15.42

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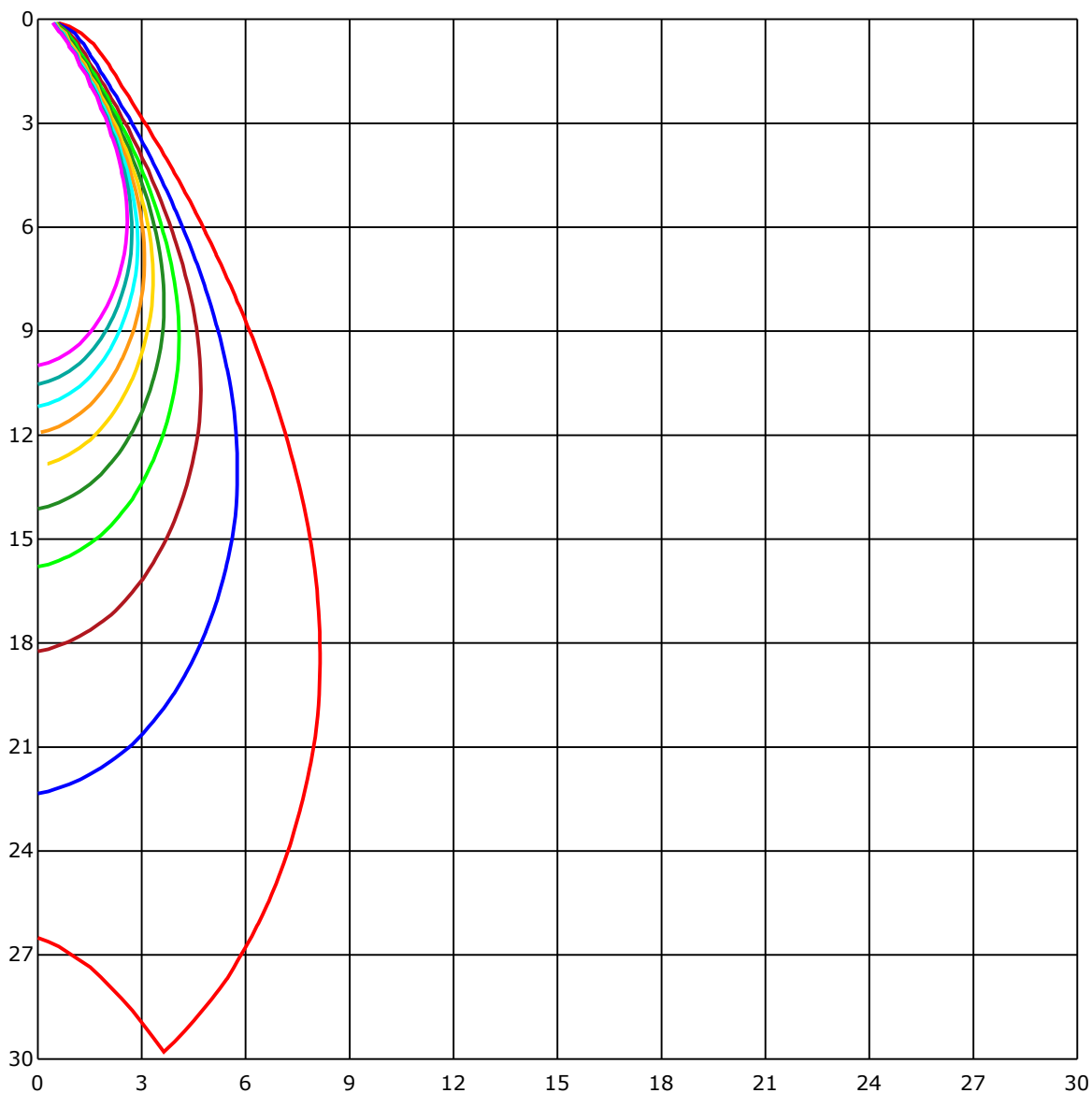
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



13.936	6.968
12.542	5.574
11.149	4.181
9.755	2.787
8.361	1.394

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:56:52

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1390.94	1375.41	1388.25	1396.08	1390.94	1375.41	1388.25	1396.08	1390.94	
G1	1381.26	1360.03	1388.82	1394.81	1399.01	1385.32	1385.8	1393.02	1381.26	
G2	1365.83	1342.23	1384.9	1387.73	1404.16	1388.77	1380.42	1389.38	1365.83	
G3	1351.86	1324.06	1379.38	1380.08	1408.69	1392.21	1372.44	1386.5	1351.86	
G4	1330.91	1300.32	1372.06	1373.67	1405.24	1393.39	1361.25	1376.59	1330.91	
G5	1310.85	1279.6	1357.81	1354.13	1402.55	1393.91	1344.31	1361.44	1310.85	
G6	1286.64	1250.44	1343.32	1335.86	1390.66	1388.16	1328.31	1348.04	1286.64	
G7	1263.98	1221.79	1321.75	1312.03	1381.36	1379.28	1305.89	1329.77	1263.98	
G8	1234.39	1189.93	1302.92	1289.0	1365.31	1368.0	1283.05	1307.64	1234.39	
G9	1201.59	1159.39	1276.3	1260.91	1349.74	1354.55	1252.75	1284.37	1201.59	
G10	1168.64	1125.22	1253.31	1230.66	1326.61	1337.18	1223.86	1261.81	1168.64	
G11	1137.21	1090.82	1225.14	1197.53	1304.33	1314.76	1191.01	1232.5	1137.21	
G12	1098.32	1052.77	1194.79	1165.24	1274.74	1290.98	1160.53	1201.02	1098.32	
G13	1061.98	1014.78	1159.16	1127.16	1245.9	1263.93	1124.28	1168.6	1061.98	
G14	1023.04	976.08	1125.88	1088.64	1209.42	1232.59	1087.79	1134.57	1023.04	
G15	984.76	937.76	1088.41	1046.78	1178.18	1203.52	1049.8	1098.65	984.76	
G16	943.42	898.39	1050.51	1006.38	1143.58	1169.87	1014.26	1064.62	943.42	
G17	904.39	858.09	1012.8	963.19	1104.17	1136.41	974.62	1027.24	904.39	
G18	862.19	814.43	971.74	921.24	1063.77	1099.78	935.54	991.04	862.19	
G19	822.59	773.18	929.5	879.94	1022.57	1059.24	896.51	949.93	822.59	
G20	782.24	728.48	887.87	834.68	981.51	1020.68	858.65	911.28	782.24	
G21	742.27	685.68	846.48	791.63	940.45	984.53	818.02	872.62	742.27	
G22	700.78	642.07	805.75	750.95	898.3	944.22	777.33	838.12	700.78	
G23	656.13	596.76	765.11	708.0	858.98	904.58	735.89	796.07	656.13	
G24	611.39	550.79	723.81	663.21	815.89	860.97	694.79	757.18	611.39	
G25	568.68	506.52	678.46	618.66	773.6	820.42	652.64	714.33	568.68	
G26	523.89	462.72	633.85	574.34	730.75	779.13	610.02	673.36	523.89	
G27	481.08	419.77	587.84	529.36	684.59	735.75	566.65	629.28	481.08	
G28	436.43	377.43	543.8	482.68	640.04	693.75	522.71	586.14	436.43	
G29	392.87	337.03	498.12	437.14	595.39	648.11	476.74	542.95	392.87	
G30	348.74	298.52	455.03	391.31	548.19	602.33	432.75	496.46	348.74	
G31	309.28	262.51	410.52	347.79	501.0	558.2	390.04	450.54	309.28	
G32	271.52	230.27	368.18	306.78	453.56	512.84	351.24	405.19	271.52	
G33	237.26	200.92	327.36	269.21	409.06	468.81	311.03	360.87	237.26	
G34	204.93	175.15	289.27	233.29	365.63	425.01	273.03	319.95	204.93	
G35	176.04	152.26	254.2	200.96	324.71	383.85	238.49	279.5	176.04	
G36	151.03	132.25	222.49	172.03	285.73	342.65	206.91	243.06	151.03	

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: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	129.84	114.97	193.18	146.45	249.72	305.03	179.3	209.08	129.84	
G38	111.48	100.44	167.69	124.93	216.3	269.49	155.75	179.77	111.48	
G39	96.47	87.74	146.07	106.85	187.28	236.79	134.32	154.43	96.47	
G40	82.74	76.36	127.1	91.61	162.22	207.05	115.73	132.25	82.74	
G41	71.03	67.07	110.82	78.72	140.65	181.05	98.92	113.74	71.03	
G42	61.4	59.0	96.99	68.15	121.72	157.07	85.0	97.84	61.4	
G43	53.57	52.2	85.1	58.85	105.49	136.73	73.44	85.24	53.57	
G44	46.39	45.64	75.23	51.4	91.7	119.55	64.05	73.96	46.39	
G45	40.64	40.59	66.83	44.51	80.09	104.87	55.88	64.8	40.64	
G46	36.01	36.11	59.7	39.22	70.51	92.46	48.66	57.25	36.01	
G47	31.95	32.61	53.47	34.6	62.63	81.51	42.52	50.69	31.95	
G48	28.74	29.36	47.86	31.15	55.65	72.16	37.57	44.7	28.74	
G49	26.05	26.71	42.95	28.08	49.93	64.09	33.42	40.07	26.05	
G50	23.83	24.31	39.17	25.53	44.27	57.25	29.83	36.53	23.83	
G51	22.14	22.47	36.01	23.46	40.45	51.73	26.76	33.46	22.14	
G52	20.39	20.86	33.27	21.62	36.67	46.16	24.31	31.01	20.39	
G53	18.97	19.49	30.73	19.87	33.79	41.91	22.18	28.98	18.97	
G54	17.79	18.45	28.7	18.74	31.06	38.14	20.29	27.19	17.79	
G55	16.9	17.27	26.86	17.51	29.03	34.93	18.88	25.49	16.9	
G56	15.95	16.33	25.49	16.52	26.95	32.24	17.89	24.16	15.95	
G57	15.29	15.57	24.02	15.72	25.53	29.97	16.61	23.03	15.29	
G58	14.58	14.82	22.98	15.2	23.98	27.66	15.81	21.9	14.58	
G59	13.92	14.16	21.9	14.4	22.7	25.86	14.91	20.91	13.92	
G60	13.36	13.4	21.05	13.88	21.57	24.31	14.06	20.2	13.36	
G61	12.7	12.88	19.96	13.31	20.72	23.17	13.45	19.45	12.7	
G62	12.22	12.37	19.11	12.55	19.68	21.85	12.79	18.64	12.22	
G63	11.8	11.89	18.36	11.94	18.97	20.86	12.13	17.98	11.8	
G64	11.14	11.23	17.65	11.52	18.17	19.82	11.56	17.18	11.14	
G65	10.81	10.67	16.94	11.04	17.46	18.93	10.95	16.47	10.81	
G66	10.29	10.15	16.33	10.57	16.71	17.93	10.52	15.95	10.29	
G67	9.91	9.58	15.53	10.24	15.91	17.42	9.96	15.24	9.91	
G68	9.34	9.01	14.96	9.63	15.15	16.52	9.53	14.63	9.34	
G69	8.97	8.59	14.21	9.25	14.58	15.81	9.01	14.16	8.97	
G70	8.5	8.12	13.55	8.83	13.92	15.2	8.59	13.59	8.5	
G71	8.21	7.46	12.93	8.26	13.45	14.54	8.12	13.17	8.21	
G72	7.65	6.99	12.46	7.69	12.84	13.73	7.69	12.6	7.65	
G73	7.13	6.47	11.8	7.22	12.32	13.26	7.13	11.94	7.13	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:56:52

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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: 2025/5/8 17:56:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks: