

Report No.:

Test Time: 2025/4/7 14:38:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H94-60°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 220.00 V
Current(A): 0.0700 A
Power(W): 14.70 W
Power Factor: 0.9480
Lamp Luminous Flux: 1250.26

Photometric Results

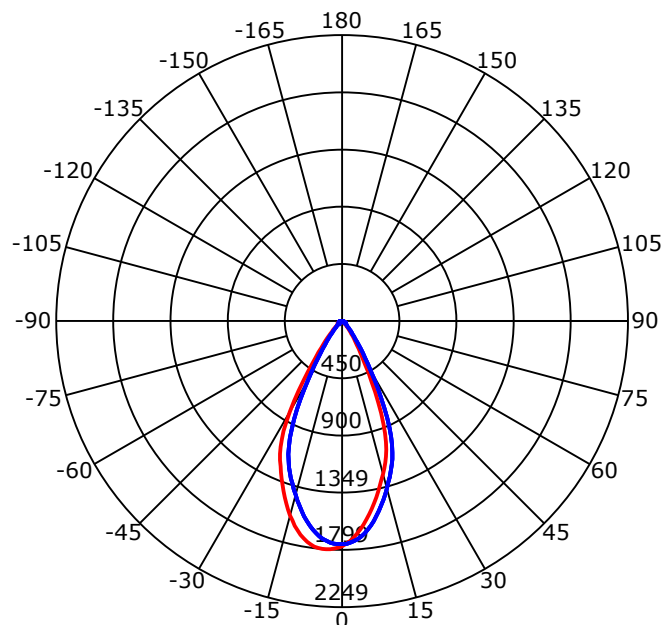
CIE Class: Direct
Luminaire Luminous Flux: 1250.261 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.05 lm/W
Beam Angle(50%) C0-180,C90-270: 50.7,50.3
Field Angle(10%) C0-180,C90-270: 74.3,74.8
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 1799.24 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1770.59 cd
Effective Luminous Flux: 1096.09 lm
ERP(ϕ use)(120deg): 1206.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 50.7 deg,50.3 deg

C0-180 — C90-270 —

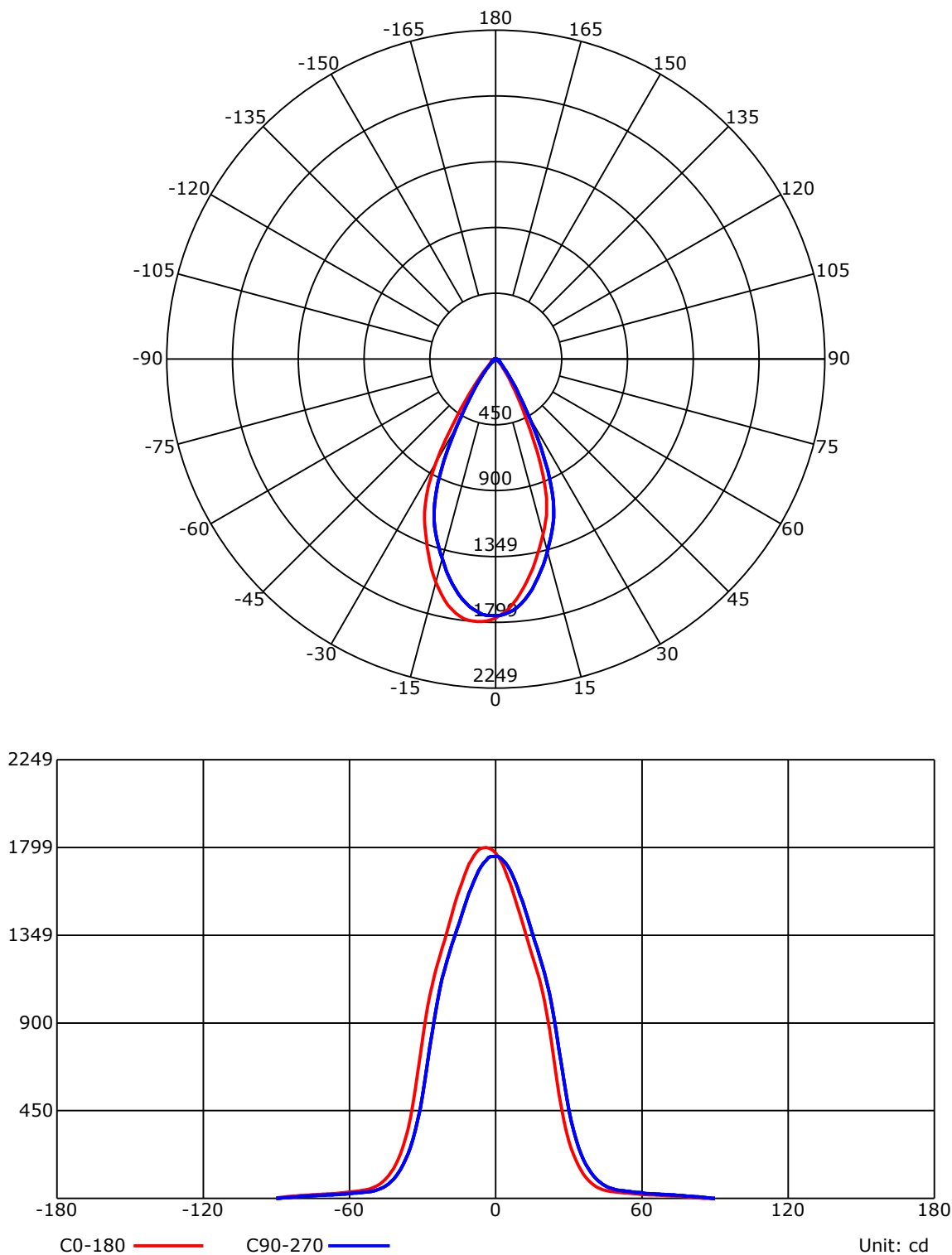
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 14:38:44

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: 2025/4/7 14:38:44

Luminous Intensity Distribution Curve



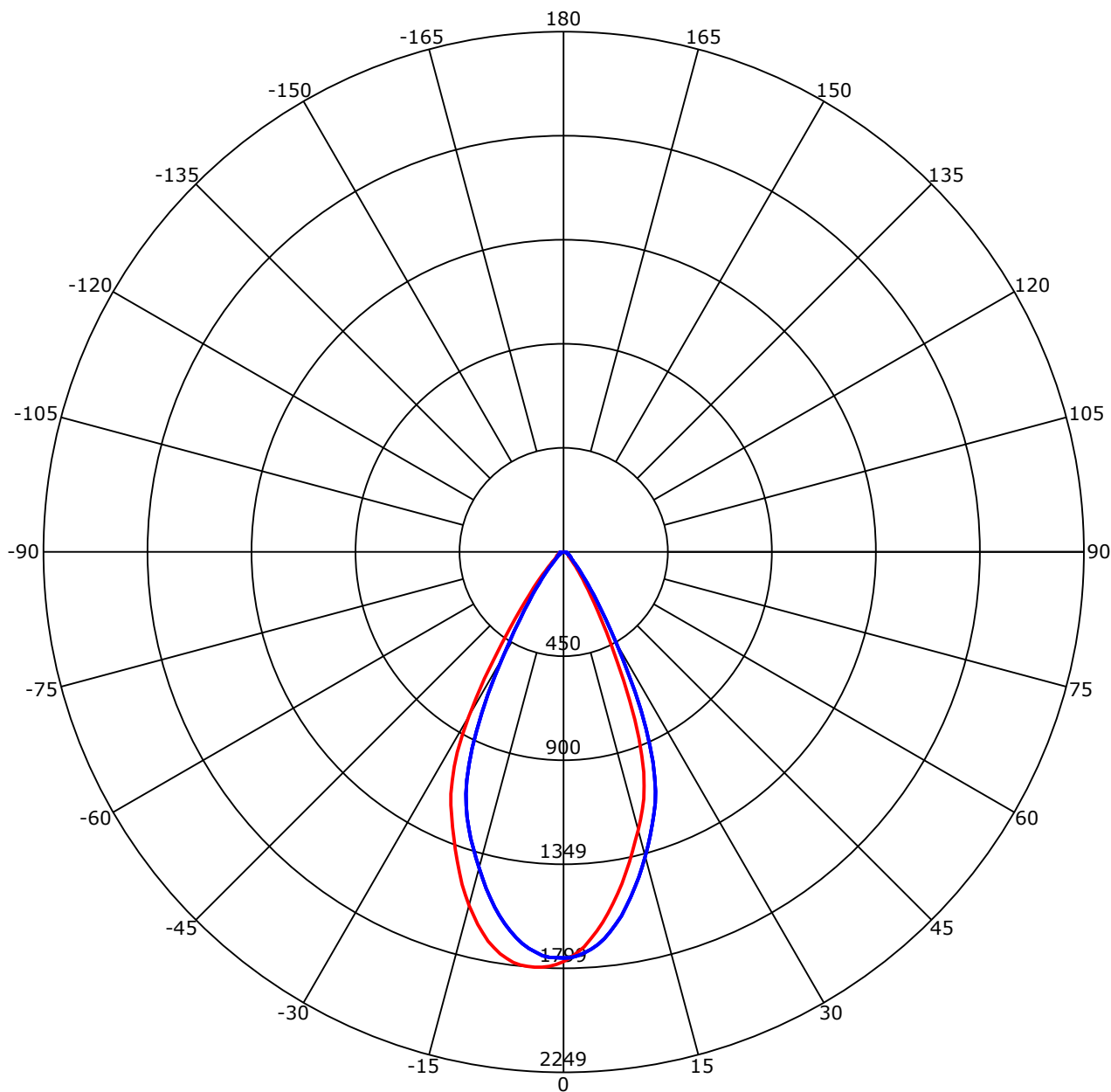
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 14:38:44

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: 2025/4/7 14:38:44

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

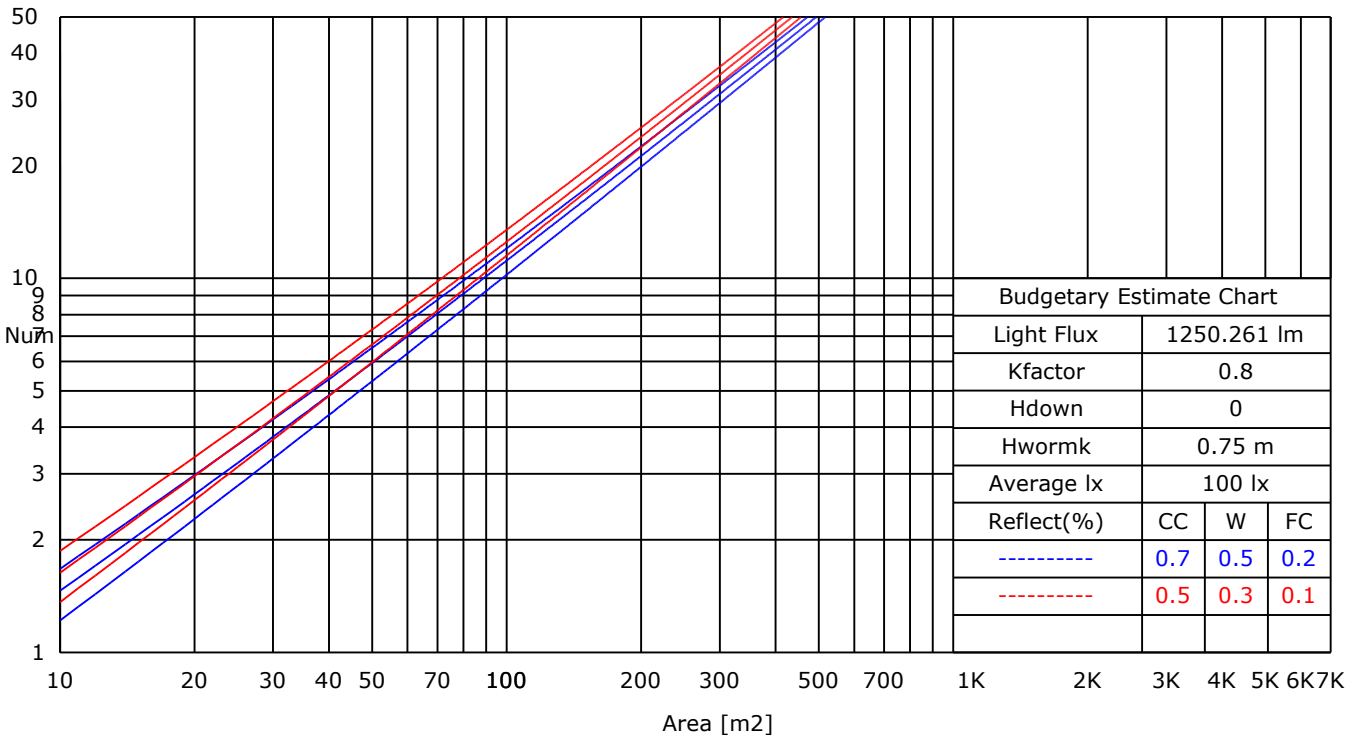
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UTILIZATION FACTORS TABLE

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	0.79	0.75
3	0.94	0.93	0.92	0.93	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.82	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	0.80	0.78	0.80	0.76	0.73	0.69
5	0.87	0.86	0.84	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	0.83	0.82	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	0.70	0.73	0.69	0.66	0.62
8	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
9	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.58
10	0.74	0.73	0.72	0.73	0.72	0.70	0.72	0.69	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



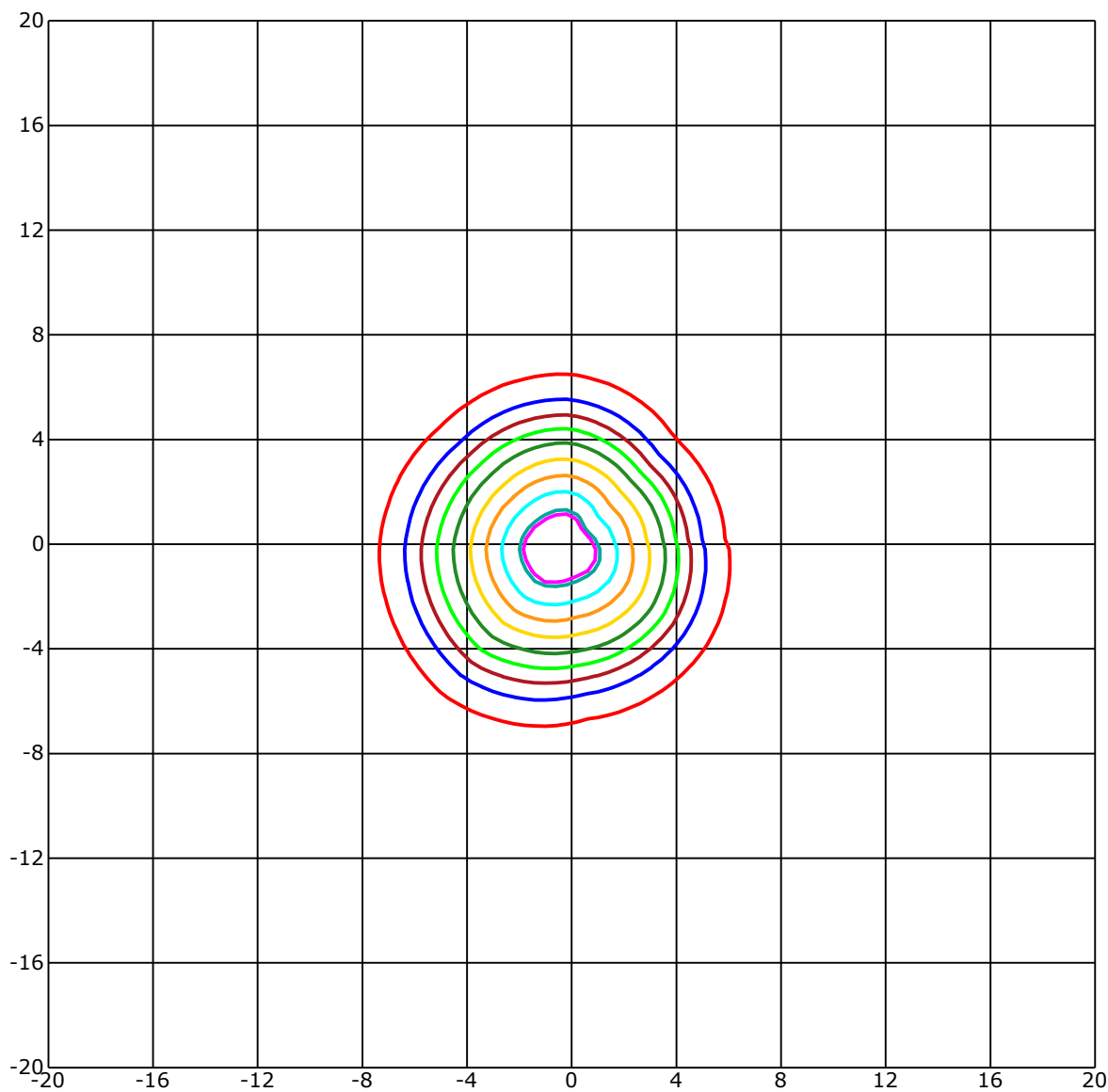
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 14:38:44

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)

16.466(92%Emax)	8.949(50%Emax)
16.108(90%Emax)	7.159(40%Emax)
14.319(80%Emax)	5.369(30%Emax)
12.529(70%Emax)	3.58(20%Emax)
10.739(60%Emax)	1.79(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
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Test Date: 2025/4/7 14:38:44

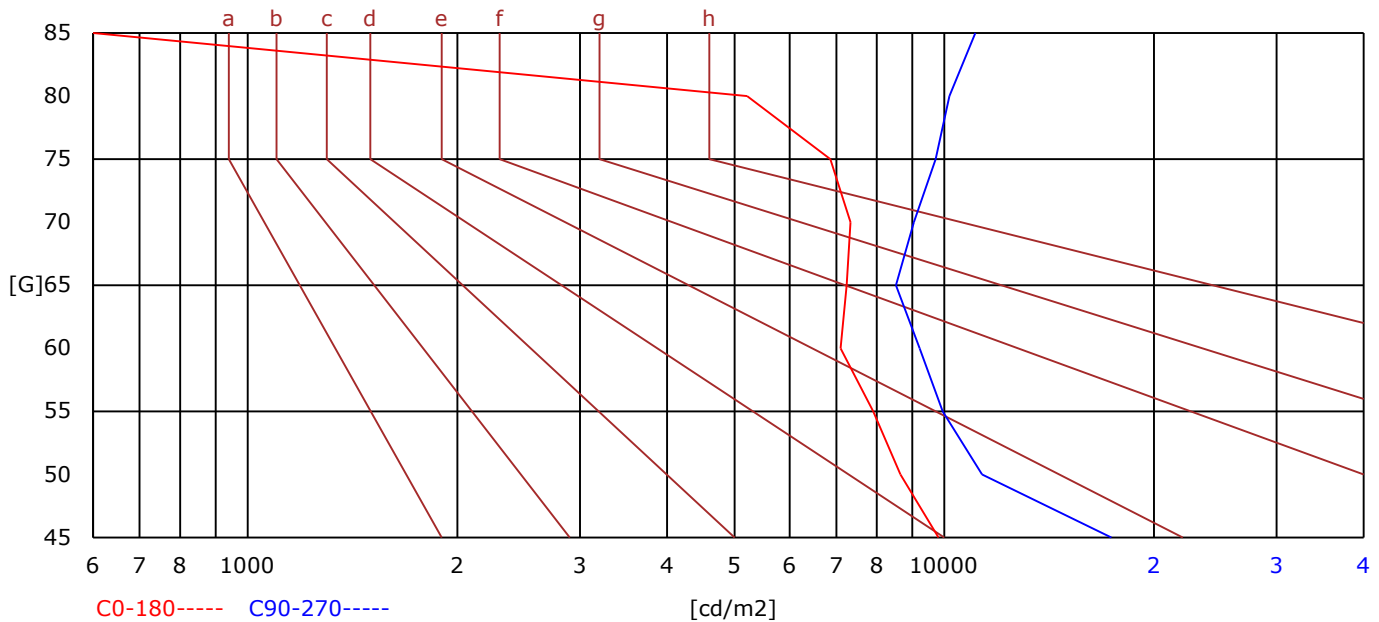
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9812	8649	7904	7102	7240	7333	6860	5212	0
C90	17381	11330	9948	9222	8525	9047	9724	10175	11076
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



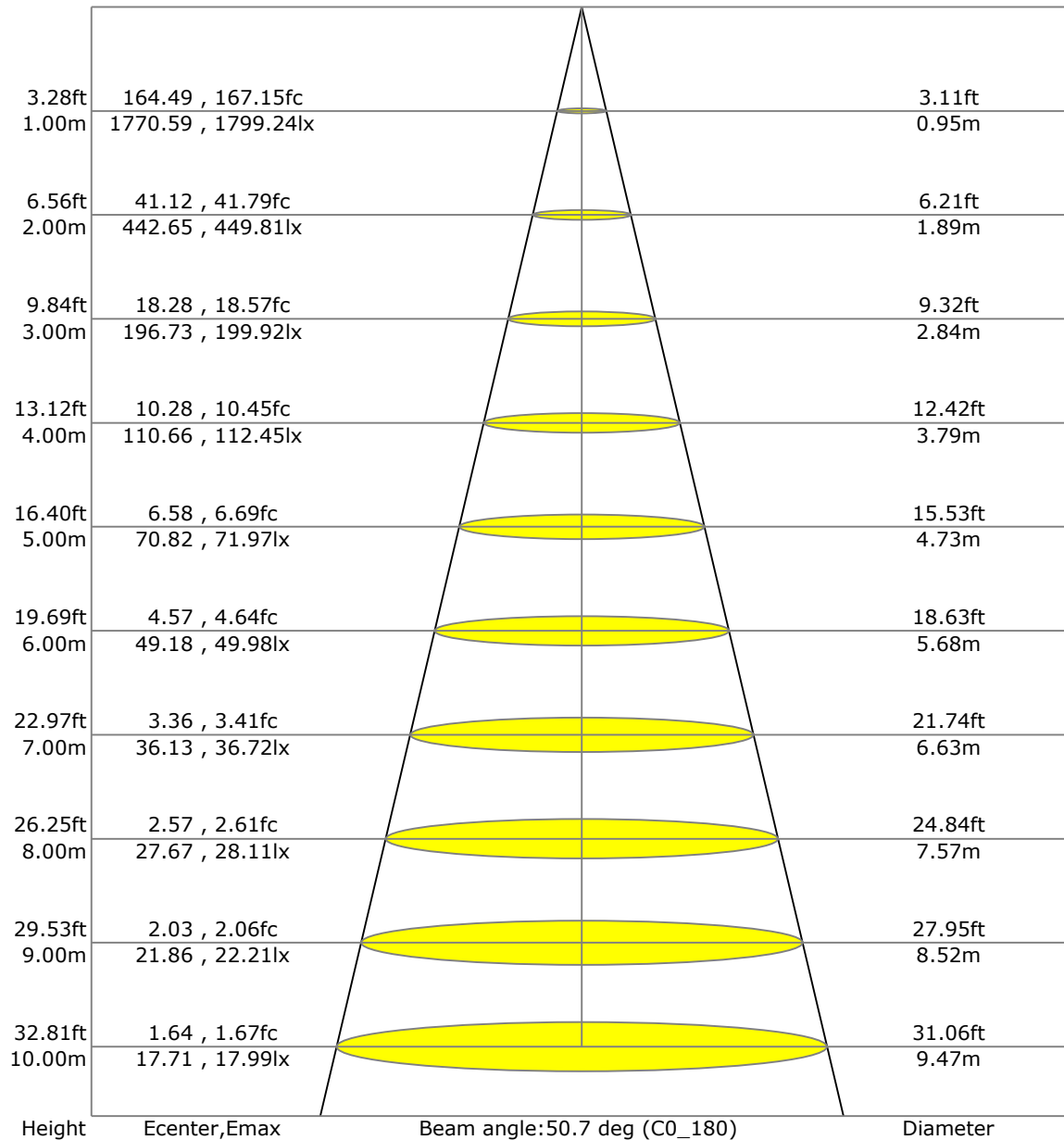
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Temperature: 25
Operators: QC01
Test Date: 2025/4/7 14:38:44

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/4/7 14:38:44

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	9.62	9.67	9.81	9.85	10.10	10.03	10.08	10.22	10.26	10.51
3H	9.74	9.80	9.95	9.99	10.24	10.11	10.16	10.32	10.36	10.60
4H	9.77	9.82	9.98	10.02	10.27	10.12	10.17	10.33	10.37	10.62
6H	9.77	9.82	9.98	10.02	10.27	10.11	10.16	10.32	10.36	10.61
8H	9.76	9.81	9.98	10.01	10.27	10.10	10.15	10.32	10.35	10.61
12H	9.75	9.80	9.97	10.01	10.26	10.09	10.14	10.31	10.35	10.60
4H 2H	11.20	11.25	11.41	11.45	11.70	11.99	12.04	12.20	12.24	12.49
3H	11.49	11.54	11.71	11.74	12.00	12.22	12.28	12.44	12.48	12.74
4H	11.56	11.61	11.79	11.82	12.08	12.27	12.32	12.50	12.53	12.79
6H	11.59	11.64	11.82	11.86	12.12	12.27	12.32	12.51	12.54	12.80
8H	11.58	11.63	11.83	11.86	12.12	12.26	12.31	12.50	12.53	12.80
12H	11.57	11.62	11.82	11.85	12.12	12.25	12.29	12.49	12.52	12.79
8H 4H	11.59	11.64	11.81	11.84	12.10	12.73	12.78	12.95	12.98	13.24
6H	12.10	12.15	12.36	12.39	12.66	13.20	13.24	13.45	13.48	13.75
8H	12.10	12.15	12.36	12.39	12.67	13.19	13.23	13.45	13.48	13.75
12H	12.10	12.14	12.36	12.39	12.67	13.17	13.21	13.44	13.46	13.75
12H 4H	12.07	12.12	12.32	12.35	12.62	13.40	13.45	13.65	13.68	13.95
6H	12.12	12.16	12.38	12.41	12.68	13.44	13.49	13.70	13.73	14.01

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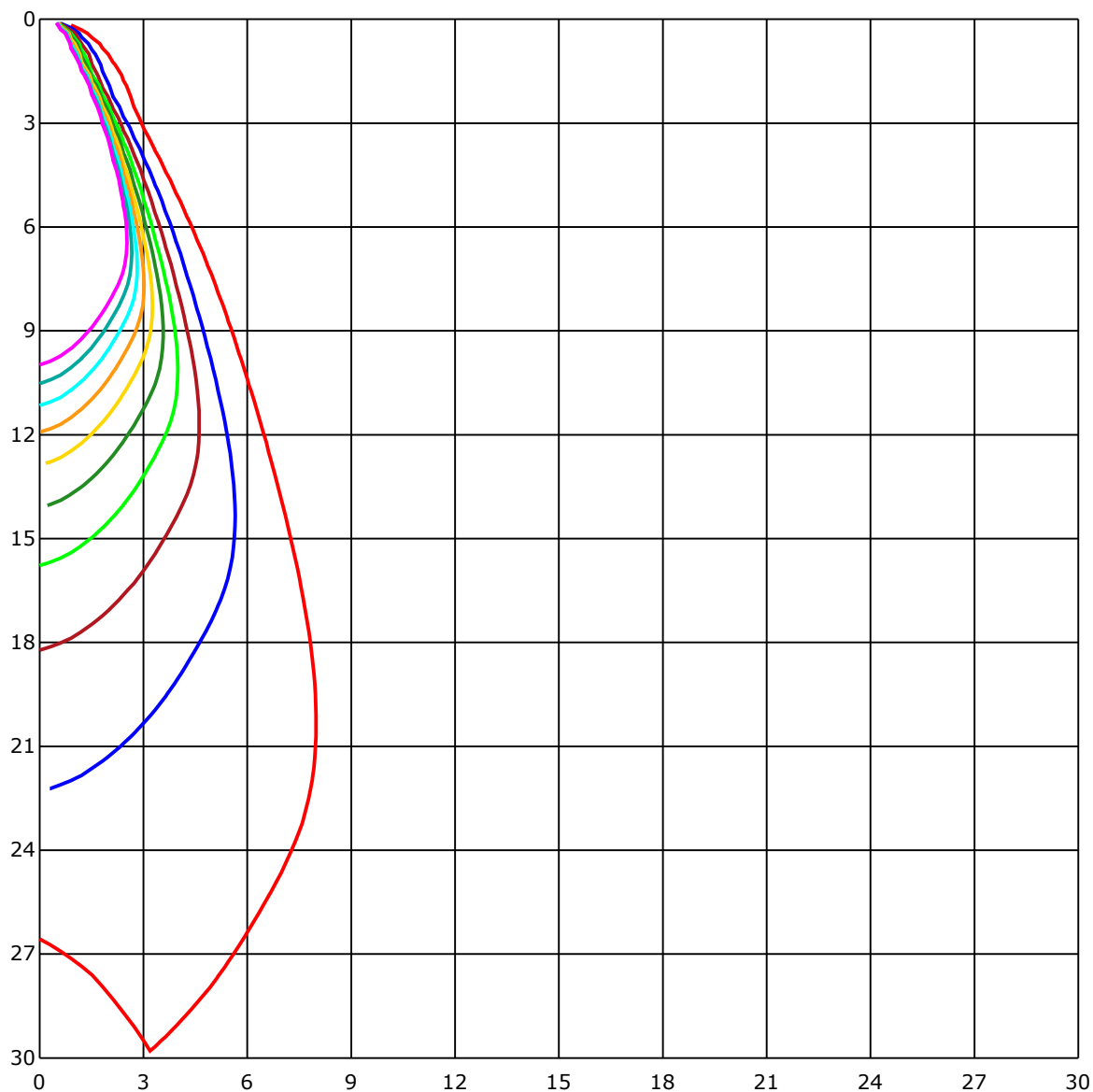
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

Report No.:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 14:38:44

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: 2025/4/7 14:38:44

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1770.59	1731.18	1754.97	1771.58	1770.59	1731.18	1754.97	1771.58	1770.59	
G1	1751.95	1709.38	1753.03	1773.14	1782.39	1744.78	1753.08	1765.87	1751.95	
G2	1731.37	1682.81	1745.34	1769.27	1791.26	1756.48	1753.27	1755.11	1731.37	
G3	1708.81	1654.3	1733.31	1763.42	1797.21	1762.95	1747.09	1741.05	1708.81	
G4	1676.76	1624.75	1720.23	1755.87	1799.24	1770.73	1733.35	1724.34	1676.76	
G5	1644.67	1591.95	1702.39	1746.05	1797.87	1769.88	1720.23	1704.14	1644.67	
G6	1610.08	1554.67	1680.3	1726.51	1794.9	1769.74	1702.02	1680.26	1610.08	
G7	1572.6	1517.19	1653.07	1705.32	1787.3	1762.38	1680.45	1652.27	1572.6	
G8	1533.38	1479.01	1623.86	1679.97	1772.86	1757.52	1654.44	1621.97	1533.38	
G9	1493.5	1439.36	1592.99	1654.06	1757.38	1741.52	1627.07	1587.56	1493.5	
G10	1454.7	1400.29	1555.19	1622.2	1735.76	1726.51	1595.68	1549.95	1454.7	
G11	1411.0	1359.04	1520.17	1593.93	1713.44	1703.01	1564.39	1515.68	1411.0	
G12	1368.76	1319.96	1480.99	1554.48	1682.76	1680.54	1527.72	1476.56	1368.76	
G13	1325.86	1276.44	1443.52	1514.74	1651.66	1653.17	1491.09	1441.72	1325.86	
G14	1283.9	1239.86	1402.83	1477.17	1615.08	1624.52	1451.97	1401.65	1283.9	
G15	1244.02	1197.91	1361.77	1434.79	1581.14	1591.06	1413.69	1364.89	1244.02	
G16	1205.08	1155.43	1320.52	1391.27	1542.02	1555.75	1375.74	1328.69	1205.08	
G17	1161.99	1109.88	1281.59	1349.83	1501.62	1517.48	1337.14	1290.74	1161.99	
G18	1121.12	1056.08	1239.58	1303.72	1457.35	1478.77	1301.45	1249.02	1121.12	
G19	1069.25	996.14	1198.19	1261.57	1412.75	1439.41	1260.87	1209.23	1069.25	
G20	1012.99	928.93	1155.85	1215.46	1369.56	1398.3	1219.8	1165.24	1012.99	
G21	944.03	855.11	1107.1	1168.69	1324.82	1355.92	1175.58	1116.68	944.03	
G22	870.31	771.76	1050.98	1122.77	1282.29	1319.25	1127.39	1060.66	870.31	
G23	787.86	687.23	987.08	1072.08	1239.3	1278.66	1071.09	996.7	787.86	
G24	701.06	602.61	917.7	1009.12	1198.38	1238.68	1005.34	923.5	701.06	
G25	613.23	520.39	841.85	943.61	1152.97	1197.24	936.1	845.67	613.23	
G26	531.72	450.64	761.1	872.43	1099.97	1151.94	859.5	759.59	531.72	
G27	458.75	387.3	679.12	797.01	1041.82	1097.05	779.03	674.4	458.75	
G28	394.14	334.91	599.92	714.47	979.1	1039.09	695.45	592.18	394.14	
G29	340.43	288.85	525.44	631.31	904.34	969.14	611.77	516.15	340.43	
G30	293.99	249.72	455.12	549.99	821.75	891.97	533.94	446.86	293.99	
G31	254.2	216.73	396.17	476.36	734.05	806.6	461.96	386.73	254.2	
G32	221.26	188.79	343.07	410.71	645.51	718.62	401.41	335.99	221.26	
G33	191.95	163.07	298.9	353.93	559.0	630.74	348.12	293.19	191.95	
G34	166.42	141.69	260.72	306.07	482.92	548.33	302.91	255.62	166.42	
G35	143.95	123.04	228.06	266.66	414.15	473.29	262.89	222.86	143.95	
G36	124.65	106.71	199.08	231.69	356.76	408.77	228.48	193.7	124.65	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/4/7 14:38:44

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	107.33	92.27	173.97	201.01	307.58	353.55	198.93	169.25	107.33	
G38	92.98	80.33	152.3	174.96	266.9	306.97	172.6	147.77	92.98	
G39	80.75	70.42	134.09	153.15	231.88	267.32	150.32	129.04	80.75	
G40	70.42	61.73	117.66	133.19	202.0	233.53	130.41	113.23	70.42	
G41	62.06	54.75	103.36	115.44	176.14	203.47	112.71	99.68	62.06	
G42	54.98	48.85	91.0	100.53	152.92	177.51	97.7	87.88	54.98	
G43	48.9	44.08	80.57	87.5	133.52	154.81	85.38	77.92	48.9	
G44	44.37	40.78	71.69	76.51	116.34	134.04	74.15	69.62	44.37	
G45	40.83	37.99	64.23	67.3	101.76	116.53	65.08	62.58	40.83	
G46	38.23	35.96	58.1	59.75	89.44	101.57	57.82	56.78	38.23	
G47	36.11	34.22	53.19	53.33	78.96	88.92	51.63	52.25	36.11	
G48	34.36	32.99	48.66	47.39	70.04	78.21	46.06	47.76	34.36	
G49	32.9	31.57	45.59	43.37	62.58	69.38	42.15	45.03	32.9	
G50	31.72	30.44	42.95	39.88	56.97	62.25	39.03	42.43	31.72	
G51	30.54	29.31	40.97	37.38	52.15	56.35	36.39	40.26	30.54	
G52	29.45	28.22	39.22	35.35	48.19	51.87	34.36	38.61	29.45	
G53	28.22	27.09	37.9	33.65	45.07	47.48	32.85	37.19	28.22	
G54	27.33	26.05	36.34	32.19	42.76	44.6	31.62	35.63	27.33	
G55	26.29	24.83	35.11	31.24	40.64	42.19	30.21	34.41	26.29	
G56	25.16	23.79	33.65	29.73	38.94	40.21	28.98	32.99	25.16	
G57	23.93	22.61	32.28	28.79	37.29	38.56	27.94	31.81	23.93	
G58	22.89	21.19	30.91	27.52	35.92	37.24	26.95	30.58	22.89	
G59	21.33	20.06	29.64	26.38	34.69	35.73	25.91	29.5	21.33	
G60	20.2	19.45	28.37	25.25	33.09	34.31	24.78	28.08	20.2	
G61	19.73	19.07	26.62	24.16	31.81	33.13	23.79	26.67	19.73	
G62	19.26	18.55	25.2	23.03	30.68	31.76	22.7	25.25	19.26	
G63	18.69	17.84	24.35	21.71	29.5	30.63	21.47	24.45	18.69	
G64	18.22	17.32	23.69	20.29	28.22	29.4	20.34	23.88	18.22	
G65	17.7	16.75	23.13	19.73	26.86	28.22	19.78	23.41	17.7	
G66	17.04	16.24	22.32	19.16	25.3	26.76	19.3	22.47	17.04	
G67	16.42	15.53	21.66	18.64	24.26	25.16	18.69	21.8	16.42	
G68	15.81	14.77	20.96	18.17	23.69	24.45	18.22	21.14	15.81	
G69	15.24	14.25	20.29	17.7	22.94	23.55	17.7	20.44	15.24	
G70	14.4	13.73	19.54	16.94	22.37	23.08	16.94	19.78	14.4	
G71	13.64	12.84	18.83	16.33	21.66	22.23	16.42	18.93	13.64	
G72	12.93	12.08	18.22	15.76	20.91	21.8	15.72	18.31	12.93	
G73	12.04	11.33	17.42	15.15	20.34	20.96	15.15	17.51	12.04	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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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:

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