

Report No.:

Test Time: 2025/1/7 17:52:09

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H57-45°-10W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 53 mm

Voltage(V): 220.00 V
Current(A): 0.0530 A
Power(W): 10.83 W
Power Factor: 0.9130
Lamp Luminous Flux: 1102.43

Photometric Results

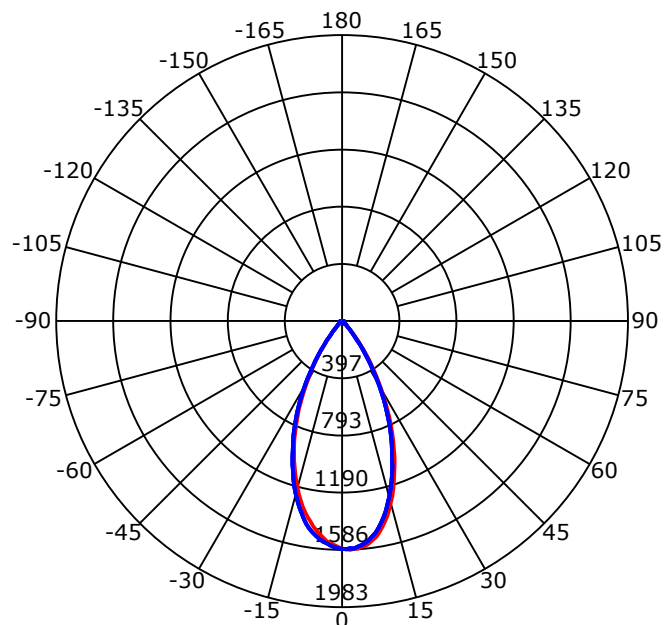
CIE Class: Direct
Luminaire Luminous Flux: 1102.426 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.78 lm/W
Beam Angle(50%) C0-180,C90-270: 48.9,48.9
Field Angle(10%) C0-180,C90-270: 78.0,76.9
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1586.00 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1577.87 cd
Effective Luminous Flux: 1010.88 lm
ERP(ϕ use)(120deg): 1086.21 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.9 deg,48.9 deg

C0-180 — C90-270 —

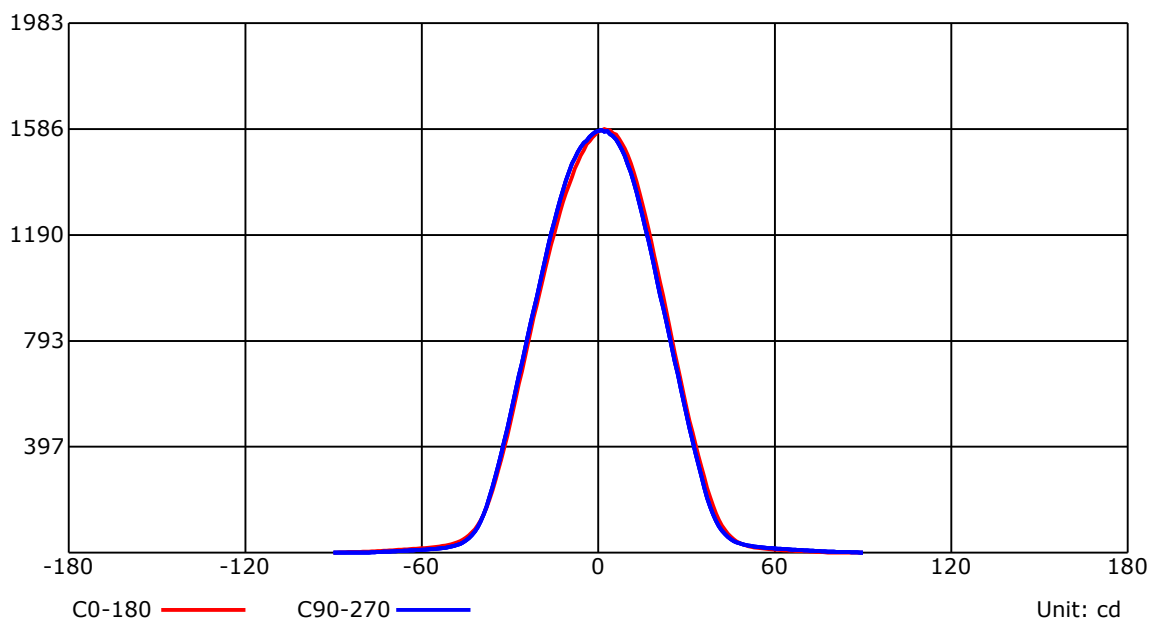
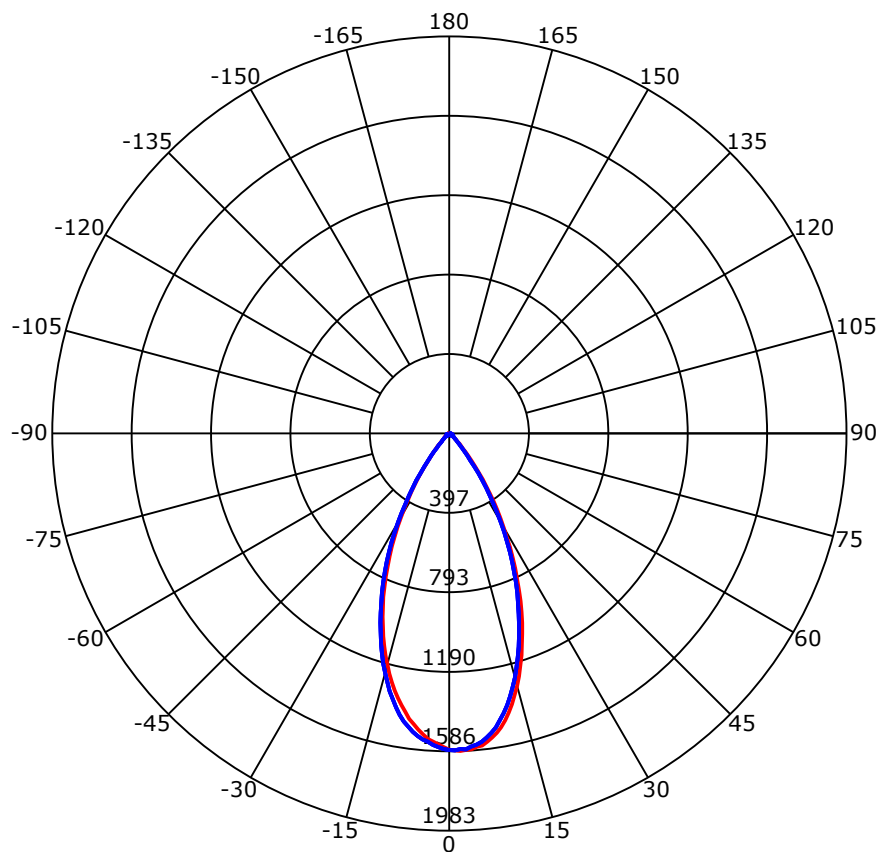
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 17:52:09

Luminous Intensity Distribution Curve



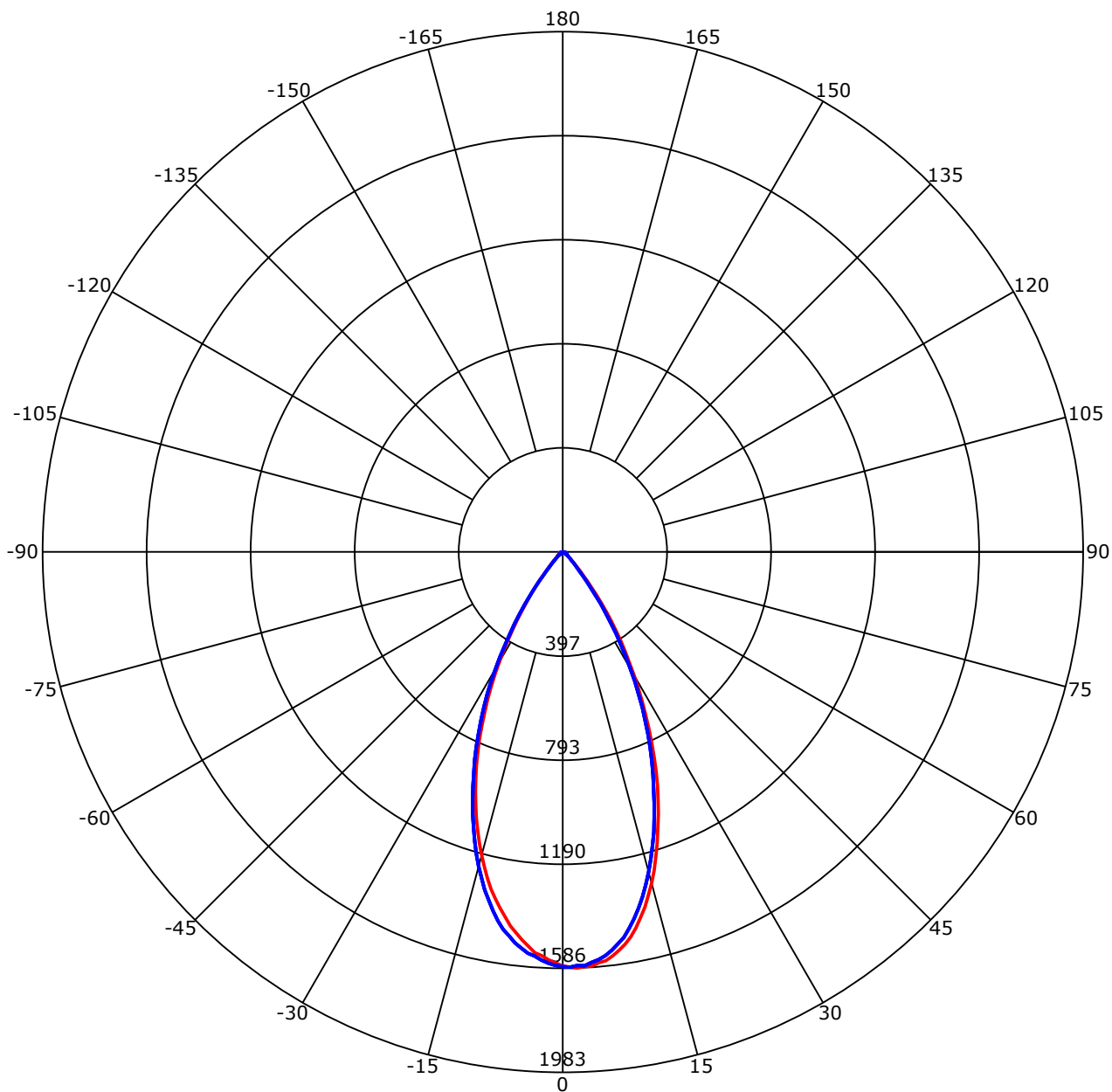
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

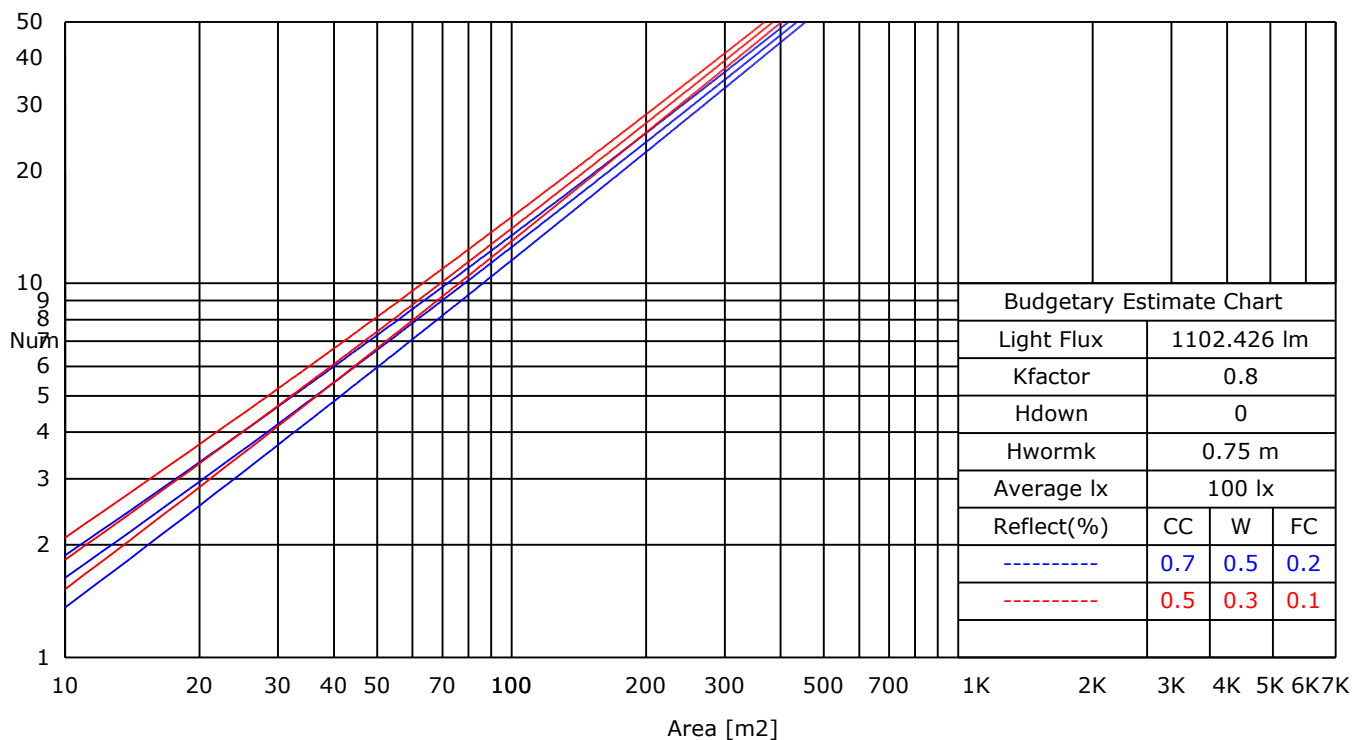
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.88	0.86	0.84	0.78
2	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.95	0.94	0.93	0.94	0.92	0.91	0.91	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.74	0.71	0.67
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	0.81	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	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



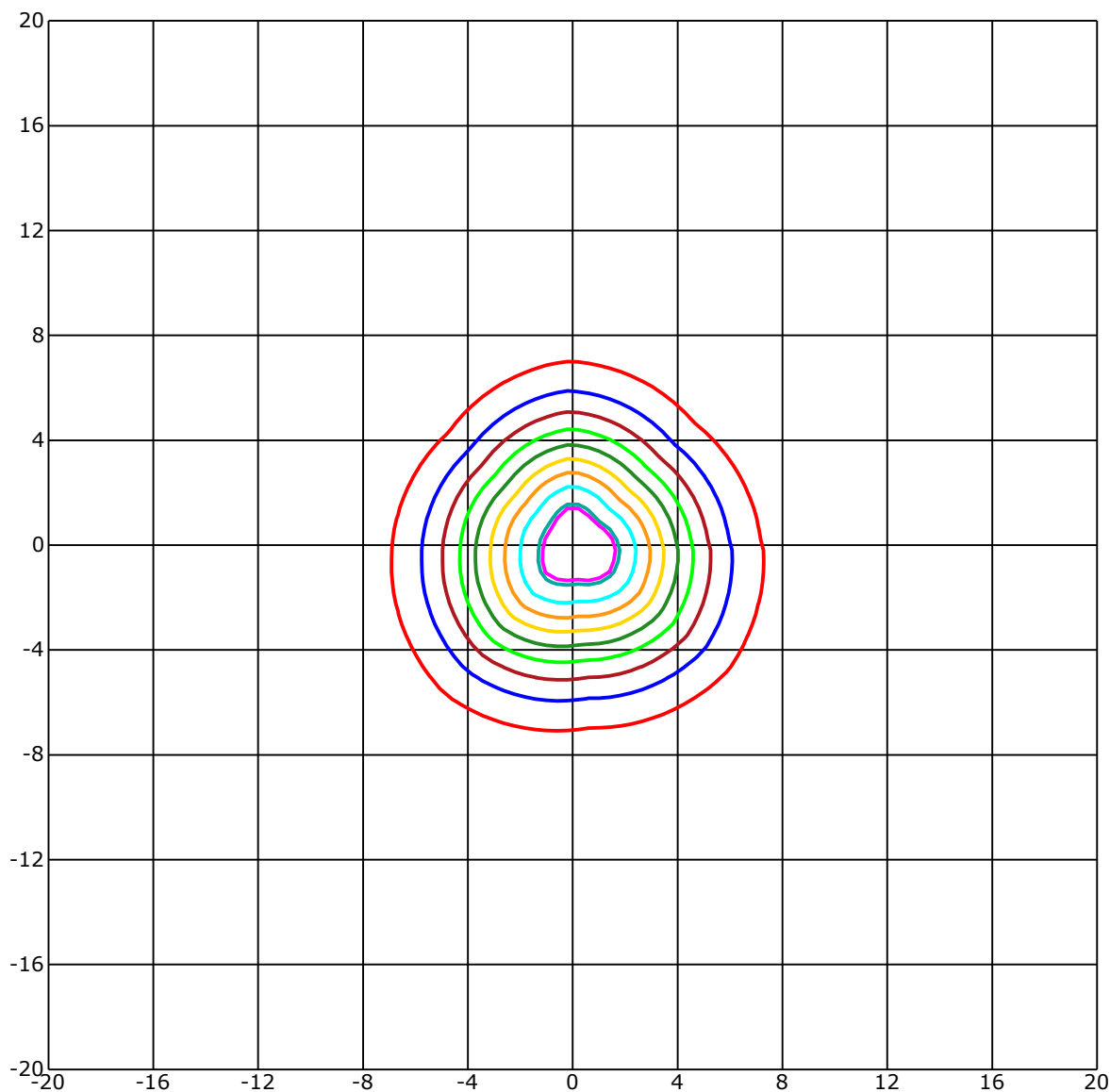
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Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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ISOLX DIAGRAM



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

14.565(92%Emax)	7.916(50%Emax)
14.248(90%Emax)	6.332(40%Emax)
12.665(80%Emax)	4.749(30%Emax)
11.082(70%Emax)	3.166(20%Emax)
9.499(60%Emax)	1.583(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

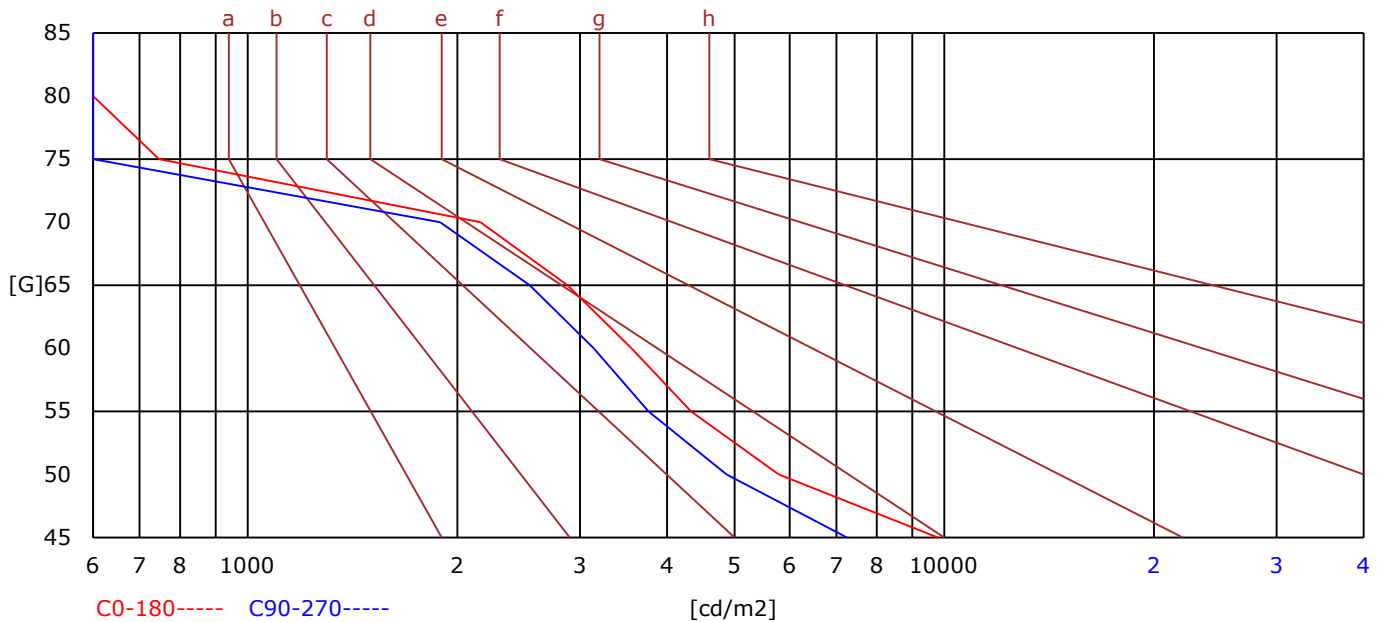
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9794	5785	4332	3559	2880	2160	746	0	0
C90	7254	4871	3761	3140	2542	1890	584	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



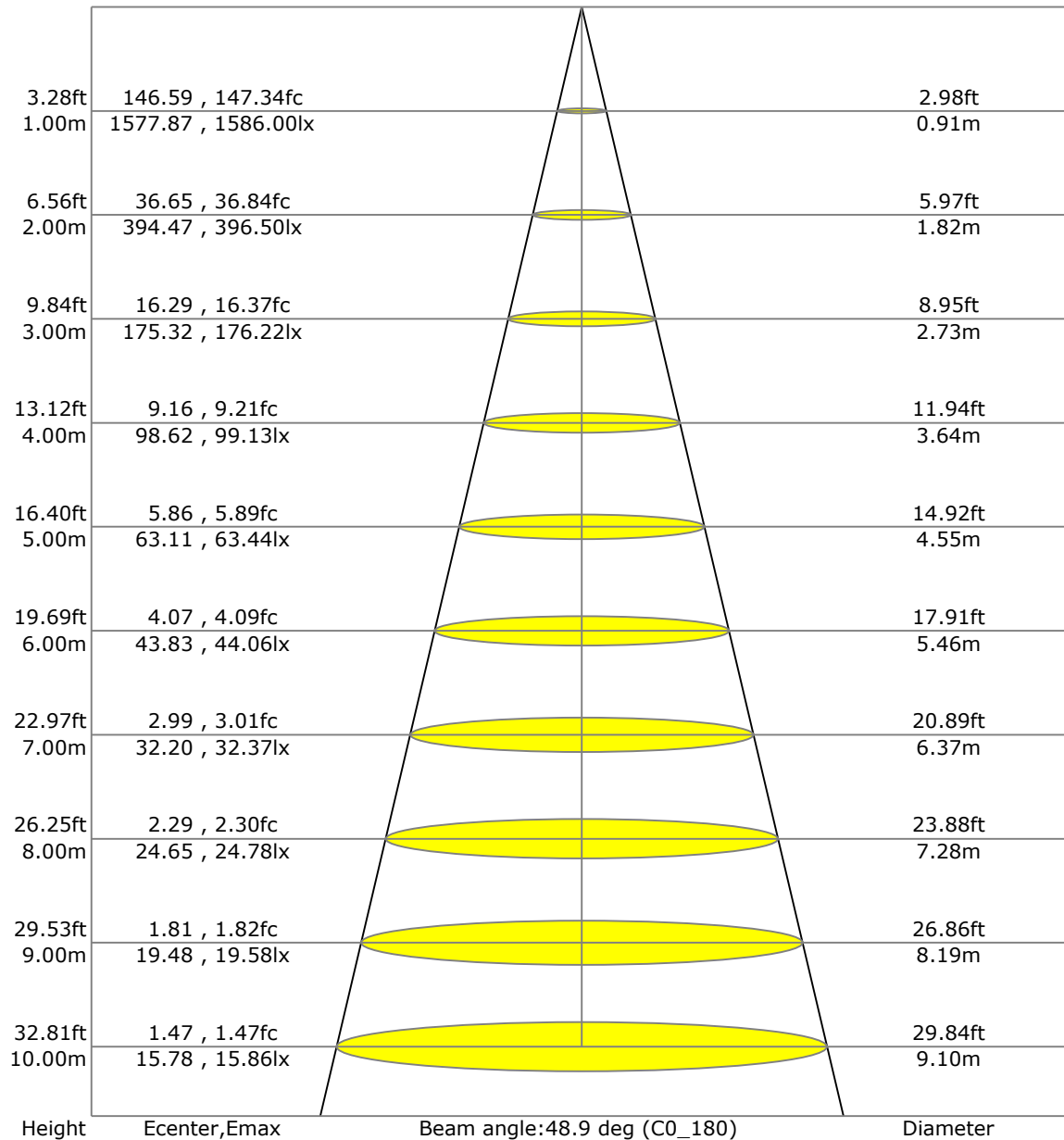
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 17:52:09

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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	11.76	11.81	11.96	12.00	12.24	11.80	11.86	12.00	12.04	12.29
3H	11.75	11.80	11.95	11.99	12.24	11.79	11.84	11.99	12.03	12.28
4H	11.74	11.79	11.95	11.98	12.23	11.77	11.82	11.98	12.02	12.27
6H	11.72	11.77	11.93	11.97	12.22	11.76	11.81	11.97	12.01	12.26
8H	11.71	11.76	11.93	11.96	12.22	11.75	11.80	11.97	12.00	12.25
12H	11.70	11.75	11.92	11.96	12.21	11.74	11.79	11.96	11.99	12.25
4H 2H	11.89	11.94	12.10	12.13	12.38	12.10	12.15	12.31	12.35	12.59
3H	11.88	11.93	12.10	12.13	12.39	12.09	12.14	12.31	12.34	12.60
4H	11.86	11.91	12.09	12.12	12.38	12.07	12.12	12.29	12.33	12.59
6H	11.84	11.89	12.08	12.11	12.37	12.04	12.09	12.28	12.31	12.58
8H	11.83	11.88	12.07	12.10	12.37	12.03	12.08	12.27	12.30	12.57
12H	11.81	11.86	12.06	12.09	12.36	12.02	12.06	12.26	12.29	12.56
8H 4H	11.87	11.92	12.08	12.12	12.37	12.16	12.21	12.38	12.41	12.67
6H	11.80	11.85	12.06	12.09	12.36	12.11	12.15	12.36	12.39	12.66
8H	11.79	11.83	12.05	12.08	12.35	12.09	12.14	12.35	12.38	12.66
12H	11.77	11.82	12.04	12.07	12.35	12.08	12.12	12.34	12.37	12.65
12H 4H	11.82	11.86	12.07	12.10	12.36	12.17	12.22	12.42	12.45	12.72
6H	11.79	11.83	12.05	12.08	12.35	12.15	12.19	12.41	12.44	12.71

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

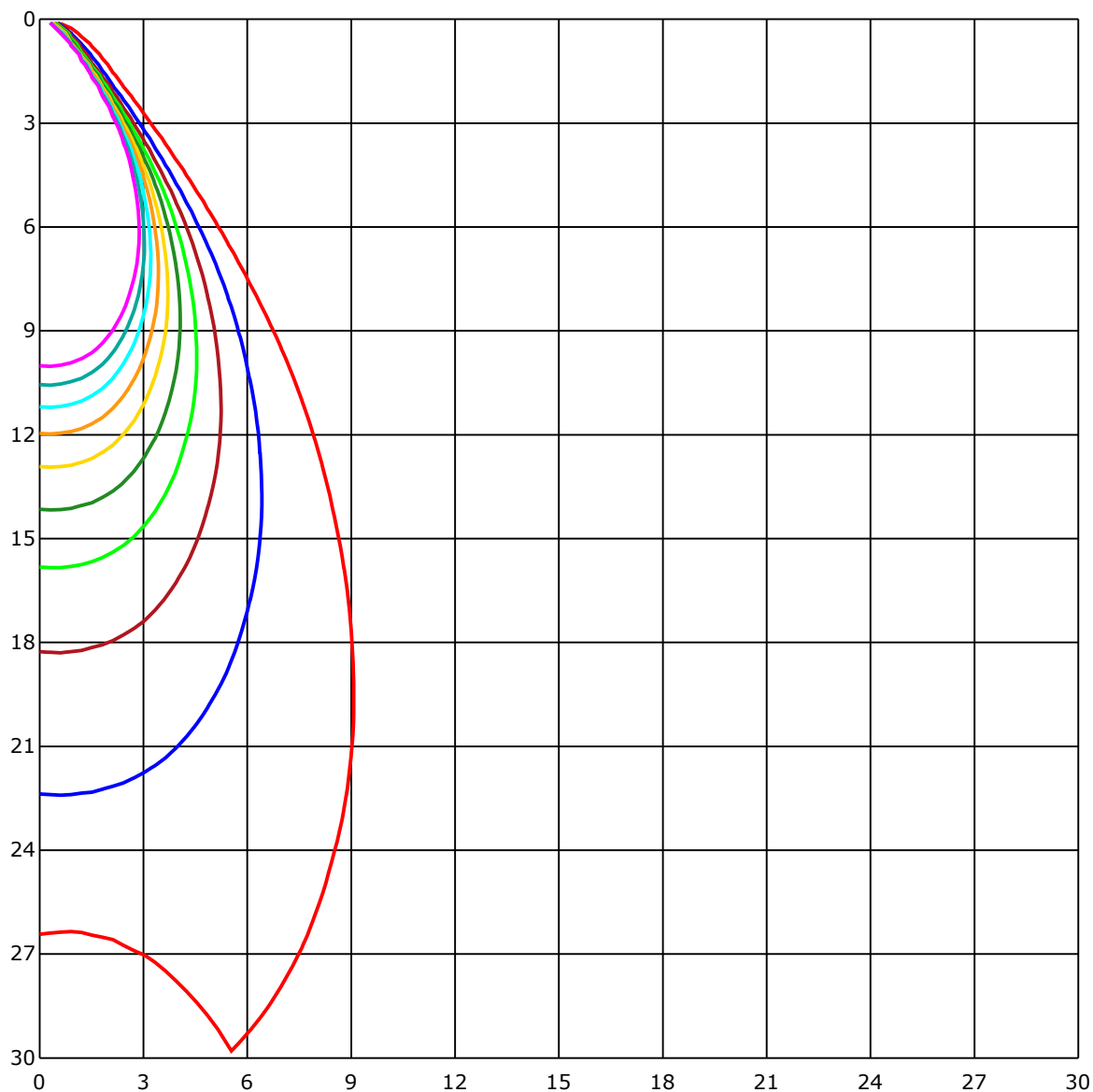
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

15.761	7.881
14.185	6.305
12.609	4.728
11.033	3.152
9.457	1.576

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1577.87	1575.57	1579.47	1566.37	1577.87	1575.57	1579.47	1566.37	1577.87	
G1	1581.87	1571.38	1582.14	1554.65	1565.78	1572.35	1575.06	1574.46	1581.87	
G2	1586.0	1562.6	1576.44	1544.08	1554.51	1572.07	1567.25	1582.05	1586.0	
G3	1581.96	1549.14	1578.33	1530.84	1540.59	1570.92	1557.46	1579.84	1581.96	
G4	1581.5	1534.01	1567.02	1515.03	1529.69	1564.08	1542.7	1581.08	1581.5	
G5	1570.65	1517.92	1559.29	1493.97	1506.98	1555.98	1533.97	1576.35	1570.65	
G6	1565.59	1499.67	1546.38	1468.51	1486.3	1546.06	1517.6	1571.89	1565.59	
G7	1550.15	1475.54	1528.96	1442.95	1461.57	1530.47	1500.0	1563.06	1550.15	
G8	1532.45	1447.55	1508.18	1416.33	1438.54	1511.81	1477.24	1550.51	1532.45	
G9	1513.0	1415.05	1485.47	1383.51	1406.77	1492.78	1456.14	1533.74	1513.0	
G10	1489.1	1379.05	1454.39	1345.77	1377.77	1469.75	1426.81	1514.02	1489.1	
G11	1457.8	1340.94	1423.23	1305.73	1345.77	1447.41	1393.26	1490.85	1457.8	
G12	1424.33	1296.31	1387.05	1264.5	1313.96	1422.08	1357.54	1463.27	1424.33	
G13	1387.97	1250.16	1348.3	1220.05	1276.36	1389.03	1321.59	1430.12	1387.97	
G14	1347.38	1201.98	1305.64	1176.79	1236.69	1355.56	1281.05	1397.53	1347.38	
G15	1305.14	1155.32	1262.94	1130.27	1194.81	1322.83	1239.45	1363.97	1305.14	
G16	1262.11	1109.49	1215.96	1077.59	1153.99	1284.54	1196.56	1327.43	1262.11	
G17	1212.51	1056.12	1169.11	1027.03	1109.82	1247.17	1150.91	1287.35	1212.51	
G18	1163.87	1005.93	1120.8	976.46	1065.41	1205.43	1101.54	1245.38	1163.87	
G19	1111.7	957.66	1070.1	924.7	1019.21	1163.18	1054.1	1198.17	1111.7	
G20	1063.39	906.59	1016.32	874.09	973.29	1119.7	1005.19	1149.76	1063.39	
G21	1013.74	854.69	965.52	824.63	926.81	1073.96	955.96	1099.66	1013.74	
G22	961.71	803.34	917.3	775.21	880.62	1025.46	906.86	1053.14	961.71	
G23	908.43	753.05	869.68	725.38	830.01	980.64	860.53	1005.79	908.43	
G24	856.53	698.72	818.84	672.29	781.05	932.01	811.62	955.73	856.53	
G25	801.64	647.37	767.3	620.3	729.7	880.94	761.1	908.34	801.64	
G26	748.23	595.61	716.05	570.38	680.38	829.82	711.13	862.74	748.23	
G27	694.31	545.46	666.77	521.24	631.42	777.56	663.14	812.91	694.31	
G28	644.25	496.23	614.05	471.82	581.22	726.35	612.71	761.88	644.25	
G29	592.58	449.2	564.86	421.71	532.13	673.25	562.75	711.32	592.58	
G30	542.2	403.05	515.35	375.88	484.97	621.91	512.92	661.03	542.2	
G31	494.02	361.13	466.72	331.16	436.47	571.66	464.51	609.36	494.02	
G32	449.66	320.72	417.26	289.69	391.47	520.82	416.01	560.49	449.66	
G33	405.07	283.26	371.75	248.96	349.5	472.74	371.29	509.88	405.07	
G34	362.74	245.89	329.59	209.8	310.33	425.81	328.12	463.04	362.74	
G35	322.47	209.8	287.67	174.04	270.94	381.81	287.07	414.04	322.47	
G36	284.04	177.53	244.92	142.64	233.75	338.6	247.13	368.3	284.04	

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: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	242.9	149.9	205.39	116.94	198.54	298.84	207.59	324.95	242.9	
G38	206.86	126.64	171.09	96.63	168.34	259.81	171.69	282.52	206.86	
G39	175.6	106.32	142.64	79.57	143.42	223.5	142.36	240.92	175.6	
G40	147.05	89.18	118.6	65.37	121.91	190.03	117.27	202.63	147.05	
G41	122.97	75.02	99.02	53.83	103.61	161.12	96.4	169.58	122.97	
G42	102.6	62.98	82.56	44.59	88.31	136.89	79.3	141.17	102.6	
G43	85.36	52.91	69.6	37.88	75.3	115.43	65.32	117.68	85.36	
G44	71.43	44.45	58.84	32.36	65.05	97.68	54.33	98.23	71.43	
G45	60.17	37.92	50.61	28.09	56.13	83.62	45.32	82.65	60.17	
G46	50.8	32.73	43.72	24.78	49.09	71.48	38.38	70.15	50.8	
G47	42.7	28.5	38.71	22.25	43.03	61.6	32.82	59.76	42.7	
G48	36.54	25.33	34.71	20.18	38.52	53.32	28.55	51.71	36.54	
G49	31.3	22.66	31.63	18.3	34.75	46.38	25.37	44.64	31.3	
G50	27.54	20.36	28.96	17.15	31.72	41.05	22.52	39.67	27.54	
G51	24.32	18.71	26.89	15.58	29.33	36.87	20.5	35.53	24.32	
G52	21.83	17.1	25.05	14.57	27.08	33.51	18.71	32.32	21.83	
G53	19.77	15.86	23.63	13.61	25.28	30.71	17.24	29.6	19.77	
G54	17.97	14.62	22.11	12.78	23.67	28.32	15.91	27.44	17.97	
G55	16.55	13.61	20.82	11.81	22.2	26.2	14.89	25.7	16.55	
G56	15.4	12.64	19.63	11.12	21.01	24.36	13.84	24.13	15.4	
G57	14.11	11.86	18.8	10.43	19.67	22.85	13.01	22.57	14.11	
G58	13.1	11.12	17.7	9.75	18.66	21.38	12.18	21.38	13.1	
G59	12.18	10.43	16.87	9.1	17.51	20.18	11.49	20.23	12.18	
G60	11.4	9.75	15.91	8.6	16.78	19.08	10.71	19.12	11.4	
G61	10.71	9.15	15.12	7.95	15.81	17.93	9.98	18.11	10.71	
G62	9.98	8.5	14.34	7.45	14.99	16.96	9.47	17.28	9.98	
G63	9.29	7.91	13.61	6.9	14.11	16.09	9.01	16.36	9.29	
G64	8.78	7.31	12.96	6.34	13.42	15.31	8.32	15.63	8.78	
G65	8.0	6.67	12.32	5.88	12.6	14.43	7.72	14.85	8.0	
G66	7.4	6.11	11.68	5.33	12.04	13.56	7.13	14.11	7.4	
G67	6.85	5.56	11.22	4.87	11.26	12.83	6.76	13.33	6.85	
G68	6.25	5.06	10.25	4.5	10.57	12.0	6.16	12.6	6.25	
G69	5.84	4.6	9.65	3.82	9.84	11.49	5.65	11.91	5.84	
G70	5.24	4.05	9.06	3.54	9.24	10.76	5.01	11.35	5.24	
G71	4.69	3.4	8.55	2.94	8.5	10.07	4.5	10.53	4.69	
G72	4.23	2.85	7.77	2.53	7.81	9.38	4.0	9.88	4.23	
G73	3.59	2.3	7.13	1.98	7.22	8.73	3.49	9.15	3.59	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:52:09

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Remarks: