

Report No.:

Test Time: 2025/1/7 14:52:07

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H92-45°-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 86 mm

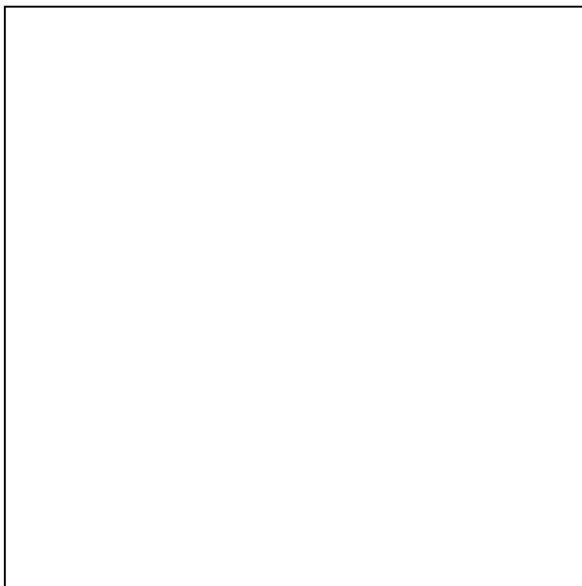
Voltage(V): 228.00 V
Current(A): 0.0520 A
Power(W): 10.82 W
Power Factor: 0.9050
Lamp Luminous Flux: 831.27

Photometric Results

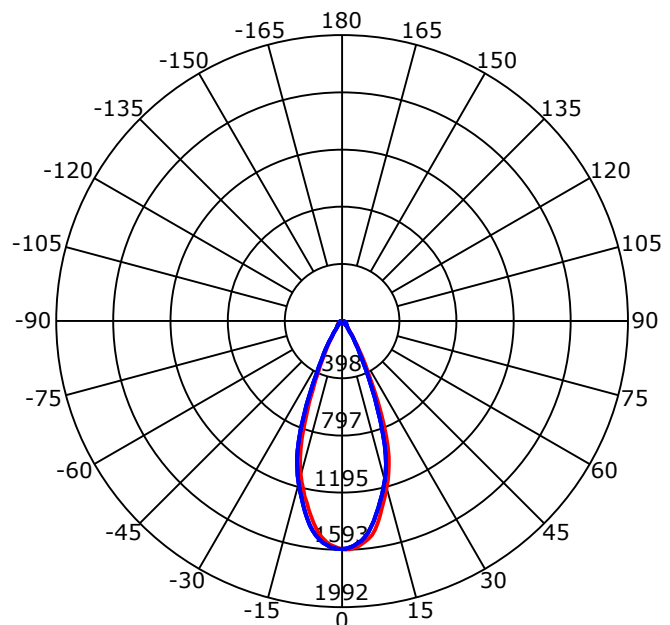
CIE Class: Direct
Luminaire Luminous Flux: 831.269 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 76.80 lm/W
Beam Angle(50%) C0-180,C90-270: 41.5,41.6
Field Angle(10%) C0-180,C90-270: 64.8,64.6
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 1593.22 cd
Max.Intensity Angle: C=315 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1588.76 cd
Effective Luminous Flux: 706.55 lm
ERP(ϕ use)(120deg): 812.02 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 41.5 deg,41.6 deg

C0-180 — C90-270 —

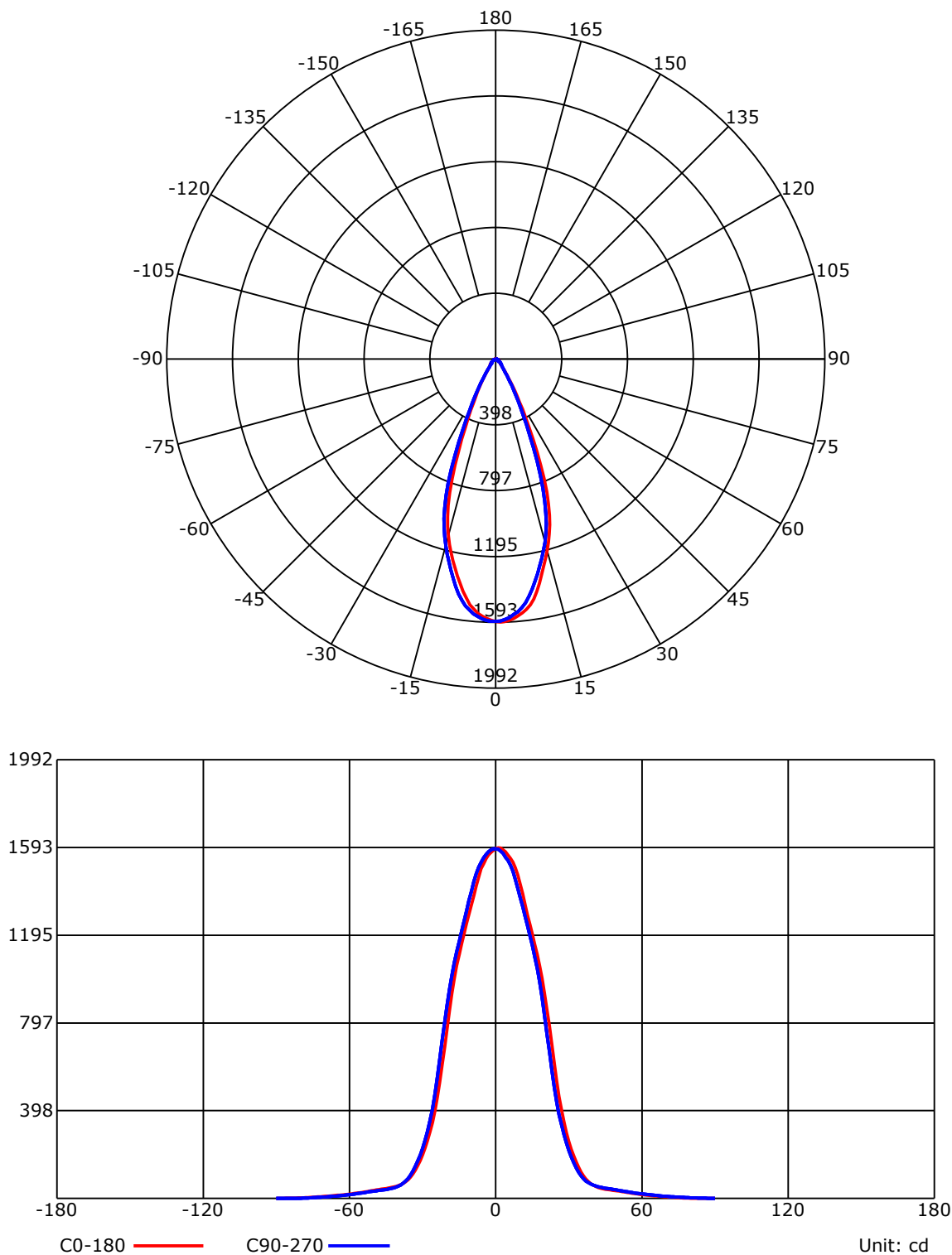
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:52:07

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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Luminous Intensity Distribution Curve



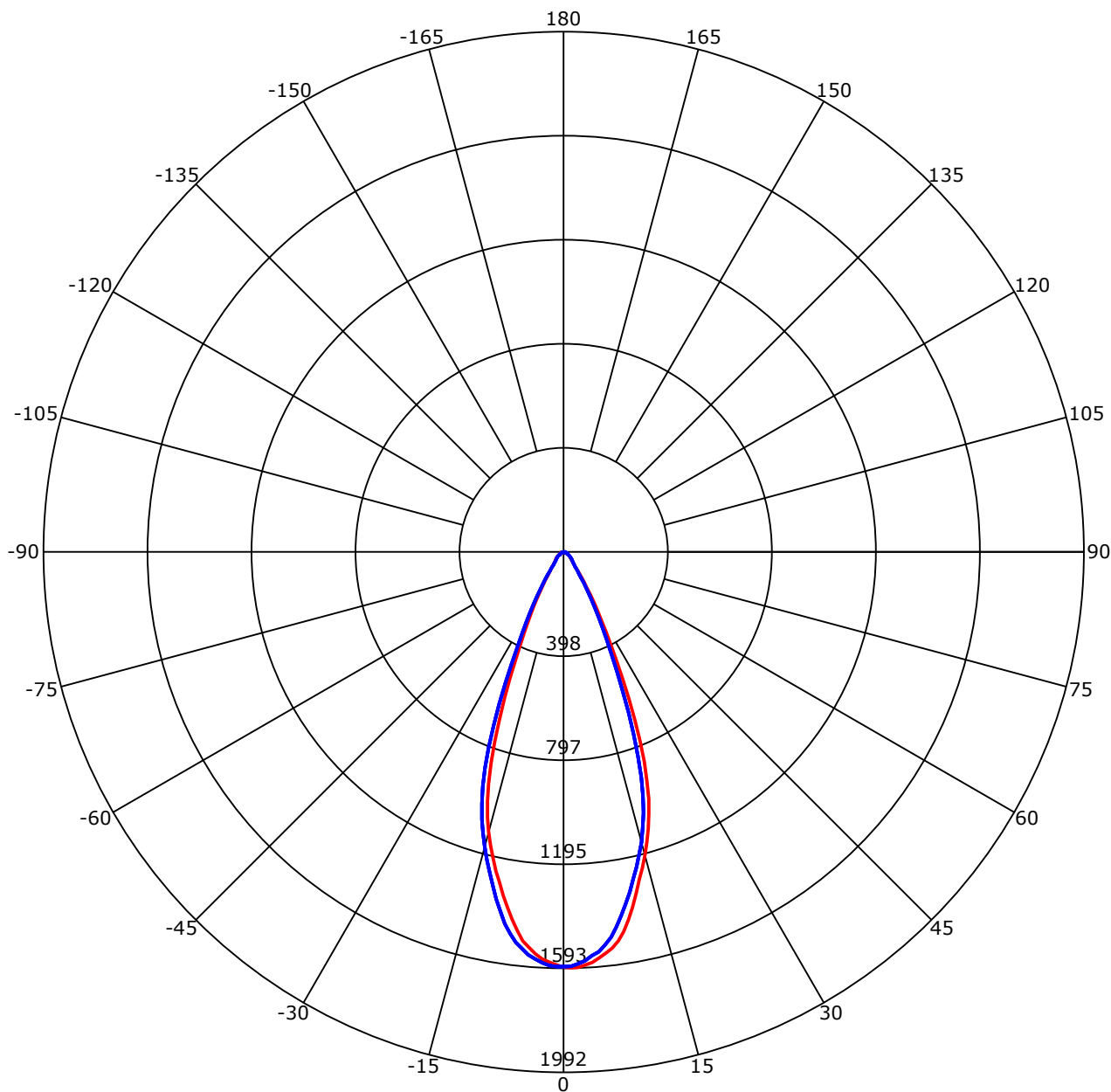
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
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Luminous Intensity Distribution Curve



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 14:52:07

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

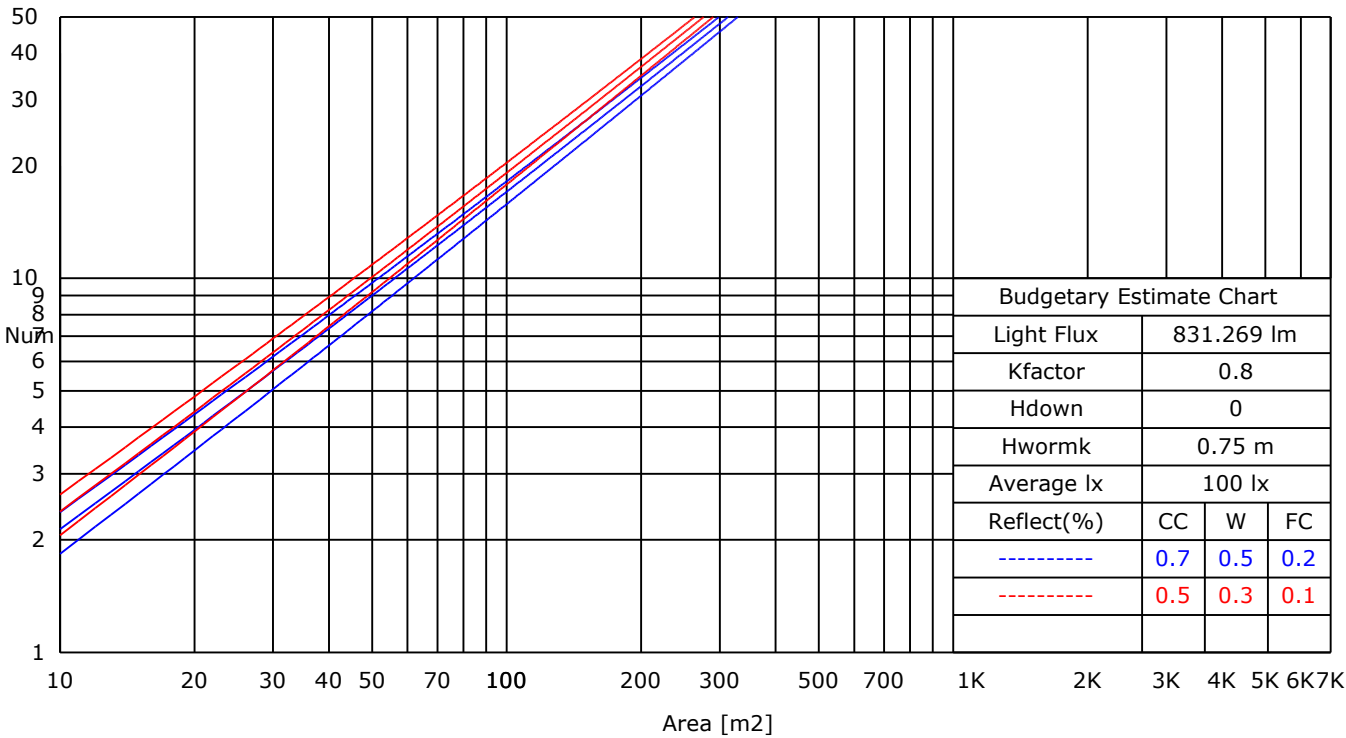
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UTILIZATION FACTORS TABLE

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	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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.92	0.91	0.89	0.91	0.89	0.87	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.72	0.68
5	0.86	0.85	0.83	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.69	0.65
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.72	0.75	0.71	0.67	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	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	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



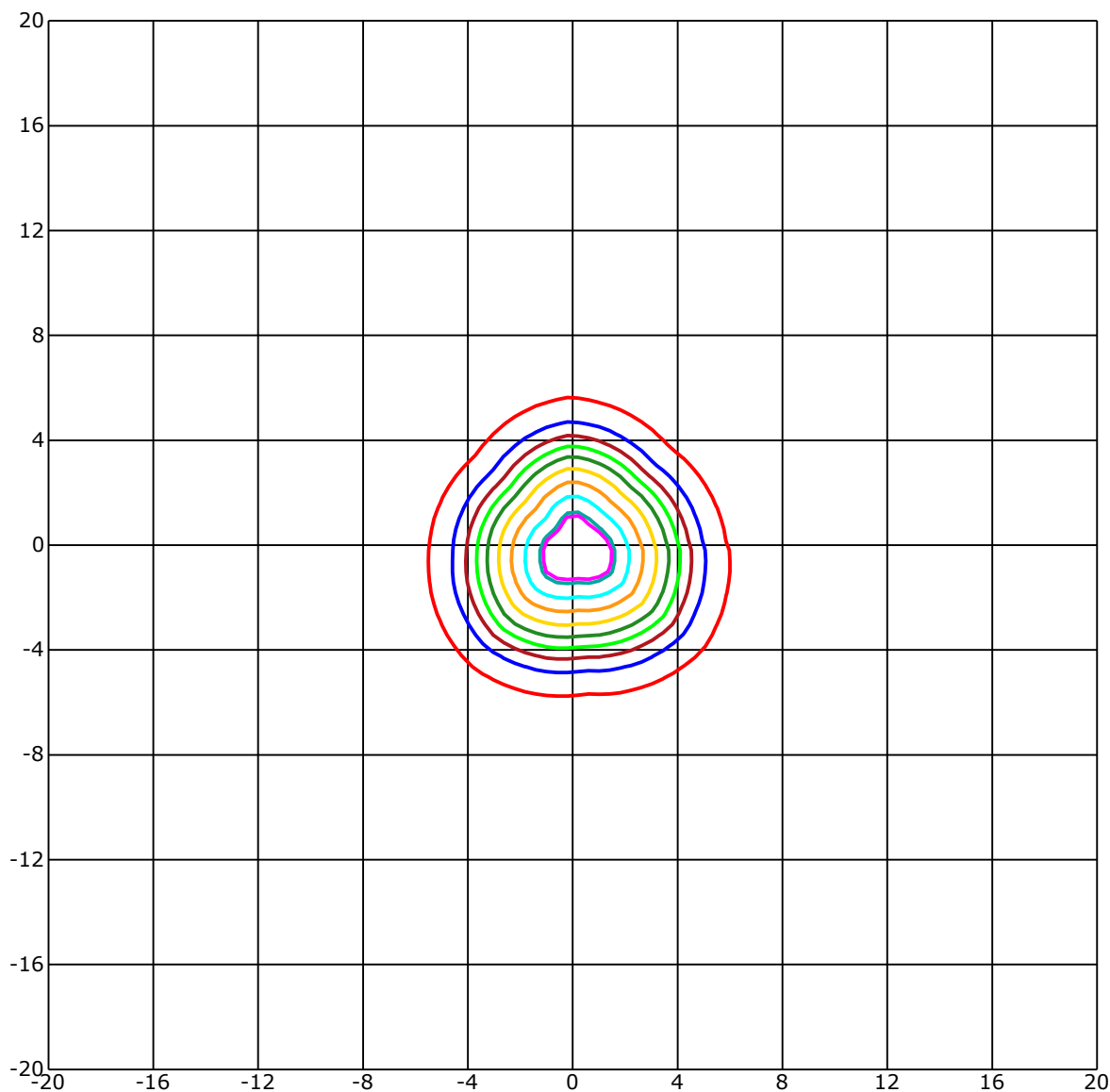
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Operators: QC01
Test Date: 2025/1/7 14:52:07

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



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

14.636(92%Emax)	7.954(50%Emax)
14.318(90%Emax)	6.364(40%Emax)
12.727(80%Emax)	4.773(30%Emax)
11.136(70%Emax)	3.182(20%Emax)
9.545(60%Emax)	1.591(10%Emax)

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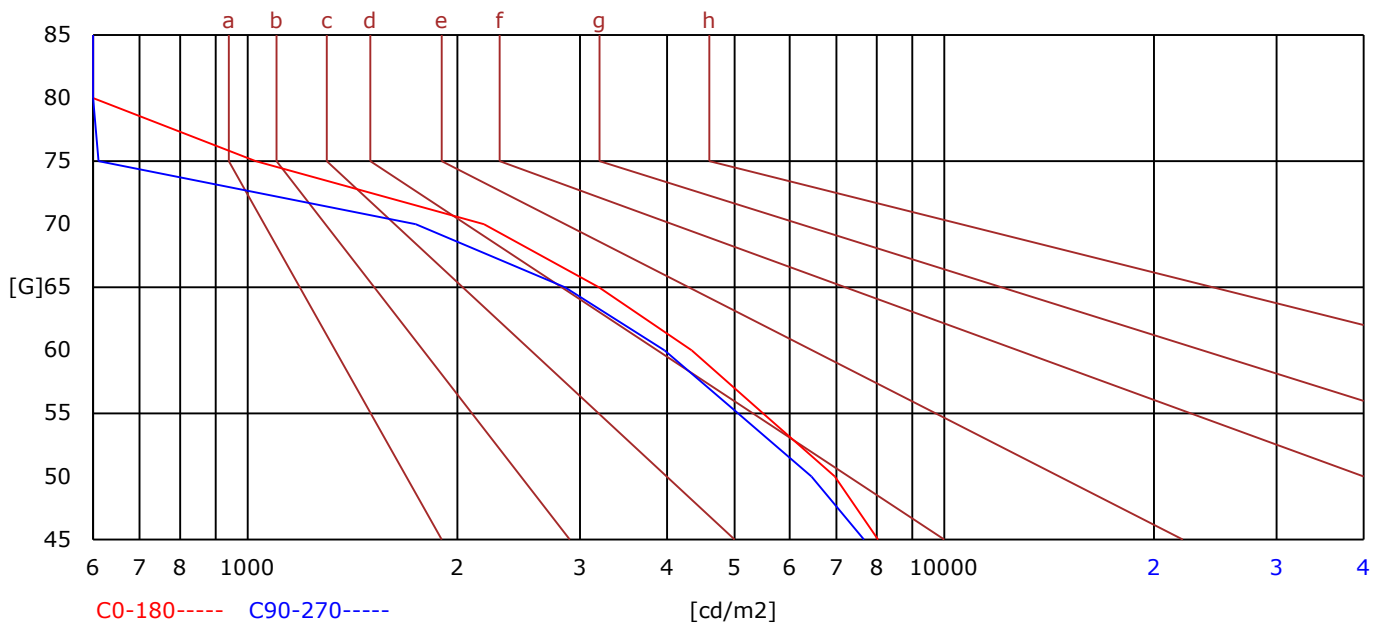
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8035	6961	5497	4338	3195	2184	1027	0	0
C90	7669	6447	5059	3965	2855	1743	611	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



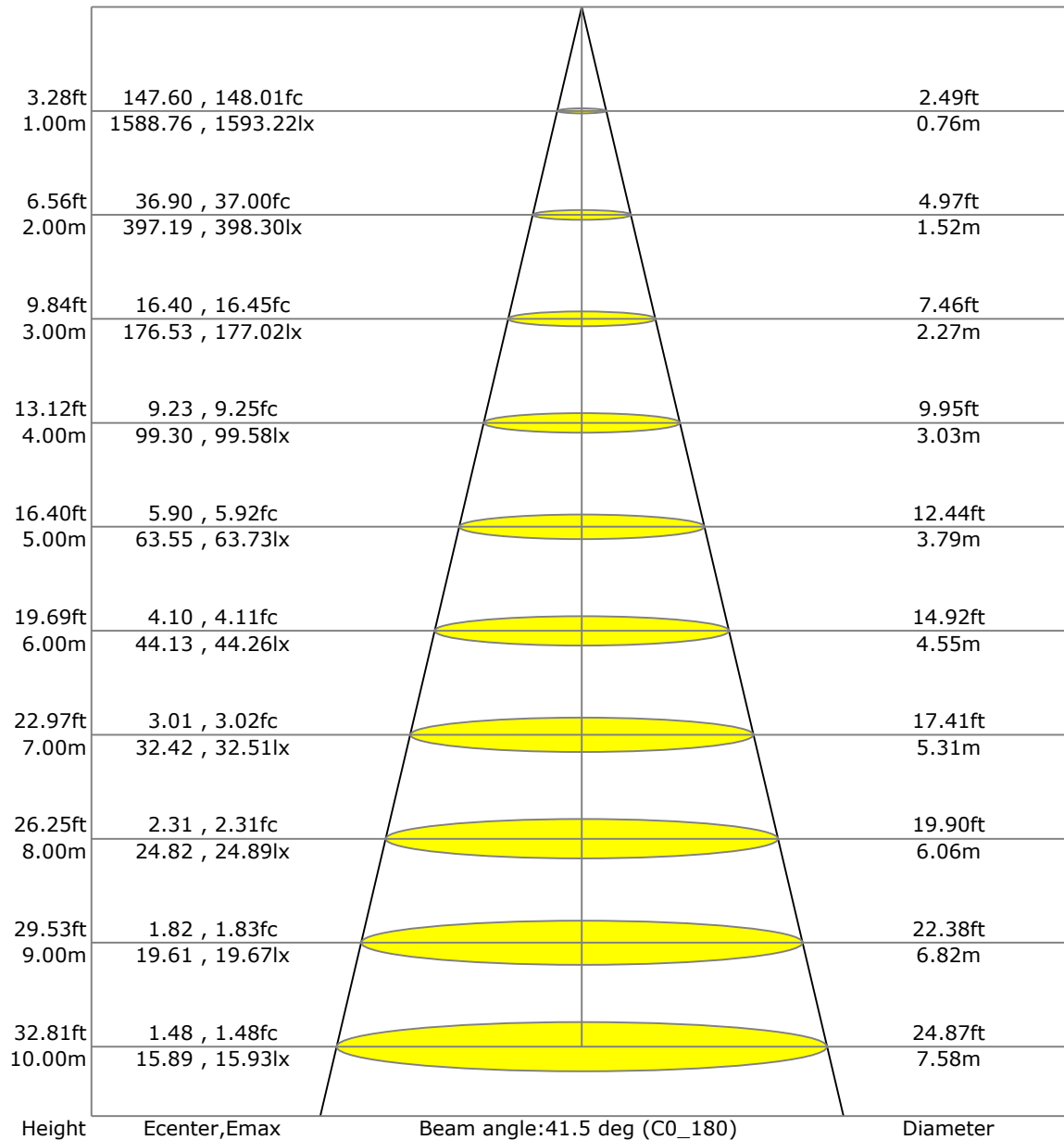
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 14:52:07

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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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	9.74	9.79	9.94	9.98	10.22	9.96	10.01	10.16	10.20	10.44
3H	9.78	9.83	9.98	10.02	10.27	9.98	10.03	10.18	10.22	10.47
4H	9.77	9.83	9.98	10.02	10.27	9.97	10.02	10.18	10.22	10.47
6H	9.76	9.81	9.97	10.01	10.26	9.95	10.01	10.17	10.21	10.46
8H	9.75	9.80	9.97	10.01	10.26	9.94	10.00	10.16	10.20	10.45
12H	9.74	9.79	9.96	10.00	10.25	9.93	9.99	10.16	10.19	10.45
4H 2H	10.44	10.50	10.65	10.69	10.94	10.91	10.96	11.12	11.16	11.41
3H	10.49	10.55	10.72	10.75	11.01	10.95	11.00	11.17	11.21	11.46
4H	10.49	10.54	10.72	10.75	11.01	10.93	10.99	11.16	11.20	11.46
6H	10.47	10.52	10.71	10.74	11.00	10.91	10.96	11.15	11.18	11.45
8H	10.46	10.51	10.70	10.73	11.00	10.90	10.95	11.14	11.18	11.44
12H	10.44	10.49	10.69	10.72	10.99	10.89	10.93	11.13	11.17	11.44
8H 4H	10.45	10.50	10.67	10.70	10.96	11.04	11.09	11.26	11.29	11.55
6H	10.46	10.51	10.71	10.74	11.02	11.05	11.10	11.31	11.34	11.61
8H	10.44	10.49	10.71	10.74	11.01	11.04	11.08	11.30	11.33	11.60
12H	10.43	10.47	10.70	10.73	11.01	11.02	11.06	11.29	11.32	11.60
12H 4H	10.47	10.52	10.72	10.75	11.02	11.11	11.16	11.36	11.39	11.66
6H	10.44	10.49	10.71	10.73	11.01	11.08	11.13	11.35	11.37	11.65

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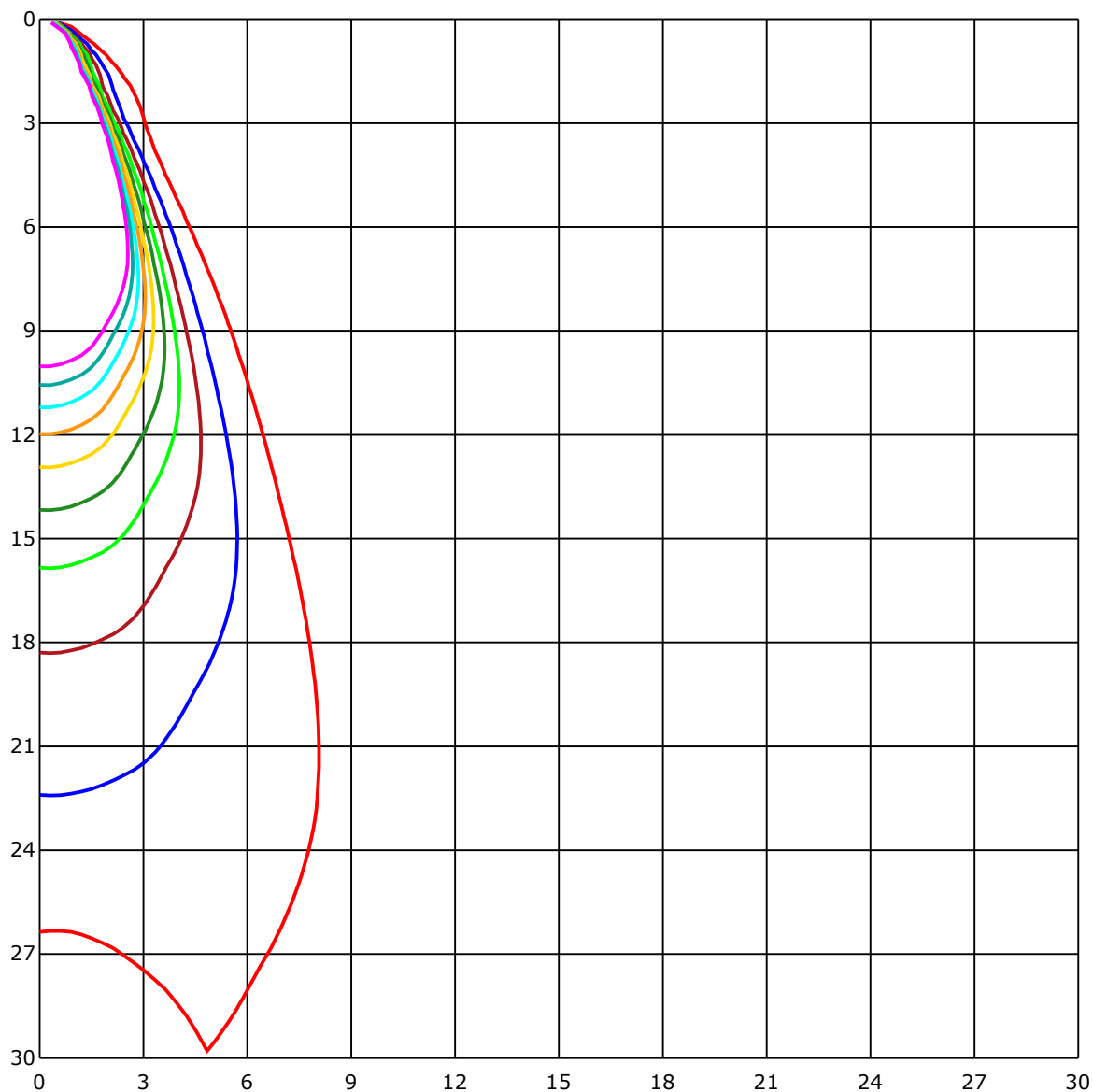
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1588.76	1576.67	1586.92	1561.59	1588.76	1576.67	1586.92	1561.59	1588.76	
G1	1591.61	1565.36	1585.45	1545.18	1580.35	1584.67	1586.88	1576.39	1591.61	
G2	1590.6	1554.47	1576.67	1524.22	1570.51	1586.46	1582.97	1587.01	1590.6	
G3	1582.69	1537.28	1566.83	1504.5	1559.71	1581.73	1574.33	1593.22	1582.69	
G4	1574.14	1519.12	1549.09	1475.4	1542.52	1577.45	1561.59	1591.15	1574.14	
G5	1559.43	1497.01	1535.71	1449.75	1519.26	1567.34	1547.57	1586.65	1559.43	
G6	1543.94	1468.32	1512.59	1405.25	1496.59	1555.76	1525.88	1579.75	1543.94	
G7	1527.16	1430.12	1485.65	1359.15	1458.35	1536.31	1504.73	1574.51	1527.16	
G8	1502.39	1385.3	1448.79	1312.21	1419.78	1515.9	1474.76	1555.8	1502.39	
G9	1470.67	1340.07	1409.25	1270.84	1375.42	1490.3	1440.33	1539.85	1470.67	
G10	1429.2	1294.88	1367.56	1222.07	1334.1	1456.28	1396.11	1513.65	1429.2	
G11	1383.88	1247.67	1324.86	1175.04	1288.77	1422.17	1352.3	1482.02	1383.88	
G12	1334.83	1205.2	1280.04	1126.36	1248.27	1382.82	1304.77	1443.68	1334.83	
G13	1286.2	1159.37	1237.61	1078.01	1202.35	1337.08	1259.4	1399.05	1286.2	
G14	1245.88	1113.54	1193.85	1021.1	1157.71	1293.83	1215.41	1355.56	1245.88	
G15	1201.61	1063.34	1149.95	957.8	1108.21	1249.7	1167.74	1314.93	1201.61	
G16	1155.6	1006.89	1098.69	888.48	1057.23	1204.6	1119.93	1268.22	1155.6	
G17	1106.97	941.2	1043.53	814.7	997.19	1159.46	1070.28	1227.4	1106.97	
G18	1055.3	867.1	981.75	735.08	930.81	1113.36	1013.37	1181.34	1055.3	
G19	1000.04	785.05	911.23	655.1	853.04	1060.63	950.03	1136.89	1000.04	
G20	932.47	700.01	831.29	575.29	771.12	1004.32	879.51	1081.22	932.47	
G21	860.39	613.91	749.33	502.43	686.26	934.45	802.29	1024.91	860.39	
G22	781.78	530.52	664.43	434.31	603.66	858.97	716.0	958.72	781.78	
G23	698.35	455.87	580.49	377.91	525.92	775.21	631.15	887.88	698.35	
G24	615.2	391.15	504.32	327.48	457.66	688.38	549.09	807.76	615.2	
G25	534.2	336.63	437.8	283.99	396.85	598.83	473.06	725.93	534.2	
G26	460.93	291.03	379.88	247.03	344.72	518.39	407.42	644.61	460.93	
G27	398.36	252.55	331.06	214.67	299.9	446.77	352.3	565.78	398.36	
G28	345.73	217.48	287.76	186.31	262.66	386.41	305.51	493.2	345.73	
G29	297.97	186.03	250.71	160.66	229.57	335.11	265.1	429.99	297.97	
G30	258.25	158.32	217.52	138.18	199.04	292.59	229.15	374.64	258.25	
G31	222.9	133.54	187.64	118.23	172.01	253.42	197.53	326.38	222.9	
G32	192.33	112.62	160.25	101.04	148.52	220.05	170.5	282.8	192.33	
G33	164.93	95.8	137.77	87.2	127.93	189.16	146.32	246.16	164.93	
G34	140.62	82.19	118.32	75.43	110.69	162.87	124.62	213.34	140.62	
G35	119.75	71.21	102.42	66.47	96.12	139.61	106.55	185.3	119.75	
G36	102.6	62.84	89.41	59.21	84.35	119.89	90.79	159.74	102.6	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	88.21	56.59	78.84	53.97	74.97	103.02	78.33	138.04	88.21	
G38	76.31	51.99	70.79	49.69	67.94	89.87	68.54	119.2	76.31	
G39	66.93	48.08	64.91	46.06	62.52	79.25	61.05	103.47	66.93	
G40	60.03	45.32	60.13	43.39	58.38	71.25	55.67	90.42	60.03	
G41	54.43	42.89	56.54	41.23	54.89	65.09	51.16	80.35	54.43	
G42	50.29	41.1	53.46	39.35	52.27	60.63	47.21	72.03	50.29	
G43	46.47	39.3	50.98	37.69	49.83	56.68	44.54	65.83	46.47	
G44	43.95	37.88	48.77	36.09	47.49	53.92	42.29	60.91	43.95	
G45	41.83	36.36	46.61	34.71	45.46	51.35	40.54	57.05	41.83	
G46	39.99	34.98	44.64	33.42	43.9	49.42	38.84	53.97	39.99	
G47	38.38	33.51	43.12	31.86	42.15	47.03	37.33	51.35	38.38	
G48	36.73	32.09	41.28	30.29	40.54	45.46	35.99	48.96	36.73	
G49	35.3	30.43	39.67	28.45	38.71	43.72	34.57	46.8	35.3	
G50	34.02	28.64	37.69	26.52	36.87	42.11	33.05	44.82	34.02	
G51	32.45	26.71	35.76	24.78	34.75	40.54	31.72	43.16	32.45	
G52	30.84	25.01	33.69	23.08	32.82	38.89	30.06	41.51	30.84	
G53	28.91	23.31	31.95	21.61	30.89	36.82	28.13	39.85	28.91	
G54	27.12	21.65	29.93	20.0	29.1	34.71	26.2	37.79	27.12	
G55	25.19	20.18	28.13	18.57	27.35	32.68	24.73	35.67	25.19	
G56	23.54	18.94	26.34	17.24	25.7	30.89	22.89	33.6	23.54	
G57	21.97	17.47	24.78	16.0	24.18	28.96	21.47	31.81	21.97	
G58	20.46	16.18	23.21	14.99	22.85	27.26	19.9	29.7	20.46	
G59	18.98	14.99	21.93	13.7	21.24	25.65	18.57	28.18	18.98	
G60	17.65	13.88	20.36	12.69	19.9	24.23	17.24	26.43	17.65	
G61	16.27	12.69	19.12	11.49	18.62	22.57	16.04	24.73	16.27	
G62	15.17	11.54	17.84	10.53	17.51	21.15	14.66	23.21	15.17	
G63	13.88	10.62	16.73	9.56	16.23	19.9	13.56	21.7	13.88	
G64	12.73	9.65	15.49	8.64	15.31	18.66	12.41	20.27	12.73	
G65	11.63	8.64	14.62	7.72	14.2	17.42	11.45	19.03	11.63	
G66	10.8	7.72	13.38	6.76	13.1	16.23	10.34	17.84	10.8	
G67	9.75	6.99	12.55	6.07	12.04	14.99	9.42	16.59	9.75	
G68	8.73	6.25	11.49	5.24	11.17	14.11	8.5	15.35	8.73	
G69	7.81	5.47	10.53	4.55	10.25	13.06	7.72	14.39	7.81	
G70	6.99	4.78	9.56	3.82	9.38	12.14	6.9	13.24	6.99	
G71	6.16	4.09	8.83	3.26	8.46	11.03	6.07	12.32	6.16	
G72	5.42	3.49	8.09	2.57	7.77	10.3	5.19	11.22	5.42	
G73	4.73	2.9	7.31	1.98	6.99	9.33	4.6	10.3	4.73	

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Test Distance: 6.78 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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