

Report No.:

Test Time: 2024/5/23 14:49:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H74-45°-10.6W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

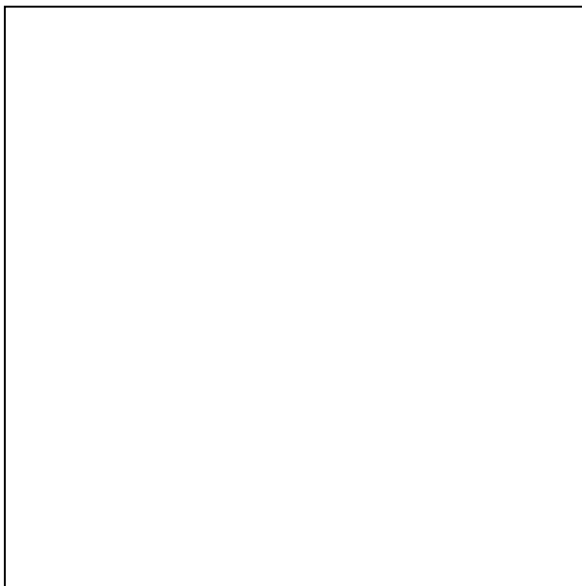
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.62 W
Power Factor: 0.9180
Lamp Luminous Flux: 1130.33

Photometric Results

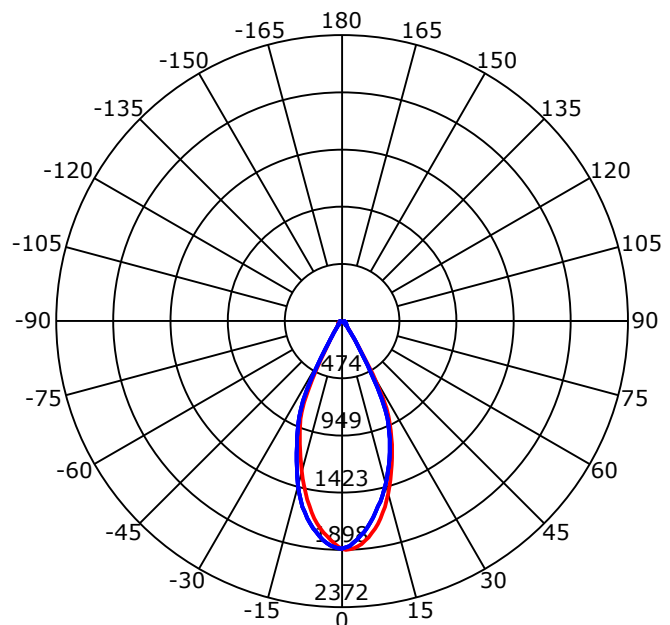
CIE Class: Direct
Luminaire Luminous Flux: 1130.325 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.43 lm/W
Beam Angle(50%) C0-180,C90-270: 46.4,46.8
Field Angle(10%) C0-180,C90-270: 66.6,66.9
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 1897.77 cd
Max.Intensity Angle: C=315 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1888.57 cd
Effective Luminous Flux: 972.17 lm
ERP(ϕ use)(120deg): 1087.59 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.4 deg,46.8 deg

C0-180 — C90-270 —

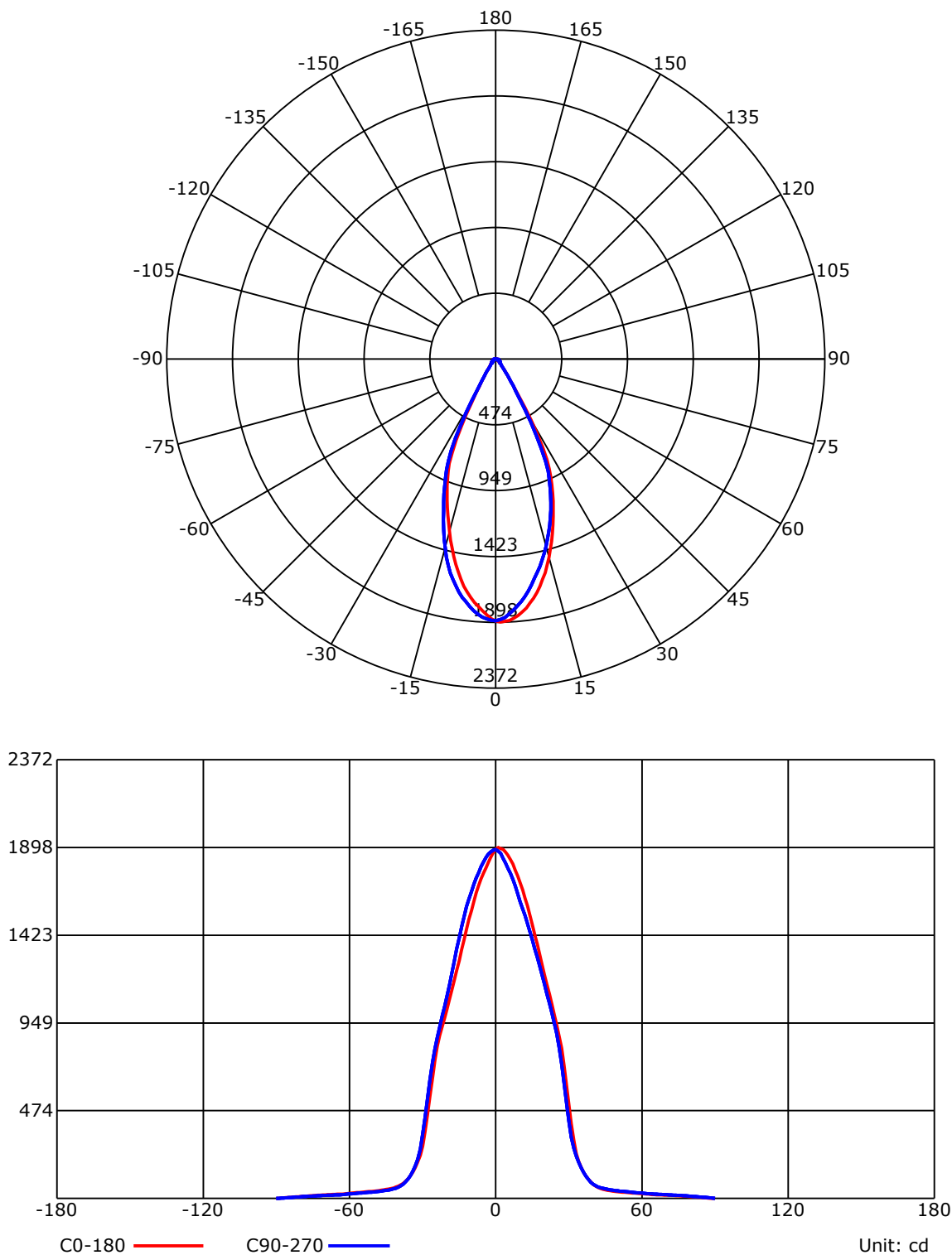
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:49:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

Test Time: 2024/5/23 14:49:20

Luminous Intensity Distribution Curve



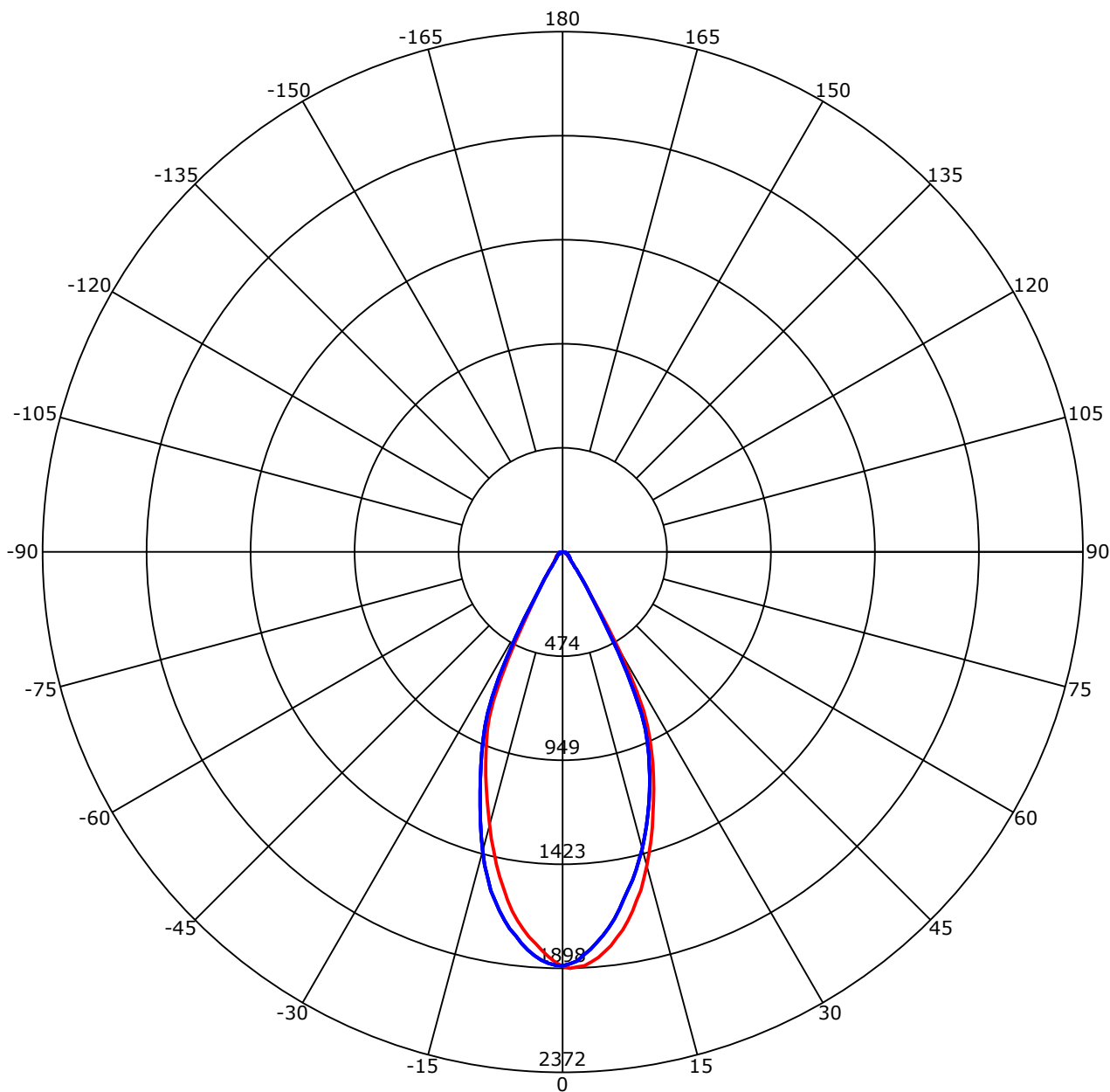
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Operators: QC01
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Luminous Intensity Distribution Curve



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: 2024/5/23 14:49:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

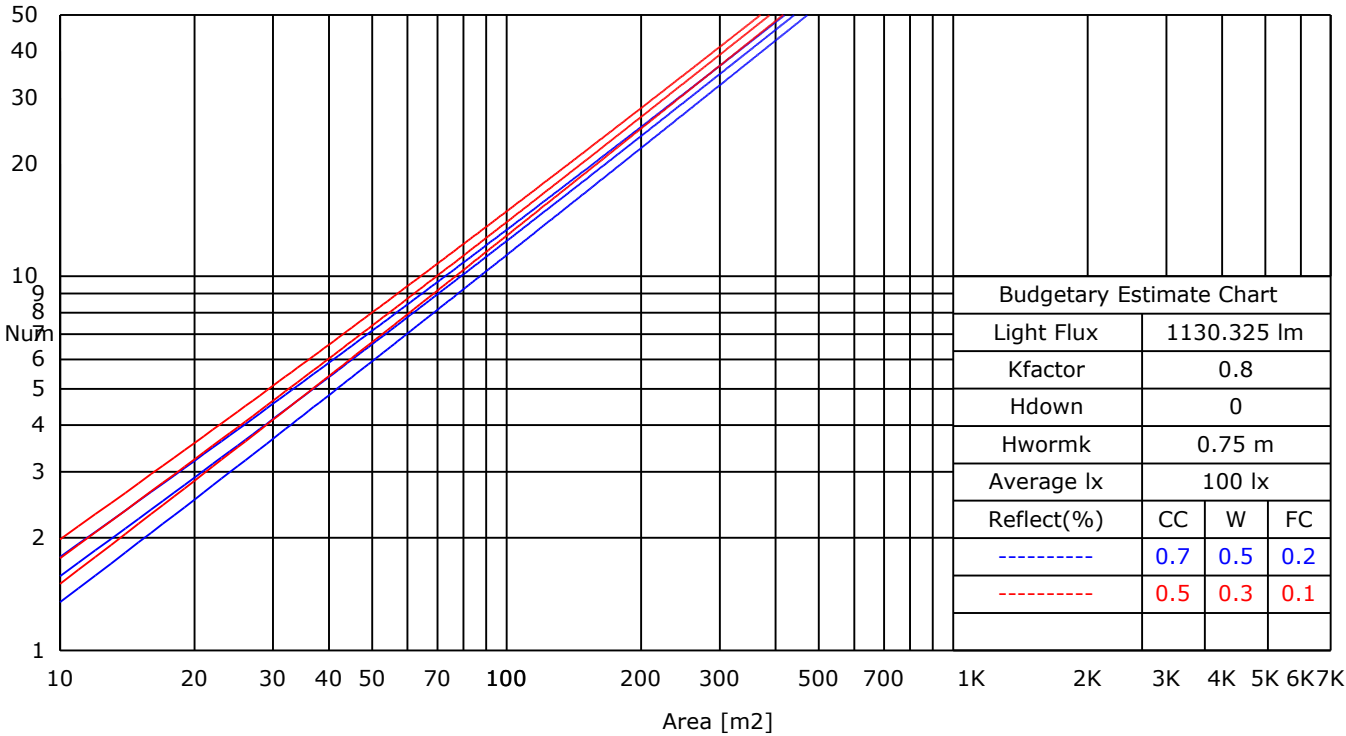
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UTILIZATION FACTORS TABLE

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	1.05	1.03	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.85	0.81	0.79	0.74
3	0.94	0.92	0.90	0.93	0.90	0.89	0.90	0.87	0.85	0.86	0.83	0.80	0.82	0.78	0.75	0.71
4	0.90	0.88	0.87	0.89	0.87	0.85	0.86	0.83	0.81	0.83	0.80	0.77	0.79	0.76	0.72	0.68
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	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	0.81	0.79	0.77	0.78	0.76	0.74	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	0.72	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	0.74	0.73	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



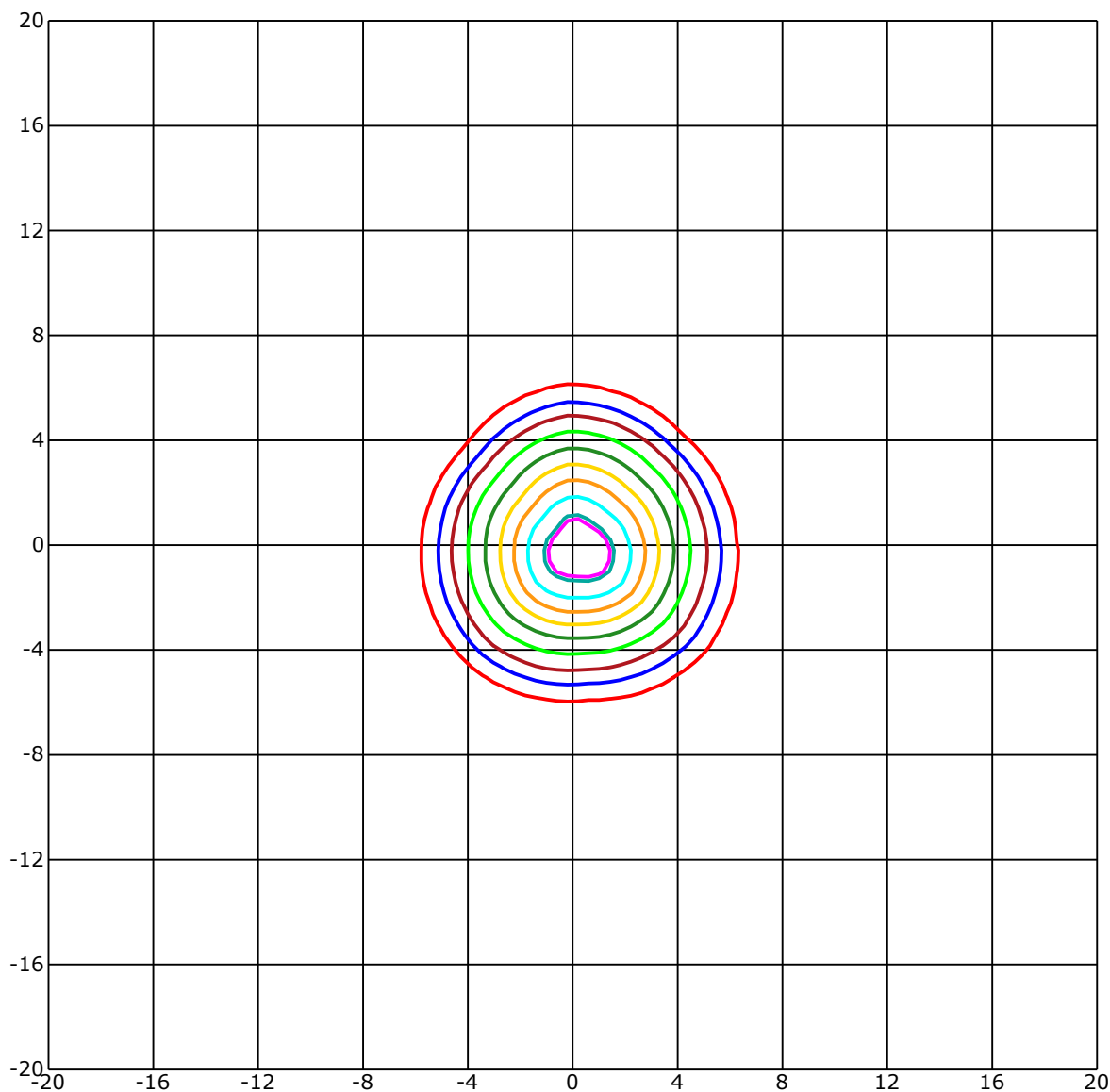
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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

17.451(92%Emax)	9.484(50%Emax)
17.072(90%Emax)	7.587(40%Emax)
15.175(80%Emax)	5.691(30%Emax)
13.278(70%Emax)	3.794(20%Emax)
11.381(60%Emax)	1.897(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 14:49:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

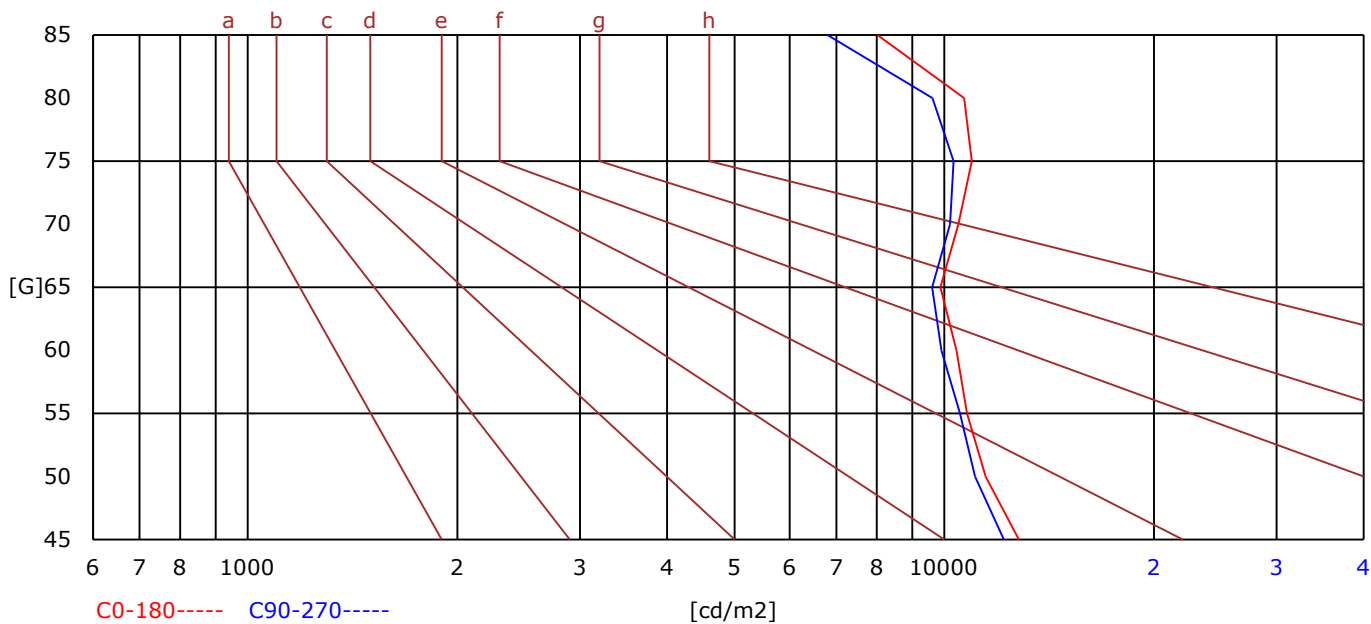
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12796	11463	10782	10407	9878	10474	10953	10678	8020
C90	12178	11071	10528	9902	9602	10190	10315	9616	6795
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



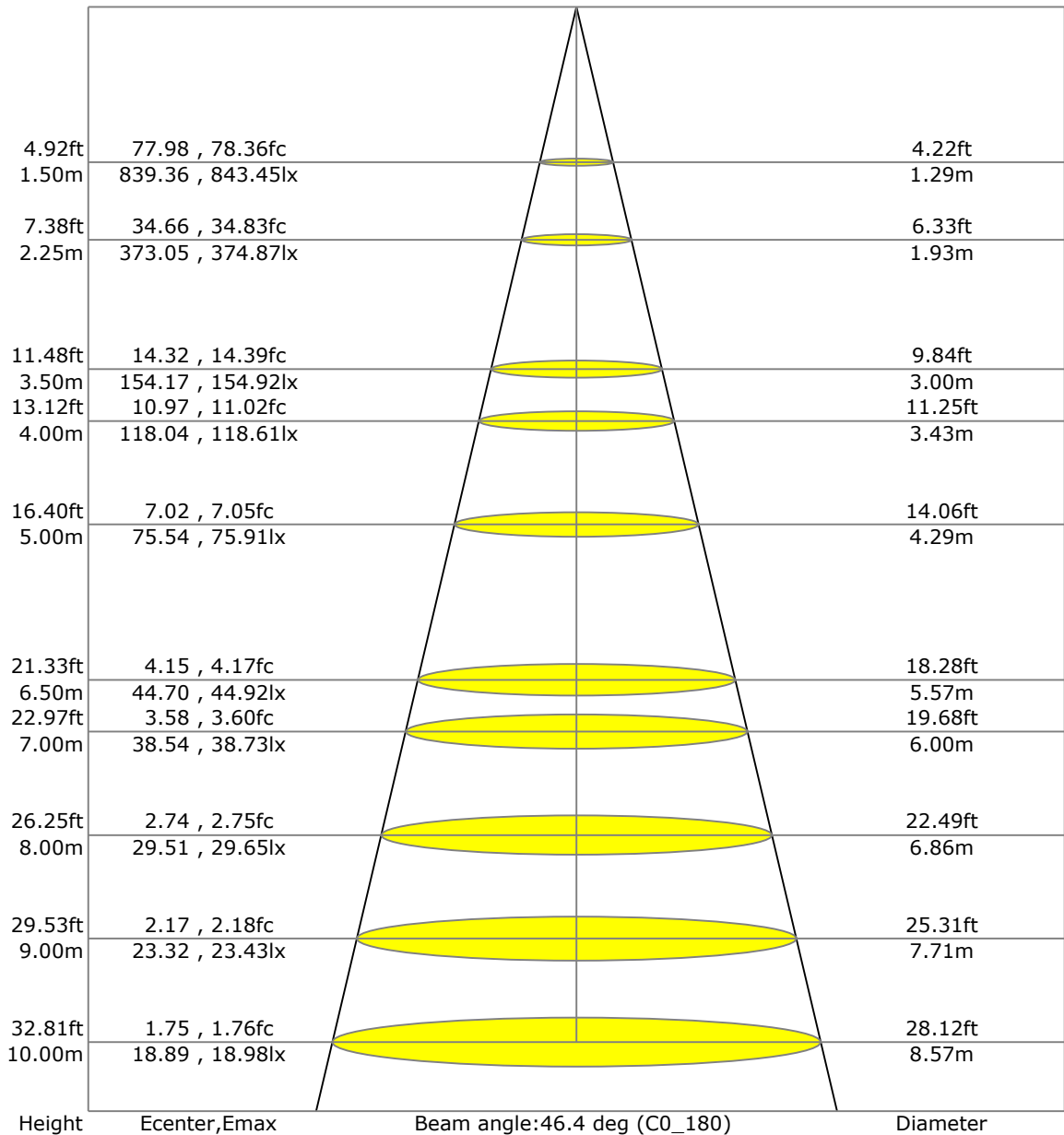
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.7 m
Remarks:

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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: 2024/5/23 14:49:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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	11.75	11.81	11.95	11.99	12.24	11.90	11.95	12.10	12.14	12.38
	3H	11.88	11.94	12.09	12.13	12.38	12.01	12.06	12.21	12.25	12.50
	4H	11.91	11.96	12.12	12.16	12.41	12.03	12.08	12.24	12.28	12.53
	6H	11.91	11.96	12.13	12.16	12.42	12.02	12.08	12.24	12.28	12.53
	8H	11.90	11.95	12.12	12.16	12.41	12.01	12.07	12.23	12.27	12.52
	12H	11.89	11.94	12.11	12.15	12.40	12.00	12.06	12.23	12.26	12.52
4H	2H	13.53	13.59	13.74	13.78	14.03	13.90	13.95	14.11	14.15	14.40
	3H	13.87	13.93	14.09	14.13	14.39	14.21	14.26	14.43	14.47	14.72
	4H	13.97	14.03	14.20	14.24	14.50	14.29	14.34	14.52	14.56	14.81
	6H	14.02	14.07	14.25	14.29	14.55	14.32	14.37	14.56	14.59	14.85
	8H	14.02	14.07	14.26	14.30	14.56	14.32	14.37	14.56	14.59	14.86
	12H	14.01	14.06	14.26	14.29	14.56	14.31	14.35	14.55	14.59	14.86
8H	4H	14.19	14.24	14.41	14.45	14.70	14.71	14.77	14.93	14.97	15.22
	6H	14.96	15.01	15.22	15.25	15.52	15.45	15.49	15.70	15.73	16.00
	8H	14.99	15.03	15.25	15.28	15.55	15.46	15.50	15.72	15.75	16.03
	12H	14.99	15.03	15.26	15.29	15.57	15.46	15.50	15.72	15.75	16.03
12H	4H	15.03	15.07	15.27	15.31	15.57	15.64	15.69	15.89	15.92	16.19
	6H	15.17	15.21	15.43	15.46	15.73	15.78	15.82	16.04	16.07	16.34

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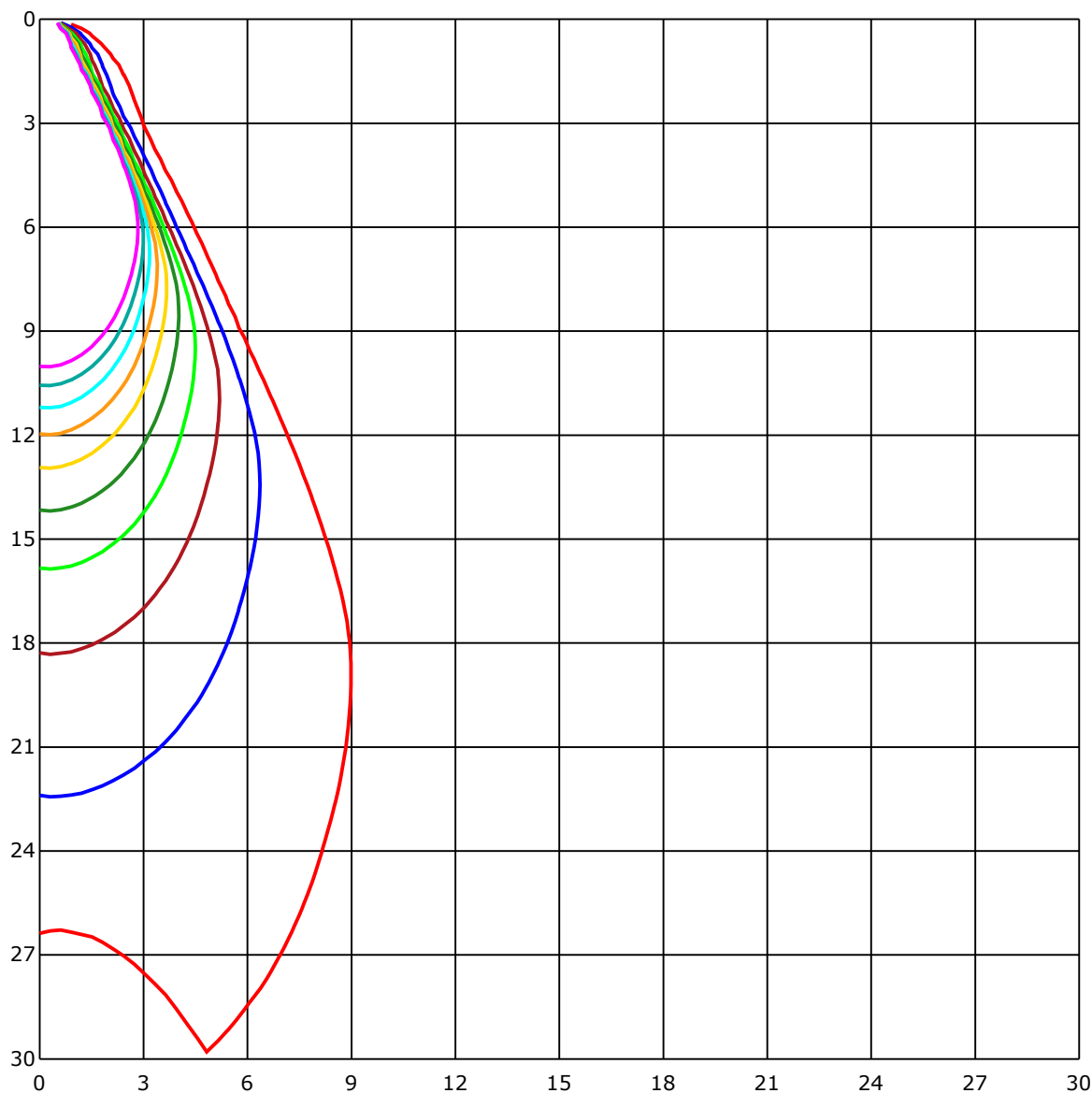
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

18.831	9.415
16.947	7.532
15.064	5.649
13.181	3.766
11.298	1.883

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1888.57	1885.96	1886.14	1865.67	1888.57	1885.96	1886.14	1865.67	1888.57	
G1	1897.73	1872.14	1877.84	1840.71	1871.06	1882.55	1883.94	1883.85	1897.73	
G2	1892.74	1856.65	1865.81	1809.38	1846.37	1878.38	1875.55	1887.85	1892.74	
G3	1888.34	1836.99	1839.23	1782.49	1819.17	1862.94	1862.8	1897.77	1888.34	
G4	1872.81	1808.21	1814.86	1746.63	1788.78	1840.67	1844.31	1890.18	1872.81	
G5	1856.11	1775.09	1786.22	1714.17	1761.48	1814.99	1821.86	1879.95	1856.11	
G6	1831.6	1744.25	1757.4	1678.39	1728.36	1789.85	1793.98	1864.19	1831.6	
G7	1808.35	1708.24	1725.3	1635.88	1693.39	1764.09	1762.07	1846.51	1808.35	
G8	1775.04	1671.66	1689.39	1592.47	1653.75	1733.65	1734.64	1825.95	1775.04	
G9	1745.01	1629.1	1648.77	1551.53	1606.88	1695.94	1699.49	1800.0	1745.01	
G10	1708.2	1592.92	1605.36	1507.63	1556.16	1659.0	1659.85	1766.29	1708.2	
G11	1668.2	1555.39	1565.31	1454.53	1508.53	1617.07	1618.02	1735.81	1668.2	
G12	1622.55	1517.37	1529.18	1406.18	1454.89	1569.98	1577.52	1696.39	1622.55	
G13	1582.01	1473.38	1486.85	1351.64	1399.09	1518.14	1524.15	1656.13	1582.01	
G14	1531.6	1424.63	1443.39	1299.03	1347.19	1465.93	1470.55	1606.7	1531.6	
G15	1482.18	1379.52	1399.76	1253.91	1287.09	1407.84	1409.77	1557.28	1482.18	
G16	1428.45	1328.7	1351.59	1199.46	1231.78	1353.39	1349.71	1502.47	1428.45	
G17	1375.83	1276.94	1304.37	1150.62	1180.02	1292.79	1282.87	1446.58	1375.83	
G18	1320.35	1227.65	1257.1	1095.72	1127.19	1229.72	1219.03	1384.81	1320.35	
G19	1263.56	1176.48	1207.45	1047.64	1077.09	1172.39	1155.33	1326.32	1263.56	
G20	1209.79	1125.8	1158.79	994.9	1025.38	1115.88	1097.02	1262.98	1209.79	
G21	1157.94	1072.24	1106.72	944.62	977.75	1063.04	1040.46	1207.0	1157.94	
G22	1104.38	1020.31	1054.06	891.02	926.8	1010.92	983.58	1146.09	1104.38	
G23	1050.88	965.49	1002.53	834.95	880.65	956.61	927.2	1088.54	1050.88	
G24	994.22	907.63	948.88	759.63	823.96	906.91	871.27	1033.05	994.22	
G25	939.46	841.6	891.78	664.46	745.76	852.15	809.1	981.16	939.46	
G26	879.4	759.81	818.7	561.84	650.01	784.63	735.52	923.84	879.4	
G27	811.66	659.48	724.48	458.46	549.0	700.6	640.18	868.53	811.66	
G28	718.55	553.94	622.71	365.0	452.67	600.09	539.89	795.41	718.55	
G29	614.05	450.02	518.39	288.01	361.63	497.92	439.7	703.11	614.05	
G30	509.05	356.11	418.15	232.22	282.94	400.1	349.78	602.38	509.05	
G31	405.45	278.81	330.03	198.86	232.75	312.21	267.19	498.68	405.45	
G32	312.52	226.34	270.37	170.04	196.66	246.85	210.8	398.8	312.52	
G33	243.44	191.23	228.36	145.35	167.35	204.52	177.27	311.63	243.44	
G34	200.97	161.69	194.82	124.21	142.8	171.61	148.59	246.72	200.97	
G35	169.24	137.09	166.14	105.94	124.12	144.37	123.72	205.46	169.24	
G36	142.71	116.31	142.03	89.2	106.52	123.58	104.46	172.38	142.71	

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Test Distance: 6.7 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	121.74	98.67	120.62	74.97	91.89	106.97	88.84	145.94	121.74	
G38	104.19	83.32	101.9	65.76	80.71	93.46	76.49	123.54	104.19	
G39	88.79	71.2	87.0	59.21	73.04	82.24	67.29	106.57	88.79	
G40	75.55	62.8	76.27	54.23	66.3	73.89	60.56	91.44	75.55	
G41	66.39	56.47	68.77	50.23	61.5	67.38	55.35	81.07	66.39	
G42	59.84	51.67	62.62	46.55	56.92	62.04	51.4	72.45	59.84	
G43	54.0	47.67	57.91	43.99	53.82	57.77	47.9	66.08	54.0	
G44	49.83	44.53	54.68	41.52	51.0	54.63	45.07	61.23	49.83	
G45	46.46	41.84	51.4	39.82	48.8	51.58	42.91	57.41	46.46	
G46	43.59	39.91	49.06	38.2	46.28	49.47	41.39	54.05	43.59	
G47	41.57	38.29	46.28	36.81	44.44	46.87	39.5	51.17	41.57	
G48	39.64	36.59	44.44	35.28	42.65	45.07	38.11	48.84	39.64	
G49	38.34	35.06	42.69	34.16	40.98	43.41	36.63	46.37	38.34	
G50	36.5	34.07	41.39	32.9	39.68	41.7	35.19	44.67	36.5	
G51	35.15	32.68	39.82	32.1	38.38	40.13	34.03	43.23	35.15	
G52	33.98	31.78	38.56	30.84	37.17	39.37	32.9	41.16	33.98	
G53	32.77	30.61	37.08	29.94	35.96	37.66	31.69	39.73	32.77	
G54	31.6	29.63	35.73	28.95	34.57	36.36	30.61	38.2	31.6	
G55	30.57	28.59	34.43	27.92	33.4	35.06	29.49	36.94	30.57	
G56	29.4	27.88	33.62	26.98	32.41	34.07	28.51	35.78	29.4	
G57	28.55	26.93	32.28	25.99	31.47	32.95	27.38	34.66	28.55	
G58	27.65	25.9	31.15	25.0	30.08	31.69	26.49	33.31	27.65	
G59	26.75	24.82	29.99	23.97	28.77	30.61	25.45	32.1	26.75	
G60	25.68	24.06	29.04	22.89	27.61	29.22	24.51	31.06	25.68	
G61	24.69	22.89	27.79	21.32	26.17	27.92	23.12	29.9	24.69	
G62	23.7	22.0	26.84	20.34	24.69	26.66	22.0	28.55	23.7	
G63	22.62	20.65	25.18	19.8	23.88	24.82	20.34	27.47	22.62	
G64	21.01	19.89	24.38	19.3	23.34	24.02	19.66	25.9	21.01	
G65	20.11	19.3	23.84	18.76	22.67	23.57	19.17	24.6	20.11	
G66	19.53	18.81	22.98	18.27	22.04	22.8	18.72	23.57	19.53	
G67	19.12	18.32	22.22	17.87	21.41	21.95	18.18	23.07	19.12	
G68	18.49	17.78	21.77	17.19	20.65	21.28	17.69	22.36	18.49	
G69	18.05	17.46	21.05	16.47	20.02	20.74	17.1	21.86	18.05	
G70	17.46	16.56	20.38	16.12	19.39	20.11	16.61	21.19	17.46	
G71	17.01	15.98	19.71	15.26	18.67	19.35	15.85	20.47	17.01	
G72	16.3	15.44	19.17	14.63	17.96	18.72	15.31	19.75	16.3	
G73	15.53	14.59	18.09	13.96	17.33	17.96	14.5	19.17	15.53	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 14:49:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: