

Report No.:

Test Time: 2024/6/27 18:01:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H90-45°-15W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 68 mm

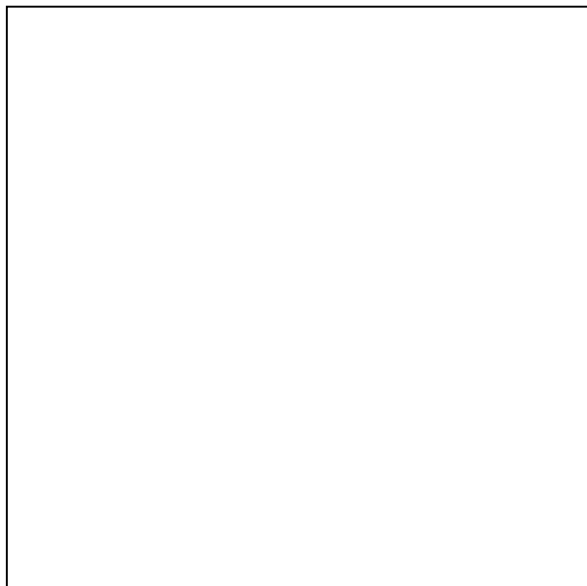
Voltage(V): 218.80 V
Current(A): 0.0730 A
Power(W): 15.33 W
Power Factor: 0.9540
Lamp Luminous Flux: 1414.40

Photometric Results

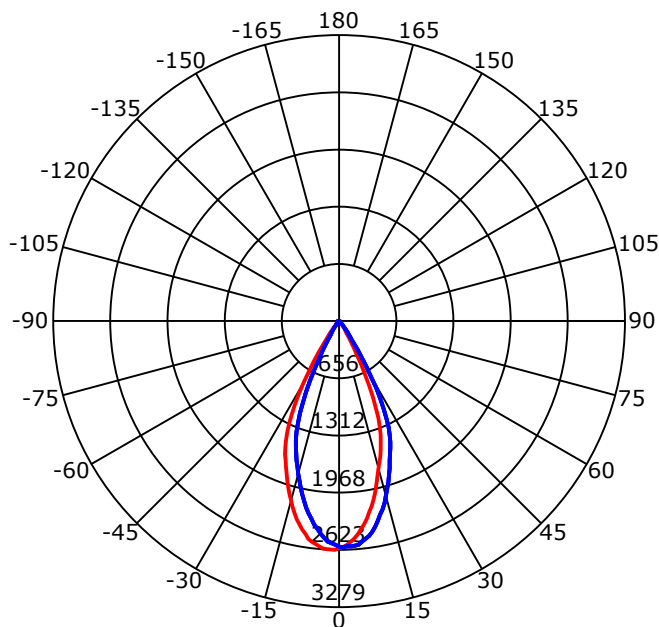
CIE Class: Direct
Luminaire Luminous Flux: 1414.395 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.26 lm/W
Beam Angle(50%) C0-180,C90-270: 46.9,47.1
Field Angle(10%) C0-180,C90-270: 65.0,65.3
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 2623.37 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2604.38 cd
Effective Luminous Flux: 1323.35 lm
ERP(ϕ use)(120deg): 1412.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.9 deg,47.1 deg

C0-180 — C90-270 —

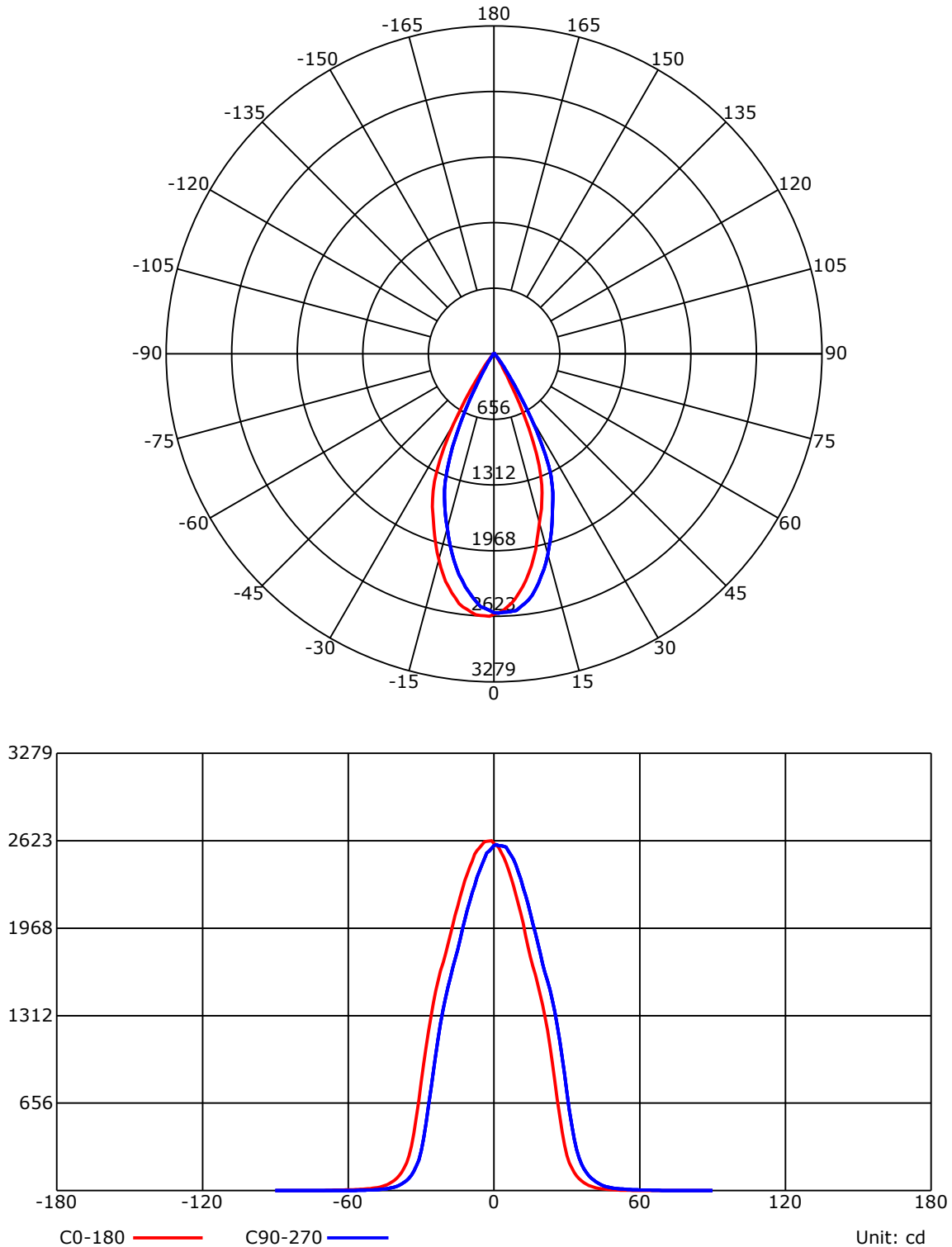
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 18:01:45

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: 2024/6/27 18:01:45

Luminous Intensity Distribution Curve



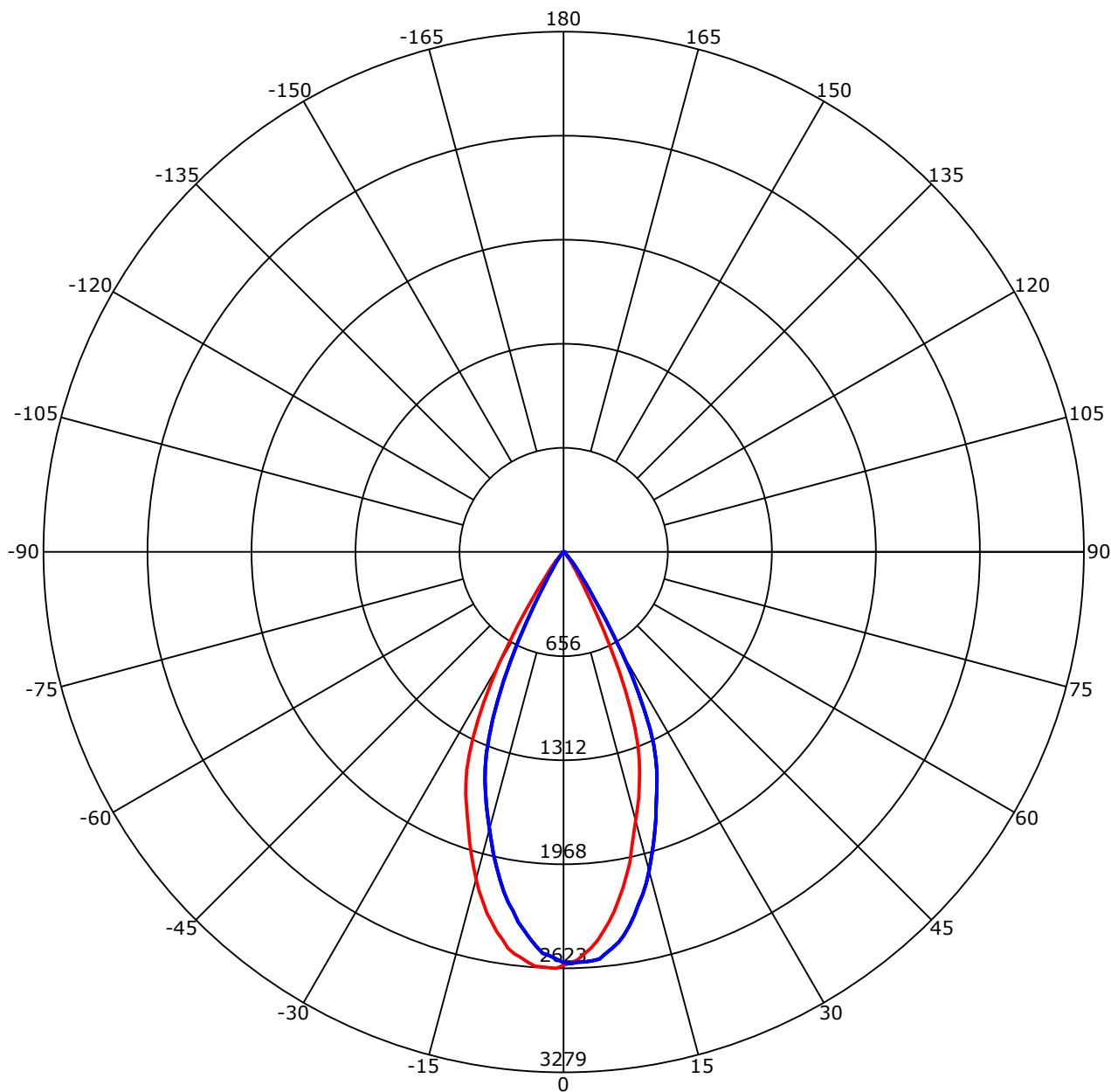
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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Luminous Intensity Distribution Curve



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: 2024/6/27 18:01:45

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

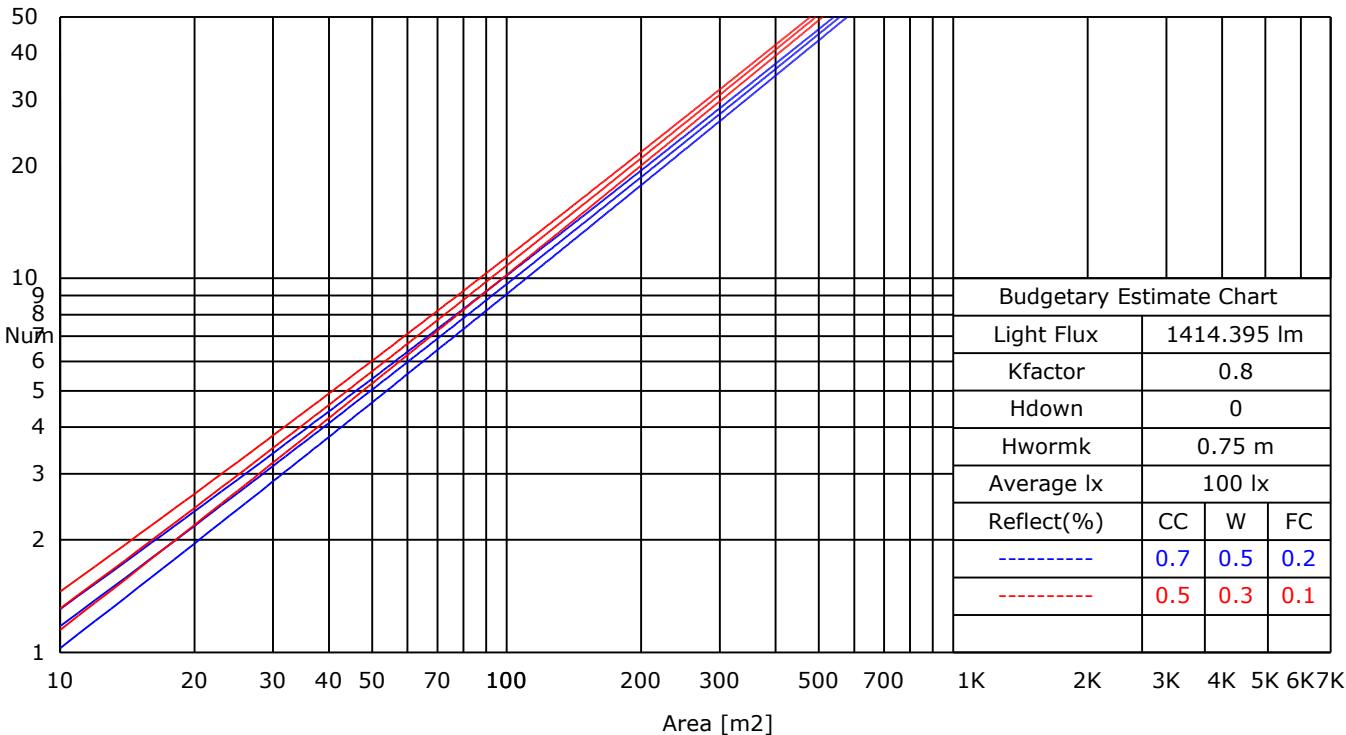
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UTILIZATION FACTORS TABLE

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	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	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.93	0.93	0.91	0.88	0.87	0.85	0.82	0.77
2	0.99	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.89	0.90	0.87	0.85	0.85	0.82	0.79	0.74
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	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.71
5	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.83	0.80	0.78	0.80	0.76	0.73	0.69
6	0.88	0.87	0.86	0.87	0.85	0.84	0.84	0.82	0.80	0.81	0.78	0.76	0.78	0.74	0.71	0.67
7	0.86	0.85	0.84	0.85	0.83	0.82	0.82	0.80	0.78	0.80	0.76	0.74	0.76	0.72	0.69	0.66
8	0.84	0.83	0.82	0.83	0.81	0.80	0.80	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.68	0.64
9	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.71	0.73	0.69	0.67	0.63
10	0.80	0.79	0.79	0.79	0.78	0.77	0.77	0.75	0.73	0.74	0.71	0.69	0.72	0.68	0.65	0.62

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



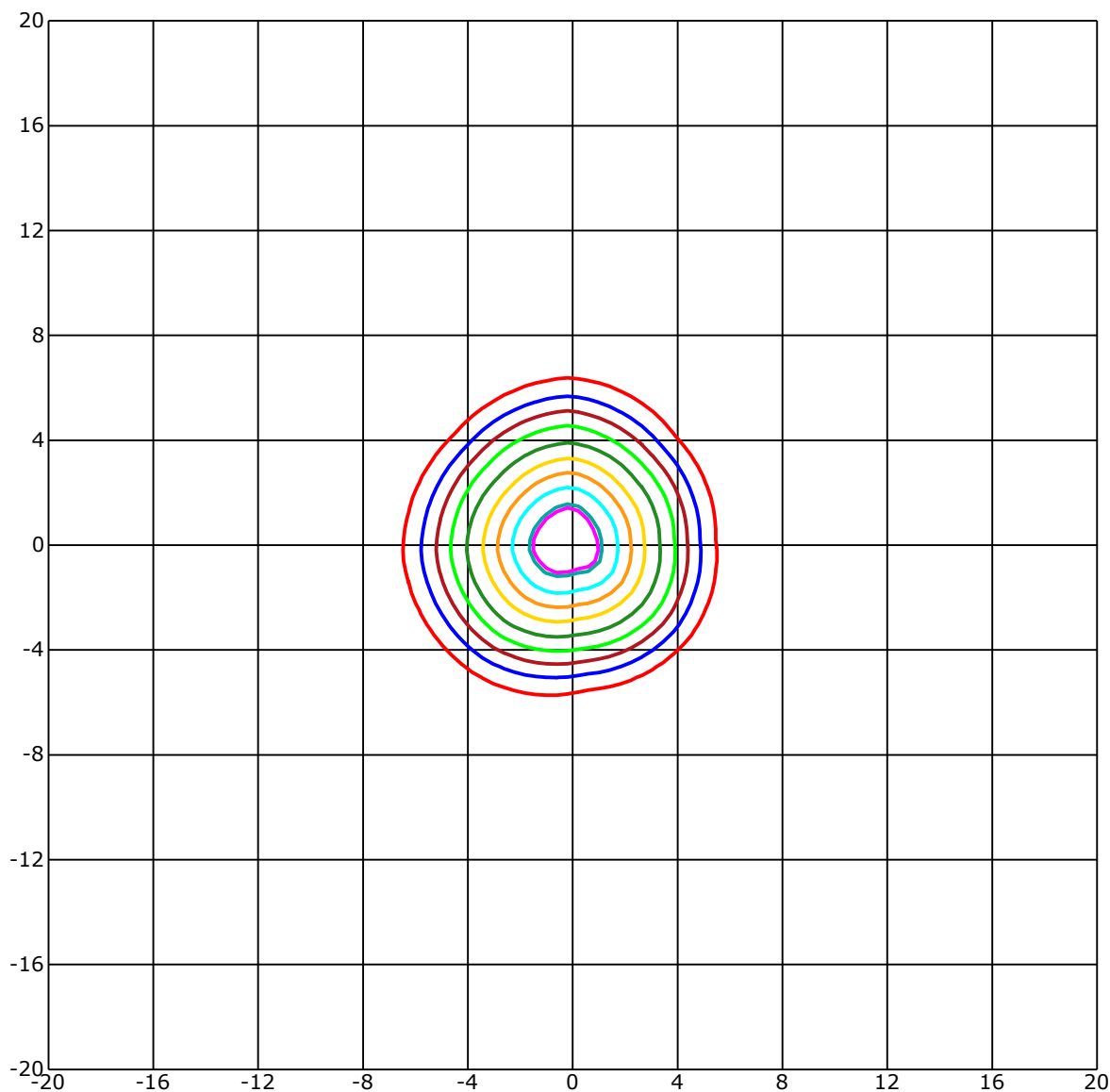
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 18:01:45

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)

24.124(92%Emax)	13.111(50%Emax)
23.6(90%Emax)	10.489(40%Emax)
20.977(80%Emax)	7.867(30%Emax)
18.355(70%Emax)	5.244(20%Emax)
15.733(60%Emax)	2.622(10%Emax)

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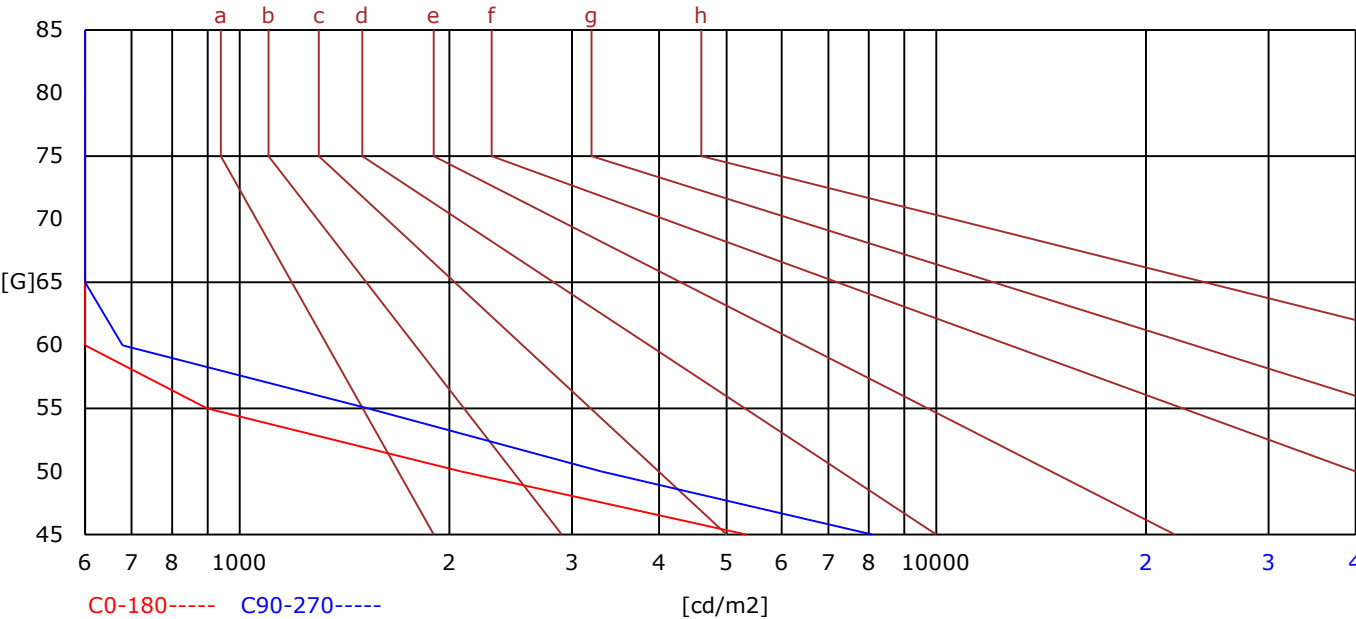
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5332	2080	898	132	0	0	0	0	0
C90	8090	3308	1529	679	26	0	0	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



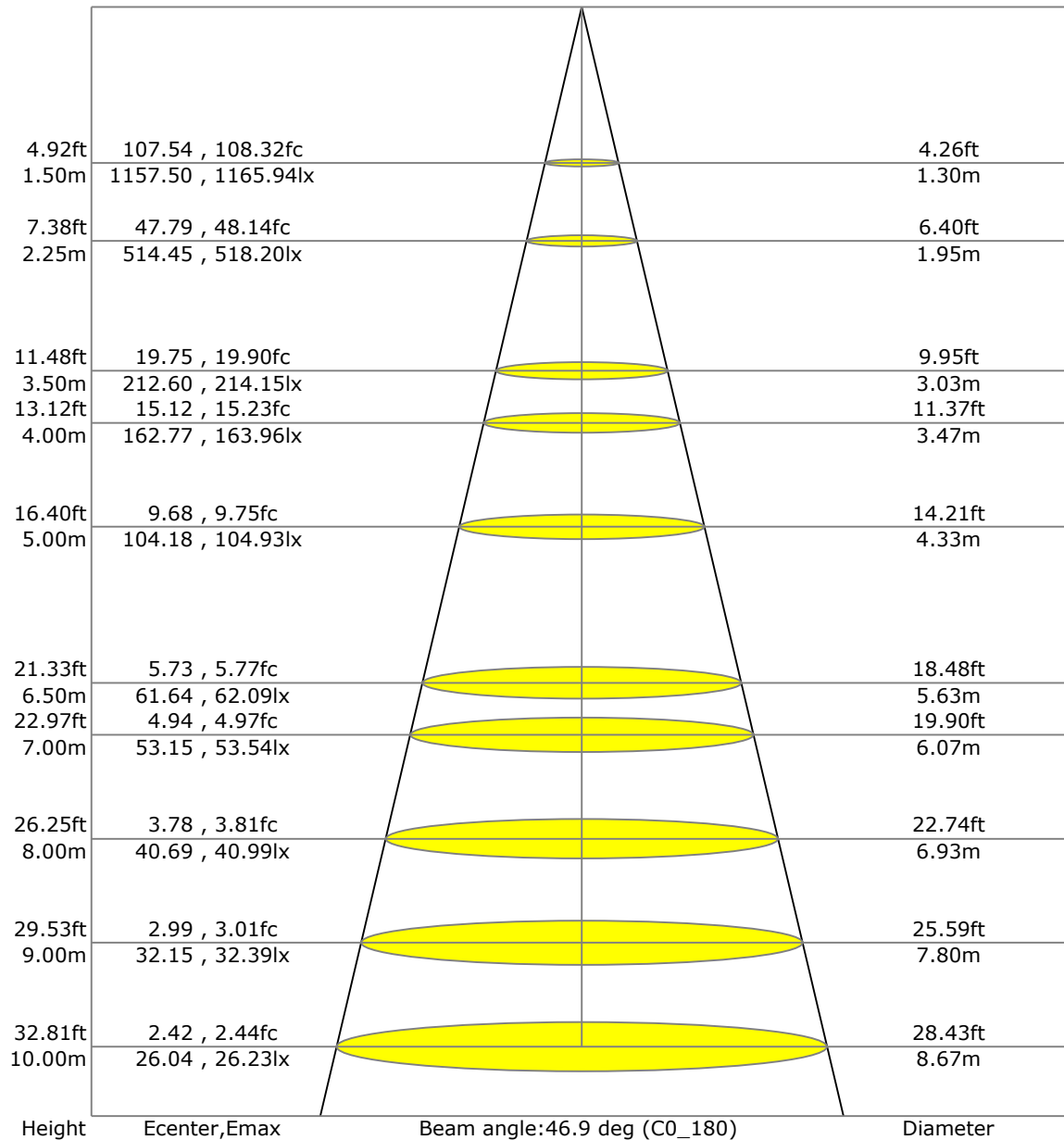
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/6/27 18:01:45

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	6.96	7.01	7.16	7.20	7.44	7.13	7.17	7.33	7.36	7.60
	3H	6.94	6.99	7.15	7.18	7.43	7.10	7.15	7.31	7.34	7.59
	4H	6.93	6.98	7.14	7.17	7.42	7.09	7.14	7.30	7.33	7.58
	6H	6.91	6.96	7.13	7.16	7.41	7.07	7.12	7.29	7.32	7.58
	8H	6.90	6.95	7.12	7.16	7.41	7.07	7.12	7.28	7.32	7.57
	12H	6.90	6.95	7.12	7.15	7.41	7.06	7.11	7.28	7.31	7.57
4H	2H	6.93	6.98	7.14	7.17	7.42	7.11	7.16	7.32	7.36	7.61
	3H	6.89	6.95	7.12	7.15	7.41	7.08	7.13	7.30	7.34	7.59
	4H	6.88	6.93	7.11	7.14	7.40	7.06	7.11	7.29	7.32	7.58
	6H	6.86	6.90	7.09	7.13	7.39	7.04	7.09	7.28	7.31	7.57
	8H	6.84	6.89	7.09	7.12	7.38	7.03	7.08	7.27	7.30	7.57
	12H	6.83	6.88	7.08	7.11	7.38	7.02	7.06	7.26	7.30	7.56
8H	4H	6.90	6.95	7.12	7.16	7.41	7.09	7.14	7.31	7.34	7.60
	6H	6.82	6.86	7.07	7.10	7.37	7.00	7.05	7.26	7.29	7.56
	8H	6.80	6.85	7.06	7.09	7.37	6.99	7.03	7.25	7.28	7.55
	12H	6.79	6.83	7.06	7.08	7.36	6.97	7.01	7.24	7.27	7.55
12H	4H	6.83	6.88	7.08	7.11	7.38	7.02	7.06	7.27	7.30	7.56
	6H	6.80	6.85	7.06	7.09	7.37	6.99	7.03	7.25	7.28	7.55

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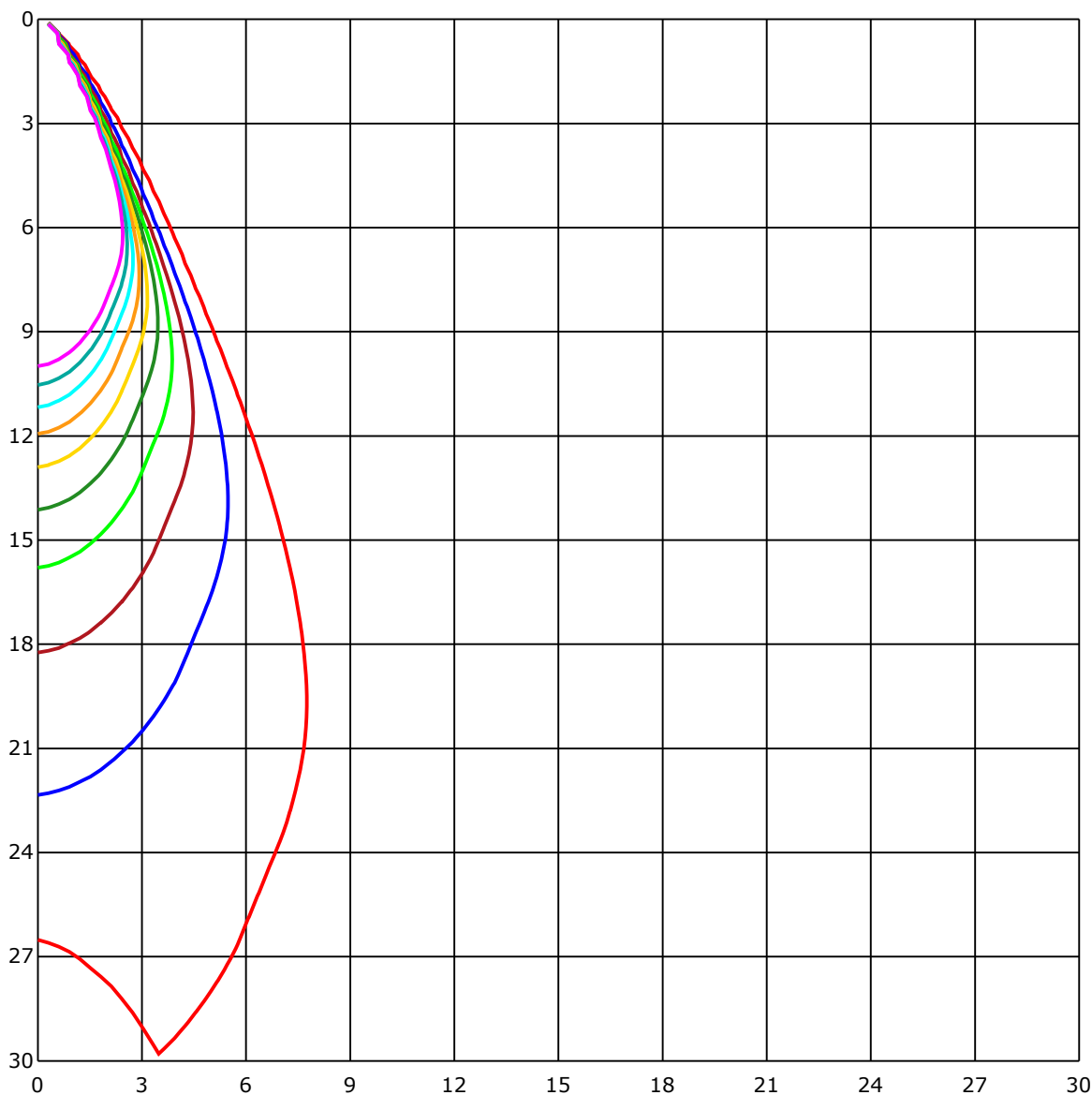
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

26.098	13.049
23.488	10.439
20.879	7.829
18.269	5.22
15.659	2.61

C Range: 0 - 360 Deg

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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: 6.7 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2604.38	2587.73	2588.31	2612.28	2604.38	2587.73	2588.31	2612.28	2604.38	
G1	2589.57	2577.22	2593.39	2611.03	2623.37	2596.17	2566.05	2602.81	2589.57	
G2	2569.5	2558.15	2585.62	2615.97	2620.77	2583.6	2546.21	2587.28	2569.5	
G3	2533.73	2536.6	2586.7	2606.18	2618.66	2571.48	2531.35	2560.48	2533.73	
G4	2500.87	2502.84	2581.31	2599.0	2616.05	2557.88	2489.24	2531.53	2500.87	
G5	2456.02	2472.68	2575.7	2575.52	2594.46	2543.87	2445.56	2496.15	2456.02	
G6	2401.97	2433.49	2542.93	2556.8	2570.63	2518.02	2395.6	2454.54	2401.97	
G7	2345.77	2386.44	2515.41	2521.47	2550.2	2477.21	2349.32	2400.18	2345.77	
G8	2287.1	2329.84	2484.35	2478.74	2521.52	2442.82	2286.34	2343.03	2287.1	
G9	2218.78	2270.94	2442.64	2424.51	2470.39	2401.93	2235.57	2288.04	2218.78	
G10	2151.49	2212.45	2389.85	2372.71	2428.77	2345.5	2171.96	2229.24	2151.49	
G11	2077.2	2142.11	2333.88	2321.22	2374.55	2292.4	2104.31	2151.67	2077.2	
G12	2002.5	2059.01	2268.97	2259.09	2326.78	2228.61	2033.2	2084.02	2002.5	
G13	1910.43	1990.92	2213.93	2198.62	2263.4	2165.31	1960.57	2003.76	1910.43	
G14	1828.37	1913.08	2149.65	2125.23	2201.5	2102.38	1881.61	1926.59	1828.37	
G15	1750.89	1832.32	2077.42	2051.25	2132.05	2039.49	1807.41	1846.15	1750.89	
G16	1683.11	1759.42	2002.09	1972.65	2064.13	1963.04	1736.26	1774.59	1683.11	
G17	1619.23	1687.06	1930.58	1898.08	1990.06	1897.32	1669.28	1702.05	1619.23	
G18	1544.84	1616.35	1856.92	1821.05	1918.28	1827.02	1595.03	1634.58	1544.84	
G19	1470.19	1549.6	1782.54	1743.8	1845.47	1757.98	1524.33	1565.05	1470.19	
G20	1393.61	1479.26	1701.96	1673.32	1775.67	1693.61	1446.67	1505.16	1393.61	
G21	1304.86	1402.63	1634.67	1606.07	1708.78	1629.19	1360.53	1428.53	1304.86	
G22	1202.69	1309.22	1570.03	1538.11	1650.7	1557.86	1255.04	1334.54	1202.69	
G23	1085.08	1204.31	1506.37	1464.4	1575.37	1469.92	1141.78	1226.75	1085.08	
G24	959.61	1085.17	1428.94	1383.69	1499.91	1364.34	1021.29	1112.02	959.61	
G25	827.64	965.54	1345.35	1276.0	1407.66	1255.12	894.25	985.78	827.64	
G26	691.35	838.5	1243.54	1157.76	1304.46	1136.84	763.58	854.8	691.35	
G27	560.45	707.15	1125.17	1036.73	1188.69	1026.86	630.88	718.91	560.45	
G28	442.26	579.17	1001.27	911.99	1071.17	903.41	502.36	585.14	442.26	
G29	343.27	465.96	876.66	778.62	948.03	771.39	391.17	461.02	343.27	
G30	264.63	364.73	738.31	641.16	817.76	635.19	297.17	354.32	264.63	
G31	209.05	287.66	604.85	509.77	677.21	507.66	228.4	270.91	209.05	
G32	169.55	231.36	487.1	397.73	545.32	398.94	182.03	214.26	169.55	
G33	136.24	187.06	384.84	307.45	428.21	313.02	145.4	171.52	136.24	
G34	109.76	153.43	305.75	238.9	332.86	247.7	114.92	139.34	109.76	
G35	89.29	125.56	247.21	190.15	261.84	198.64	93.51	114.02	89.29	
G36	73.17	102.26	200.57	155.5	209.5	160.17	76.13	93.73	73.17	

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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	59.57	83.81	164.48	125.74	168.7	130.0	62.26	77.48	59.57	
G38	48.66	68.28	135.3	102.75	137.36	106.52	50.91	64.46	48.66	
G39	39.05	56.11	112.4	83.54	112.72	88.34	40.94	53.78	39.05	
G40	31.74	44.85	94.04	68.05	94.49	73.8	33.13	44.53	31.74	
G41	25.41	36.41	79.01	55.53	78.29	61.86	26.89	37.21	25.41	
G42	20.56	29.45	65.27	44.67	65.05	51.71	21.86	31.56	20.56	
G43	16.92	23.52	54.27	35.6	53.78	42.87	17.96	27.07	16.92	
G44	13.92	18.94	44.53	28.86	44.67	36.41	14.77	23.3	13.92	
G45	11.49	15.44	36.94	23.43	37.48	30.61	12.17	20.2	11.49	
G46	9.65	12.48	30.93	19.08	31.69	26.17	10.19	17.82	9.65	
G47	7.95	10.01	26.31	15.53	26.93	22.53	8.8	15.62	7.95	
G48	6.78	8.3	22.4	12.79	23.16	19.57	7.41	14.05	6.78	
G49	5.7	6.73	19.21	10.55	20.02	17.01	6.28	12.61	5.7	
G50	4.8	5.48	16.56	8.71	17.51	14.95	5.25	11.54	4.8	
G51	4.13	4.62	14.5	7.23	15.35	13.51	4.44	10.37	4.13	
G52	3.46	3.73	12.7	6.11	13.74	11.99	3.82	9.43	3.46	
G53	2.92	2.96	11.54	5.03	12.43	10.82	3.5	8.44	2.92	
G54	2.6	2.42	10.23	4.31	11.13	9.79	2.83	7.86	2.6	
G55	2.02	2.11	9.11	3.59	9.88	8.8	2.38	7.14	2.02	
G56	1.66	1.62	8.21	3.1	8.98	8.04	1.89	6.46	1.66	
G57	1.3	1.21	7.36	2.69	8.21	7.27	1.39	5.97	1.3	
G58	0.99	0.85	6.73	2.24	7.41	6.46	1.08	5.57	0.99	
G59	0.67	0.63	5.93	1.8	6.82	5.97	0.76	4.89	0.67	
G60	0.54	0.27	5.39	1.39	6.24	5.57	0.54	4.49	0.54	
G61	0.18	0.13	4.85	0.94	5.61	5.07	0.36	4.26	0.18	
G62	0.0	0.0	4.4	0.76	5.25	4.4	0.0	3.86	0.0	
G63	0.0	0.0	3.95	0.45	4.62	4.26	0.0	3.41	0.0	
G64	0.0	0.0	3.64	0.31	4.31	3.82	0.0	2.69	0.0	
G65	0.0	0.0	3.28	0.04	3.91	3.28	0.0	1.66	0.0	
G66	0.0	0.0	2.87	0.0	3.64	2.69	0.0	1.17	0.0	
G67	0.0	0.0	2.47	0.0	2.96	2.02	0.0	0.99	0.0	
G68	0.0	0.0	1.98	0.0	2.42	1.21	0.0	0.81	0.0	
G69	0.0	0.0	1.21	0.0	1.57	1.08	0.0	0.72	0.0	
G70	0.0	0.0	0.9	0.0	1.12	0.76	0.0	0.67	0.0	
G71	0.0	0.0	0.63	0.0	0.81	0.72	0.0	0.63	0.0	
G72	0.0	0.0	0.58	0.0	0.63	0.63	0.0	0.54	0.0	
G73	0.0	0.0	0.63	0.0	0.58	0.49	0.0	0.31	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/27 18:01:45

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 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: 2024/6/27 18:01:45

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks: