

Report No.:

Test Time: 2024/6/28 10:13:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H69-38°-10W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 65 mm

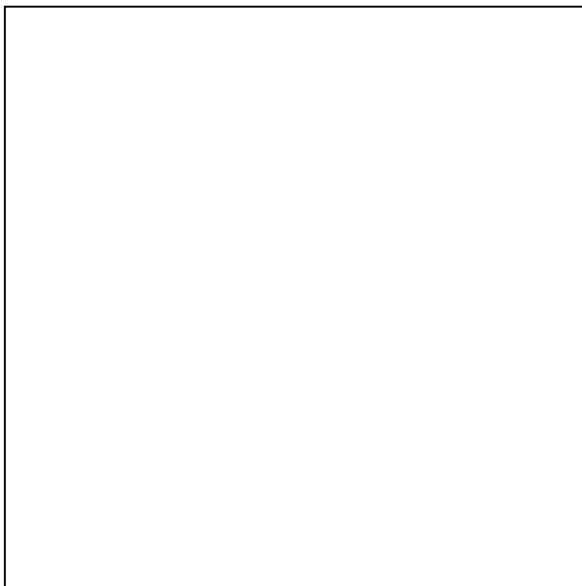
Voltage(V): 218.90 V
Current(A): 0.0540 A
Power(W): 10.99 W
Power Factor: 0.9250
Lamp Luminous Flux: 1051.75

Photometric Results

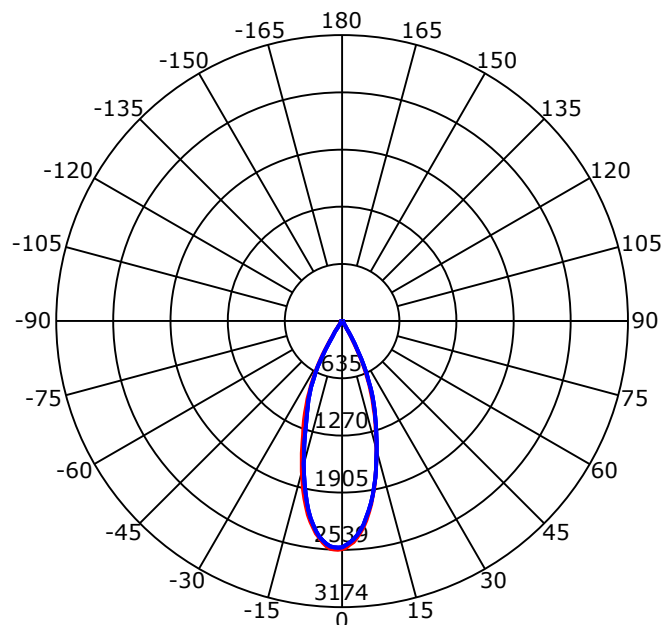
CIE Class: Direct
Luminaire Luminous Flux: 1051.745 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.70 lm/W
Beam Angle(50%) C0-180,C90-270: 36.9,36.4
Field Angle(10%) C0-180,C90-270: 60.9,60.8
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2539.34 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2531.30 cd
Effective Luminous Flux: 986.68 lm
ERP(ϕ use)(120deg): 1050.32 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.9 deg,36.4 deg

C0-180 — C90-270 —

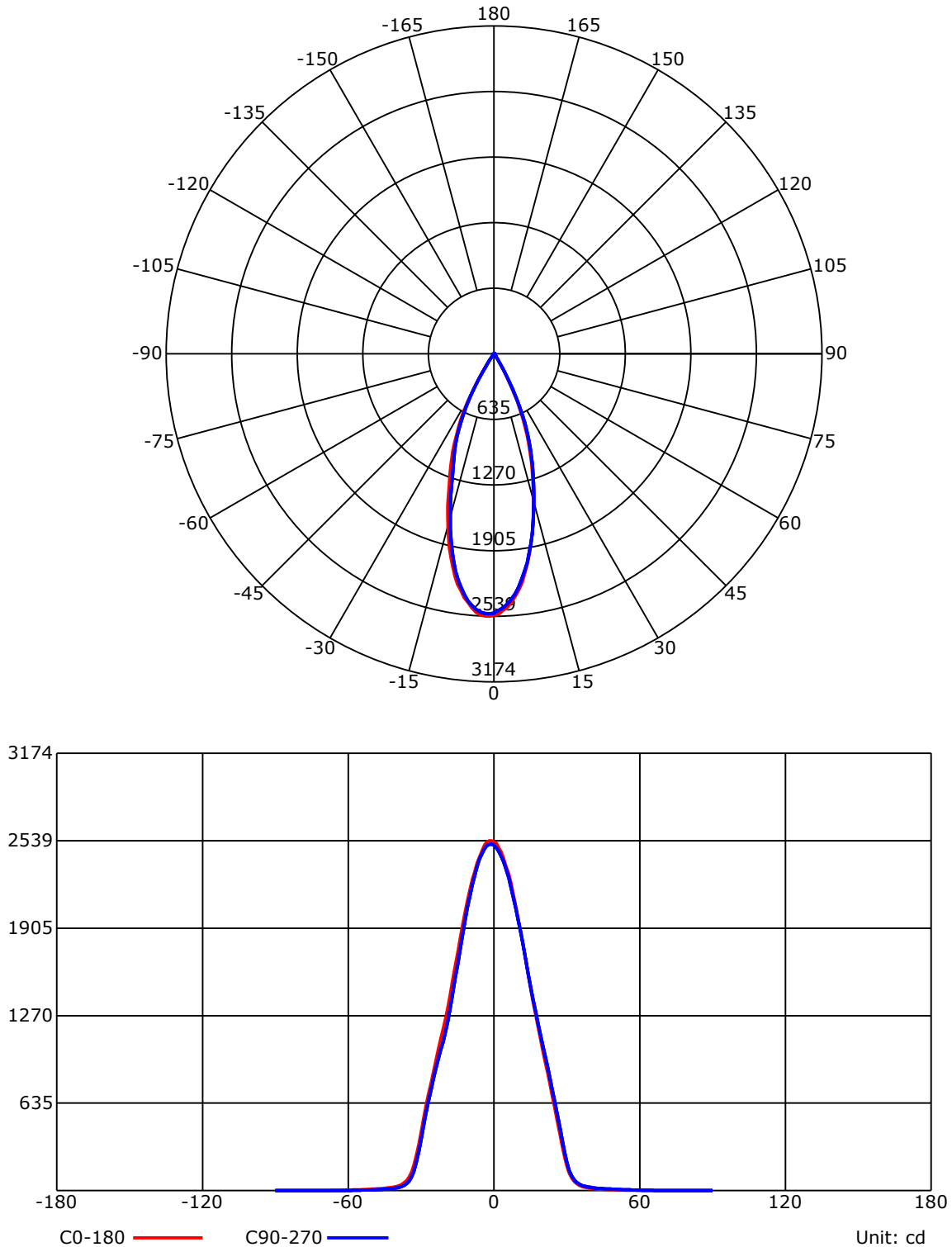
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:13:12

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.:

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Luminous Intensity Distribution Curve



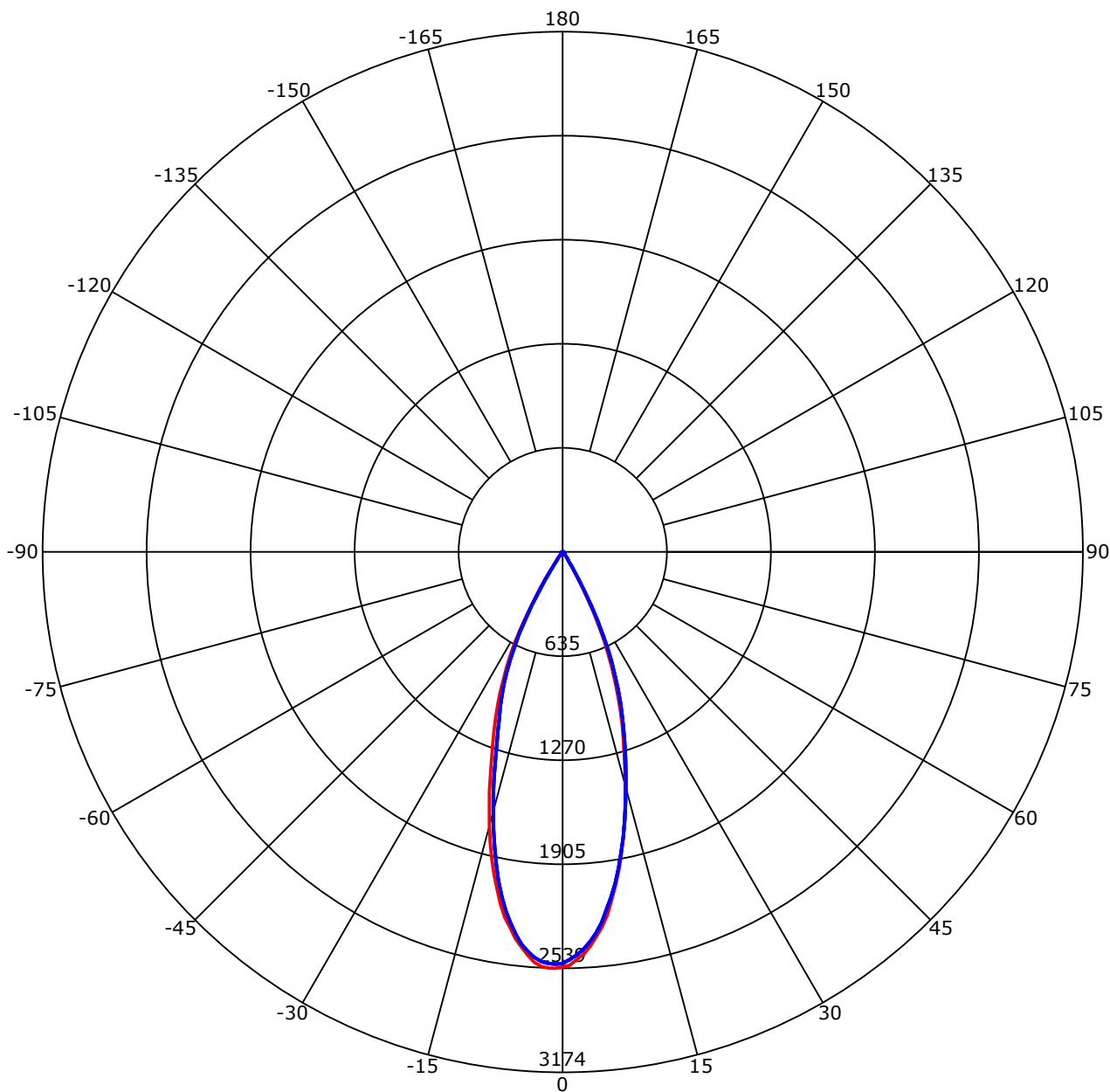
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Luminous Intensity Distribution Curve



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: 2024/6/28 10:13:12

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

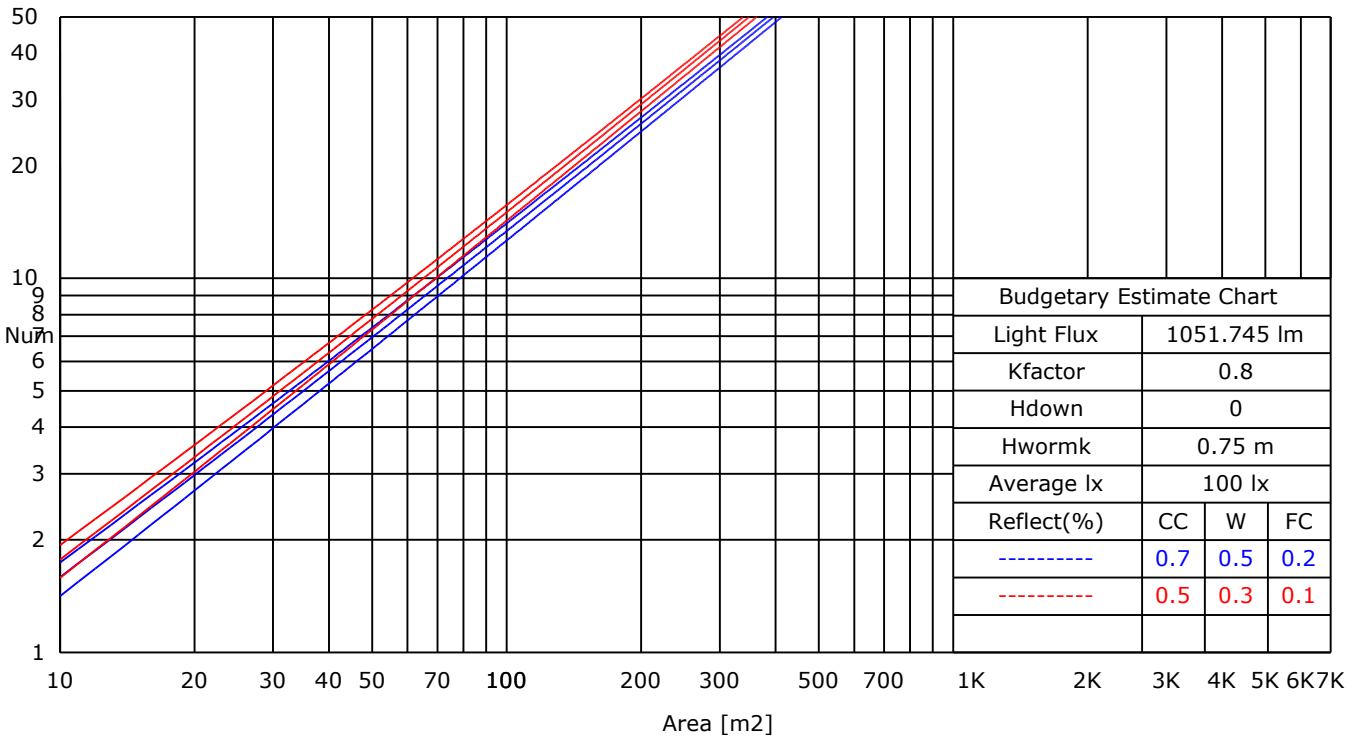
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UTILIZATION FACTORS TABLE

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	0.99	0.97	0.95	0.98	0.96	0.93	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.79	0.74
2	0.95	0.93	0.91	0.94	0.92	0.90	0.91	0.88	0.86	0.88	0.84	0.81	0.82	0.79	0.76	0.71
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
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	0.75	0.72	0.68
5	0.88	0.86	0.85	0.87	0.85	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	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
8	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.63
9	0.81	0.80	0.79	0.80	0.78	0.77	0.77	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.62
10	0.79	0.78	0.77	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



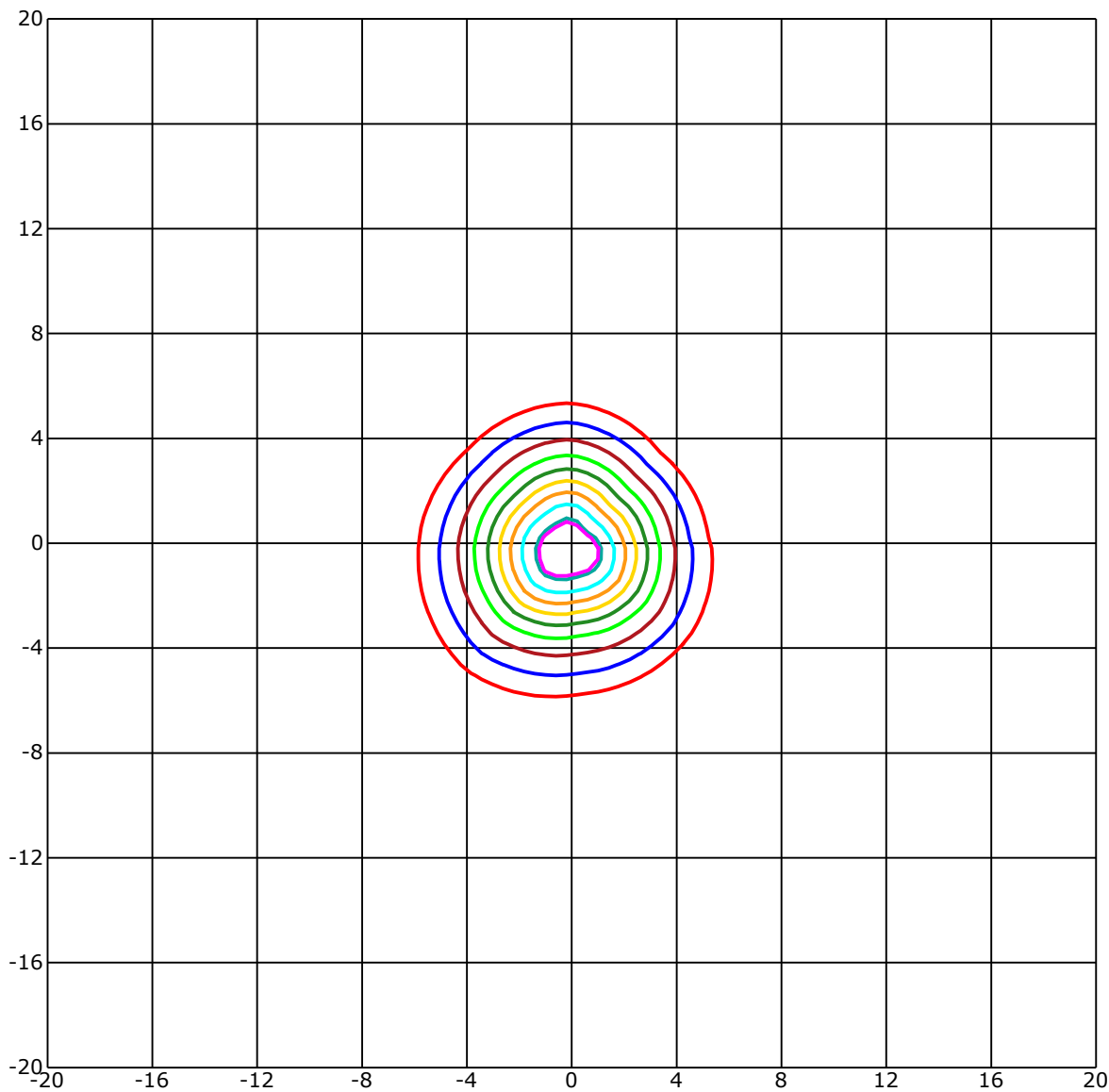
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX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



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

- | | |
|-----------------|-----------------|
| 23.351(92%Emax) | 12.691(50%Emax) |
| 22.844(90%Emax) | 10.153(40%Emax) |
| 20.305(80%Emax) | 7.615(30%Emax) |
| 17.767(70%Emax) | 5.076(20%Emax) |
| 15.229(60%Emax) | 2.538(10%Emax) |

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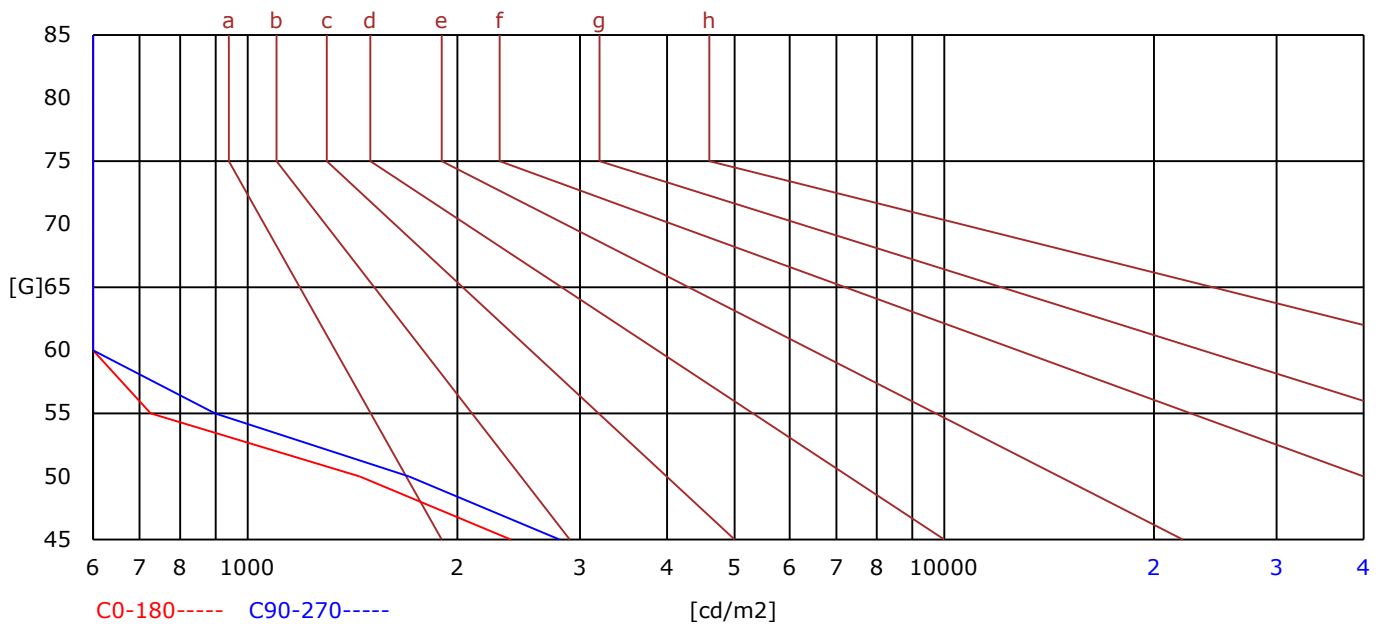
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2387	1449	726	110	0	0	0	0	0
C90	2805	1705	898	241	0	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



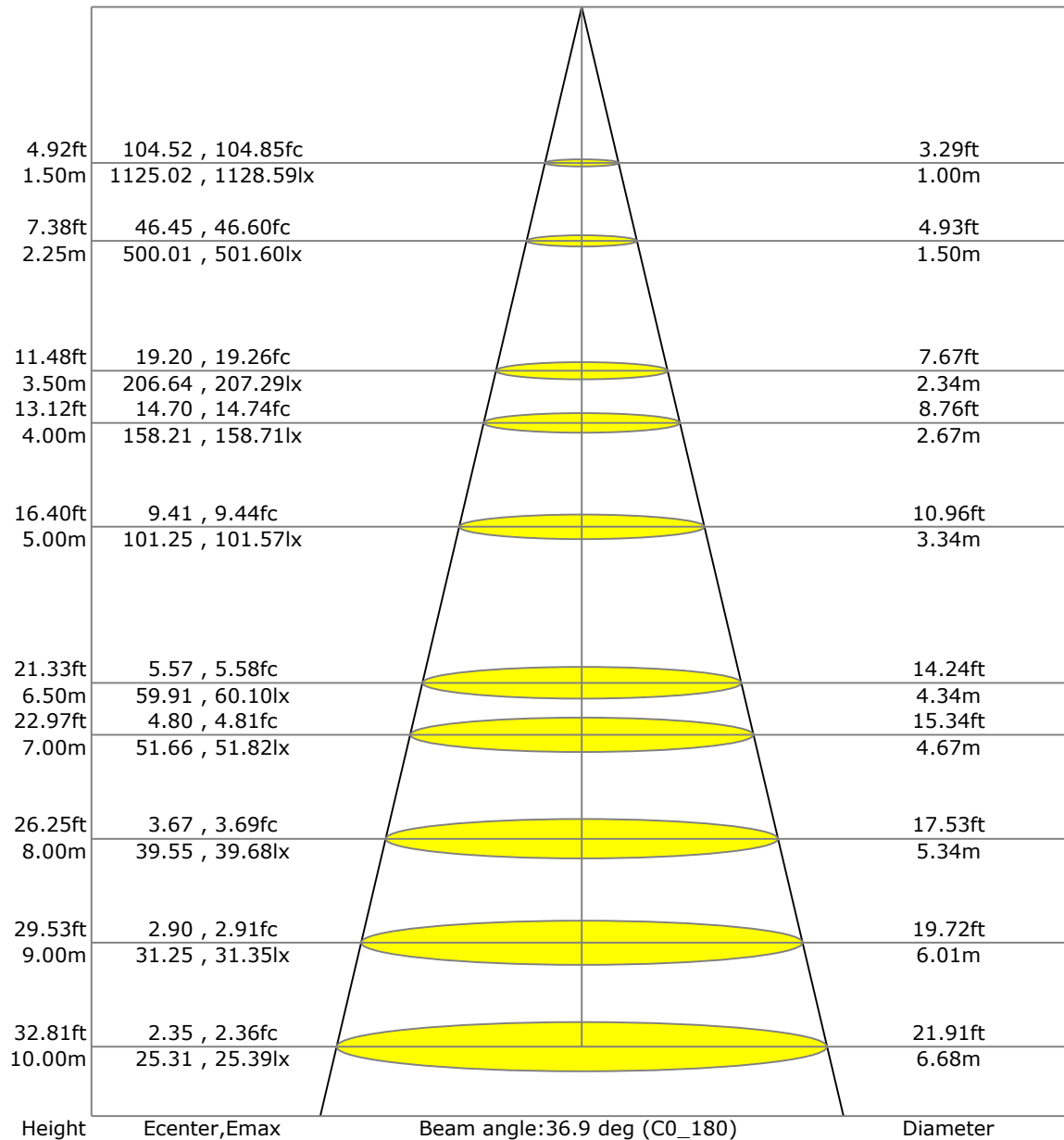
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/6/28 10:13:12

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	1.26	1.31	1.46	1.50	1.74	1.26	1.31	1.46	1.50	1.74
	3H	1.24	1.29	1.44	1.48	1.73	1.24	1.29	1.44	1.48	1.73
	4H	1.23	1.28	1.44	1.47	1.72	1.23	1.28	1.44	1.47	1.72
	6H	1.21	1.26	1.43	1.46	1.72	1.21	1.26	1.43	1.46	1.72
	8H	1.20	1.26	1.42	1.46	1.71	1.20	1.26	1.42	1.46	1.71
	12H	1.19	1.25	1.42	1.45	1.71	1.19	1.25	1.42	1.45	1.71
4H	2H	1.23	1.28	1.44	1.47	1.72	1.23	1.28	1.44	1.47	1.72
	3H	1.19	1.25	1.42	1.45	1.71	1.19	1.25	1.42	1.45	1.71
	4H	1.18	1.23	1.41	1.44	1.70	1.18	1.23	1.41	1.44	1.70
	6H	1.16	1.21	1.39	1.43	1.69	1.16	1.21	1.39	1.43	1.69
	8H	1.14	1.20	1.39	1.42	1.69	1.14	1.20	1.39	1.42	1.69
	12H	1.13	1.18	1.38	1.41	1.68	1.13	1.18	1.38	1.41	1.68
8H	4H	1.20	1.26	1.42	1.46	1.71	1.20	1.26	1.42	1.46	1.71
	6H	1.12	1.17	1.37	1.41	1.68	1.12	1.17	1.37	1.41	1.68
	8H	1.10	1.15	1.37	1.40	1.67	1.10	1.15	1.37	1.40	1.67
	12H	1.09	1.13	1.36	1.39	1.67	1.09	1.13	1.36	1.39	1.67
12H	4H	1.13	1.18	1.38	1.41	1.68	1.13	1.18	1.38	1.41	1.68
	6H	1.10	1.15	1.37	1.40	1.67	1.10	1.15	1.37	1.40	1.67

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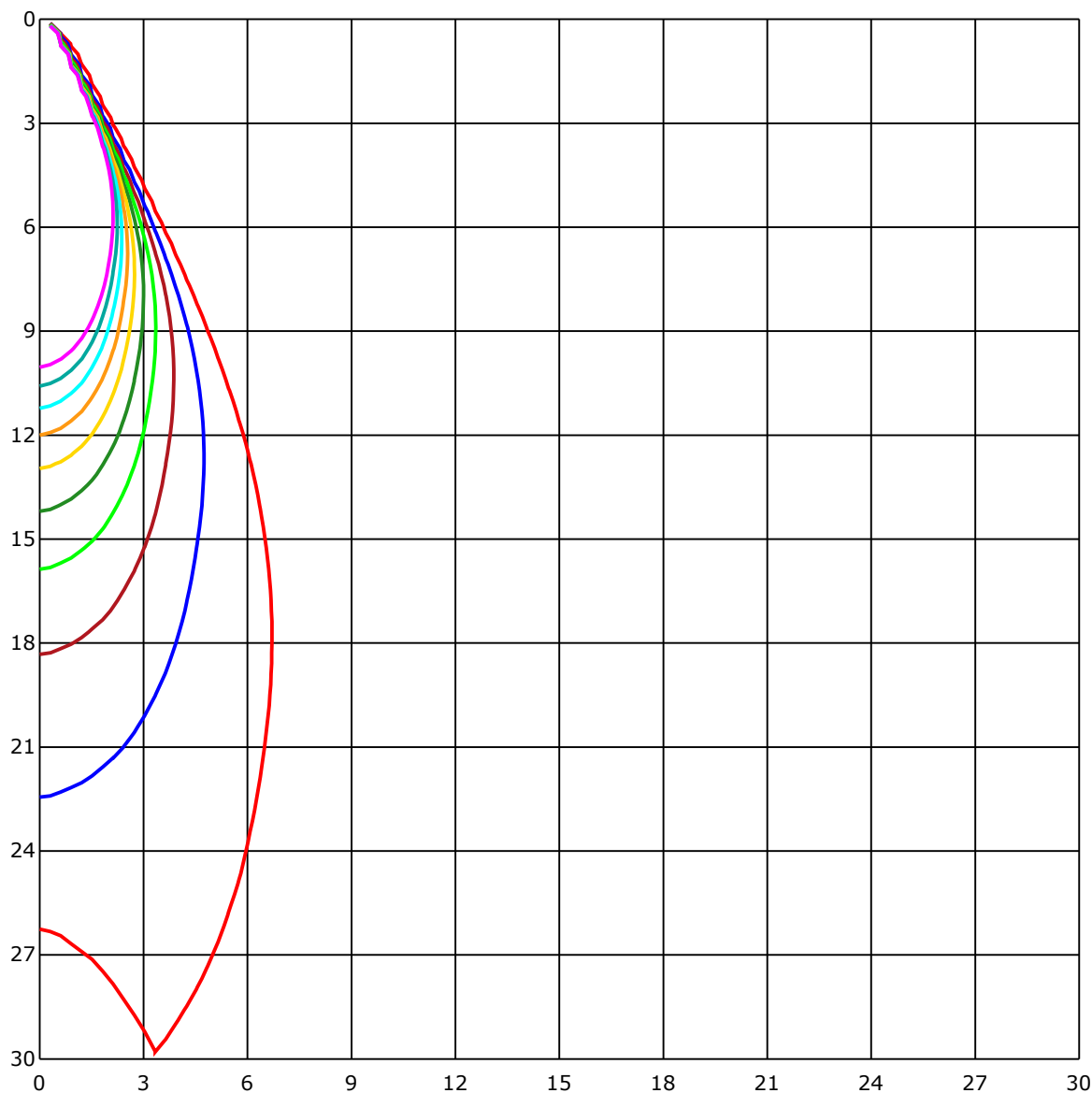
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



25.118	12.559
22.606	10.047
20.094	7.535
17.583	5.024
15.071	2.512

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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	2531.3	2464.91	2509.44	2509.31	2531.3	2464.91	2509.44	2509.31	2531.3	
G1	2519.99	2429.09	2485.2	2499.83	2539.34	2496.15	2513.71	2519.59	2519.99	
G2	2485.69	2388.28	2458.94	2475.86	2538.71	2516.17	2512.49	2512.67	2485.69	
G3	2456.34	2330.73	2425.14	2432.19	2530.72	2525.38	2502.12	2502.71	2456.34	
G4	2409.74	2266.23	2383.44	2386.76	2507.29	2530.0	2479.41	2480.44	2409.74	
G5	2354.17	2196.24	2331.32	2332.08	2467.15	2518.64	2445.79	2448.44	2354.17	
G6	2299.36	2123.43	2270.45	2273.01	2420.51	2496.02	2405.07	2409.02	2299.36	
G7	2230.09	2036.03	2196.38	2207.29	2375.49	2460.92	2349.68	2358.3	2230.09	
G8	2144.8	1950.29	2121.86	2127.79	2313.23	2421.19	2284.45	2306.67	2144.8	
G9	2061.12	1856.97	2045.77	2054.66	2257.16	2369.07	2216.67	2227.89	2061.12	
G10	1970.45	1758.03	1959.0	1972.56	2184.3	2311.34	2136.41	2152.12	1970.45	
G11	1877.21	1660.3	1867.2	1884.21	2097.71	2240.28	2047.39	2067.99	1877.21	
G12	1775.49	1562.85	1777.91	1791.74	2013.41	2164.55	1950.79	1975.03	1775.49	
G13	1680.64	1457.76	1680.19	1686.52	1924.84	2076.97	1849.69	1884.71	1680.64	
G14	1574.61	1368.16	1580.58	1585.25	1826.71	1987.19	1746.27	1779.66	1574.61	
G15	1475.22	1282.96	1487.61	1488.37	1727.1	1890.05	1640.06	1675.3	1475.22	
G16	1378.44	1194.16	1398.23	1388.9	1626.05	1797.08	1538.56	1573.62	1378.44	
G17	1283.67	1107.66	1308.18	1300.33	1531.83	1692.53	1431.14	1473.34	1283.67	
G18	1196.27	1022.73	1223.07	1213.78	1427.37	1584.35	1328.79	1377.76	1196.27	
G19	1111.34	935.69	1140.39	1136.21	1333.73	1480.65	1232.59	1284.75	1111.34	
G20	1024.3	852.78	1061.96	1059.49	1250.77	1383.02	1153.45	1193.63	1024.3	
G21	941.48	767.84	984.62	979.23	1175.04	1296.47	1079.96	1117.54	941.48	
G22	856.19	680.49	899.69	895.2	1097.11	1216.07	1017.84	1041.31	856.19	
G23	772.02	597.71	815.97	812.51	1021.43	1136.21	951.13	967.42	772.02	
G24	682.69	509.41	730.14	729.46	940.98	1068.52	882.63	892.23	682.69	
G25	599.33	415.05	647.0	646.42	859.46	1002.71	810.76	812.6	599.33	
G26	508.78	325.99	560.36	559.28	778.93	933.35	729.06	728.16	508.78	
G27	414.96	243.53	467.44	468.97	699.21	864.54	645.38	643.05	414.96	
G28	326.98	175.03	372.32	373.8	616.12	784.99	563.28	553.63	326.98	
G29	245.64	122.15	283.21	283.17	527.01	702.89	470.76	458.55	245.64	
G30	177.14	86.95	205.01	204.56	429.51	618.31	375.64	362.98	177.14	
G31	124.7	64.01	144.41	142.71	337.66	528.67	283.93	276.07	124.7	
G32	88.7	48.35	104.41	99.16	254.44	432.29	202.95	201.74	88.7	
G33	66.53	37.17	77.79	70.79	184.95	337.71	139.61	143.74	66.53	
G34	50.32	29.58	59.97	52.21	132.96	253.09	96.06	105.54	50.32	
G35	38.38	24.55	47.9	38.87	97.95	181.94	67.65	79.68	38.38	
G36	30.44	20.96	39.28	30.26	73.93	129.28	49.65	61.19	30.44	

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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	25.14	17.91	33.4	24.64	57.19	94.22	36.94	48.8	25.14	
G38	21.19	15.44	29.22	20.42	44.98	70.93	29.09	39.64	21.19	
G39	18.09	13.29	25.81	17.37	37.35	54.59	23.52	33.67	18.09	
G40	15.4	11.63	22.89	14.99	31.51	43.05	19.71	28.95	15.4	
G41	13.51	10.19	20.29	13.02	27.47	35.78	16.88	25.45	13.51	
G42	11.94	9.2	18.4	11.27	24.15	30.7	14.59	22.71	11.94	
G43	10.68	8.26	16.7	10.15	21.5	26.8	12.61	20.34	10.68	
G44	9.56	7.63	15.4	9.02	19.26	23.84	11.13	18.36	9.56	
G45	8.66	6.91	14.23	8.13	17.42	21.05	9.92	16.83	8.66	
G46	7.77	6.28	12.97	7.14	15.89	19.12	8.93	15.31	7.77	
G47	7.0	5.57	12.21	6.69	14.54	17.37	8.13	14.19	7.0	
G48	6.24	5.03	11.22	5.97	13.29	15.76	7.23	12.97	6.24	
G49	5.61	4.4	10.19	5.3	12.43	14.41	6.42	12.03	5.61	
G50	4.94	3.82	9.52	4.49	11.22	13.33	5.84	11.09	4.94	
G51	4.49	3.19	8.8	4.08	10.46	12.48	5.12	10.41	4.49	
G52	3.86	2.83	7.95	3.59	9.43	11.36	4.49	9.38	3.86	
G53	3.46	2.6	7.14	2.96	8.66	10.41	3.95	8.71	3.46	
G54	2.96	2.02	6.78	2.56	7.68	9.52	3.46	7.95	2.96	
G55	2.6	1.71	6.15	2.11	7.14	8.66	2.92	7.41	2.6	
G56	2.11	1.35	5.61	1.75	6.37	7.9	2.42	6.55	2.11	
G57	1.8	0.94	4.98	1.44	6.02	7.18	1.98	6.11	1.8	
G58	1.48	0.67	4.71	0.99	5.34	6.64	1.71	5.57	1.48	
G59	1.21	0.31	4.13	0.76	4.89	5.84	1.35	5.07	1.21	
G60	0.94	0.22	3.73	0.49	4.4	5.48	1.08	4.53	0.94	
G61	0.81	0.0	3.32	0.31	4.04	4.89	0.72	4.22	0.81	
G62	0.31	0.0	3.14	0.0	3.55	4.35	0.36	3.73	0.31	
G63	0.09	0.0	2.6	0.0	3.28	3.91	0.0	3.46	0.09	
G64	0.0	0.0	2.15	0.0	2.83	3.73	0.0	3.23	0.0	
G65	0.0	0.0	1.57	0.0	2.51	3.23	0.0	2.69	0.0	
G66	0.0	0.0	0.85	0.0	2.33	2.87	0.0	2.24	0.0	
G67	0.0	0.0	0.54	0.0	1.93	2.69	0.0	1.75	0.0	
G68	0.0	0.0	0.45	0.0	1.35	2.29	0.0	1.08	0.0	
G69	0.0	0.0	0.36	0.0	0.94	1.84	0.0	0.72	0.0	
G70	0.0	0.0	0.36	0.0	0.74	1.44	0.0	0.49	0.0	
G71	0.0	0.0	0.31	0.0	0.54	0.99	0.0	0.49	0.0	
G72	0.0	0.0	0.27	0.0	0.27	0.72	0.0	0.36	0.0	
G73	0.0	0.0	0.18	0.0	0.27	0.67	0.0	0.36	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/28 10:13:12

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

Test Time: 2024/6/28 10:13:12

Remarks: