

Report No.:

Test Time: 2025/1/7 17:22:18

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H105-24°-25W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

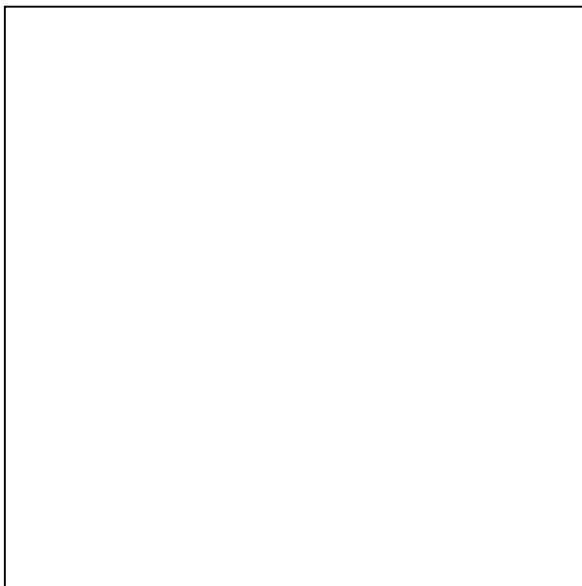
Voltage(V): 219.90 V
Current(A): 0.1160 A
Power(W): 24.86 W
Power Factor: 0.9670
Lamp Luminous Flux: 2229.62

Photometric Results

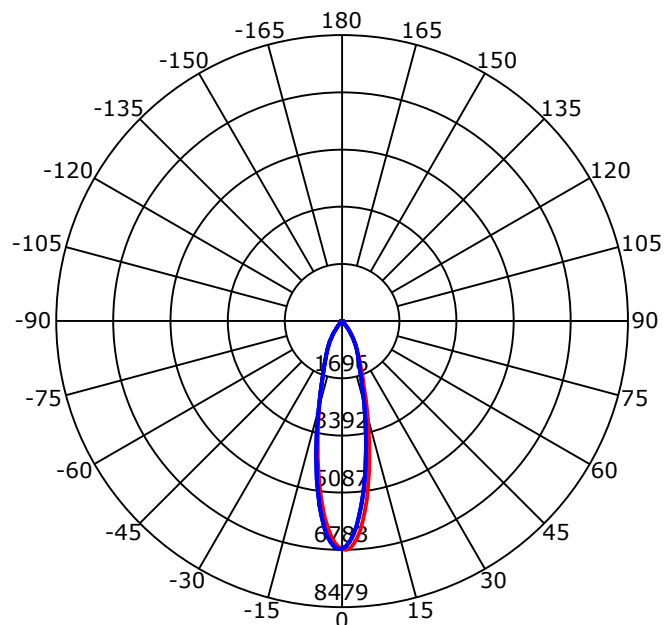
CIE Class: Direct
Luminaire Luminous Flux: 2229.616 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.68 lm/W
Beam Angle(50%) C0-180,C90-270: 25.7,24.8
Field Angle(10%) C0-180,C90-270: 62.4,62.7
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 6783.19 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6768.02 cd
Effective Luminous Flux: 1851.74 lm
ERP(ϕ use)(120deg): 2193.02 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.7 deg,24.8 deg

C0-180 — C90-270 —

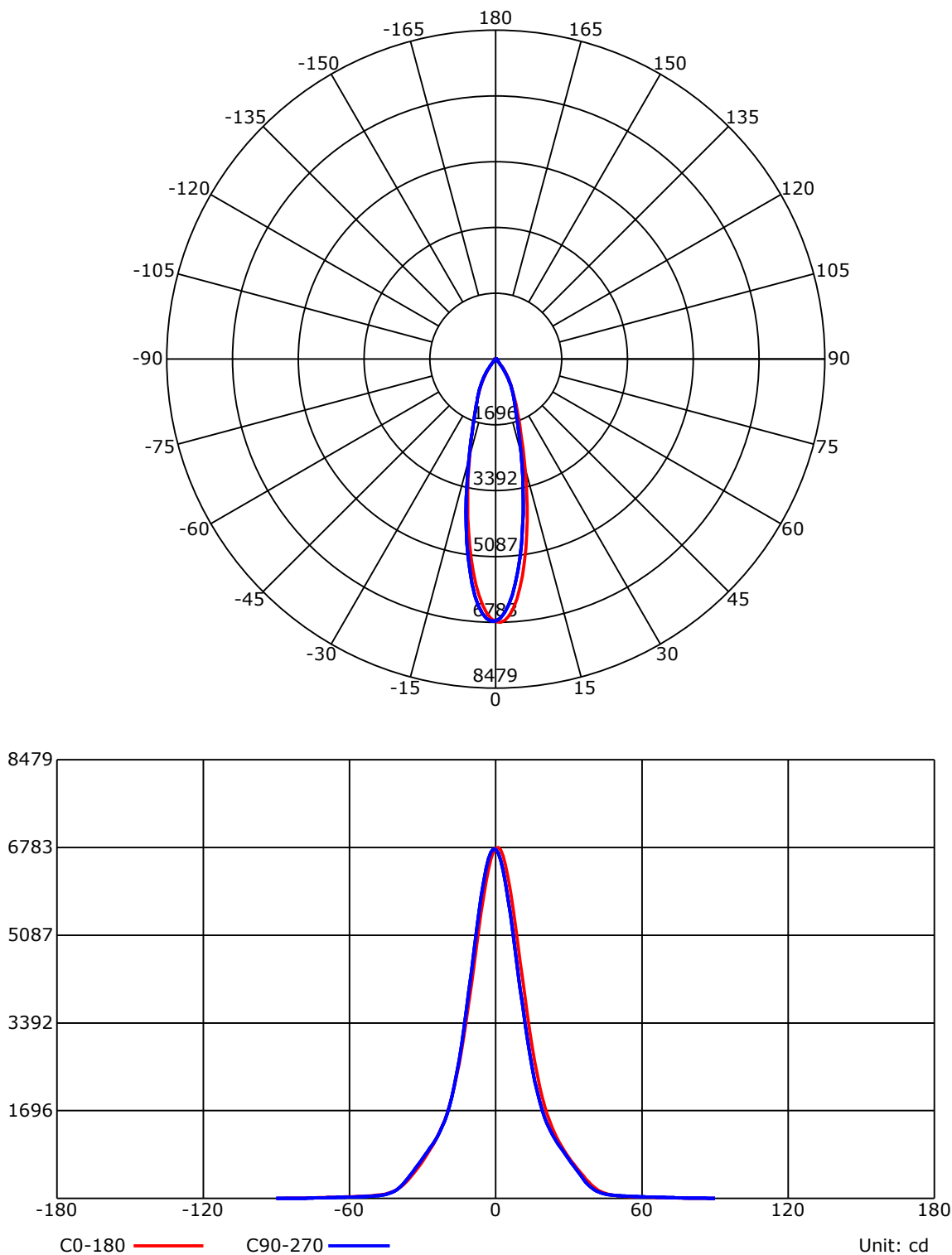
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:22:18

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 17:22:18

Luminous Intensity Distribution Curve



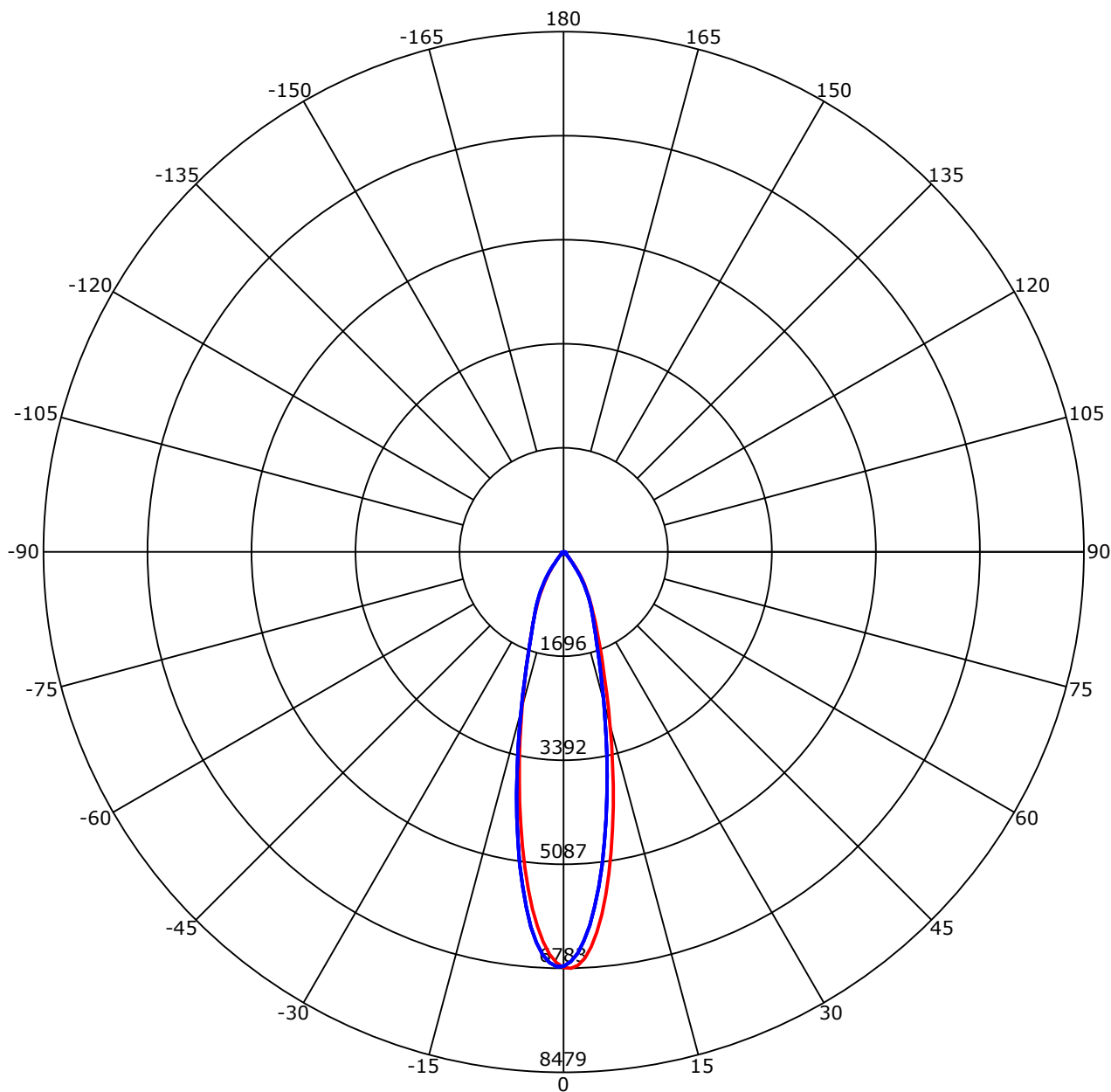
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:22:18

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 17:22:18

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

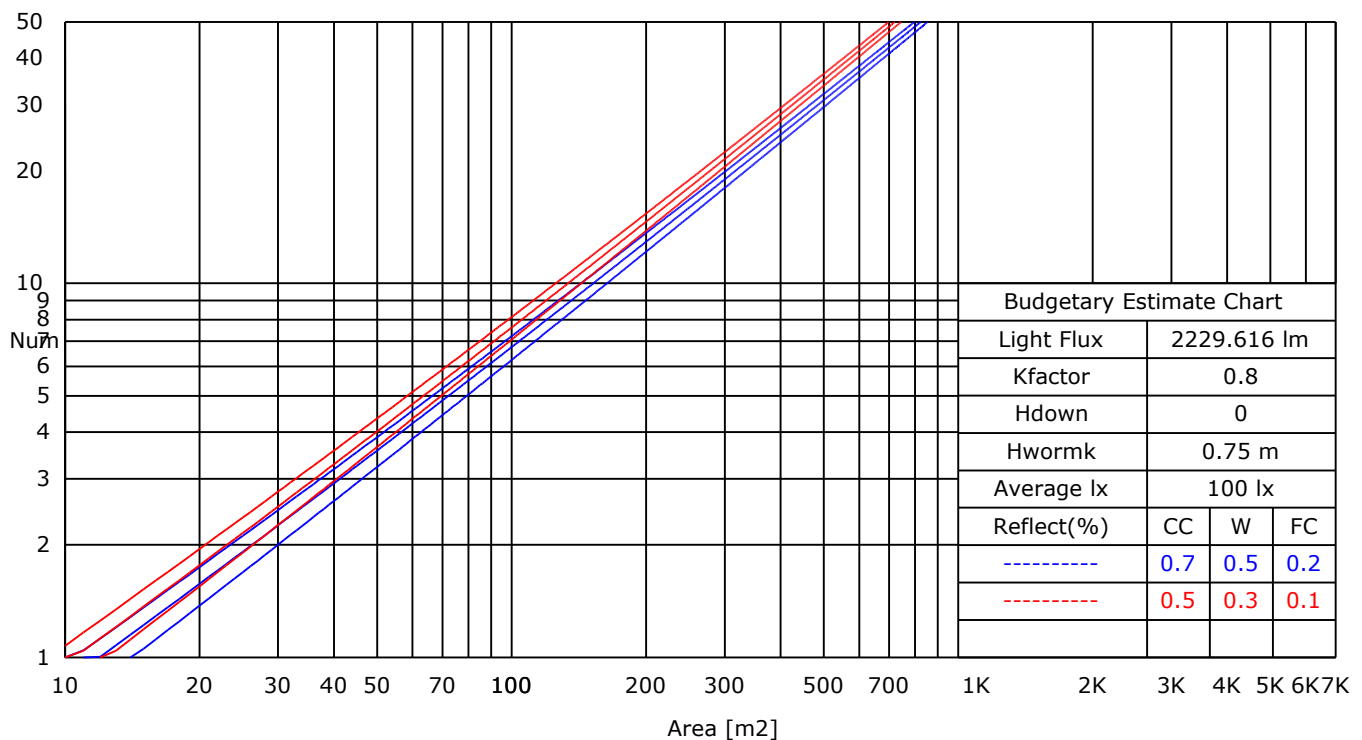
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.70
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.87	0.85	0.83	0.86	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.61
6	0.78	0.76	0.75	0.78	0.75	0.74	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.66	0.63	0.59
7	0.76	0.74	0.73	0.75	0.73	0.72	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
8	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.70	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.70	0.69	0.68	0.69	0.68	0.66	0.68	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



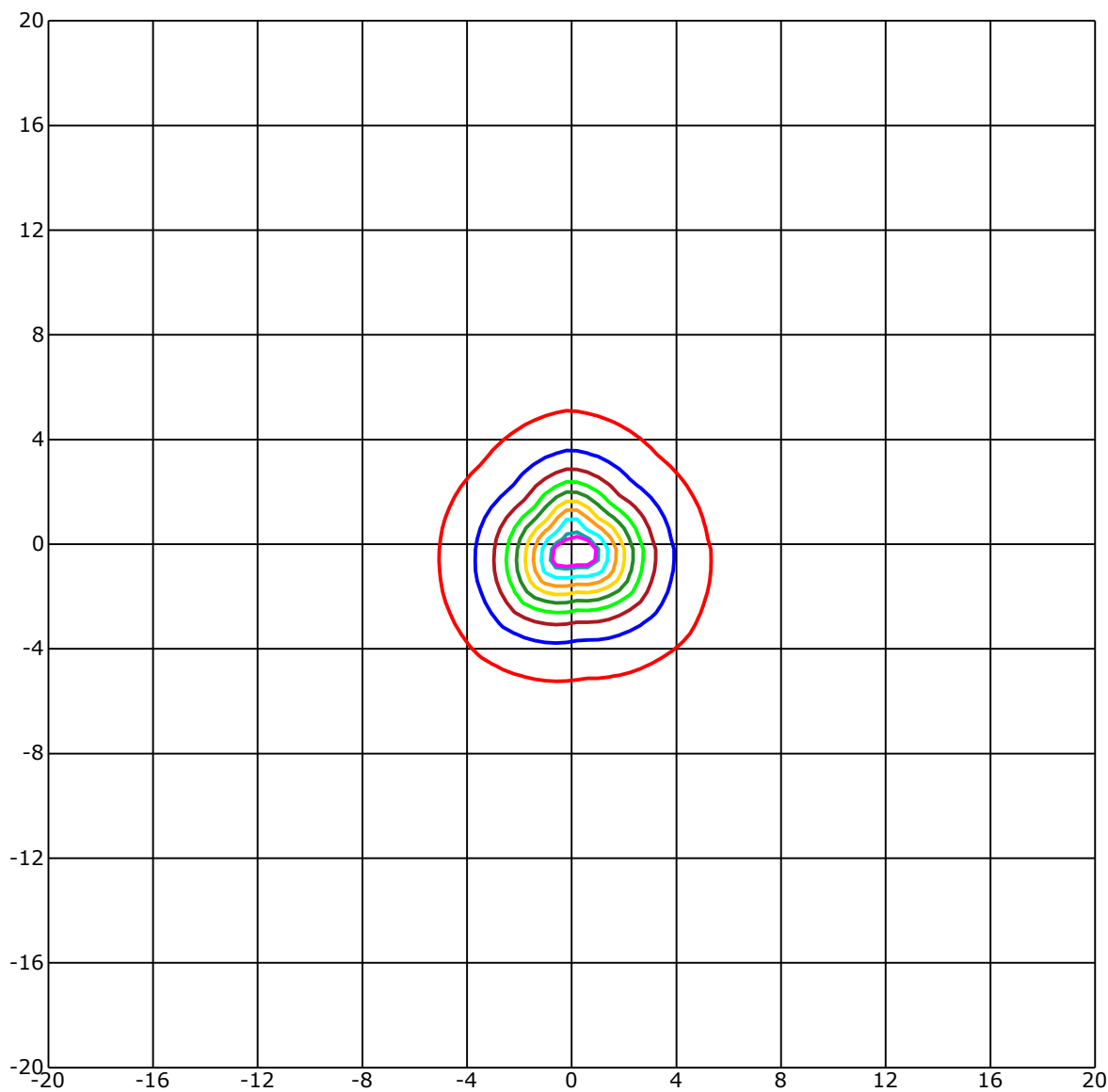
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:22:18

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)

62.377(92%Emax)	33.9(50%Emax)
61.021(90%Emax)	27.12(40%Emax)
54.241(80%Emax)	20.34(30%Emax)
47.461(70%Emax)	13.56(20%Emax)
40.681(60%Emax)	6.78(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:22:18

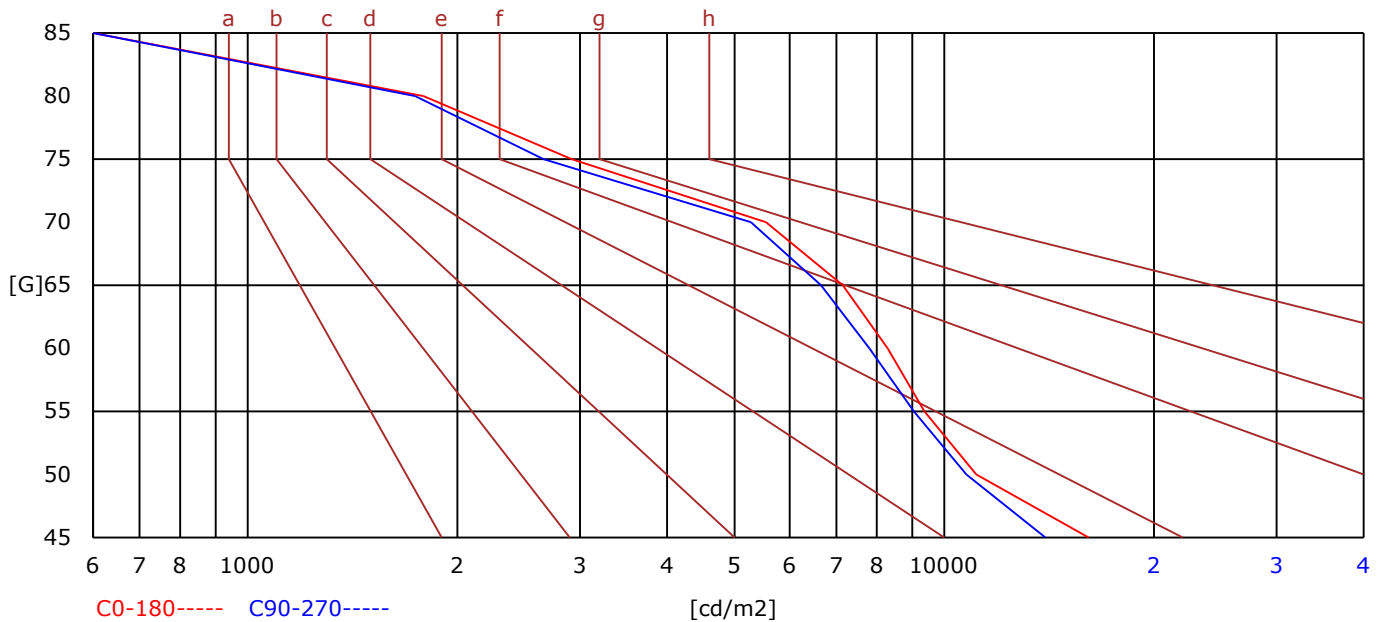
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	16122	11114	9367	8294	7151	5547	2919	1789	385
C90	13973	10761	9045	7807	6654	5277	2660	1740	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



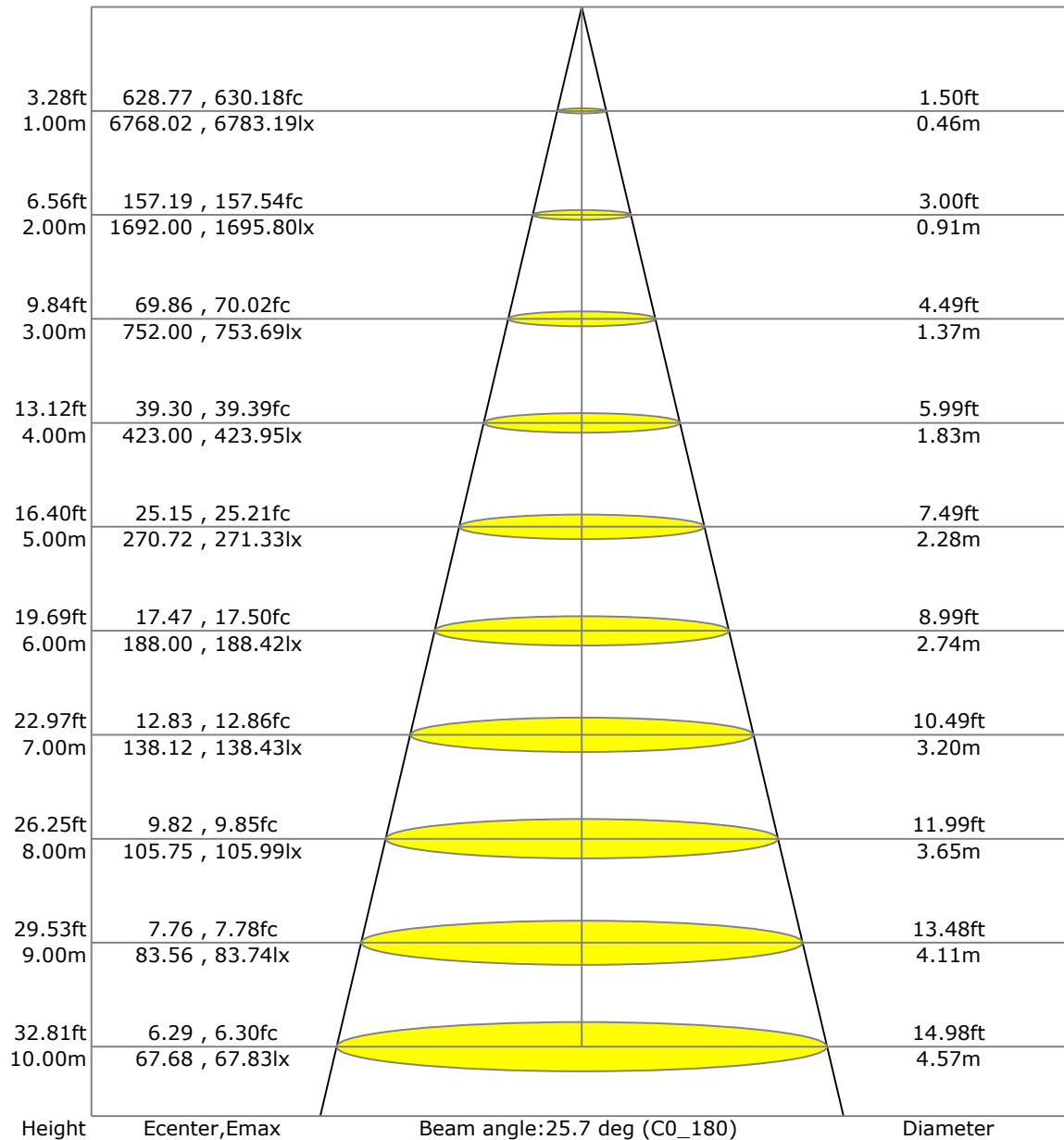
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:22:18

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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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 17:22:18

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

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	10.35	10.41	10.55	10.60	10.84	10.42	10.48	10.62	10.66	10.91
3H	10.36	10.42	10.57	10.61	10.86	10.42	10.48	10.63	10.67	10.92
4H	10.35	10.41	10.57	10.61	10.86	10.41	10.47	10.62	10.67	10.91
6H	10.34	10.40	10.56	10.60	10.85	10.39	10.45	10.61	10.65	10.91
8H	10.33	10.39	10.55	10.59	10.84	10.39	10.44	10.60	10.65	10.90
12H	10.32	10.38	10.54	10.59	10.84	10.38	10.43	10.60	10.64	10.90
4H 2H	10.78	10.83	10.99	11.03	11.28	10.98	11.04	11.20	11.24	11.49
3H	10.81	10.86	11.03	11.07	11.32	11.01	11.07	11.23	11.27	11.53
4H	10.80	10.85	11.03	11.07	11.33	11.00	11.05	11.23	11.27	11.53
6H	10.78	10.83	11.02	11.06	11.32	10.98	11.03	11.21	11.25	11.52
8H	10.77	10.82	11.01	11.05	11.32	10.96	11.02	11.21	11.24	11.51
12H	10.75	10.81	11.00	11.04	11.31	10.95	11.00	11.20	11.24	11.51
8H 4H	10.80	10.86	11.02	11.06	11.31	11.10	11.16	11.32	11.36	11.62
6H	10.80	10.85	11.06	11.09	11.37	11.12	11.18	11.38	11.42	11.69
8H	10.79	10.84	11.05	11.08	11.36	11.11	11.16	11.37	11.41	11.68
12H	10.77	10.82	11.04	11.08	11.36	11.09	11.14	11.36	11.40	11.68
12H 4H	10.82	10.87	11.06	11.10	11.37	11.21	11.27	11.46	11.50	11.77
6H	10.79	10.85	11.06	11.09	11.37	11.20	11.25	11.46	11.49	11.77

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ZONAL LUMINOUS FLUX TABLE

[illegible]

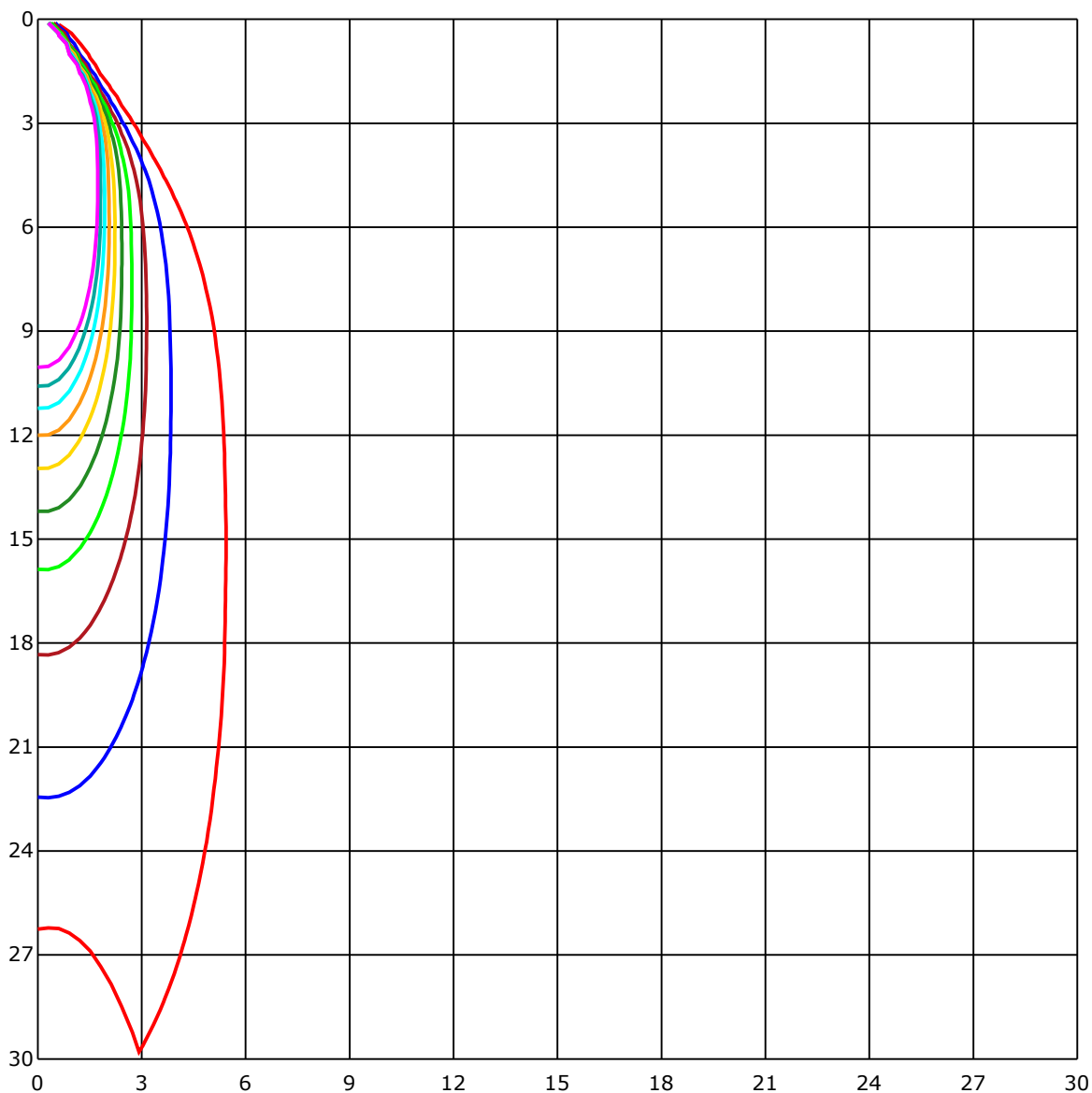
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



67.156
60.44
53.724
47.009
40.293

33.578
26.862
20.147
13.431
6.716

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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	6768.02	6571.78	6749.4	6520.89	6768.02	6571.78	6749.4	6520.89	6768.02	
G1	6783.19	6393.33	6676.13	6306.87	6694.01	6687.48	6754.83	6670.89	6783.19	
G2	6735.84	6165.65	6539.79	6043.65	6558.08	6739.89	6693.28	6755.93	6735.84	
G3	6624.92	5892.32	6341.25	5743.57	6360.46	6730.88	6568.7	6776.25	6624.92	
G4	6446.56	5578.59	6094.95	5401.15	6120.0	6658.25	6380.09	6724.12	6446.56	
G5	6217.73	5238.97	5803.6	5043.24	5842.4	6519.61	6129.66	6609.38	6217.73	
G6	5938.84	4884.47	5485.18	4666.12	5526.64	6322.13	5827.97	6430.29	5938.84	
G7	5629.8	4523.98	5139.82	4292.67	5188.36	6073.81	5494.24	6195.35	5629.8	
G8	5299.74	4166.21	4779.56	3928.23	4836.66	5792.25	5139.64	5920.46	5299.74	
G9	4949.14	3823.56	4411.91	3575.79	4483.99	5477.83	4767.71	5609.29	4949.14	
G10	4588.8	3483.81	4057.72	3249.74	4137.48	5149.61	4391.45	5274.05	4588.8	
G11	4230.66	3171.77	3721.83	2929.02	3791.84	4802.32	4020.58	4923.17	4230.66	
G12	3885.94	2868.06	3381.8	2638.13	3472.41	4446.66	3654.63	4560.53	3885.94	
G13	3538.79	2603.51	3074.51	2381.76	3161.52	4090.04	3307.79	4199.35	3538.79	
G14	3222.11	2360.39	2784.49	2153.11	2875.42	3749.05	2980.96	3853.07	3222.11	
G15	2923.13	2143.6	2520.59	1946.16	2610.78	3426.62	2689.24	3508.26	2923.13	
G16	2652.19	1946.95	2271.76	1768.96	2375.1	3118.4	2417.8	3192.83	2652.19	
G17	2393.12	1772.91	2064.4	1613.77	2157.8	2828.53	2179.64	2895.73	2393.12	
G18	2166.03	1618.59	1875.1	1480.87	1964.83	2561.13	1964.51	2626.68	2166.03	
G19	1970.67	1486.57	1711.96	1362.41	1793.6	2321.91	1787.16	2378.31	1970.67	
G20	1802.42	1371.61	1569.73	1261.19	1637.9	2109.21	1631.1	2150.72	1802.42	
G21	1642.68	1269.56	1450.07	1174.77	1507.4	1916.06	1497.24	1957.93	1642.68	
G22	1507.95	1174.08	1342.23	1094.69	1394.31	1751.86	1383.19	1792.77	1507.95	
G23	1385.76	1087.2	1252.78	1020.18	1285.97	1608.16	1283.12	1646.5	1385.76	
G24	1278.34	1005.97	1168.24	951.55	1190.35	1482.76	1192.56	1519.62	1278.34	
G25	1178.03	927.23	1093.08	879.24	1100.02	1368.85	1115.84	1408.56	1178.03	
G26	1091.52	854.37	1021.92	811.66	1015.9	1266.52	1041.92	1311.57	1091.52	
G27	1007.4	783.62	954.35	748.37	937.99	1173.62	973.47	1223.45	1007.4	
G28	931.64	715.27	886.27	681.85	863.65	1085.73	906.13	1141.17	931.64	
G29	858.14	650.54	821.27	616.67	789.78	1006.11	843.57	1063.43	858.14	
G30	790.7	586.69	755.26	552.36	719.54	929.62	775.44	991.58	790.7	
G31	724.97	528.45	688.42	490.94	652.89	856.16	708.01	919.55	724.97	
G32	663.05	471.77	622.92	432.01	587.8	783.62	642.5	850.05	663.05	
G33	603.38	418.22	560.03	374.27	526.48	716.14	579.71	784.22	603.38	
G34	546.47	363.47	497.38	314.29	470.03	649.07	515.77	717.15	546.47	
G35	490.71	309.32	436.1	260.46	411.79	585.27	455.41	649.4	490.71	
G36	436.42	261.65	369.91	214.58	355.8	524.87	395.6	583.84	436.42	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 17:22:18

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	378.09	219.82	310.65	177.67	302.89	467.27	334.6	519.76	378.09	
G38	322.84	185.21	258.11	148.52	256.87	407.42	277.14	457.89	322.84	
G39	272.78	157.07	215.68	124.67	219.68	352.21	229.66	393.67	272.78	
G40	231.45	132.3	180.66	104.49	187.23	299.67	189.8	332.81	231.45	
G41	193.99	111.93	152.48	88.63	159.74	253.56	156.2	278.61	193.99	
G42	161.9	95.2	128.53	76.4	137.31	214.3	129.54	233.01	161.9	
G43	136.11	82.01	110.05	67.21	118.23	181.48	108.44	194.58	136.11	
G44	115.98	71.07	95.25	60.08	102.83	153.81	91.84	163.0	115.98	
G45	98.56	62.43	84.49	54.1	90.19	132.25	79.34	138.0	98.56	
G46	84.4	55.81	75.39	49.83	80.03	114.14	69.18	118.18	84.4	
G47	72.95	50.29	68.91	45.74	71.89	99.61	61.37	102.05	72.95	
G48	63.8	45.37	63.02	42.75	65.64	87.34	54.93	89.36	63.8	
G49	56.31	42.02	58.61	40.04	60.4	77.82	50.2	79.34	56.31	
G50	50.61	39.12	54.89	37.88	56.22	69.87	45.92	71.57	50.61	
G51	45.69	36.68	51.94	35.67	52.54	64.13	42.89	65.41	45.69	
G52	42.38	34.48	49.05	33.74	49.55	59.02	40.18	60.36	42.38	
G53	39.12	32.73	46.24	31.95	46.57	54.98	38.06	56.31	39.12	
G54	36.64	30.98	43.95	30.11	44.18	51.58	35.86	53.05	36.64	
G55	34.61	29.42	41.6	28.41	41.92	48.63	34.06	50.06	34.61	
G56	32.78	27.86	39.49	26.85	39.9	45.51	32.22	47.21	32.78	
G57	31.17	26.57	37.74	25.42	37.83	43.26	30.66	44.64	31.17	
G58	29.7	25.19	35.86	24.13	36.32	41.05	29.05	42.47	29.7	
G59	28.22	23.86	34.2	22.71	34.38	39.21	27.58	40.5	28.22	
G60	26.89	22.71	32.5	21.38	32.96	37.42	26.16	38.48	26.89	
G61	25.47	21.33	31.03	20.13	31.21	35.53	24.82	36.59	25.47	
G62	24.27	20.13	29.37	18.89	29.83	33.79	23.44	34.89	24.27	
G63	23.03	18.94	27.81	17.79	28.22	32.32	22.16	33.28	23.03	
G64	21.83	17.79	26.39	16.73	26.89	30.71	20.87	31.72	21.83	
G65	20.55	16.55	24.91	15.4	25.56	29.37	19.9	30.16	20.55	
G66	19.31	15.35	23.58	14.3	24.09	27.9	18.57	28.78	19.31	
G67	18.16	14.16	22.39	13.1	22.71	26.57	17.19	27.17	18.16	
G68	16.92	12.92	20.92	12.0	21.42	25.01	16.09	25.7	16.92	
G69	15.58	11.72	19.67	10.85	19.95	23.77	15.08	24.36	15.58	
G70	14.57	10.39	18.25	9.88	18.57	22.29	13.84	23.03	14.57	
G71	13.19	9.33	17.01	8.55	17.1	20.92	12.73	21.65	13.19	
G72	11.95	8.09	15.54	7.4	15.86	19.58	11.45	20.41	11.95	
G73	10.66	6.8	14.3	6.25	14.48	18.34	10.3	18.94	10.66	

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:

Test Time: 2025/1/7 17:22:18

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