

Report No.:

Test Time: 2025/3/29 16:41:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H94-15°-15W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

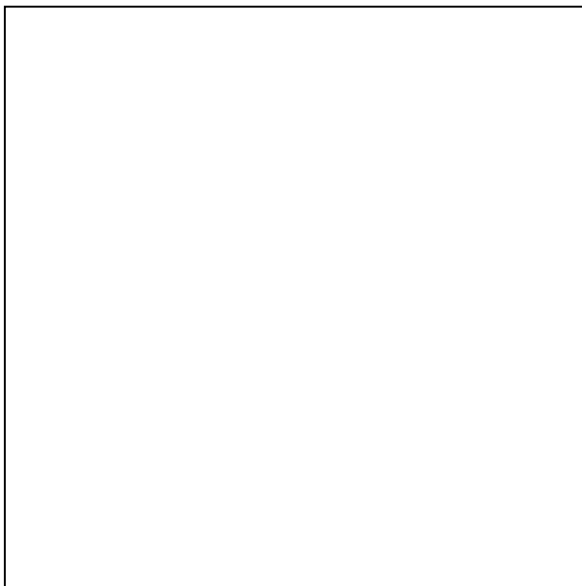
Voltage(V): 220.00 V
Current(A): 0.0690 A
Power(W): 14.59 W
Power Factor: 0.9480
Lamp Luminous Flux: 1266.61

Photometric Results

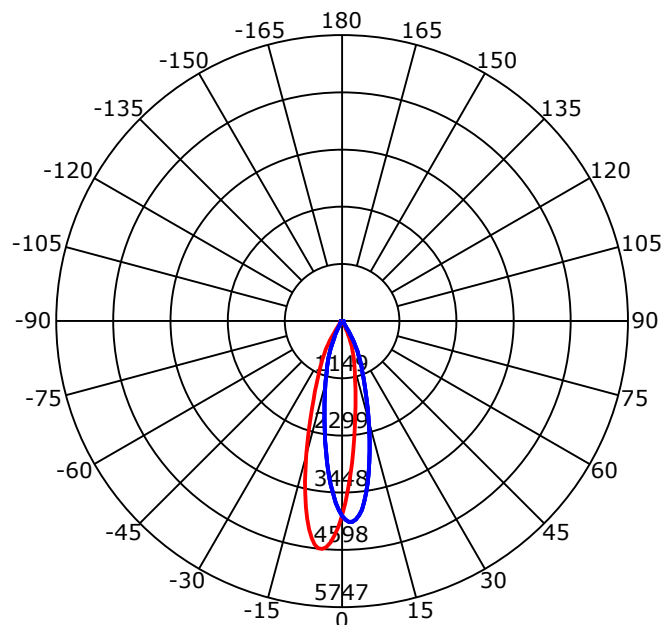
CIE Class: Direct
Luminaire Luminous Flux: 1266.61 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 86.81 lm/W
Beam Angle(50%) C0-180,C90-270: 23.2,25.4
Field Angle(10%) C0-180,C90-270: 54.1,55.2
S/MH C0-180,C90-270: 0.499,0.462

Max. Intensity: 4597.59 cd
Max.Intensity Angle: C=180 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3904.65 cd
Effective Luminous Flux: 1053.97 lm
ERP(ϕ use)(120deg): 1227.54 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.2 deg,25.4 deg

C0-180 — C90-270 —

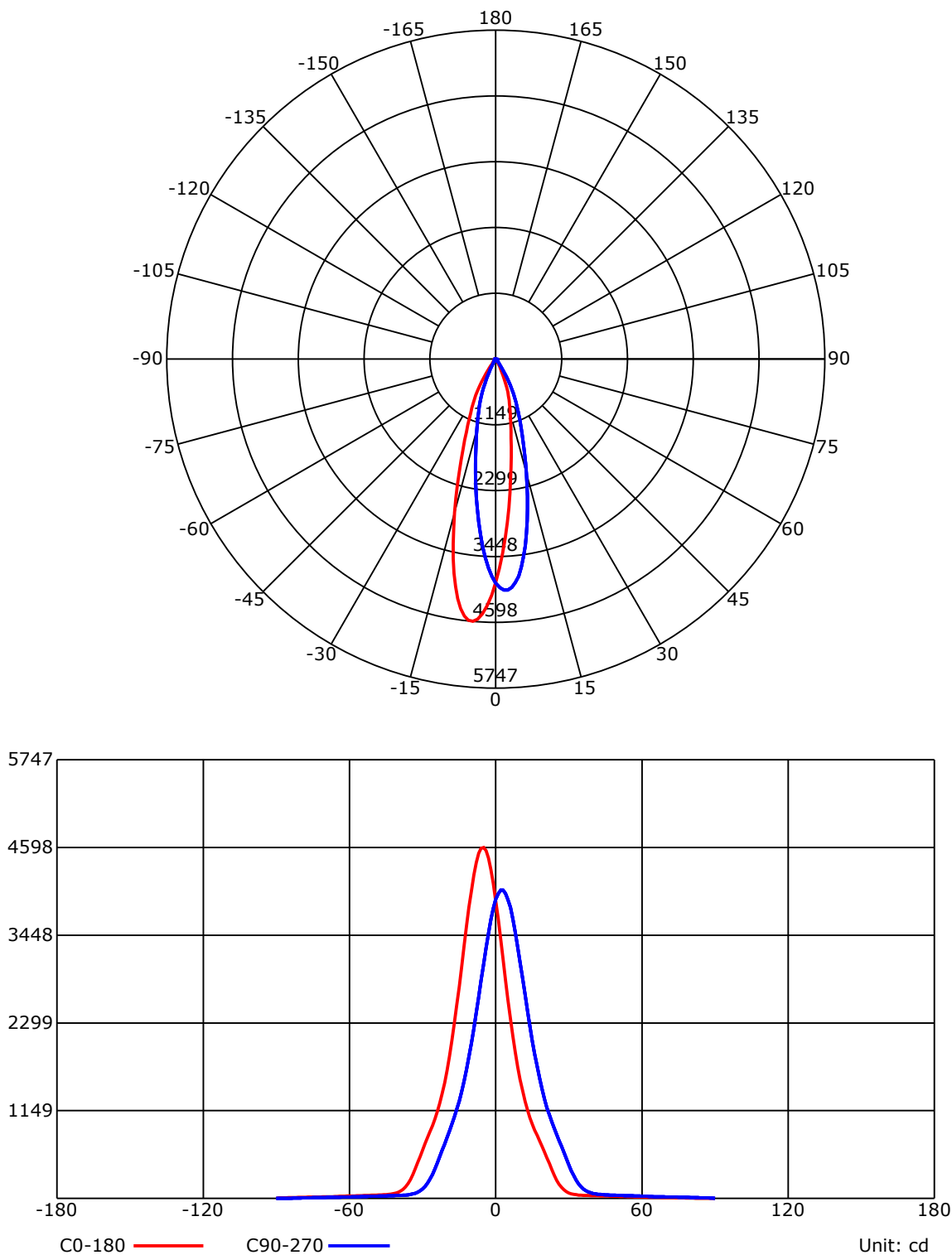
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 16:41:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/3/29 16:41:50

Luminous Intensity Distribution Curve



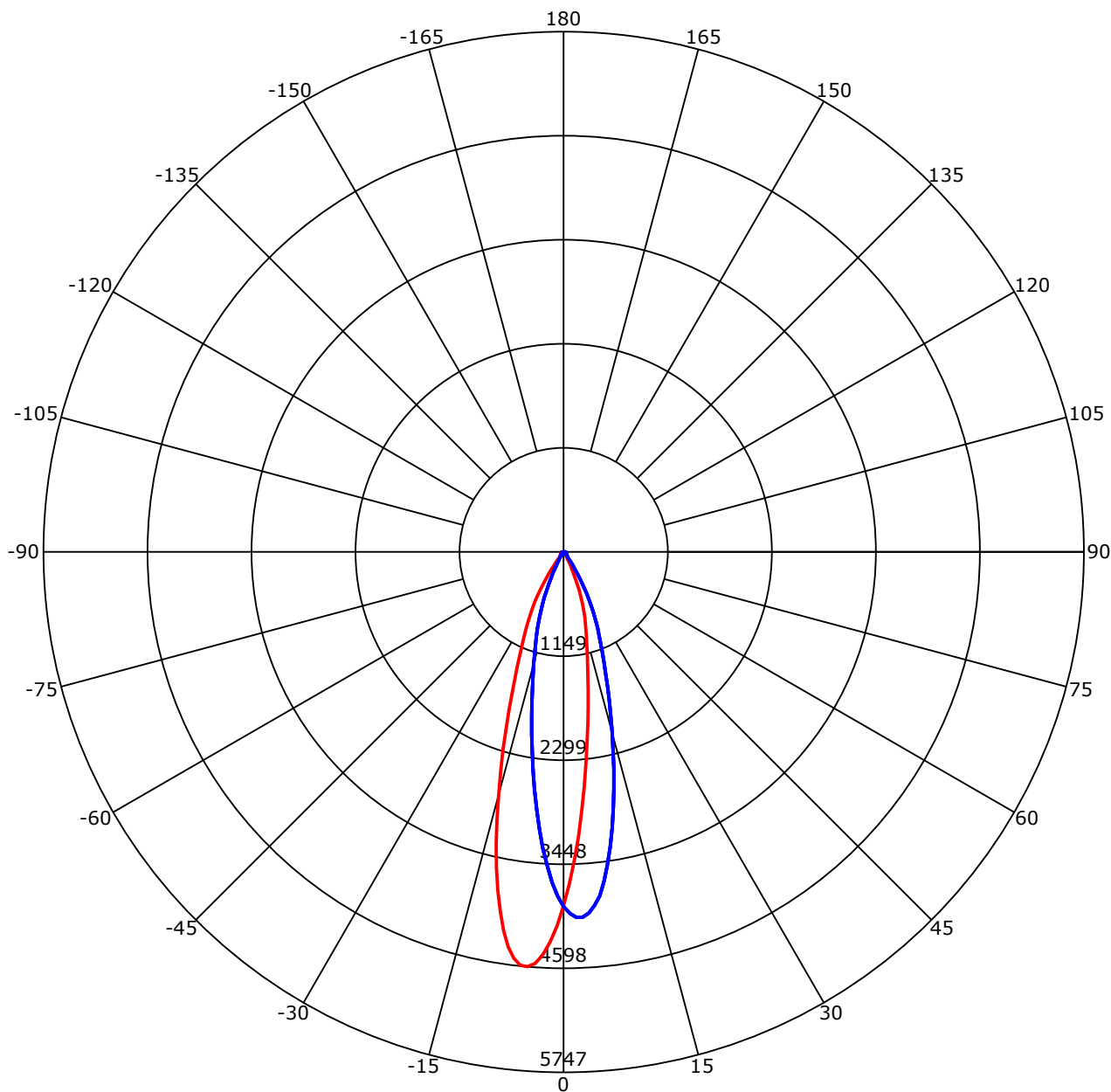
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 16:41:50

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 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: 2025/3/29 16:41:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

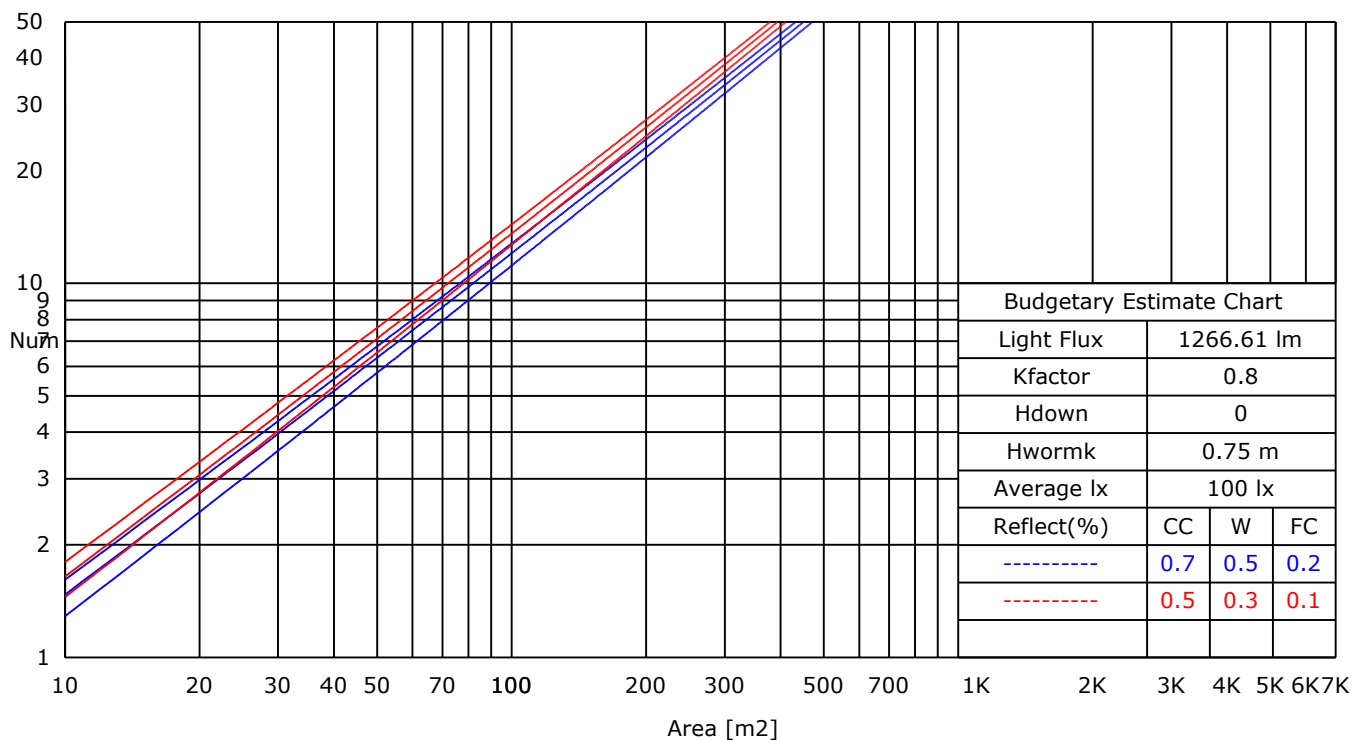
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UTILIZATION FACTORS TABLE

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	0.93	0.91	0.88	0.93	0.89	0.87	0.90	0.86	0.83	0.86	0.82	0.79	0.80	0.77	0.73	0.68
2	0.89	0.86	0.85	0.88	0.85	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.71	0.66
3	0.86	0.83	0.82	0.85	0.82	0.80	0.83	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.83	0.80	0.79	0.82	0.79	0.77	0.80	0.77	0.74	0.78	0.73	0.70	0.74	0.70	0.66	0.62
5	0.80	0.78	0.77	0.79	0.77	0.75	0.78	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.71	0.66	0.62	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	0.73	0.72	0.73	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
9	0.73	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.58	0.55
10	0.71	0.70	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



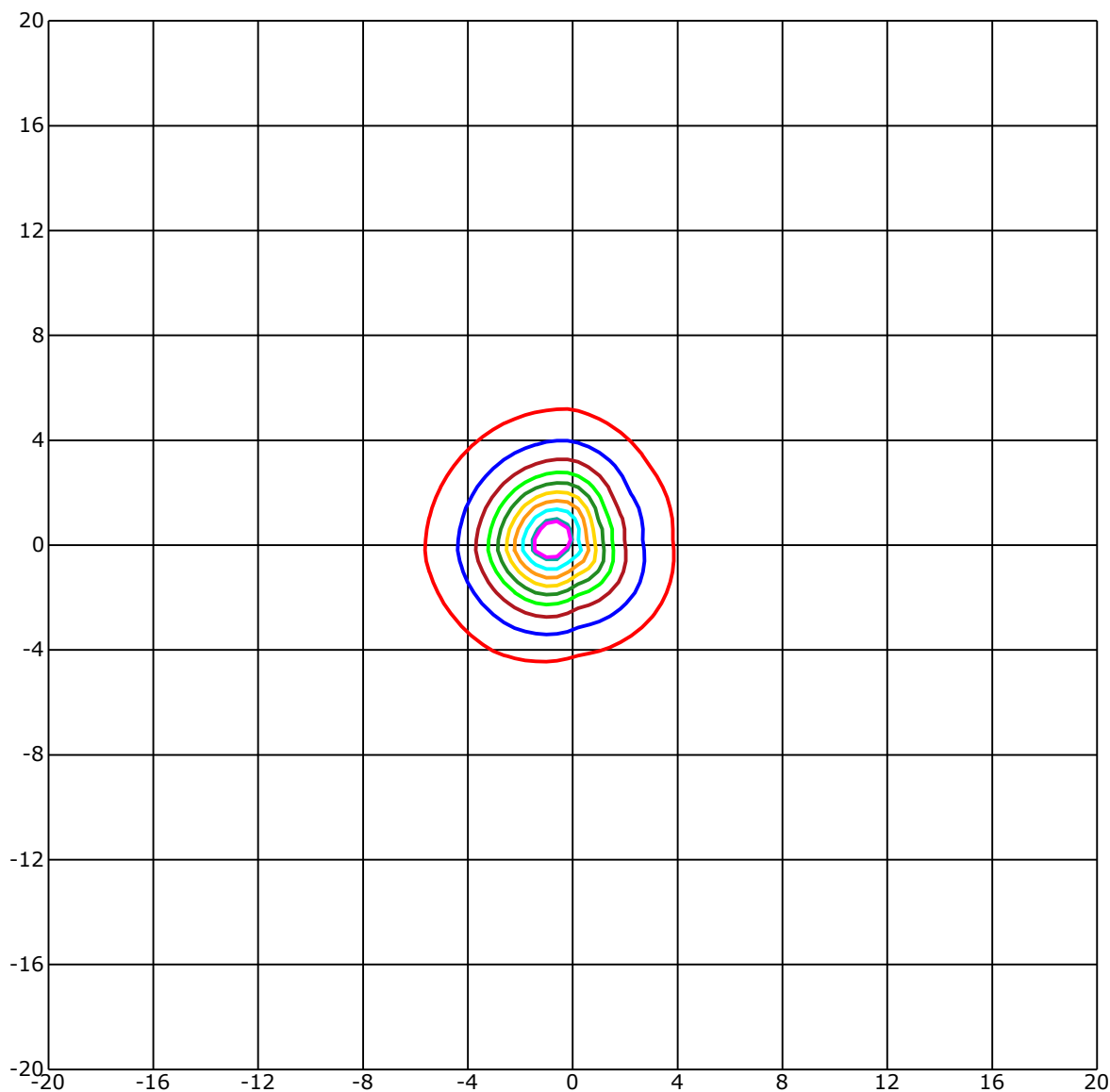
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 16:41:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



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

41.817(92%Emax)	22.727(50%Emax)
40.908(90%Emax)	18.181(40%Emax)
36.362(80%Emax)	13.636(30%Emax)
31.817(70%Emax)	9.091(20%Emax)
27.272(60%Emax)	4.545(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 16:41:50

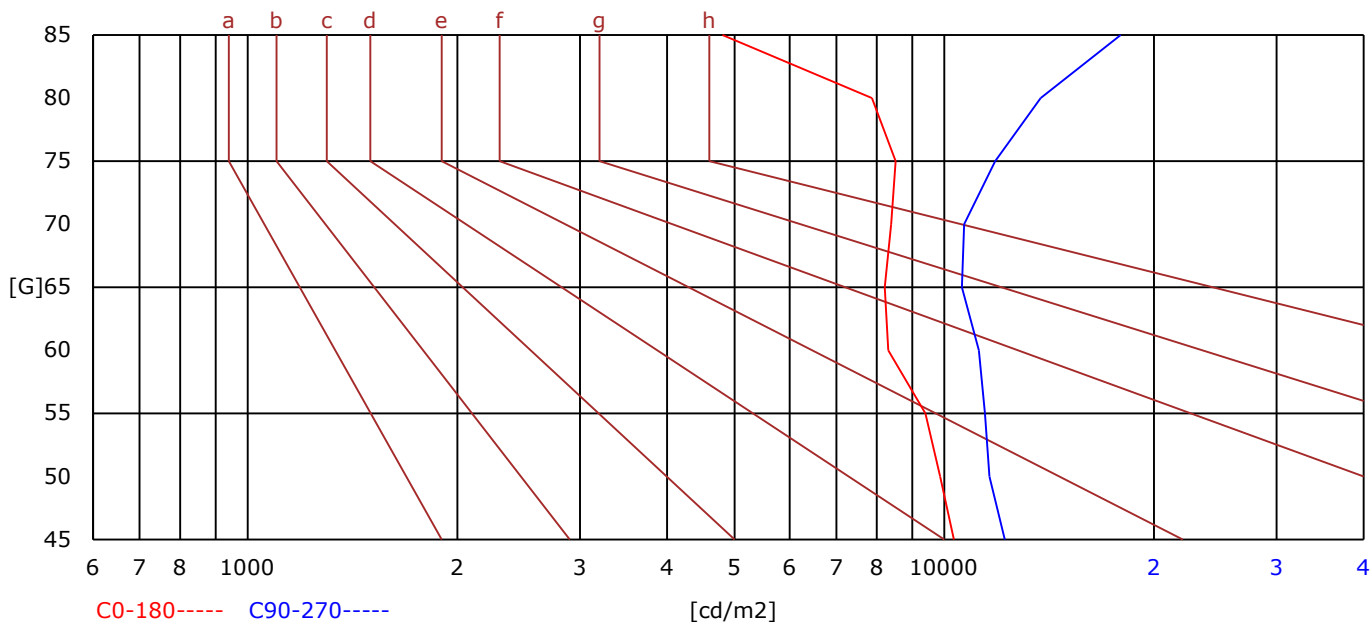
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10321	9861	9396	8308	8212	8386	8518	7876	4802
C90	12212	11608	11442	11207	10603	10684	11831	13754	17918
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



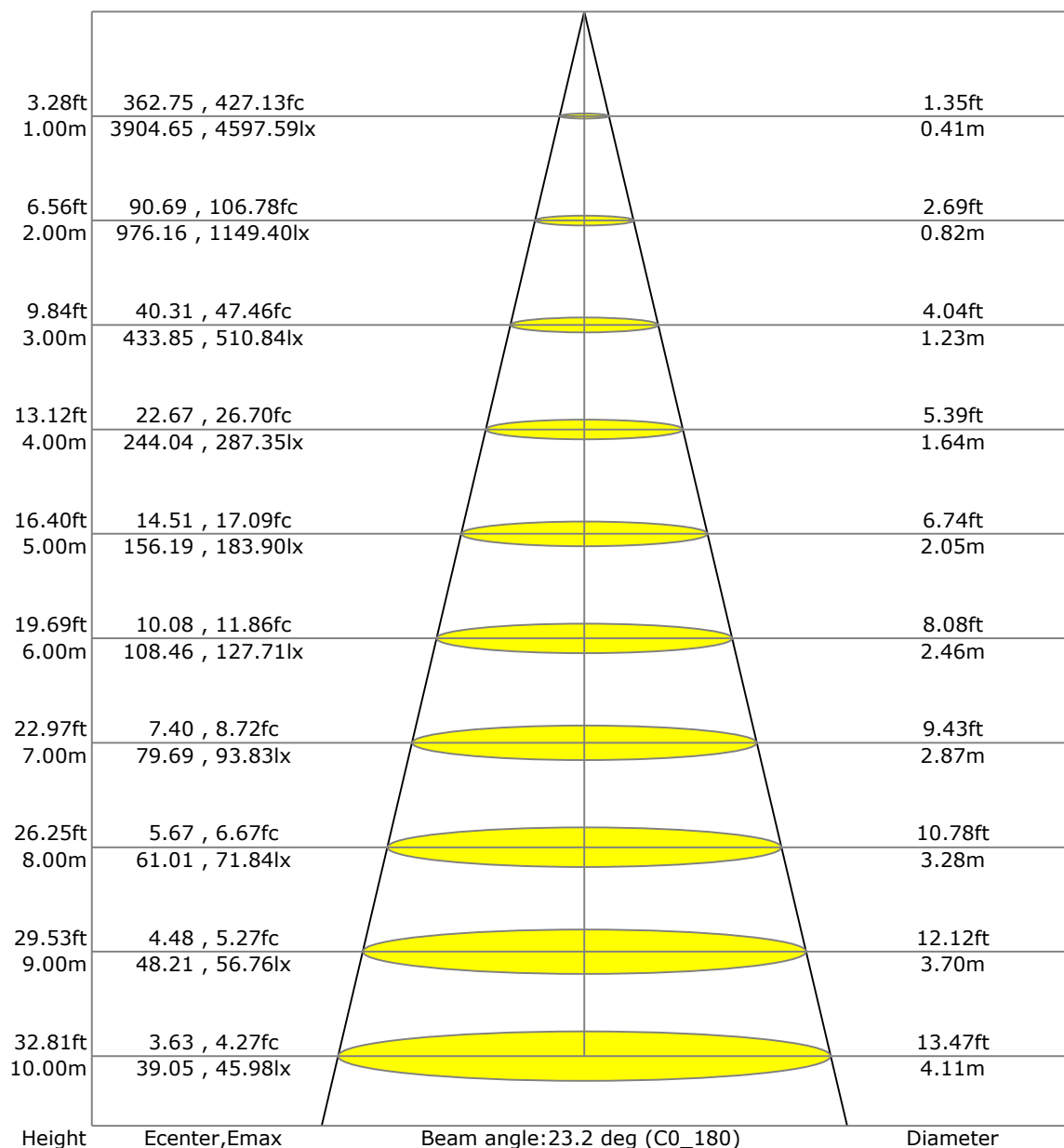
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 16:41:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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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: 2025/3/29 16:41:50

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 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	8.17	8.22	8.37	8.41	8.65	9.05	9.11	9.25	9.29	9.54
3H	8.41	8.46	8.61	8.66	8.90	9.17	9.23	9.38	9.42	9.67
4H	8.47	8.53	8.68	8.72	8.97	9.19	9.25	9.40	9.44	9.69
6H	8.48	8.54	8.70	8.74	8.99	9.18	9.24	9.40	9.44	9.69
8H	8.47	8.53	8.69	8.74	8.99	9.17	9.23	9.39	9.44	9.69
12H	8.46	8.52	8.69	8.73	8.98	9.16	9.22	9.39	9.43	9.68
4H 2H	10.22	10.28	10.43	10.47	10.72	11.79	11.85	12.00	12.04	12.29
3H	10.66	10.72	10.88	10.93	11.18	12.09	12.15	12.31	12.36	12.61
4H	10.80	10.86	11.03	11.07	11.33	12.16	12.21	12.39	12.43	12.69
6H	10.88	10.94	11.12	11.16	11.42	12.17	12.22	12.40	12.45	12.71
8H	10.90	10.95	11.14	11.18	11.45	12.16	12.21	12.40	12.44	12.71
12H	10.89	10.95	11.14	11.18	11.45	12.14	12.20	12.39	12.43	12.70
8H 4H	10.60	10.66	10.82	10.87	11.12	12.95	13.01	13.17	13.21	13.46
6H	11.48	11.54	11.74	11.78	12.05	13.65	13.70	13.90	13.94	14.22
8H	11.53	11.58	11.79	11.83	12.10	13.65	13.70	13.91	13.95	14.22
12H	11.55	11.60	11.82	11.86	12.14	13.63	13.68	13.90	13.94	14.22
12H 4H	11.35	11.41	11.60	11.64	11.91	14.07	14.13	14.32	14.36	14.63
6H	11.50	11.55	11.76	11.79	12.07	14.19	14.24	14.45	14.49	14.77

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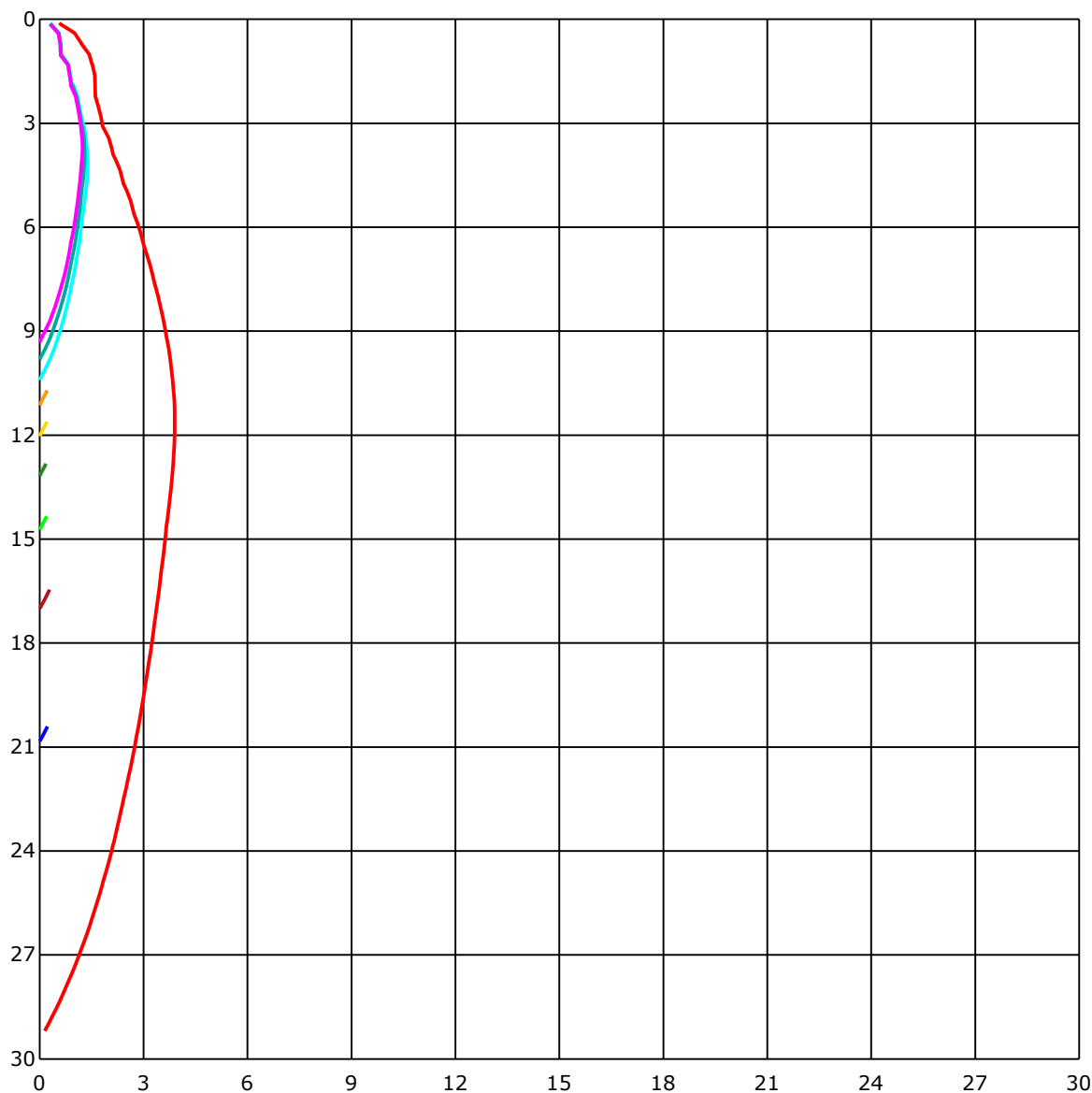
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

45.005
40.504
36.004
31.503
27.003

22.502
18.002
13.501
9.001
4.5

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 16:41:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3904.65	3878.78	3915.27	4140.49	3904.65	3878.78	3915.27	4140.49	3904.65	
G1	3660.92	3740.78	3992.48	4303.08	4127.84	3981.72	3799.96	3937.21	3660.92	
G2	3399.64	3565.07	4038.07	4427.68	4310.92	4041.99	3651.91	3718.64	3399.64	
G3	3136.75	3373.16	4039.21	4515.66	4457.56	4063.61	3472.28	3480.44	3136.75	
G4	2864.52	3168.61	3996.49	4544.4	4556.2	4038.88	3284.67	3234.31	2864.52	
G5	2606.92	2947.12	3918.29	4526.99	4597.59	3975.25	3076.39	2984.4	2606.92	
G6	2351.26	2710.47	3814.03	4447.41	4588.39	3868.21	2858.72	2739.69	2351.26	
G7	2125.04	2486.33	3660.03	4328.48	4520.52	3716.05	2639.68	2496.43	2125.04	
G8	1916.24	2270.22	3484.26	4170.13	4401.02	3537.55	2438.24	2272.91	1916.24	
G9	1725.71	2071.8	3295.15	3978.98	4239.93	3346.26	2228.87	2065.24	1725.71	
G10	1555.85	1885.04	3093.43	3764.52	4034.96	3134.49	2039.52	1873.76	1555.85	
G11	1407.84	1714.0	2879.25	3522.45	3813.04	2911.48	1853.61	1697.86	1407.84	
G12	1274.18	1558.06	2671.25	3271.83	3564.97	2690.22	1686.16	1543.43	1274.18	
G13	1159.86	1416.76	2459.76	3012.63	3310.16	2475.43	1536.97	1404.91	1159.86	
G14	1058.3	1288.85	2257.85	2761.3	3038.58	2261.63	1399.86	1283.66	1058.3	
G15	973.44	1178.13	2064.91	2511.58	2776.03	2062.46	1277.2	1173.65	973.44	
G16	893.48	1079.25	1892.17	2280.93	2525.65	1874.94	1163.88	1077.27	893.48	
G17	823.16	996.56	1725.61	2062.17	2292.35	1702.02	1064.2	990.19	823.16	
G18	751.8	914.11	1572.51	1861.87	2067.08	1545.98	973.39	910.19	751.8	
G19	681.48	843.08	1431.34	1678.13	1862.72	1403.87	885.08	827.27	681.48	
G20	610.35	771.01	1303.81	1514.69	1677.99	1277.2	800.03	748.45	610.35	
G21	532.99	702.05	1190.92	1374.0	1515.87	1169.07	714.09	663.49	532.99	
G22	454.69	630.17	1092.84	1247.04	1371.45	1066.27	631.49	579.81	454.69	
G23	377.48	556.03	1002.13	1134.28	1245.86	977.26	545.27	494.86	377.48	
G24	303.71	479.76	919.54	1036.16	1136.36	892.92	462.67	413.96	303.71	
G25	238.82	404.81	838.22	946.2	1040.98	809.9	385.08	337.41	238.82	
G26	185.39	331.42	757.79	859.74	954.46	726.74	314.47	271.81	185.39	
G27	143.29	264.87	676.99	776.29	874.46	640.93	251.65	215.97	143.29	
G28	111.48	208.14	597.75	697.15	795.74	555.37	199.6	171.23	111.48	
G29	88.59	162.26	517.09	613.28	718.57	471.54	157.92	137.25	88.59	
G30	71.98	126.44	438.36	531.01	637.06	390.46	125.07	112.0	71.98	
G31	60.88	99.77	363.13	449.17	553.53	315.94	100.06	93.59	60.88	
G32	53.38	80.52	294.6	370.54	469.28	252.22	81.79	80.14	53.38	
G33	47.86	66.97	236.74	299.28	388.52	199.69	68.67	70.23	47.86	
G34	44.27	57.34	189.64	238.34	312.82	157.87	59.42	63.06	44.27	
G35	42.15	50.64	152.4	185.91	248.26	126.77	52.62	57.82	42.15	
G36	40.35	45.69	122.95	144.8	193.98	102.84	47.48	54.42	40.35	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/3/29 16:41:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	38.98	43.14	100.86	113.84	151.17	86.04	44.18	51.54	38.98	
G38	37.71	40.83	84.67	91.0	119.55	73.67	41.91	48.99	37.71	
G39	36.81	39.41	72.73	74.52	97.23	65.37	40.21	47.2	36.81	
G40	35.73	37.99	64.47	62.87	81.08	59.23	38.61	45.78	35.73	
G41	34.97	37.0	58.52	54.47	70.18	55.03	37.47	44.13	34.97	
G42	34.08	36.15	54.7	48.24	62.25	52.01	36.34	43.04	34.08	
G43	33.18	35.21	51.49	44.32	57.25	49.89	35.16	41.72	33.18	
G44	32.38	34.41	49.04	41.77	53.47	47.53	34.26	40.54	32.38	
G45	31.48	33.75	47.29	39.93	51.02	46.02	33.46	39.41	31.48	
G46	30.54	32.71	45.73	38.61	48.57	44.46	32.52	38.42	30.54	
G47	29.78	31.81	44.22	37.38	46.91	43.47	31.53	37.14	29.78	
G48	28.98	31.01	42.9	36.48	45.4	41.91	30.87	36.06	28.98	
G49	28.03	30.25	41.72	35.44	44.13	40.73	29.83	34.97	28.03	
G50	27.14	29.31	40.59	34.5	42.67	39.55	29.17	33.93	27.14	
G51	26.15	28.7	39.36	33.65	41.67	38.47	27.99	32.71	26.15	
G52	25.11	27.56	38.37	32.99	40.4	37.38	27.28	31.62	25.11	
G53	24.35	26.76	37.19	32.09	39.36	36.34	26.24	30.39	24.35	
G54	23.13	25.77	36.39	31.39	38.23	35.26	25.3	29.31	23.13	
G55	21.99	24.92	35.16	30.35	37.19	34.36	24.12	27.94	21.99	
G56	21.0	23.65	34.17	29.59	36.01	33.13	23.22	26.86	21.0	
G57	19.78	22.7	33.13	28.65	35.07	32.24	22.14	25.63	19.78	
G58	18.45	21.57	31.91	27.75	33.89	31.01	21.19	24.4	18.45	
G59	17.65	20.39	30.68	26.81	32.9	29.88	20.11	22.75	17.65	
G60	17.23	19.21	29.31	25.91	31.81	28.65	18.88	22.14	17.23	
G61	16.71	17.93	28.13	24.83	30.77	27.52	17.84	21.33	16.71	
G62	16.14	17.46	27.09	23.83	29.59	26.19	17.56	20.86	16.14	
G63	15.76	16.85	25.96	22.8	28.37	25.2	16.94	20.25	15.76	
G64	15.2	16.38	24.59	21.8	27.23	23.74	16.38	19.63	15.2	
G65	14.68	16.05	22.94	20.72	26.15	22.47	15.95	19.02	14.68	
G66	14.16	15.39	22.18	19.49	24.92	21.8	15.39	18.5	14.16	
G67	13.69	14.87	21.47	18.36	23.5	21.38	14.77	17.75	13.69	
G68	13.07	14.4	20.81	17.84	22.23	20.58	14.35	17.18	13.07	
G69	12.37	14.02	20.25	17.56	21.76	19.96	13.73	16.33	12.37	
G70	11.85	13.26	19.59	16.9	20.96	19.35	13.07	15.62	11.85	
G71	11.09	12.7	19.07	16.28	20.44	18.78	12.41	15.01	11.09	
G72	10.34	12.08	18.45	15.76	19.82	18.12	11.94	14.3	10.34	
G73	9.82	11.56	17.75	15.2	19.26	17.56	11.14	13.55	9.82	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/3/29 16:41:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: