

Report No.:

Test Time: 2025/7/16 18:48:30

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-3F-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

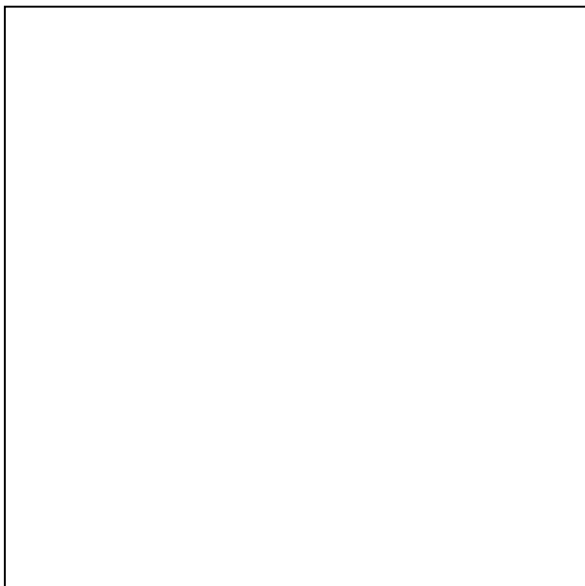
Voltage(V): 219.80 V
Current(A): 0.1520 A
Power(W): 30.79 W
Power Factor: 0.9150
Lamp Luminous Flux: 3006.71

Photometric Results

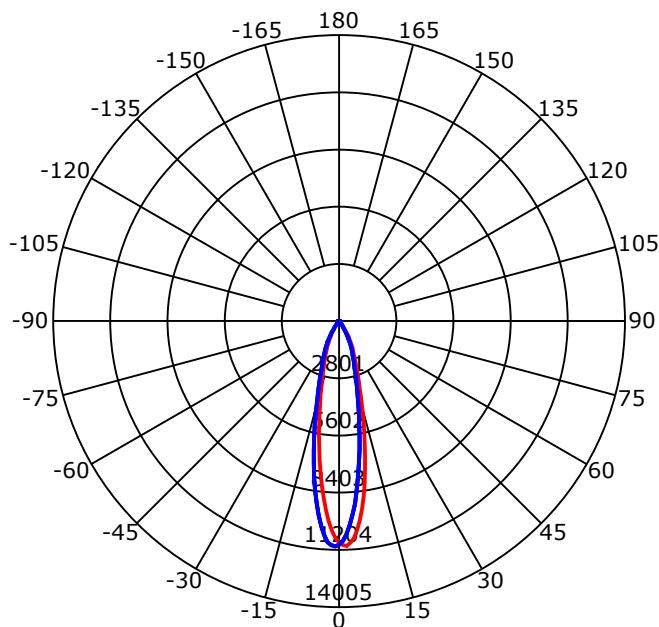
CIE Class: Direct
Luminaire Luminous Flux: 3006.707 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.65 lm/W
Beam Angle(50%) C0-180,C90-270: 23.2,23.0
Field Angle(10%) C0-180,C90-270: 56.3,56.4
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 11204.21 cd
Max.Intensity Angle: C=315 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 10858.12 cd
Effective Luminous Flux: 2500.35 lm
ERP(ϕ use)(120deg): 2977.05 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.2 deg,23.0 deg

C0-180 — C90-270 —

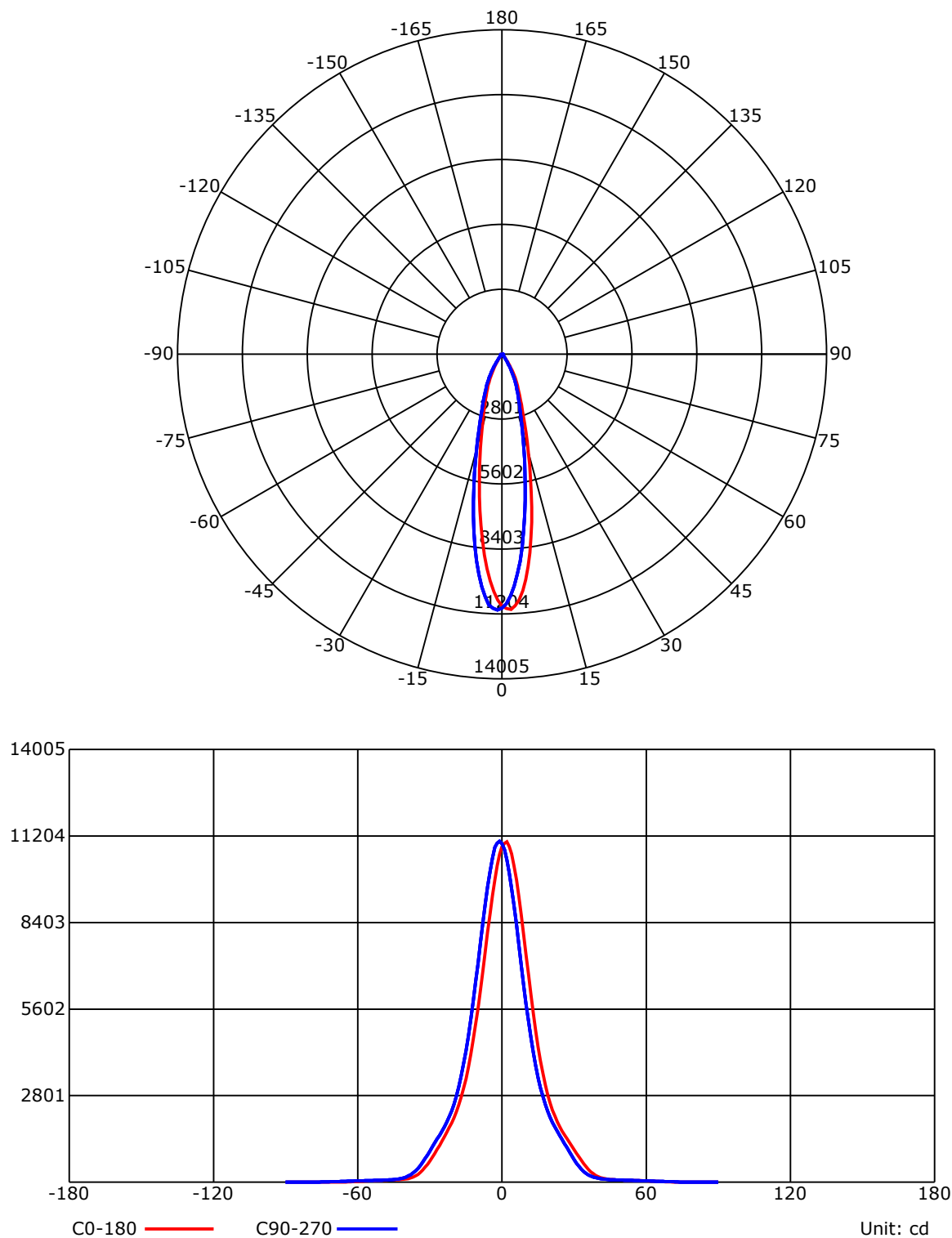
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:48:30

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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Luminous Intensity Distribution Curve



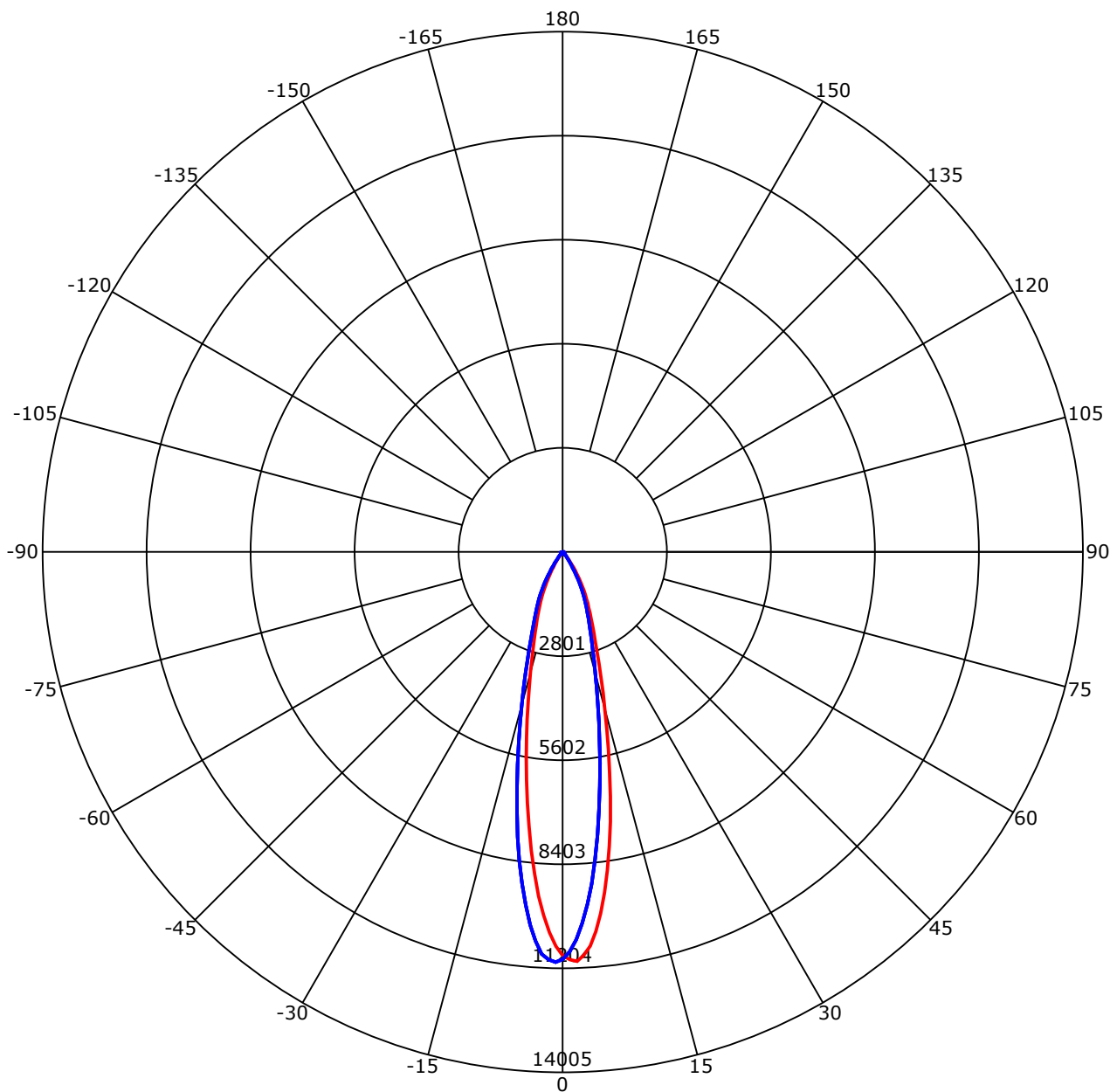
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:48:30

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 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: 2025/7/16 18:48:30

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

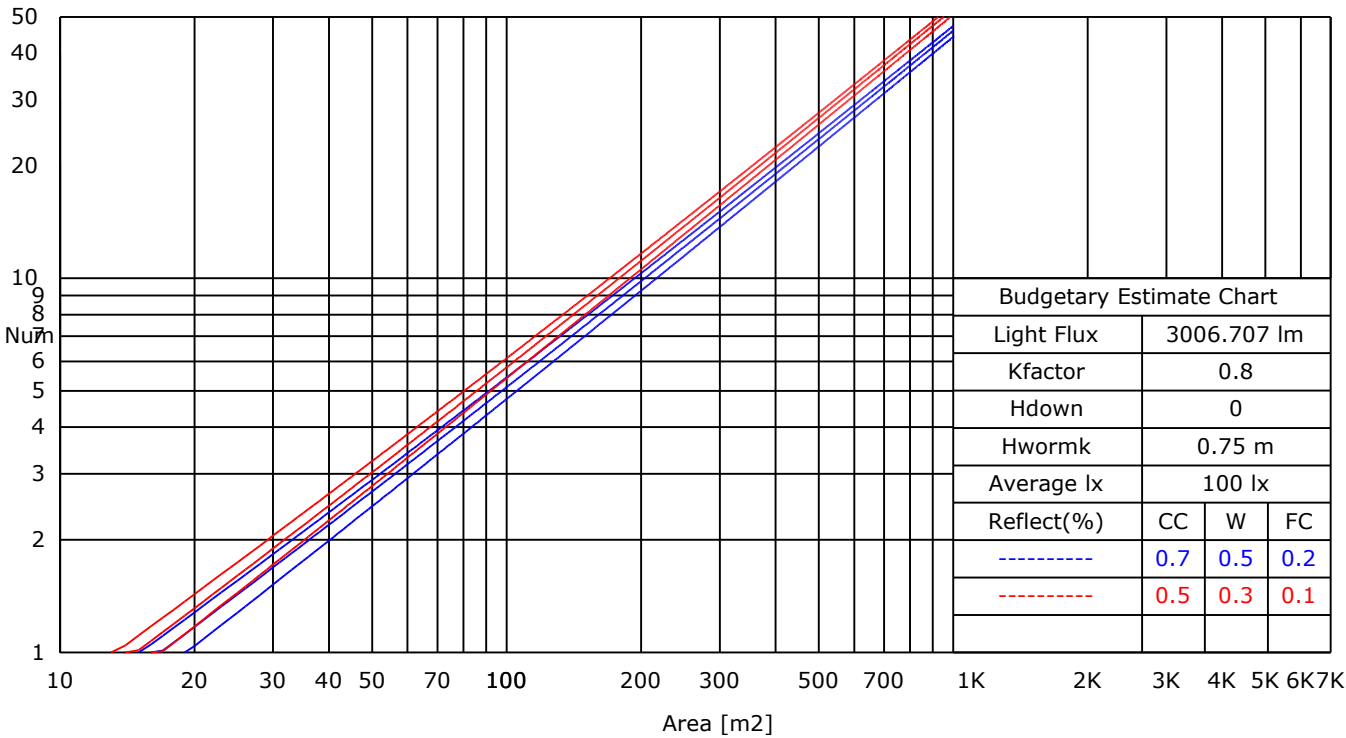
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UTILIZATION FACTORS TABLE

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	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	0.92	0.89	0.87	0.92	0.88	0.86	0.89	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.72	0.67
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.82	0.78	0.82	0.78	0.74	0.77	0.73	0.70	0.65
3	0.85	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.82	0.80	0.78	0.81	0.78	0.77	0.79	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
5	0.79	0.77	0.76	0.79	0.76	0.74	0.77	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.60
6	0.77	0.75	0.74	0.76	0.74	0.72	0.75	0.72	0.69	0.73	0.69	0.66	0.70	0.66	0.62	0.58
7	0.75	0.73	0.72	0.74	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.57
8	0.73	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
9	0.72	0.70	0.69	0.71	0.69	0.68	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
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



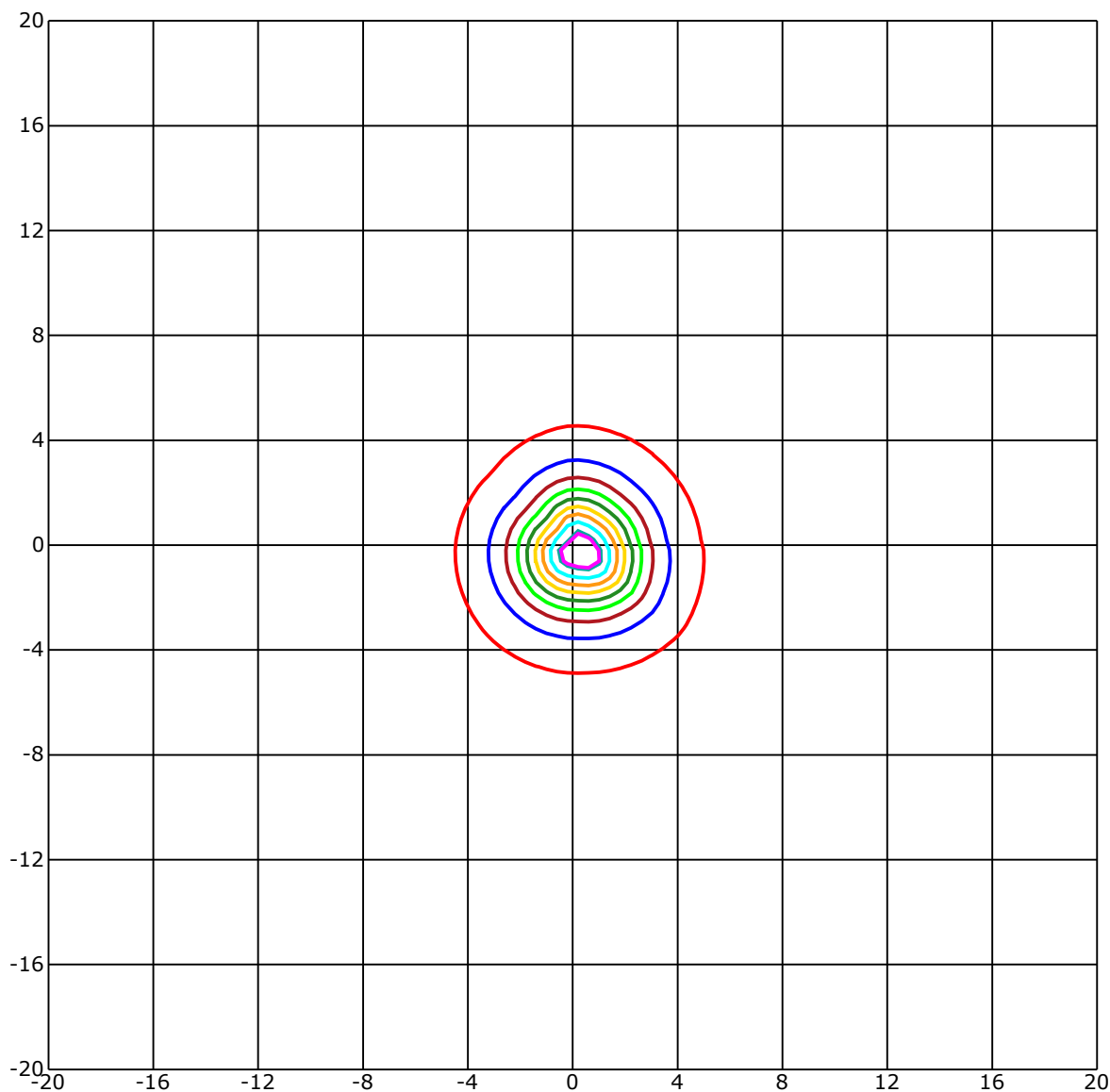
C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

102.656(92%Emax)	55.791(50%Emax)
100.424(90%Emax)	44.633(40%Emax)
89.266(80%Emax)	33.475(30%Emax)
78.107(70%Emax)	22.316(20%Emax)
66.949(60%Emax)	11.158(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:48:30

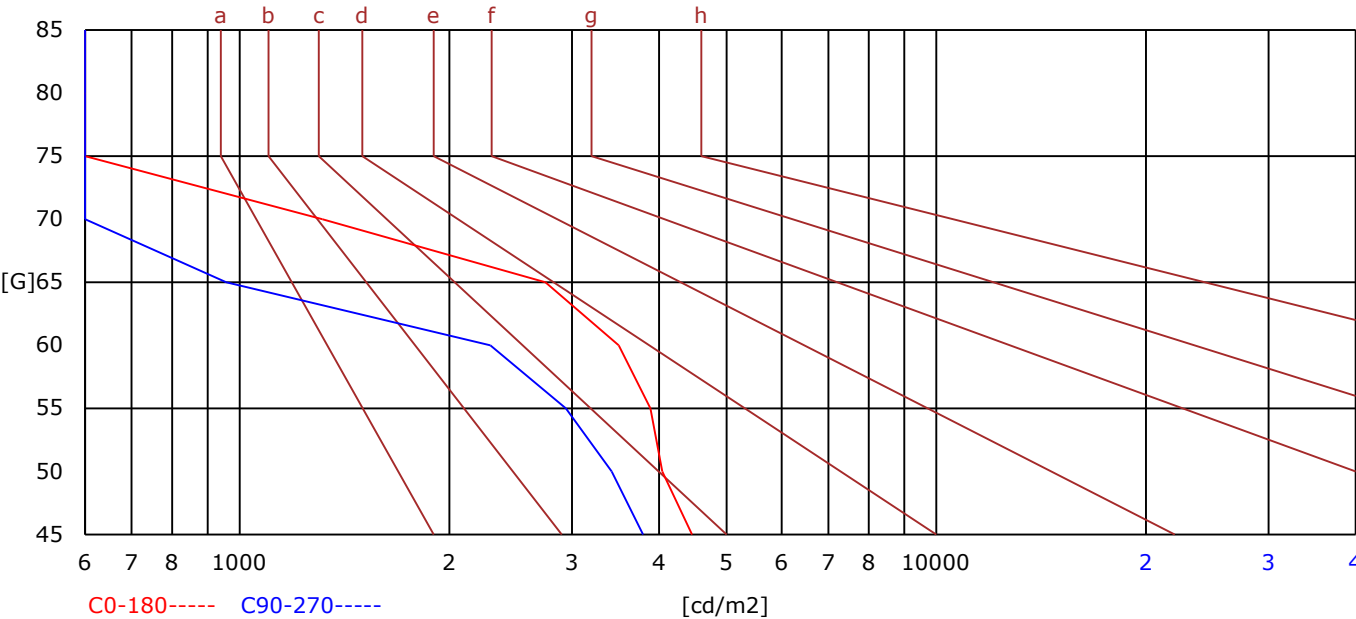
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

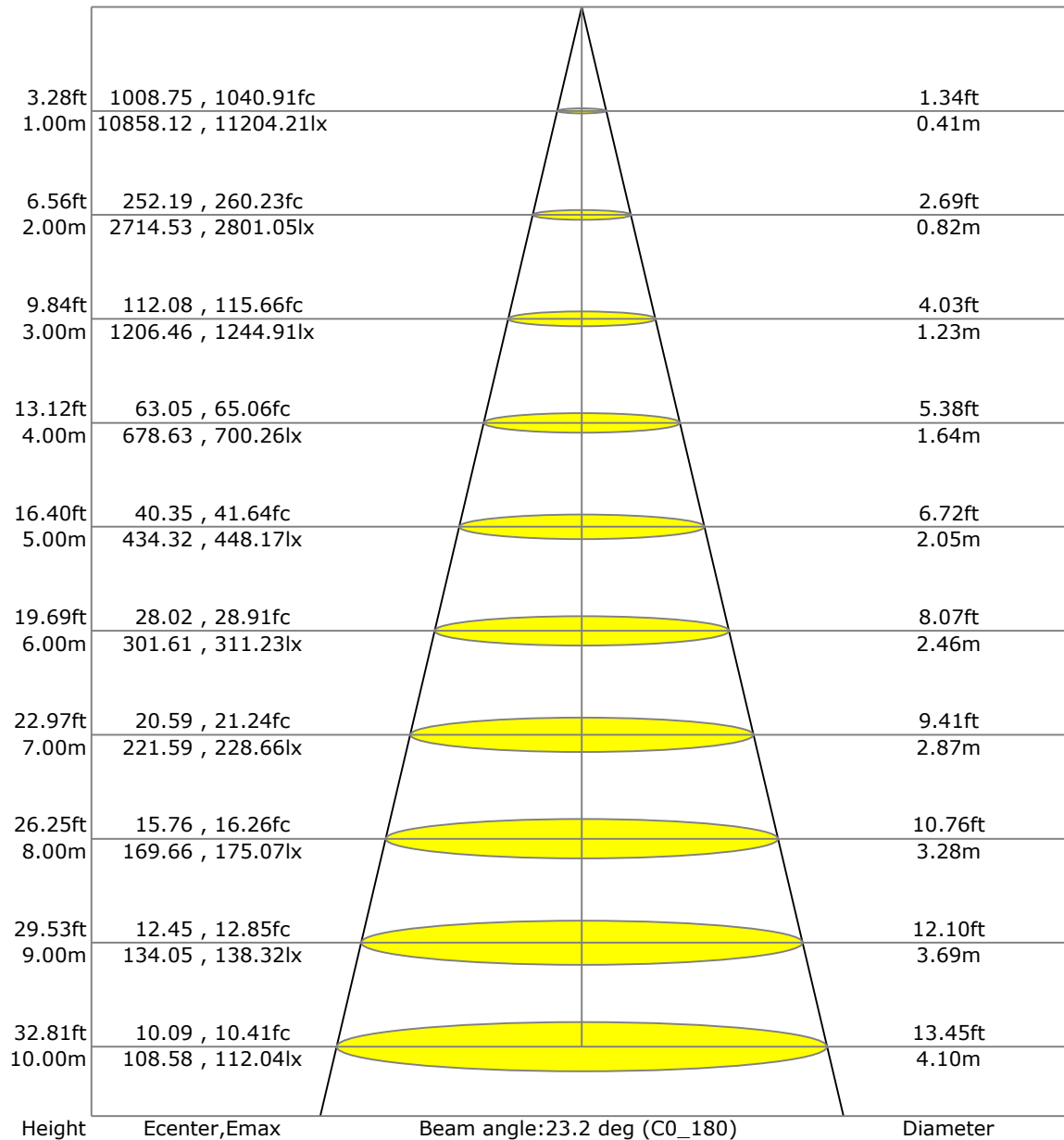
C/G	45	50	55	60	65	70	75	80	85
C0	4460	4044	3886	3502	2748	1314	0	0	0
C90	3796	3421	2942	2292	957	0	0	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

UGR(Unified Glare Rating) TABLE

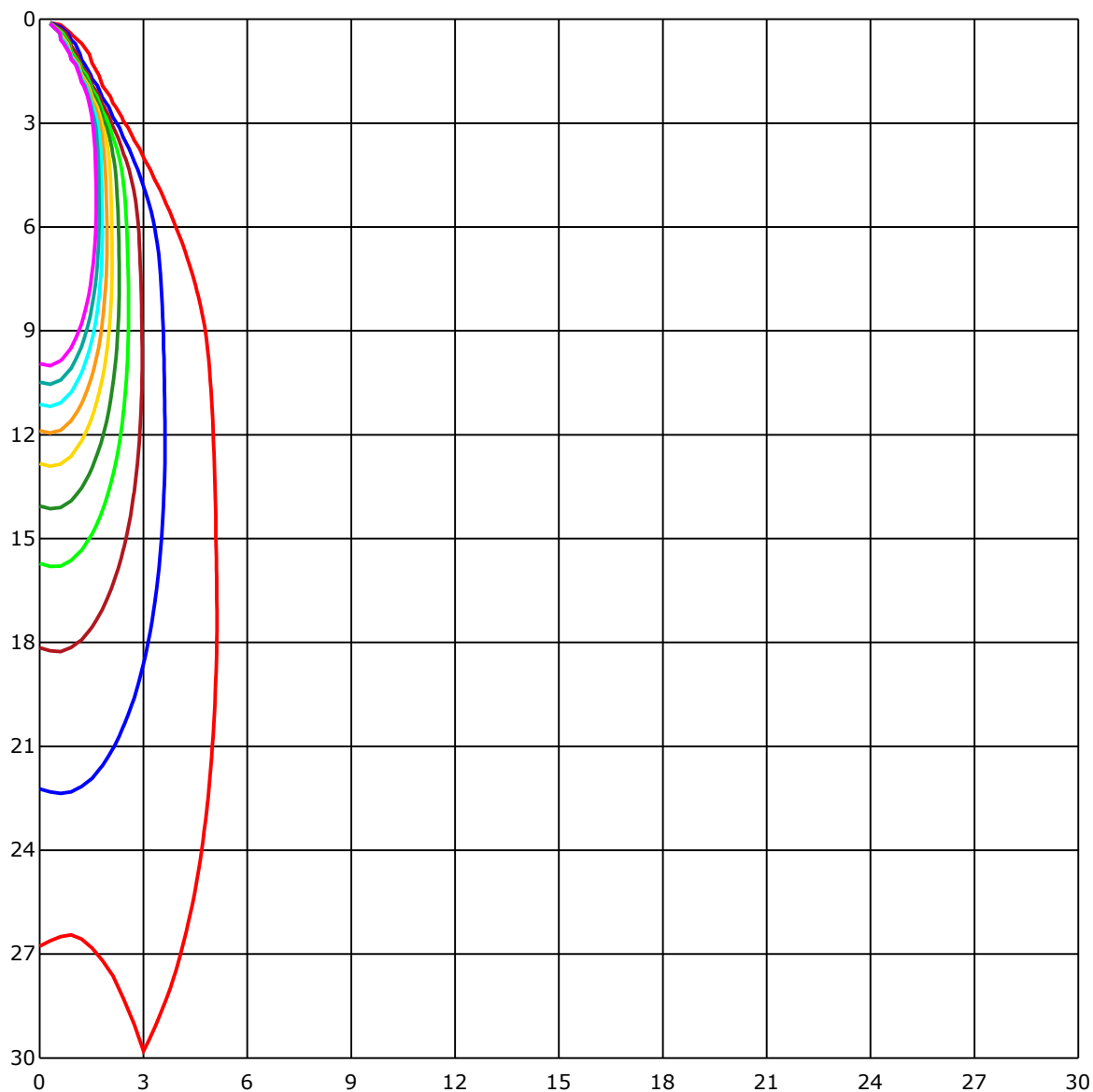
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	4.51	4.57	4.71	4.76	5.00	4.48	4.54	4.68	4.73	4.97
3H	4.53	4.58	4.73	4.78	5.02	4.49	4.55	4.70	4.74	4.99
4H	4.51	4.57	4.72	4.77	5.02	4.48	4.54	4.69	4.73	4.98
6H	4.50	4.55	4.71	4.76	5.01	4.46	4.52	4.68	4.72	4.97
8H	4.49	4.55	4.71	4.75	5.00	4.45	4.51	4.67	4.72	4.97
12H	4.48	4.54	4.70	4.74	5.00	4.44	4.50	4.67	4.71	4.96
4H 2H	4.87	4.93	5.08	5.13	5.37	4.97	5.03	5.18	5.22	5.47
3H	4.88	4.94	5.10	5.14	5.40	4.97	5.03	5.19	5.24	5.49
4H	4.86	4.92	5.09	5.13	5.39	4.95	5.01	5.18	5.22	5.48
6H	4.84	4.90	5.08	5.12	5.38	4.93	4.99	5.17	5.21	5.47
8H	4.82	4.88	5.07	5.11	5.38	4.92	4.97	5.16	5.20	5.47
12H	4.81	4.87	5.06	5.10	5.37	4.90	4.96	5.15	5.19	5.46
8H 4H	4.85	4.91	5.06	5.11	5.36	4.94	5.00	5.16	5.21	5.46
6H	4.80	4.85	5.05	5.09	5.36	4.89	4.94	5.14	5.18	5.46
8H	4.78	4.83	5.04	5.08	5.36	4.87	4.93	5.14	5.17	5.45
12H	4.76	4.82	5.03	5.07	5.35	4.86	4.91	5.13	5.16	5.44
12H 4H	4.81	4.87	5.06	5.10	5.37	4.90	4.96	5.15	5.19	5.46
6H	4.78	4.83	5.04	5.08	5.36	4.87	4.93	5.14	5.17	5.45

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

109.868
98.881
87.894
76.908
65.921

54.934
43.947
32.96
21.974
10.987

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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
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	10858.12	10951.66	10959.36	10493.66	10858.12	10951.66	10959.36	10493.66	10858.12	
G1	10969.69	10854.44	10764.34	10037.7	10608.35	10953.27	11036.19	10842.54	10969.69	
G2	11020.57	10579.42	10437.5	9498.05	10246.92	10819.94	10979.23	11090.38	11020.57	
G3	10865.58	10223.13	10008.29	8899.07	9784.11	10582.54	10837.92	11204.21	10865.58	
G4	10629.54	9783.82	9498.9	8277.96	9282.26	10210.11	10491.87	11195.62	10629.54	
G5	10245.93	9234.69	8965.62	7614.8	8699.76	9730.49	10072.34	11047.19	10245.93	
G6	9782.5	8636.99	8323.17	6952.43	8087.05	9186.64	9550.62	10758.06	9782.5	
G7	9229.5	8005.07	7664.26	6309.57	7443.99	8597.48	8988.32	10388.08	9229.5	
G8	8651.52	7352.29	7015.68	5701.95	6820.71	7947.53	8384.67	9894.55	8651.52	
G9	8011.2	6727.64	6382.39	5131.62	6216.96	7310.14	7760.35	9338.8	8011.2	
G10	7370.65	6108.22	5769.63	4614.68	5635.36	6660.1	7093.08	8756.16	7370.65	
G11	6708.28	5537.47	5199.02	4141.72	5092.78	6059.61	6455.45	8095.31	6708.28	
G12	6077.69	4990.55	4679.15	3722.0	4602.17	5447.8	5837.03	7442.53	6077.69	
G13	5468.66	4476.11	4203.21	3345.98	4132.61	4907.02	5272.89	6819.95	5468.66	
G14	4903.24	4001.73	3772.02	3006.63	3721.48	4394.55	4735.08	6176.89	4903.24	
G15	4390.77	3598.67	3390.44	2721.94	3346.12	3944.62	4257.4	5581.22	4390.77	
G16	3943.4	3232.52	3061.47	2470.29	3026.69	3540.76	3824.98	5033.41	3943.4	
G17	3515.74	2919.18	2774.52	2249.45	2745.35	3179.99	3429.94	4513.2	3515.74	
G18	3149.5	2635.71	2514.27	2059.06	2497.0	2855.93	3081.06	4044.82	3149.5	
G19	2831.34	2399.92	2293.3	1892.45	2276.59	2581.67	2785.23	3623.35	2831.34	
G20	2571.81	2189.32	2098.37	1741.85	2086.29	2345.12	2526.17	3254.93	2571.81	
G21	2332.94	2011.82	1933.52	1602.29	1919.83	2145.48	2307.79	2937.39	2332.94	
G22	2133.96	1854.65	1781.31	1468.77	1762.8	1968.16	2108.9	2663.7	2133.96	
G23	1950.22	1714.9	1646.7	1333.6	1612.95	1812.88	1943.19	2418.46	1950.22	
G24	1795.98	1576.52	1508.04	1202.06	1470.8	1672.47	1791.12	2213.16	1795.98	
G25	1651.94	1442.67	1379.19	1069.1	1327.98	1545.13	1652.6	2028.24	1651.94	
G26	1530.74	1310.94	1246.19	934.17	1191.58	1419.97	1522.15	1870.89	1530.74	
G27	1406.37	1184.17	1117.95	808.11	1057.45	1299.57	1400.8	1725.66	1406.37	
G28	1289.47	1059.95	982.59	692.14	925.34	1176.62	1272.48	1590.54	1289.47	
G29	1172.94	928.88	854.97	579.29	803.76	1047.91	1145.8	1458.48	1172.94	
G30	1052.16	805.32	731.65	481.22	686.9	923.31	1010.72	1333.6	1052.16	
G31	933.46	687.23	615.4	392.49	578.4	805.51	884.8	1203.1	933.46	
G32	817.92	577.03	511.61	322.17	481.27	682.14	761.1	1073.87	817.92	
G33	703.23	481.97	418.92	265.2	389.0	576.79	646.98	947.53	703.23	
G34	597.56	393.29	344.82	219.61	311.69	480.98	539.13	824.11	597.56	
G35	499.48	323.87	284.74	183.27	249.44	394.09	441.76	704.22	499.48	
G36	406.93	263.78	235.09	155.51	202.85	325.14	362.28	596.99	406.93	

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

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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	332.31	216.59	196.95	131.77	160.71	269.68	297.67	500.85	332.31	
G38	271.15	180.67	166.75	116.06	135.36	225.03	243.02	413.02	271.15	
G39	218.05	151.55	144.0	101.57	114.31	189.12	202.47	342.08	218.05	
G40	180.39	129.89	125.45	91.94	101.19	162.88	167.27	284.36	180.39	
G41	149.43	113.27	111.05	84.06	92.08	141.02	141.83	235.42	149.43	
G42	127.1	101.14	100.25	79.72	85.66	124.6	121.58	197.47	127.1	
G43	110.87	92.03	92.93	74.34	80.61	110.91	105.15	167.08	110.87	
G44	98.41	84.29	85.95	71.08	76.41	101.52	93.07	144.61	98.41	
G45	89.67	79.48	81.93	67.63	72.59	94.02	85.66	126.77	89.67	
G46	83.35	74.62	77.21	65.79	69.85	88.49	78.39	113.79	83.35	
G47	77.21	72.68	76.08	62.54	66.55	83.92	75.04	103.17	77.21	
G48	73.49	68.81	71.41	60.46	64.28	79.9	70.51	96.94	73.49	
G49	69.99	66.83	69.19	57.77	60.27	77.17	68.01	89.96	69.99	
G50	67.82	65.51	66.64	55.41	58.76	73.01	65.23	86.13	67.82	
G51	64.8	63.34	65.27	52.01	54.42	70.23	62.72	81.98	64.8	
G52	63.86	61.17	61.97	50.55	52.15	66.88	60.55	79.15	63.86	
G53	59.94	59.42	59.33	47.34	48.09	64.61	59.14	75.99	59.94	
G54	58.19	58.15	57.49	45.26	46.11	62.02	56.21	74.34	58.19	
G55	56.12	56.16	56.16	42.52	41.67	59.66	54.23	71.5	56.12	
G56	53.8	53.1	53.1	39.79	38.61	55.98	53.1	69.76	53.8	
G57	50.83	52.01	50.69	36.67	34.26	53.0	50.03	66.22	50.83	
G58	51.07	49.32	47.53	34.17	30.21	49.65	48.71	64.99	51.07	
G59	45.97	47.62	45.88	30.21	26.67	46.49	46.11	63.15	45.97	
G60	43.28	44.13	42.48	28.88	23.36	44.46	43.56	60.36	43.28	
G61	40.12	42.05	42.15	24.5	17.84	40.12	42.01	57.44	40.12	
G62	37.95	39.36	37.52	21.85	15.43	37.62	39.5	55.69	37.95	
G63	33.89	36.67	34.74	18.36	10.15	33.42	36.29	52.77	33.89	
G64	30.63	32.52	31.81	14.35	7.55	30.16	33.6	51.02	30.63	
G65	26.05	29.26	29.88	10.19	4.81	26.67	31.15	49.27	26.05	
G66	22.84	25.82	25.96	7.32	2.83	23.41	28.27	44.98	22.84	
G67	17.89	23.17	24.83	4.2	0.52	19.3	25.34	42.24	17.89	
G68	13.17	18.69	22.56	1.46	0.0	15.15	23.08	39.22	13.17	
G69	8.97	15.72	18.5	0.0	0.0	10.81	20.67	34.93	8.97	
G70	6.61	11.33	16.28	0.0	0.0	7.27	18.27	31.95	6.61	
G71	4.48	8.4	15.24	0.0	0.0	4.15	15.91	28.27	4.48	
G72	1.94	4.39	11.85	0.0	0.0	1.65	13.64	24.54	1.94	
G73	0.0	2.17	9.44	0.0	0.0	0.66	11.28	20.67	0.0	

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: 6.87 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: