

Report No.:

Test Time: 2024/5/23 15:41:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H74-24°-10W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

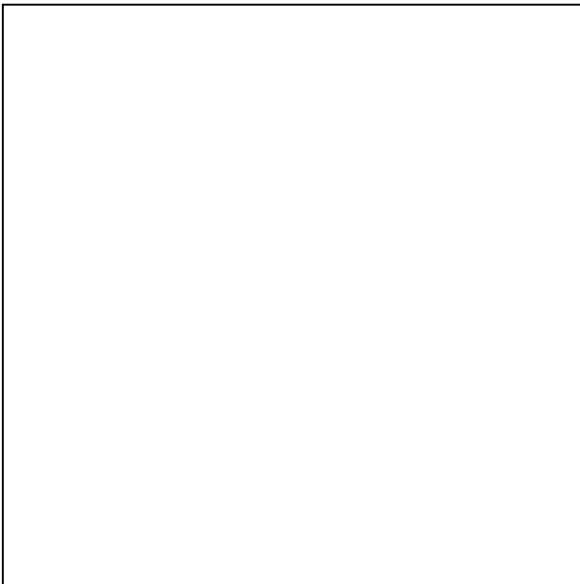
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.66 W
Power Factor: 0.9180
Lamp Luminous Flux: 1172.28

Photometric Results

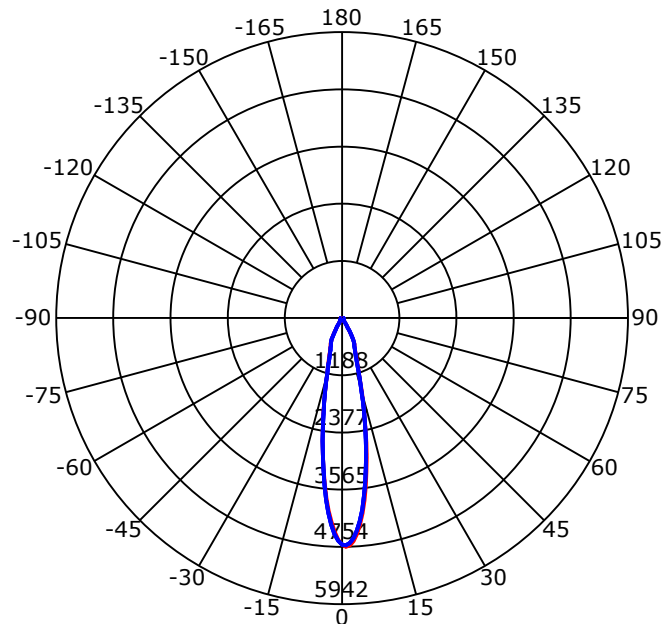
CIE Class: Direct
Luminaire Luminous Flux: 1172.28 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.93 lm/W
Beam Angle(50%) C0-180,C90-270: 21.6,21.5
Field Angle(10%) C0-180,C90-270: 54.3,54.0
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4753.54 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4709.99 cd
Effective Luminous Flux: 938.79 lm
ERP(ϕ use)(120deg): 1145.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.6 deg,21.5 deg

C0-180 — C90-270 —

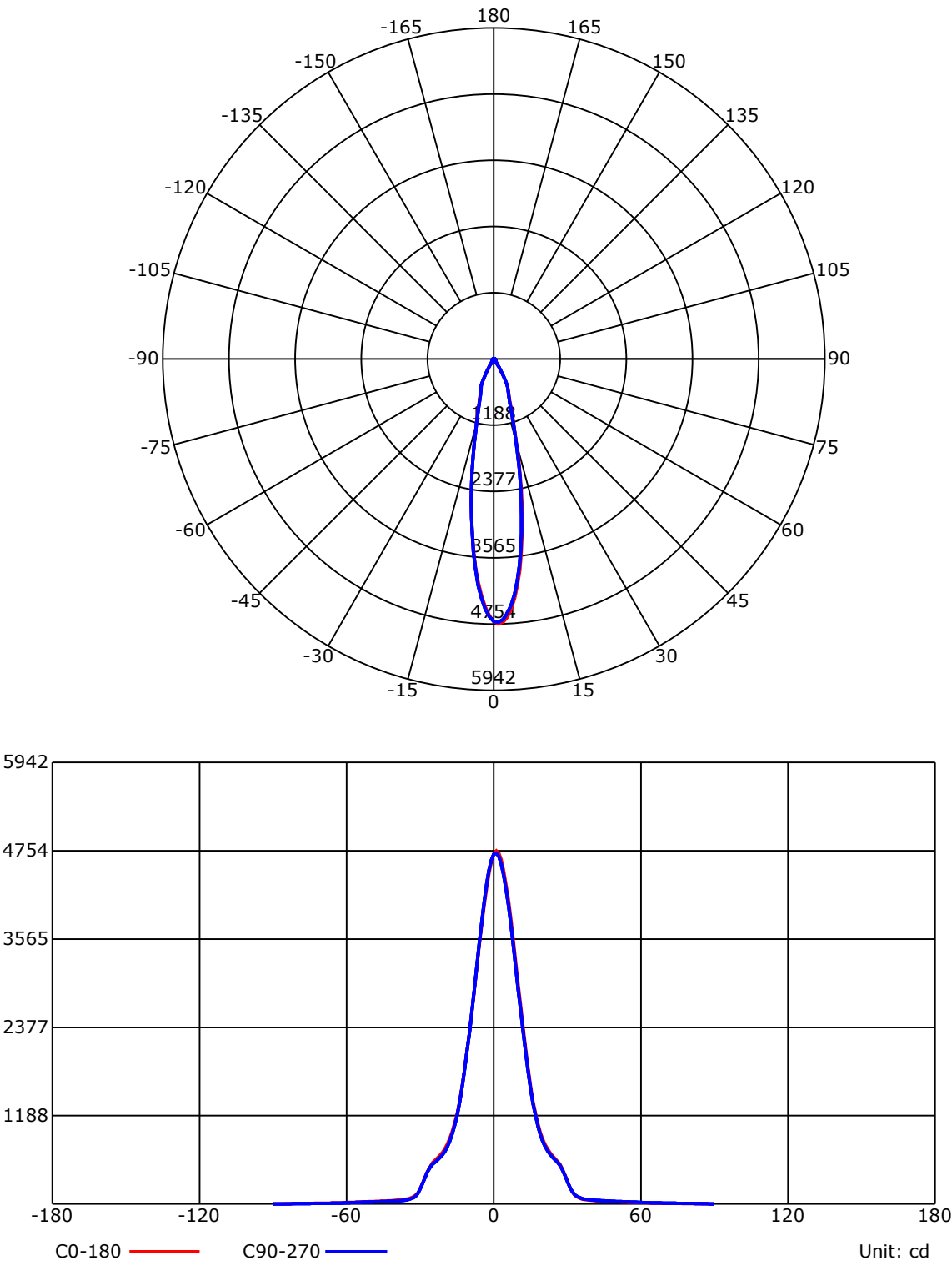
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:41:11

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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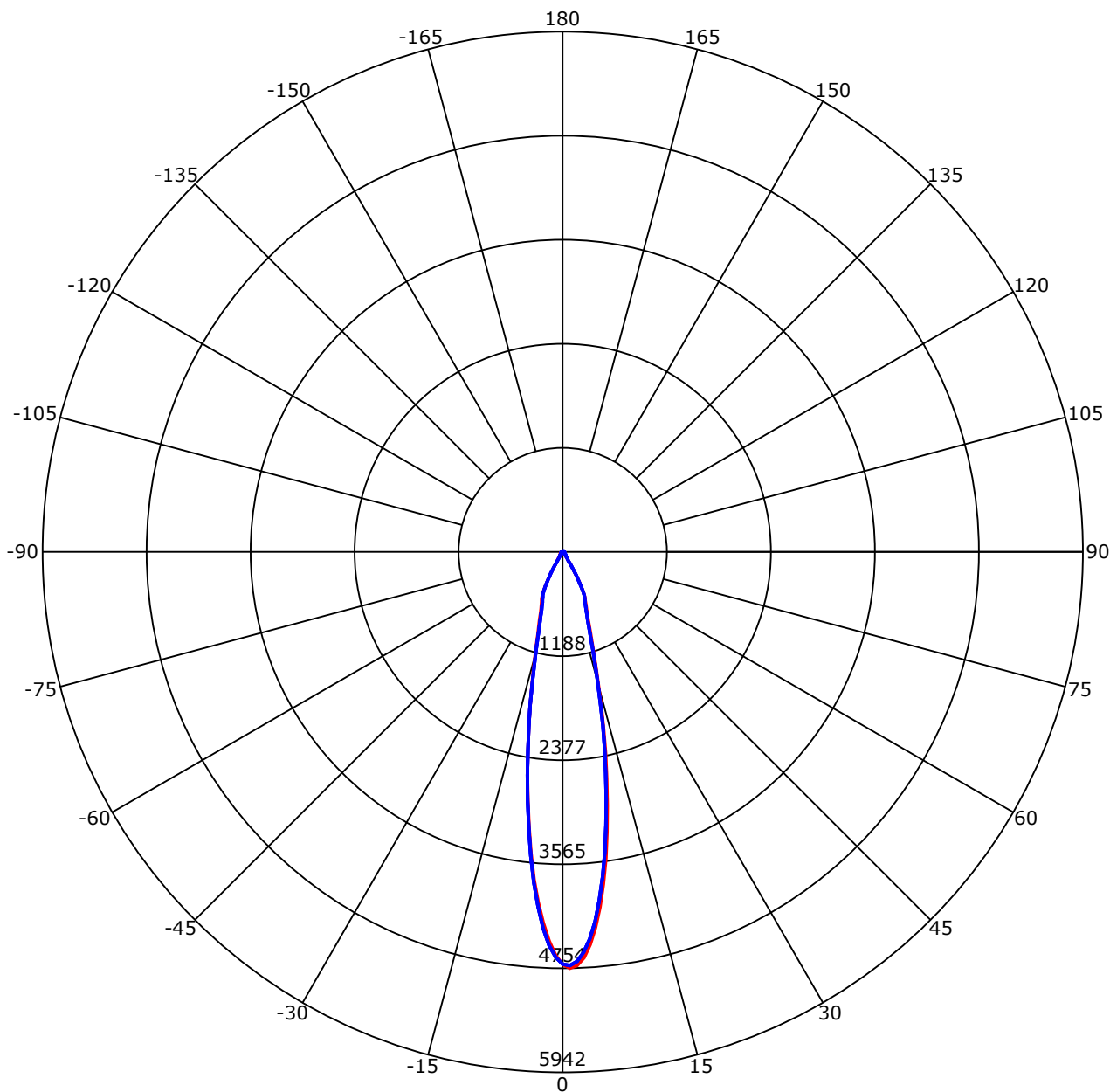
Luminous Intensity Distribution Curve



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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: 2024/5/23 15:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

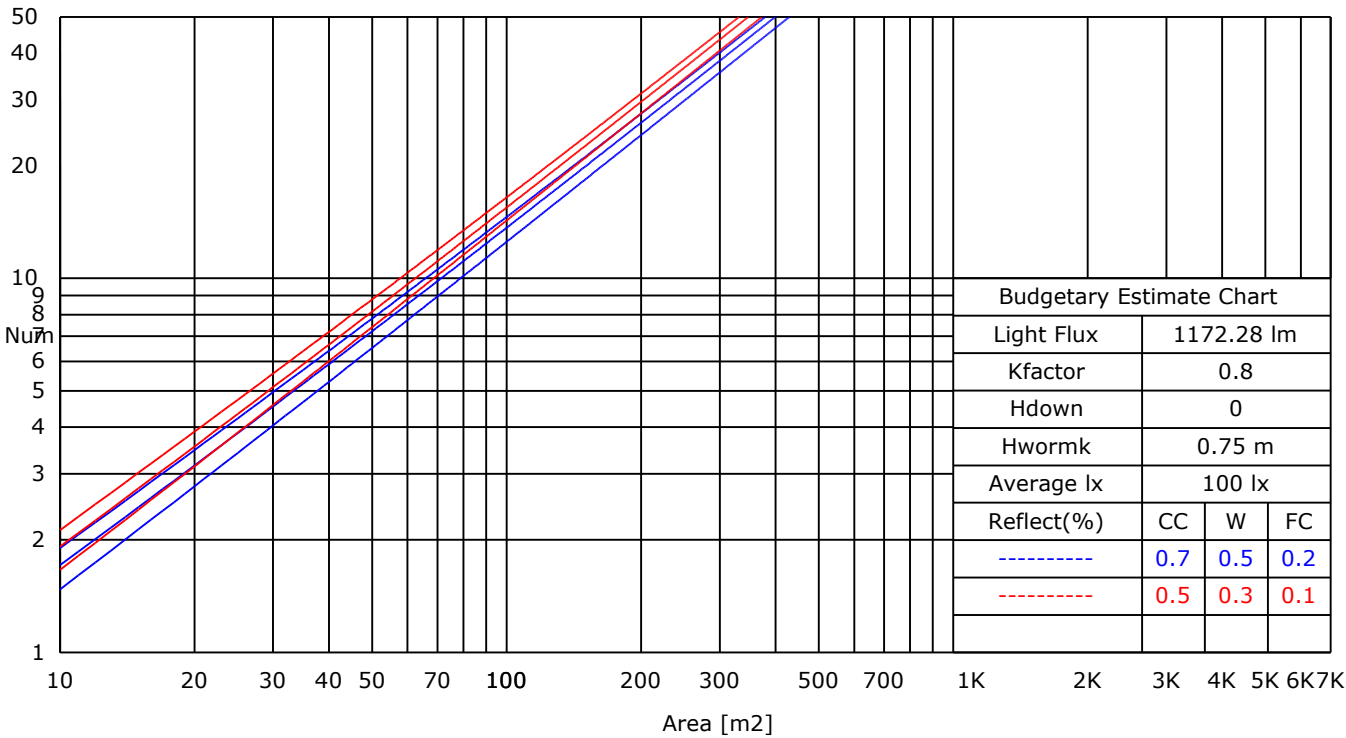
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.87	0.91	0.88	0.85	0.89	0.85	0.82	0.85	0.81	0.78	0.79	0.76	0.72	0.67
2	0.86	0.83	0.81	0.85	0.82	0.79	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.63
3	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.73	0.69	0.65	0.60
4	0.78	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.76	0.74	0.72	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.69	0.64	0.60	0.57
6	0.73	0.72	0.70	0.73	0.70	0.69	0.72	0.68	0.66	0.70	0.66	0.62	0.68	0.63	0.59	0.55
7	0.71	0.70	0.68	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.54
8	0.70	0.68	0.67	0.69	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
9	0.68	0.66	0.65	0.67	0.65	0.64	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.51
10	0.66	0.65	0.64	0.66	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.61	0.57	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



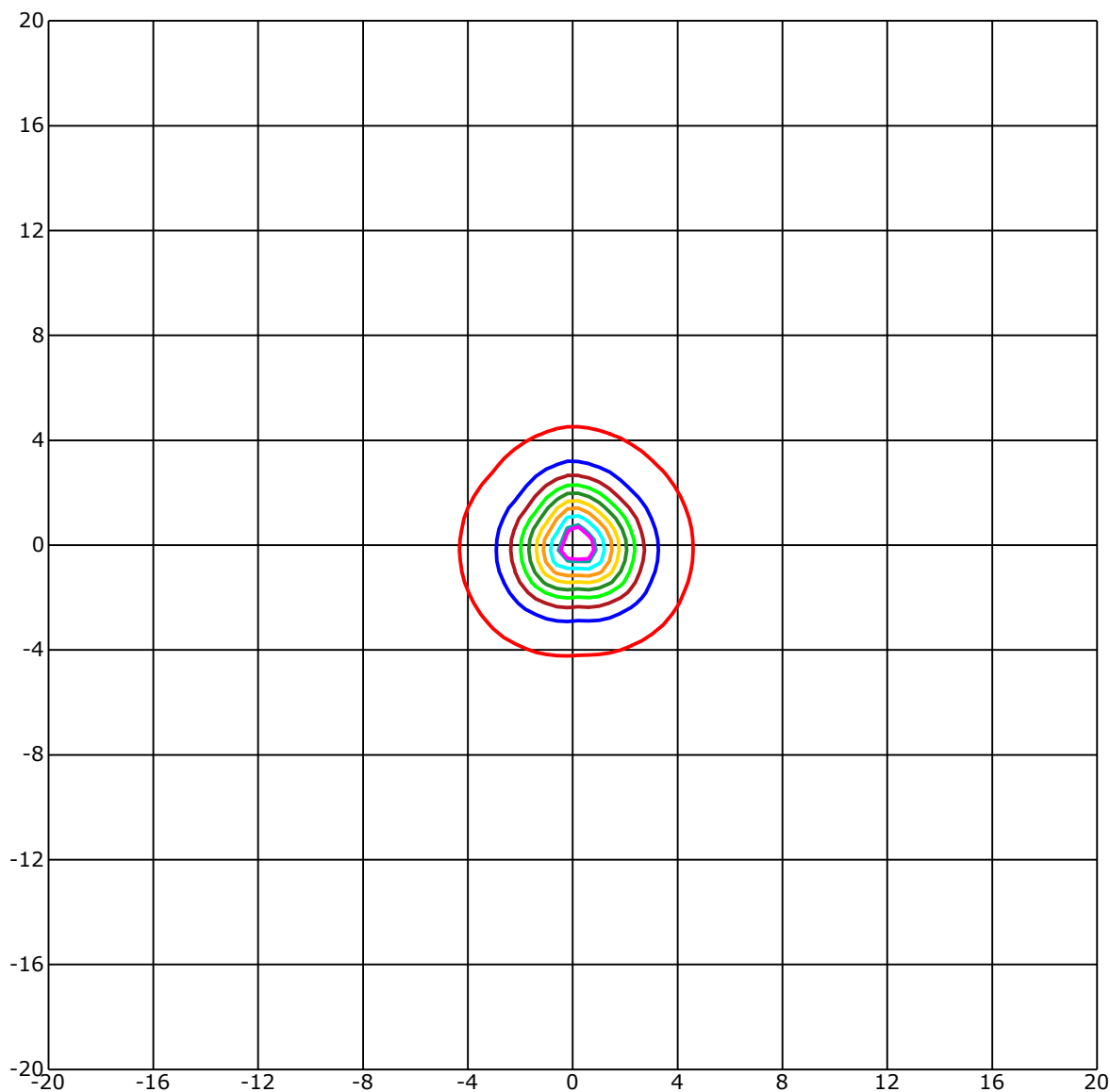
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

43.717(92%Emax)	23.759(50%Emax)
42.766(90%Emax)	19.007(40%Emax)
38.015(80%Emax)	14.255(30%Emax)
33.263(70%Emax)	9.504(20%Emax)
28.511(60%Emax)	4.752(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 15:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

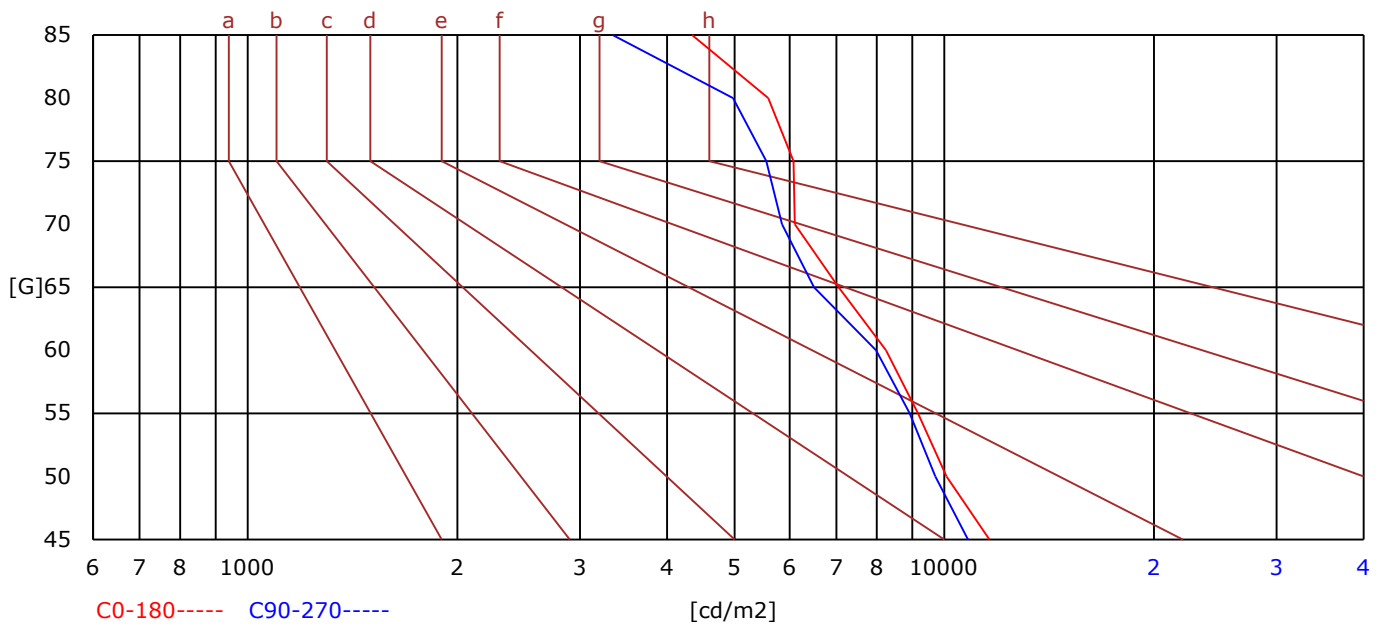
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11615	10074	9174	8252	7052	6103	6076	5591	4344
C90	10819	9711	8920	7980	6501	5847	5551	4976	3342
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



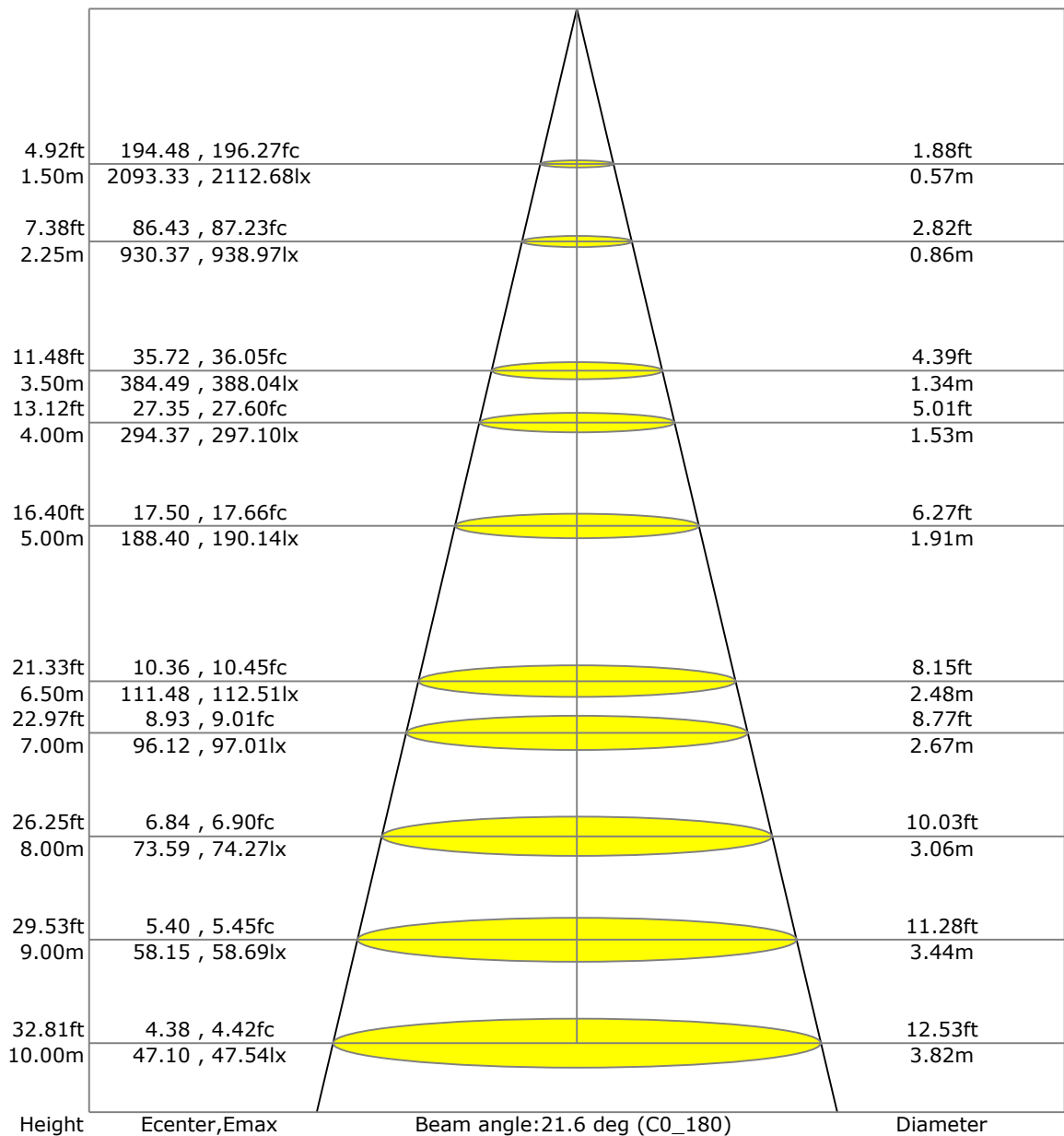
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Operators: QC01
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 15:41:11

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	12.09	12.15	12.29	12.33	12.58	12.22	12.28	12.42	12.47	12.71
3H	12.11	12.17	12.32	12.37	12.61	12.23	12.29	12.44	12.49	12.73
4H	12.11	12.17	12.32	12.37	12.62	12.23	12.29	12.44	12.48	12.73
6H	12.10	12.16	12.31	12.36	12.61	12.21	12.27	12.43	12.48	12.73
8H	12.09	12.15	12.31	12.36	12.61	12.20	12.27	12.42	12.47	12.72
12H	12.08	12.14	12.30	12.35	12.60	12.19	12.26	12.42	12.46	12.72
4H 2H	12.64	12.70	12.85	12.90	13.15	12.98	13.04	13.19	13.24	13.49
3H	12.76	12.82	12.98	13.02	13.28	13.09	13.15	13.31	13.36	13.61
4H	12.78	12.85	13.01	13.06	13.32	13.11	13.17	13.34	13.38	13.64
6H	12.79	12.85	13.03	13.07	13.33	13.10	13.16	13.34	13.38	13.65
8H	12.78	12.84	13.02	13.07	13.34	13.09	13.15	13.33	13.38	13.65
12H	12.77	12.83	13.02	13.06	13.33	13.08	13.14	13.33	13.37	13.64
8H 4H	12.84	12.90	13.06	13.10	13.36	13.34	13.40	13.56	13.60	13.86
6H	13.12	13.18	13.38	13.42	13.69	13.63	13.69	13.88	13.93	14.20
8H	13.12	13.18	13.39	13.43	13.70	13.62	13.68	13.89	13.93	14.20
12H	13.12	13.17	13.39	13.43	13.71	13.61	13.66	13.88	13.92	14.20
12H 4H	13.15	13.21	13.40	13.45	13.72	13.77	13.83	14.02	14.06	14.34
6H	13.20	13.26	13.46	13.50	13.78	13.82	13.88	14.09	14.13	14.41

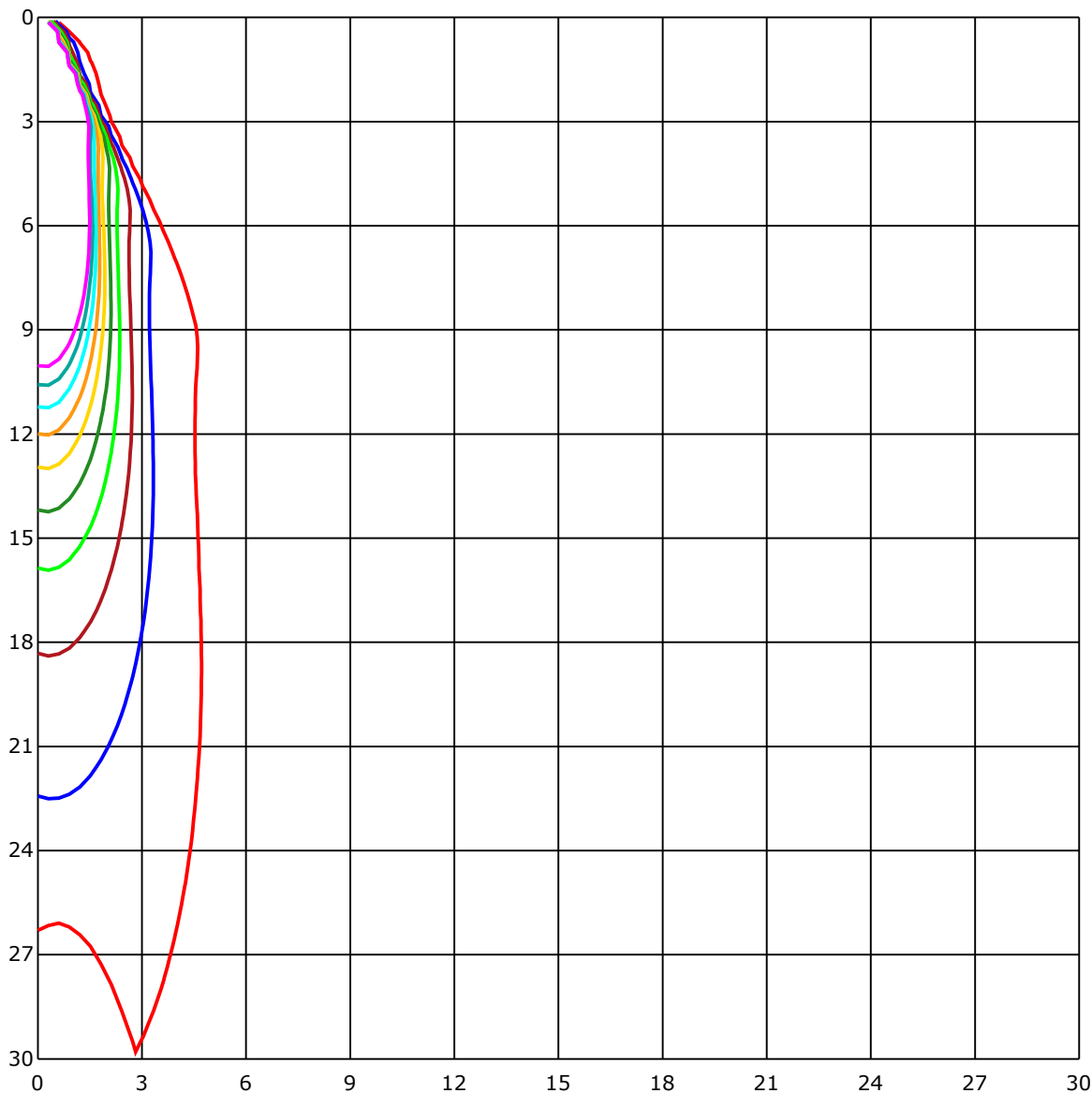
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

46.811
42.13
37.449
32.768
28.087

23.406
18.725
14.043
9.362
4.681

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 15:41:11

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	4709.99	4751.83	4706.72	4634.58	4709.99	4751.83	4706.72	4634.58	4709.99	
G1	4753.54	4723.33	4722.56	4512.43	4604.64	4706.85	4627.08	4710.94	4753.54	
G2	4725.62	4636.96	4677.49	4331.53	4441.64	4605.53	4491.11	4708.51	4725.62	
G3	4639.52	4497.53	4576.0	4114.89	4237.84	4453.81	4298.53	4650.69	4639.52	
G4	4492.28	4313.66	4427.9	3873.33	4010.11	4247.72	4058.68	4522.31	4492.28	
G5	4302.08	4087.41	4235.28	3586.94	3752.22	4007.06	3789.61	4347.33	4302.08	
G6	4076.19	3833.34	4000.69	3302.42	3453.52	3725.78	3487.28	4126.24	4076.19	
G7	3820.0	3547.75	3738.04	2997.4	3156.26	3434.94	3177.49	3886.62	3820.0	
G8	3535.67	3241.6	3458.68	2707.14	2864.43	3134.0	2876.55	3614.36	3535.67	
G9	3236.17	2951.38	3160.84	2416.56	2572.2	2835.12	2582.48	3320.02	3236.17	
G10	2941.96	2648.82	2867.66	2146.95	2298.01	2549.89	2297.38	3030.3	2941.96	
G11	2640.79	2358.7	2572.78	1886.1	2036.61	2268.97	2033.56	2737.71	2640.79	
G12	2353.04	2083.61	2293.21	1655.36	1792.19	2002.81	1781.77	2456.92	2353.04	
G13	2082.81	1819.53	2031.54	1440.66	1569.8	1762.16	1556.16	2178.74	2082.81	
G14	1827.65	1580.35	1778.86	1252.84	1378.71	1537.62	1358.82	1922.06	1827.65	
G15	1590.77	1377.94	1551.71	1104.2	1215.26	1354.78	1190.03	1681.22	1590.77	
G16	1385.17	1203.95	1350.29	985.07	1083.87	1193.81	1048.14	1473.51	1385.17	
G17	1217.55	1059.85	1185.28	884.96	971.42	1060.08	936.05	1290.95	1217.55	
G18	1078.21	945.25	1041.27	803.08	880.2	948.3	841.78	1137.24	1078.21	
G19	961.63	854.57	928.68	737.09	806.18	859.15	766.59	1009.26	961.63	
G20	870.1	779.96	839.17	681.52	745.76	783.82	706.3	907.36	870.1	
G21	798.73	724.3	768.2	638.34	693.95	725.83	661.05	823.91	798.73	
G22	738.8	677.21	710.38	603.64	654.23	676.09	621.1	755.0	738.8	
G23	687.85	638.61	665.76	574.95	617.6	635.91	589.9	696.56	687.85	
G24	647.49	606.69	627.16	549.86	589.18	601.97	562.34	652.75	647.49	
G25	610.32	579.13	594.52	525.89	556.68	575.94	536.66	618.4	610.32	
G26	575.85	552.24	561.39	503.4	505.64	553.54	493.83	591.92	575.85	
G27	533.11	529.52	514.93	475.3	437.63	534.37	430.27	567.72	533.11	
G28	468.29	503.53	453.21	439.61	362.76	515.16	354.95	548.78	468.29	
G29	392.25	467.22	380.58	397.59	284.06	489.97	277.33	530.15	392.25	
G30	312.21	424.17	301.57	354.68	209.1	456.17	205.01	504.97	312.21	
G31	232.4	379.59	227.19	309.92	149.71	416.89	139.97	472.65	232.4	
G32	163.13	332.01	163.58	266.42	115.32	371.73	98.26	435.07	163.13	
G33	116.62	285.14	123.0	223.64	94.67	326.4	81.21	390.81	116.62	
G34	93.69	239.71	101.0	183.65	79.81	281.15	68.05	345.65	93.69	
G35	77.12	194.42	85.47	145.67	70.16	235.58	58.09	299.01	77.12	
G36	65.31	153.16	73.89	113.53	64.46	192.17	52.34	252.46	65.31	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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	58.67	117.84	67.07	87.09	59.93	153.12	49.29	207.44	58.67	
G38	54.9	90.0	62.35	71.02	56.34	119.14	45.83	165.24	54.9	
G39	51.44	73.04	58.45	61.54	53.19	95.53	43.32	129.1	51.44	
G40	48.26	63.25	54.95	53.69	50.46	81.16	40.98	101.59	48.26	
G41	44.93	54.86	51.94	46.78	48.26	70.84	39.1	84.44	44.93	
G42	42.69	47.72	49.11	42.51	45.52	62.13	37.17	73.66	42.69	
G43	40.4	43.36	46.46	39.82	43.63	55.57	35.87	63.97	40.4	
G44	38.43	40.49	44.62	37.53	41.97	51.08	34.34	56.97	38.43	
G45	36.68	37.98	42.78	35.37	40.27	47.99	33.49	52.93	36.68	
G46	35.06	35.69	40.81	33.71	38.92	44.85	32.32	49.11	35.06	
G47	33.58	34.21	39.68	32.28	37.39	42.69	31.06	45.79	33.58	
G48	32.19	32.5	37.8	30.93	36.18	40.58	29.99	43.41	32.19	
G49	30.84	31.02	36.36	29.76	34.83	38.96	28.86	41.39	30.84	
G50	29.54	29.94	34.88	28.86	33.53	37.44	27.7	39.64	29.54	
G51	28.28	28.64	33.58	27.88	31.92	36.27	26.57	37.89	28.28	
G52	27.07	27.65	32.19	26.89	30.75	35.1	25.36	36.72	27.07	
G53	25.81	26.49	30.88	25.9	29.22	33.53	24.33	35.28	25.81	
G54	24.42	25.27	29.36	24.82	28.15	32.1	23.12	33.89	24.42	
G55	23.3	24.33	28.15	23.66	26.89	31.06	21.95	32.55	23.3	
G56	22.09	23.25	26.71	22.67	25.5	29.76	20.78	31.24	22.09	
G57	20.78	22.18	25.59	21.59	24.06	28.51	19.57	29.99	20.78	
G58	19.57	21.14	24.38	20.65	22.67	27.34	18.23	28.68	19.57	
G59	18.49	20.07	23.07	19.44	21.19	25.9	17.01	27.47	18.49	
G60	17.19	19.08	21.68	18.45	19.8	24.69	15.44	26.04	17.19	
G61	15.8	17.96	20.25	17.28	18.36	23.48	14.1	24.64	15.8	
G62	14.45	17.19	18.9	16.25	16.61	22.09	12.25	23.48	14.45	
G63	12.97	16.07	17.19	14.99	15.49	21.01	11.27	22.22	12.97	
G64	11.58	14.81	15.76	13.83	14.86	19.53	10.73	20.78	11.58	
G65	11.13	13.78	15.13	12.7	14.28	18.32	10.5	19.44	11.13	
G66	10.77	12.48	14.59	11.4	13.78	16.83	10.01	18.09	10.77	
G67	10.28	11.49	14.1	10.64	13.15	15.53	9.7	16.7	10.28	
G68	9.97	10.59	13.56	10.19	12.75	14.28	9.07	15.31	9.97	
G69	9.52	10.23	13.06	9.65	12.21	13.83	8.84	14.36	9.52	
G70	8.98	9.65	12.48	9.25	11.72	13.02	8.48	13.74	8.98	
G71	8.57	9.2	12.03	8.62	11.13	12.57	7.99	13.29	8.57	
G72	8.21	8.75	11.45	8.26	10.68	12.08	7.5	12.66	8.21	
G73	7.9	8.35	10.95	7.63	10.15	11.54	7.18	11.99	7.9	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

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