

Report No.:

Test Time: 2024/10/26 14:50:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

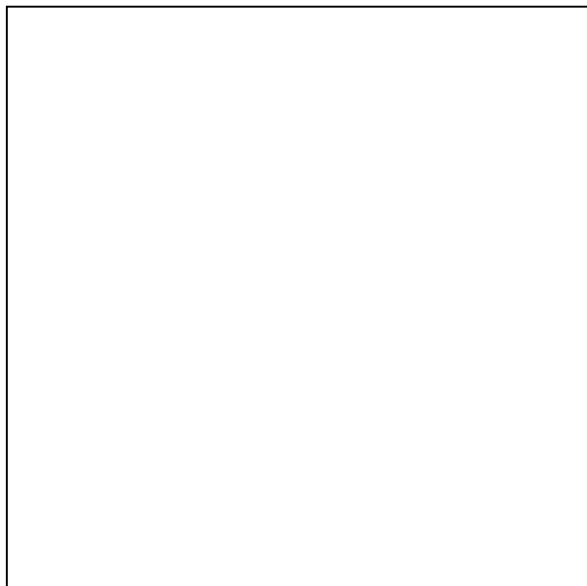
Voltage(V): 219.90 V
Current(A): 0.0940 A
Power(W): 20.29 W
Power Factor: 0.9720
Lamp Luminous Flux: 2132.16

Photometric Results

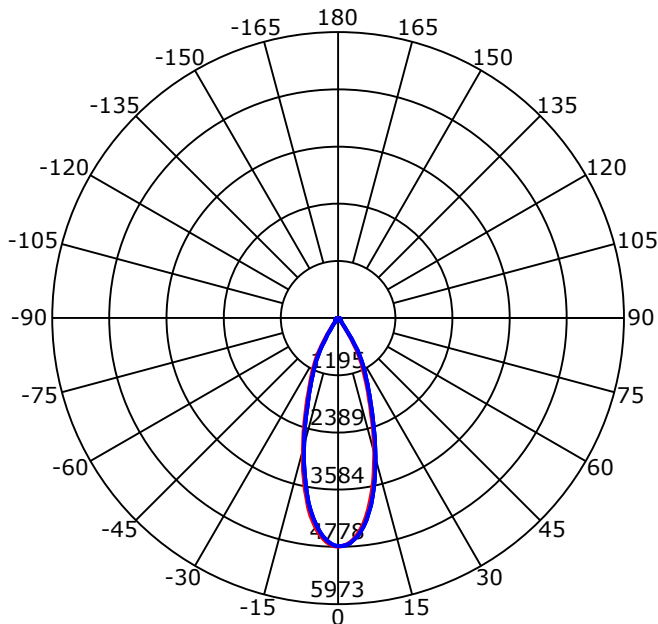
CIE Class: Direct
Luminaire Luminous Flux: 2132.162 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.08 lm/W
Beam Angle(50%) C0-180,C90-270: 35.0,35.1
Field Angle(10%) C0-180,C90-270: 65.0,64.8
S/MH C0-180,C90-270: 0.573,0.573

Max. Intensity: 4778.22 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4778.22 cd
Effective Luminous Flux: 1882.96 lm
ERP(ϕ use)(120deg): 2093.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 35.0 deg,35.1 deg

C0-180 — C90-270 —

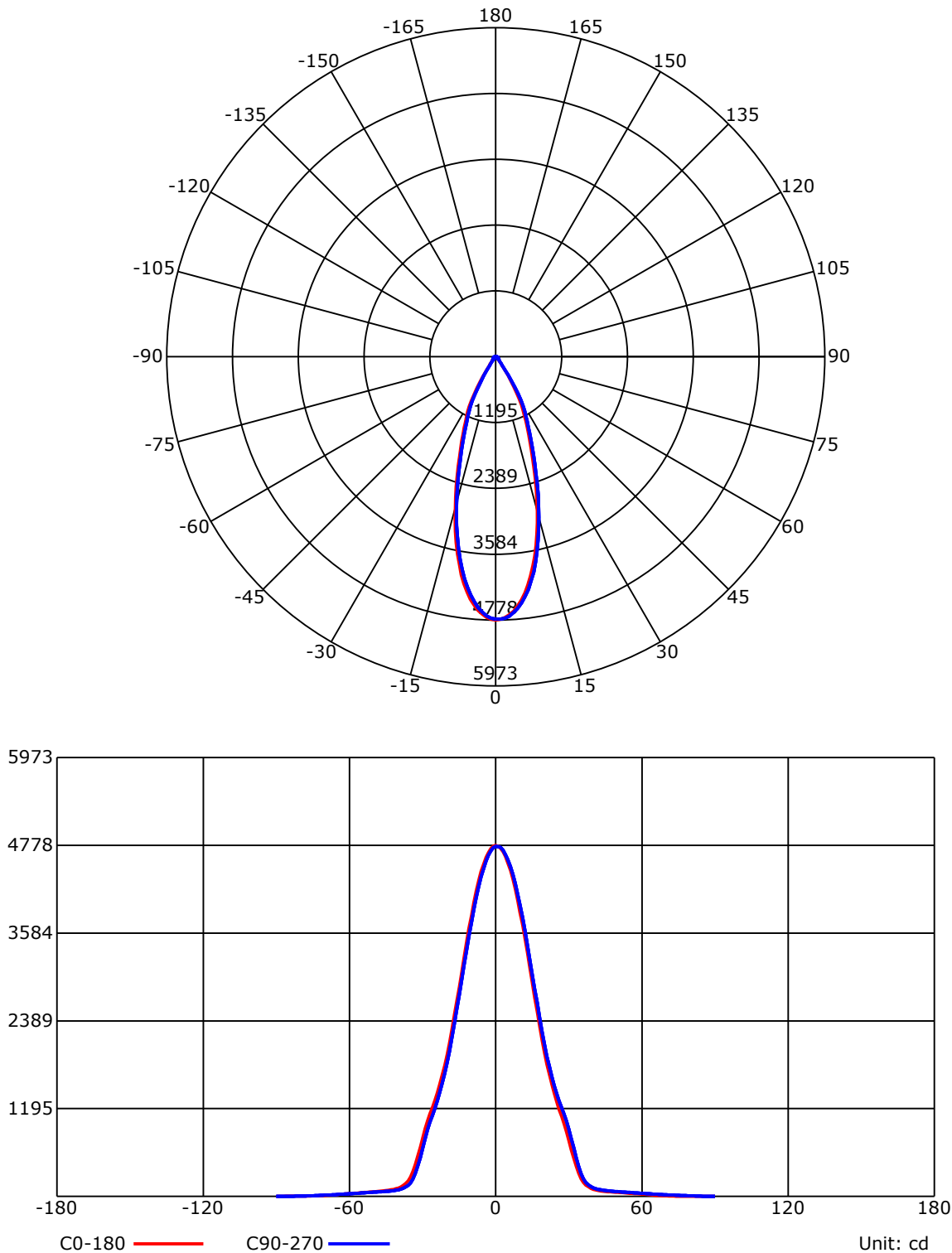
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:50:45

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



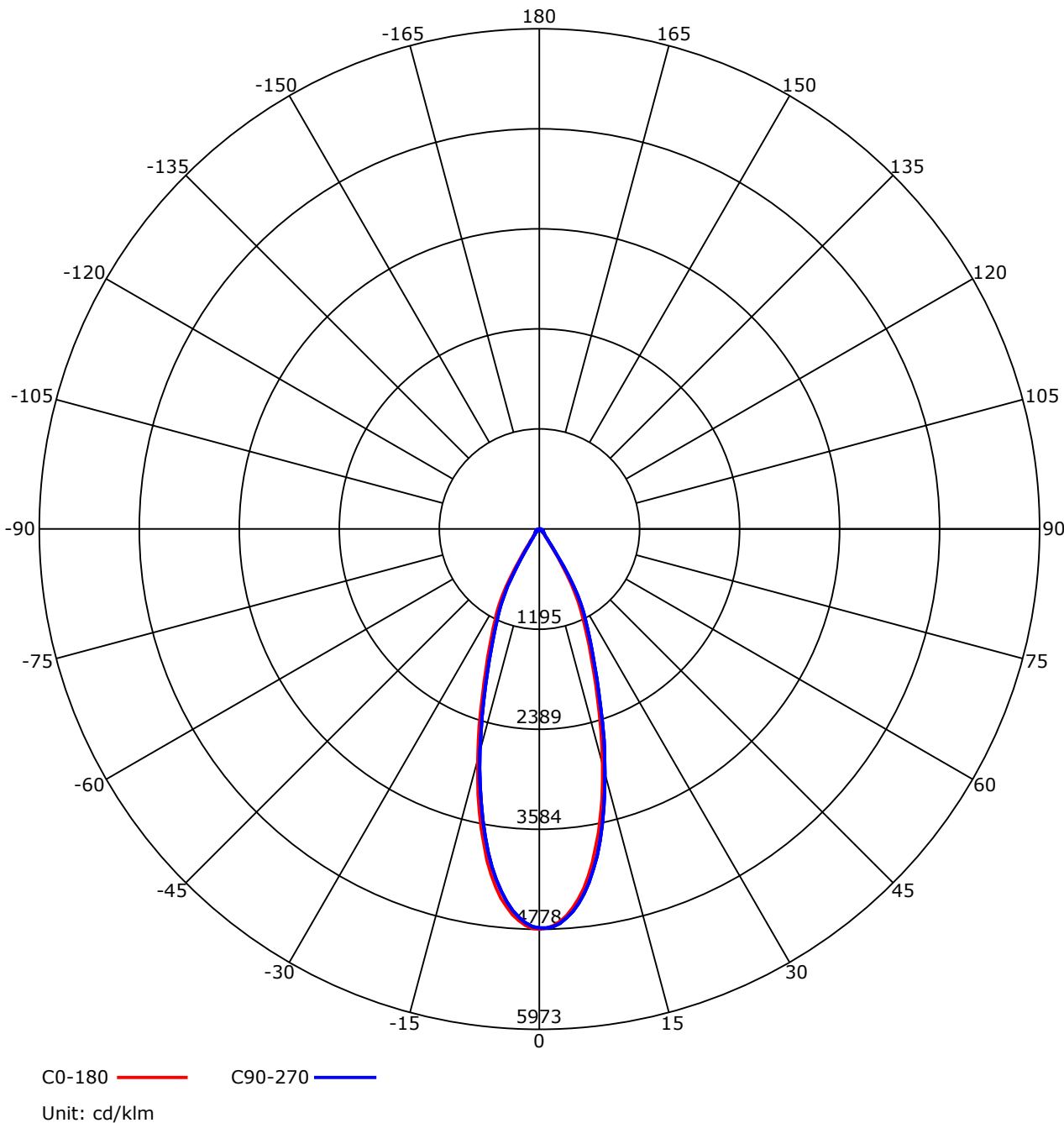
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Luminous Intensity Distribution Curve



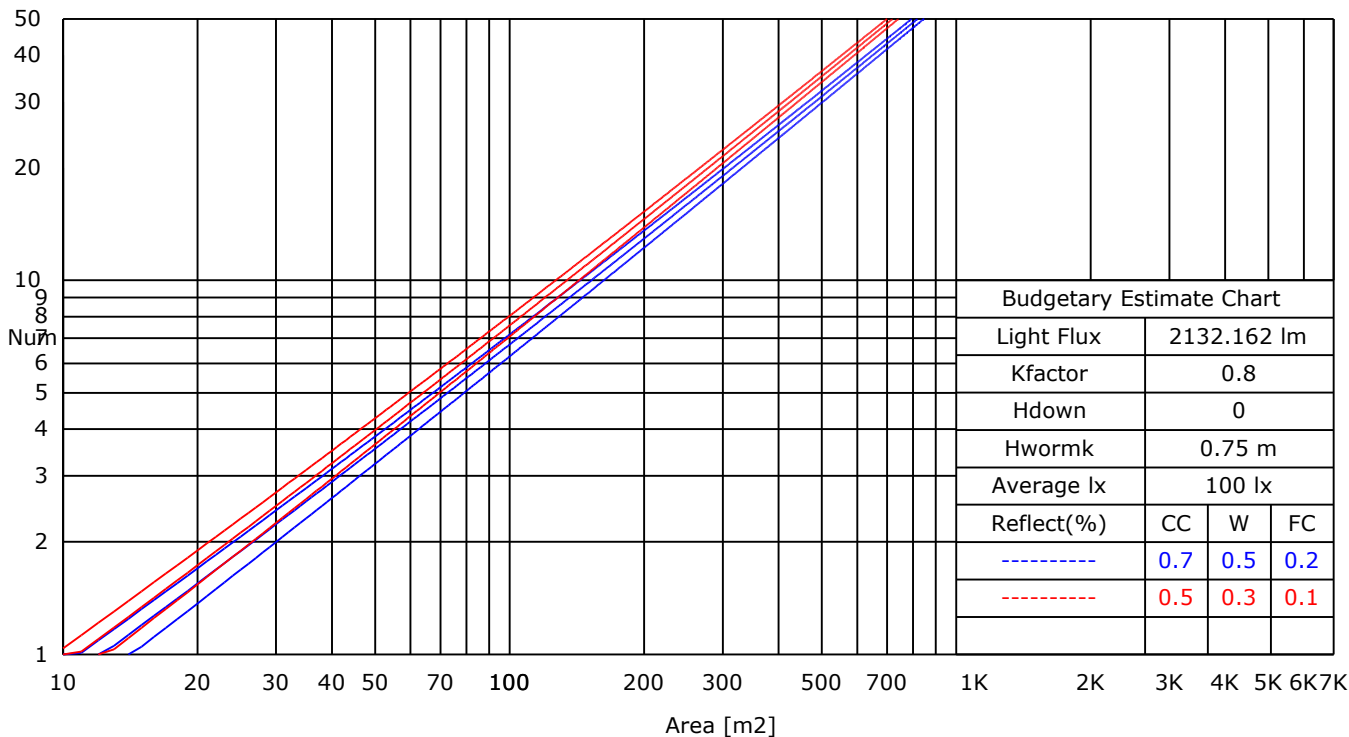
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UTILIZATION FACTORS TABLE

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	0.96	0.95	0.98	0.95	0.93	0.95	0.92	0.89	0.90	0.87	0.84	0.84	0.81	0.78	0.73
2	0.95	0.92	0.91	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.75	0.71
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.66
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.68	0.65
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
7	0.80	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.61
8	0.78	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.77	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.67	0.64	0.68	0.64	0.60	0.57

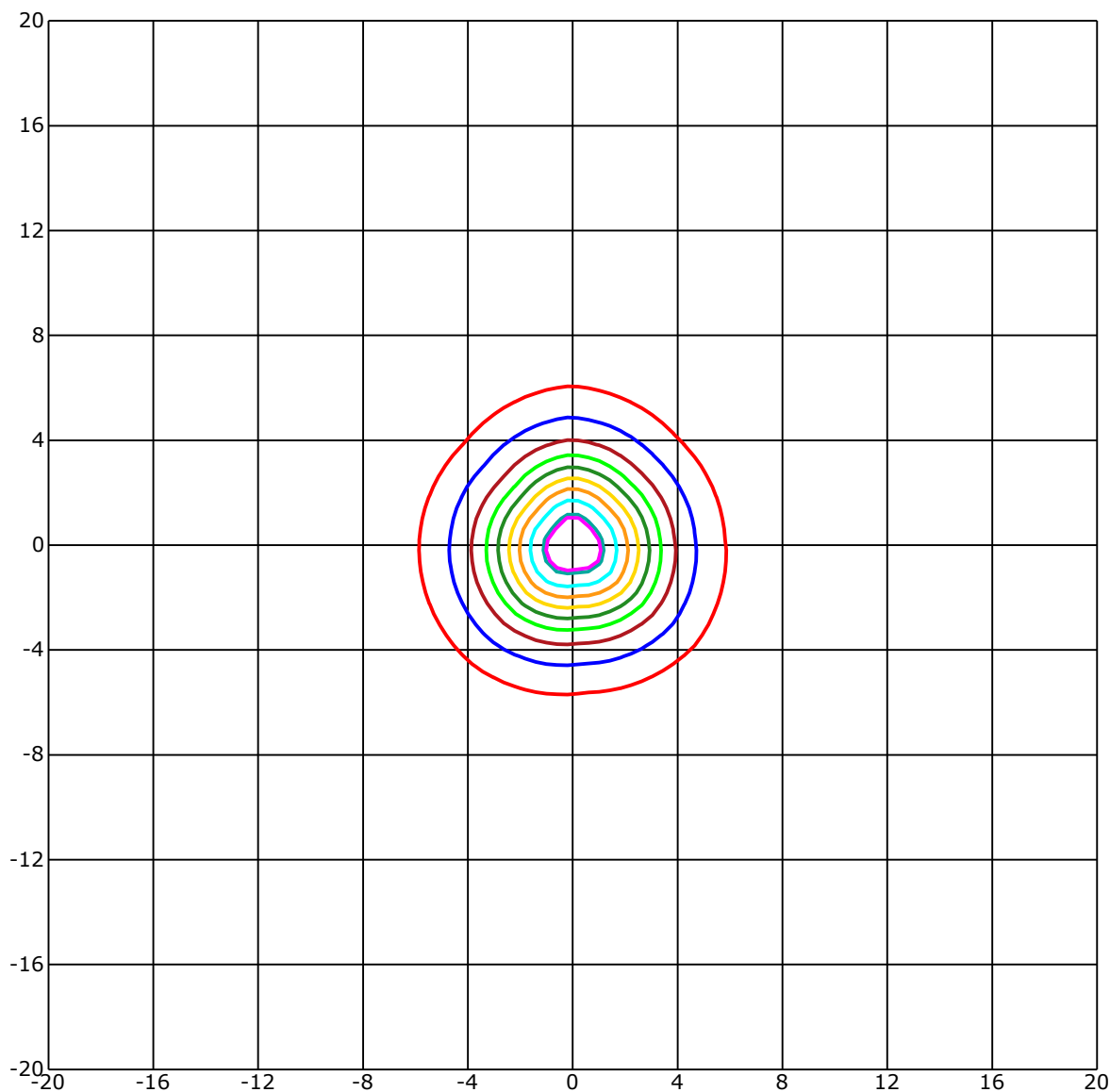
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



Report No.:

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ISOLX DIAGRAM



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

43.96(92%Emax)	23.891(50%Emax)
43.004(90%Emax)	19.113(40%Emax)
38.226(80%Emax)	14.335(30%Emax)
33.448(70%Emax)	9.556(20%Emax)
28.669(60%Emax)	4.778(10%Emax)

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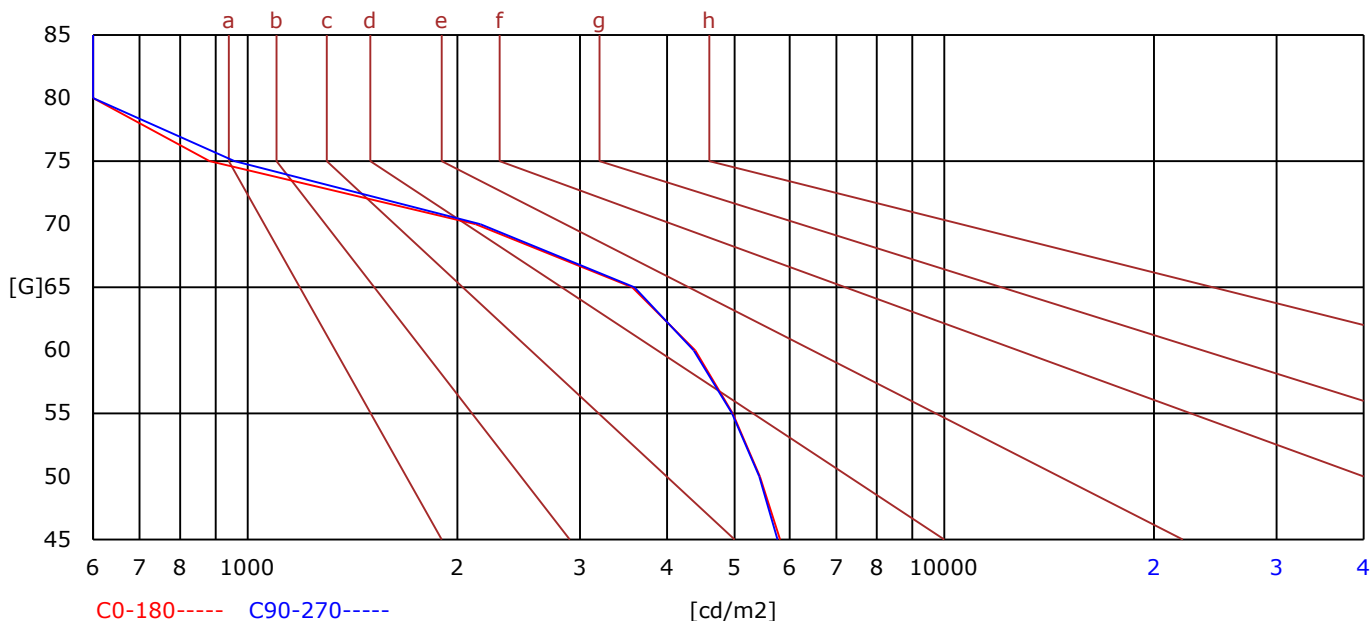
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5810	5438	4968	4390	3566	2126	882	225	0
C90	5763	5425	4958	4367	3592	2158	958	417	192
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



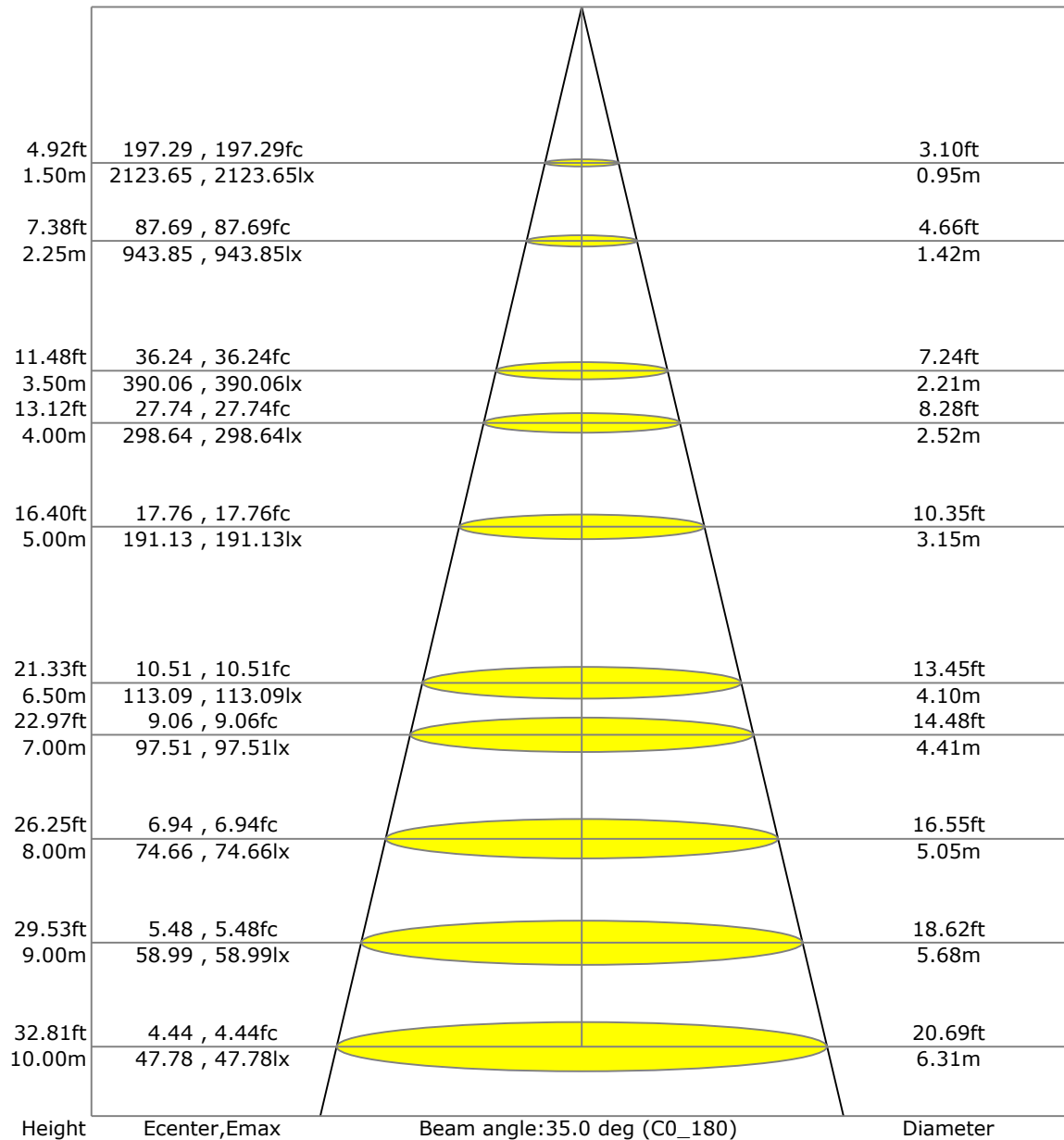
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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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	6.01	6.06	6.21	6.25	6.49	6.28	6.34	6.48	6.52	6.77
3H	6.06	6.11	6.26	6.30	6.55	6.30	6.35	6.50	6.54	6.79
4H	6.05	6.10	6.26	6.30	6.55	6.28	6.34	6.49	6.53	6.78
6H	6.04	6.09	6.25	6.29	6.54	6.27	6.32	6.48	6.52	6.77
8H	6.03	6.08	6.25	6.28	6.54	6.26	6.31	6.48	6.52	6.77
12H	6.02	6.07	6.24	6.28	6.53	6.25	6.30	6.47	6.51	6.76
4H 2H	6.43	6.49	6.64	6.68	6.93	7.30	7.35	7.51	7.55	7.80
3H	6.49	6.55	6.71	6.75	7.01	7.33	7.39	7.55	7.59	7.85
4H	6.49	6.54	6.72	6.75	7.01	7.31	7.37	7.54	7.58	7.84
6H	6.47	6.52	6.71	6.75	7.01	7.29	7.35	7.53	7.57	7.83
8H	6.46	6.51	6.70	6.74	7.01	7.28	7.33	7.52	7.56	7.82
12H	6.45	6.50	6.70	6.73	7.00	7.27	7.32	7.52	7.55	7.82
8H 4H	6.42	6.47	6.64	6.67	6.93	7.47	7.52	7.69	7.73	7.98
6H	6.45	6.50	6.70	6.74	7.01	7.49	7.53	7.74	7.77	8.05
8H	6.43	6.48	6.70	6.73	7.00	7.47	7.52	7.73	7.76	8.04
12H	6.42	6.46	6.69	6.72	7.00	7.45	7.50	7.72	7.75	8.03
12H 4H	6.46	6.51	6.71	6.74	7.01	7.53	7.58	7.78	7.81	8.08
6H	6.44	6.48	6.70	6.73	7.01	7.51	7.55	7.77	7.80	8.08

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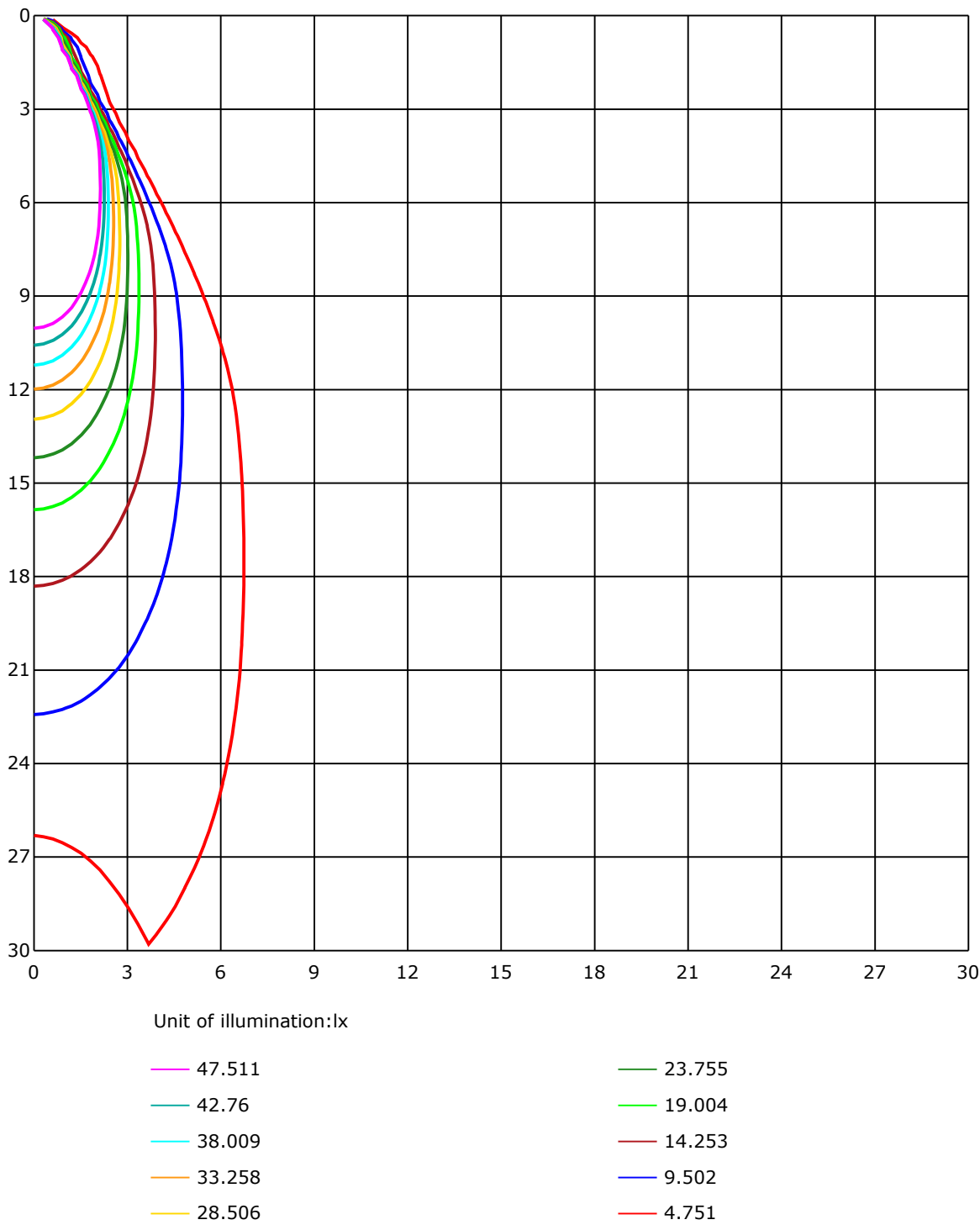
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 1
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4778.22	4754.06	4762.36	4764.36	4778.22	4754.06	4762.36	4764.36	4778.22	
G1	4765.38	4731.29	4762.13	4733.75	4768.21	4759.02	4745.06	4772.33	4765.38	
G2	4735.74	4699.99	4749.19	4684.5	4736.72	4748.4	4703.37	4757.35	4735.74	
G3	4690.39	4637.24	4713.81	4618.74	4682.46	4707.45	4643.78	4729.11	4690.39	
G4	4626.8	4562.16	4651.76	4533.26	4616.51	4638.82	4564.89	4676.2	4626.8	
G5	4538.18	4465.14	4583.91	4433.97	4526.91	4573.33	4464.49	4612.61	4538.18	
G6	4438.29	4353.79	4491.39	4313.12	4425.3	4484.15	4348.59	4526.4	4438.29	
G7	4320.86	4220.83	4383.56	4176.86	4299.85	4369.51	4215.91	4419.09	4320.86	
G8	4184.56	4071.31	4260.57	4019.6	4160.86	4238.87	4071.78	4293.73	4184.56	
G9	4032.4	3908.3	4114.3	3841.89	4006.06	4105.35	3906.86	4164.71	4032.4	
G10	3858.17	3736.29	3966.46	3652.77	3822.6	3939.19	3727.43	4008.75	3858.17	
G11	3690.89	3554.08	3791.06	3461.7	3646.51	3763.75	3535.81	3837.16	3690.89	
G12	3504.36	3359.9	3610.61	3265.3	3452.1	3574.62	3338.48	3661.53	3504.36	
G13	3314.41	3167.3	3418.66	3056.42	3253.38	3381.65	3151.07	3479.32	3314.41	
G14	3110.03	2965.52	3219.29	2847.17	3046.72	3186.55	2945.67	3290.38	3110.03	
G15	2910.33	2762.81	3021.26	2651.14	2845.13	2985.51	2741.94	3088.32	2910.33	
G16	2705.3	2561.35	2826.11	2451.44	2646.59	2784.24	2536.54	2892.85	2705.3	
G17	2511.08	2371.72	2636.85	2262.69	2465.4	2589.46	2342.13	2694.13	2511.08	
G18	2313.94	2184.82	2432.57	2084.1	2269.37	2395.93	2158.58	2501.34	2313.94	
G19	2126.39	2012.21	2245.07	1918.72	2088.78	2208.62	1974.0	2309.21	2126.39	
G20	1956.75	1850.04	2071.95	1766.84	1927.34	2036.14	1818.22	2126.44	1956.75	
G21	1799.63	1702.24	1908.38	1635.64	1782.14	1876.66	1671.95	1956.89	1799.63	
G22	1653.63	1568.02	1765.03	1514.27	1646.82	1726.07	1531.29	1797.63	1653.63	
G23	1523.27	1446.84	1630.12	1402.37	1525.64	1590.75	1411.46	1648.07	1523.27	
G24	1402.37	1333.82	1507.73	1303.54	1410.53	1467.76	1298.95	1519.93	1402.37	
G25	1290.28	1229.85	1401.35	1207.03	1309.71	1358.22	1197.9	1402.18	1290.28	
G26	1183.24	1134.13	1300.2	1118.73	1214.96	1257.21	1101.43	1295.1	1183.24	
G27	1087.71	1040.12	1206.47	1025.84	1124.62	1161.72	1007.52	1193.16	1087.71	
G28	987.07	937.72	1119.52	920.8	1025.75	1063.45	902.29	1099.39	987.07	
G29	879.85	820.63	1026.07	800.08	920.15	962.35	781.48	1000.89	879.85	
G30	758.34	697.08	915.14	677.55	796.88	841.59	653.9	889.45	758.34	
G31	631.13	571.86	787.61	550.3	669.53	716.19	523.22	767.15	631.13	
G32	514.82	453.23	656.96	434.27	547.52	587.35	409.87	640.36	514.82	
G33	407.97	350.84	525.12	334.42	435.33	468.35	311.0	518.25	407.97	
G34	314.15	265.92	407.46	253.54	340.03	364.42	234.48	406.49	314.15	
G35	240.18	206.47	309.93	197.56	265.18	281.6	181.52	311.32	240.18	
G36	187.96	165.28	237.63	159.77	211.8	221.72	148.31	239.86	187.96	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	154.29	137.6	189.68	133.33	175.9	181.38	125.91	192.46	154.29	
G38	129.3	117.52	157.54	114.22	148.77	153.55	109.49	160.6	129.3	
G39	110.65	102.26	134.63	100.08	129.02	133.28	97.16	137.46	110.65	
G40	96.42	91.45	118.31	89.97	114.5	118.17	88.76	120.25	96.42	
G41	86.31	84.22	105.6	82.83	103.93	107.04	82.36	107.69	86.31	
G42	79.21	78.42	96.6	77.73	95.77	98.6	77.73	99.34	79.21	
G43	74.25	74.25	89.83	73.74	89.6	92.57	73.92	92.52	74.25	
G44	70.07	70.82	84.36	70.63	84.64	87.33	71.05	87.65	70.07	
G45	66.92	68.4	80.09	67.85	80.23	83.29	68.31	83.52	66.92	
G46	63.95	65.99	76.47	65.76	76.2	80.0	66.09	80.32	63.95	
G47	61.54	63.86	73.18	63.54	73.23	76.98	64.14	77.26	61.54	
G48	59.08	61.96	70.21	61.87	69.98	74.43	61.87	75.08	59.08	
G49	56.81	60.15	67.52	59.87	67.11	72.21	59.5	72.58	56.81	
G50	54.35	58.2	65.16	58.06	64.14	69.7	57.41	70.58	54.35	
G51	52.22	56.58	62.65	56.25	61.4	67.52	55.33	68.36	52.22	
G52	49.76	54.31	60.47	54.45	58.53	65.58	53.33	66.36	49.76	
G53	47.07	52.27	57.88	51.94	55.93	63.4	51.01	64.05	47.07	
G54	44.71	50.04	55.79	49.81	53.33	61.36	49.02	61.91	44.71	
G55	42.34	47.44	53.38	47.35	50.69	59.18	46.28	59.64	42.34	
G56	39.93	45.22	51.2	45.08	47.63	57.04	44.52	57.37	39.93	
G57	37.98	43.22	49.11	42.85	45.45	54.86	42.43	55.28	37.98	
G58	35.85	40.95	46.47	40.63	42.85	52.4	40.63	52.68	35.85	
G59	33.58	38.96	44.38	38.4	40.76	50.36	38.68	50.18	33.58	
G60	31.35	36.54	42.25	36.36	38.26	47.58	36.64	47.58	31.35	
G61	28.99	34.41	40.25	34.23	35.94	45.31	34.78	45.12	28.99	
G62	26.3	32.19	38.17	32.14	33.48	43.04	32.97	42.81	26.3	
G63	23.28	30.01	36.03	29.91	31.16	40.9	30.7	40.63	23.28	
G64	19.29	27.5	33.72	27.83	28.24	38.77	28.47	38.26	19.29	
G65	15.54	25.09	30.7	25.27	24.39	36.5	25.51	35.71	15.54	
G66	13.31	22.54	28.75	22.91	20.78	34.09	23.47	33.21	13.31	
G67	11.69	19.9	26.99	20.41	18.6	31.54	21.8	30.56	11.69	
G68	9.88	16.97	25.46	17.81	16.65	28.75	20.41	27.73	9.88	
G69	8.49	14.38	23.84	14.93	14.89	26.34	18.88	24.76	8.49	
G70	7.0	12.1	22.17	12.29	12.99	23.28	17.3	21.7	7.0	
G71	5.61	9.69	20.64	9.88	11.5	20.45	15.91	18.5	5.61	
G72	4.5	7.51	19.01	8.21	9.97	18.09	14.38	16.0	4.5	
G73	3.48	6.17	17.72	6.68	8.67	15.72	12.8	13.5	3.48	

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:50:45

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks: