

Report No.:

Test Time: 2024/10/26 15:19:18

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-60°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 80 mm

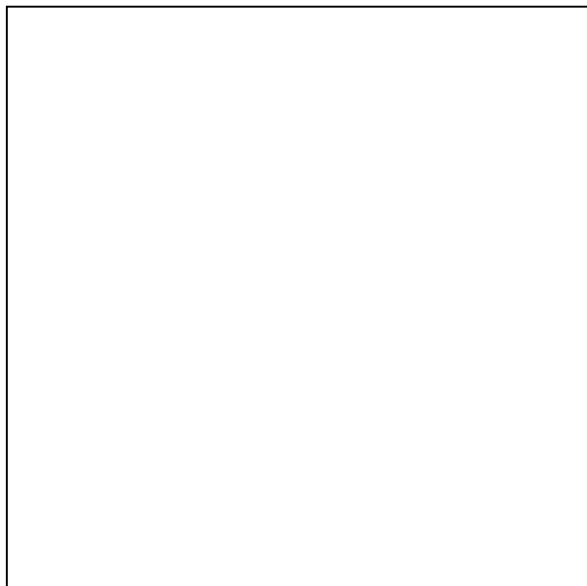
Voltage(V): 219.90 V
Current(A): 0.2440 A
Power(W): 52.23 W
Power Factor: 0.9700
Lamp Luminous Flux: 4714.40

Photometric Results

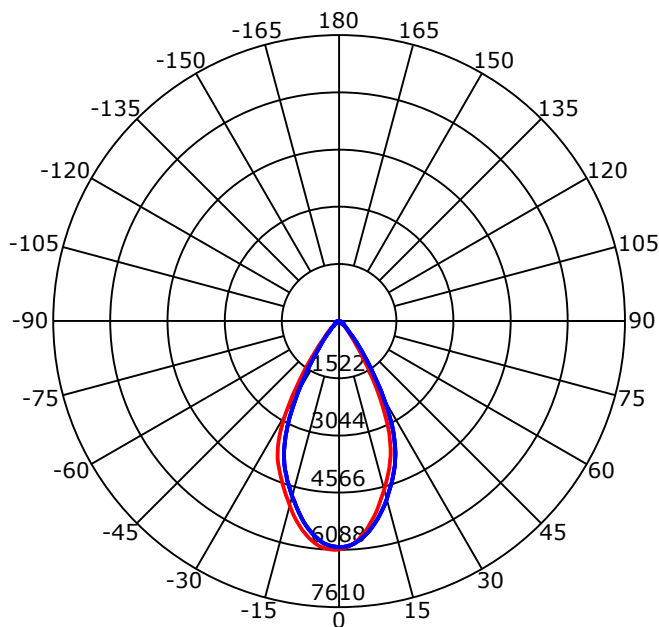
CIE Class: Direct
Luminaire Luminous Flux: 4714.404 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.26 lm/W
Beam Angle(50%) C0-180,C90-270: 54.3,54.0
Field Angle(10%) C0-180,C90-270: 79.4,80.2
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 6087.98 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6080.28 cd
Effective Luminous Flux: 4239.59 lm
ERP(ϕ use)(120deg): 4623.59 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.3 deg,54.0 deg

C0-180 — C90-270 —

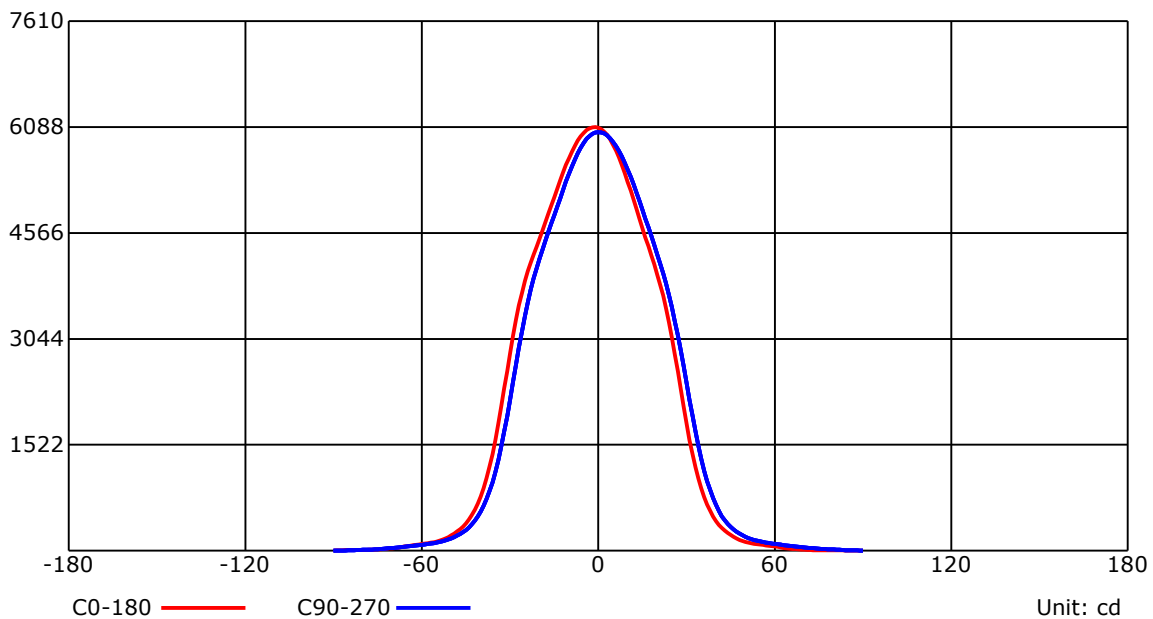
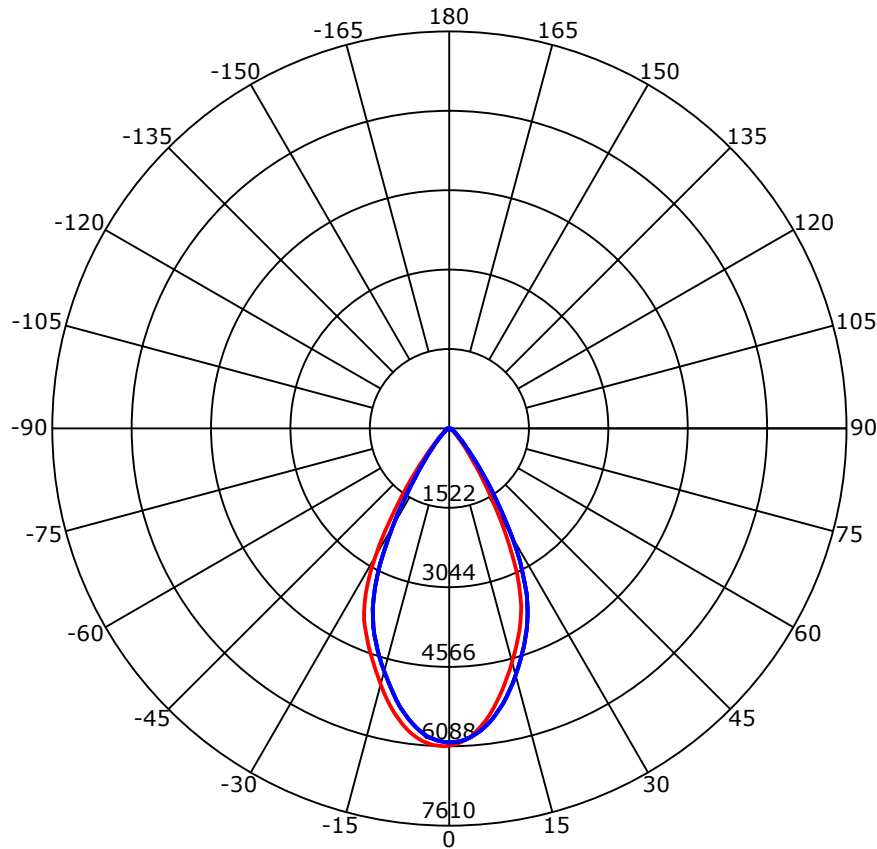
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



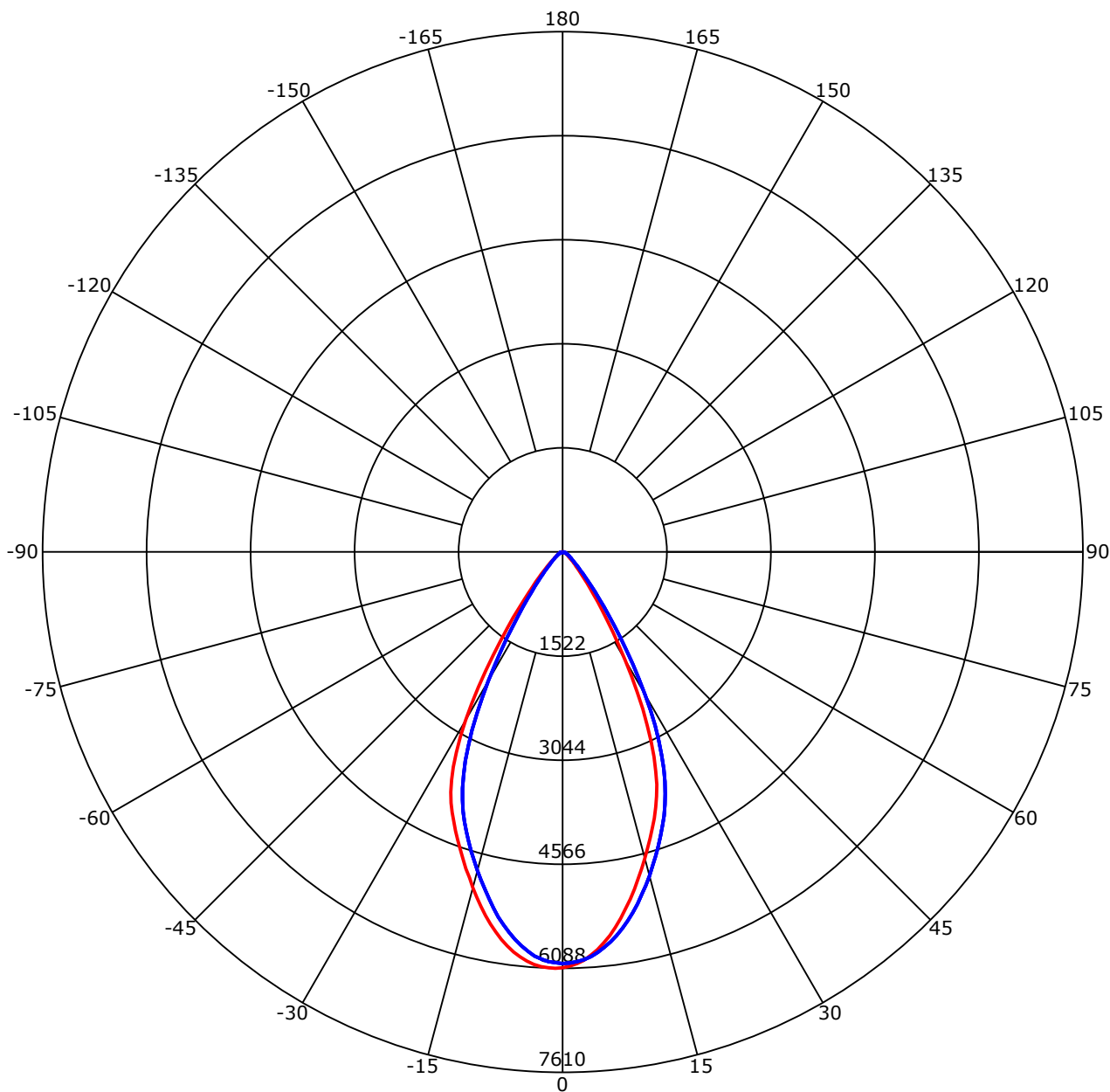
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

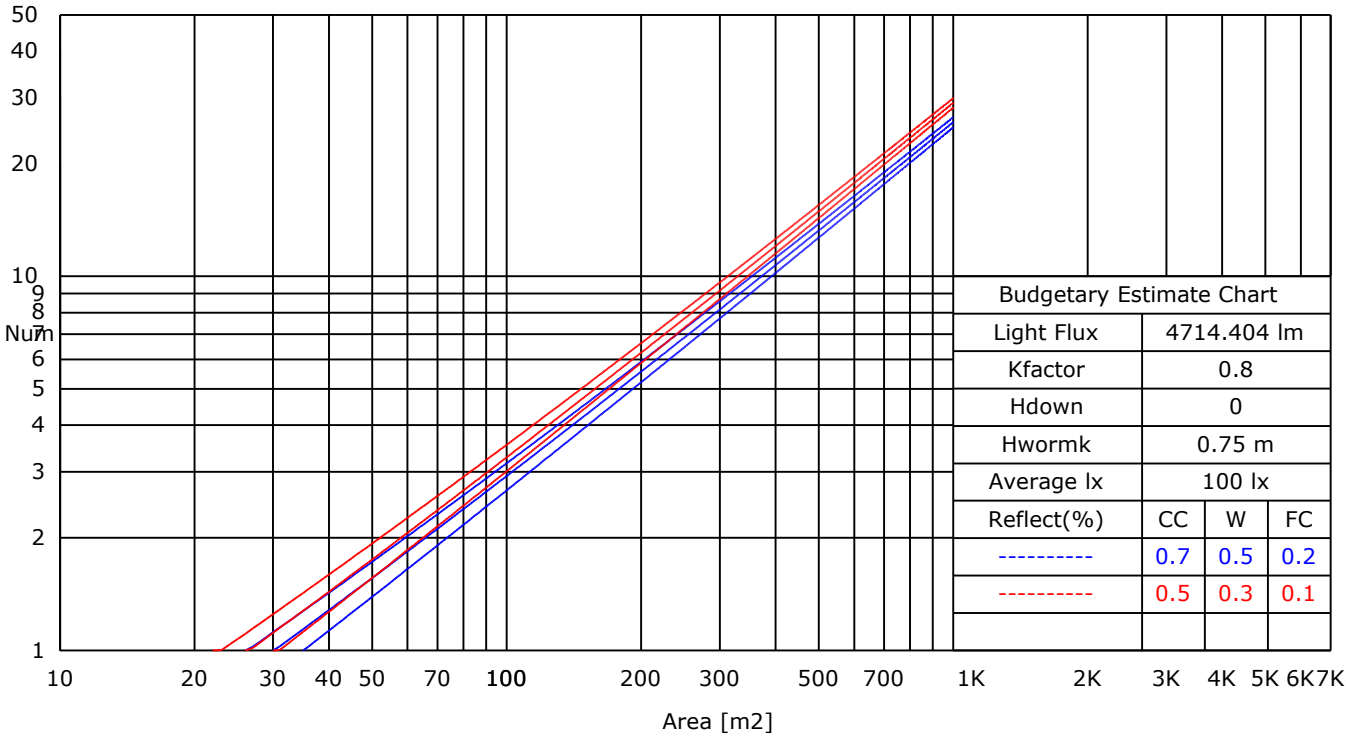
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UTILIZATION FACTORS TABLE

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	1.05	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.85	0.79
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.81	0.76
3	0.96	0.94	0.93	0.95	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.73
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.88	0.86	0.85	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.75	0.78	0.74	0.71	0.67
6	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.68	0.65
7	0.82	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.62
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.76	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.58
10	0.74	0.73	0.72	0.73	0.71	0.70	0.71	0.69	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



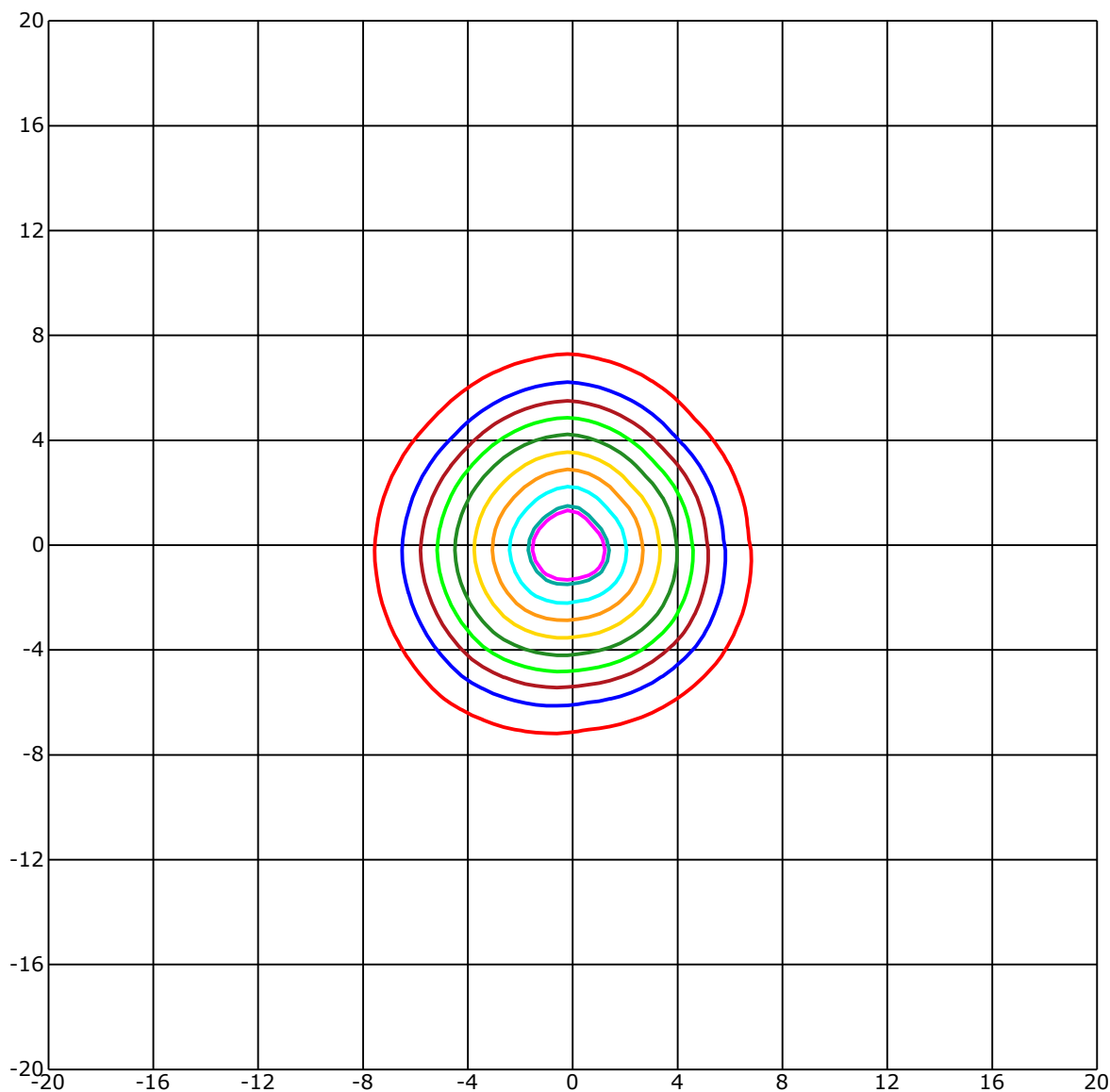
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



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

55.984(92%Emax)	30.426(50%Emax)
54.767(90%Emax)	24.341(40%Emax)
48.682(80%Emax)	18.256(30%Emax)
42.596(70%Emax)	12.17(20%Emax)
36.511(60%Emax)	6.085(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:19:18

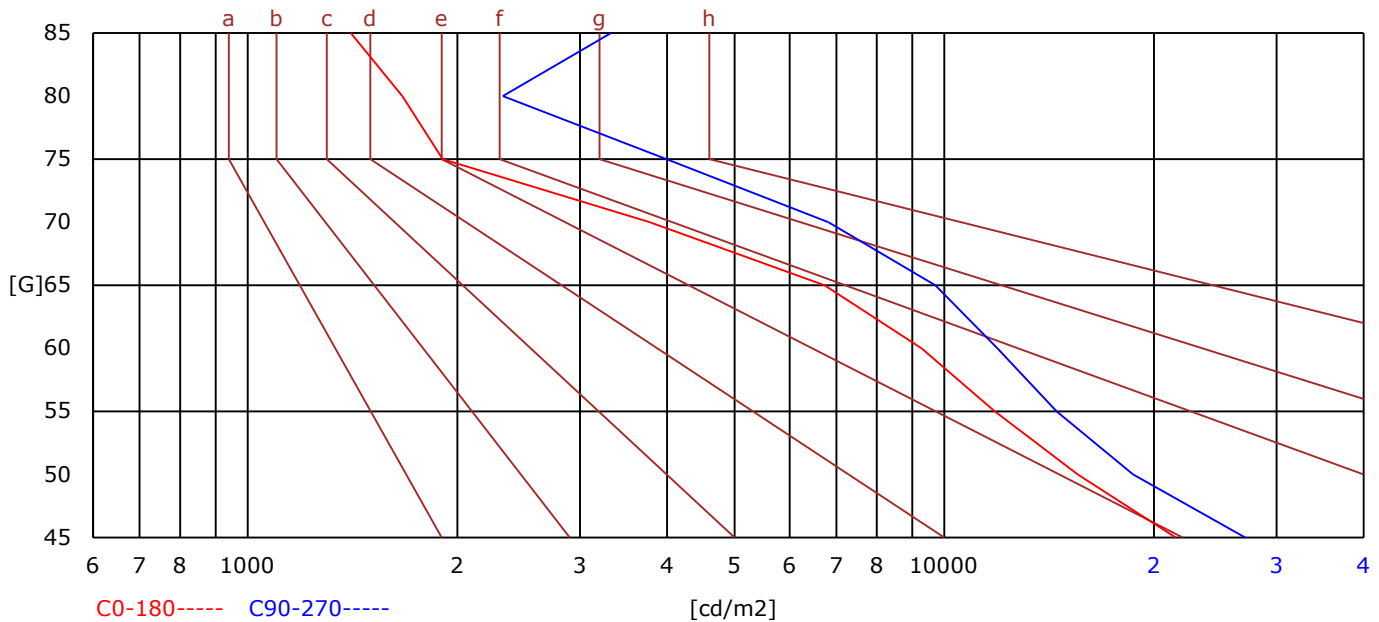
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	21500	15552	11825	9275	6736	3779	1905	1668	1406
C90	27046	18668	14491	11916	9708	6816	3993	2326	3324
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



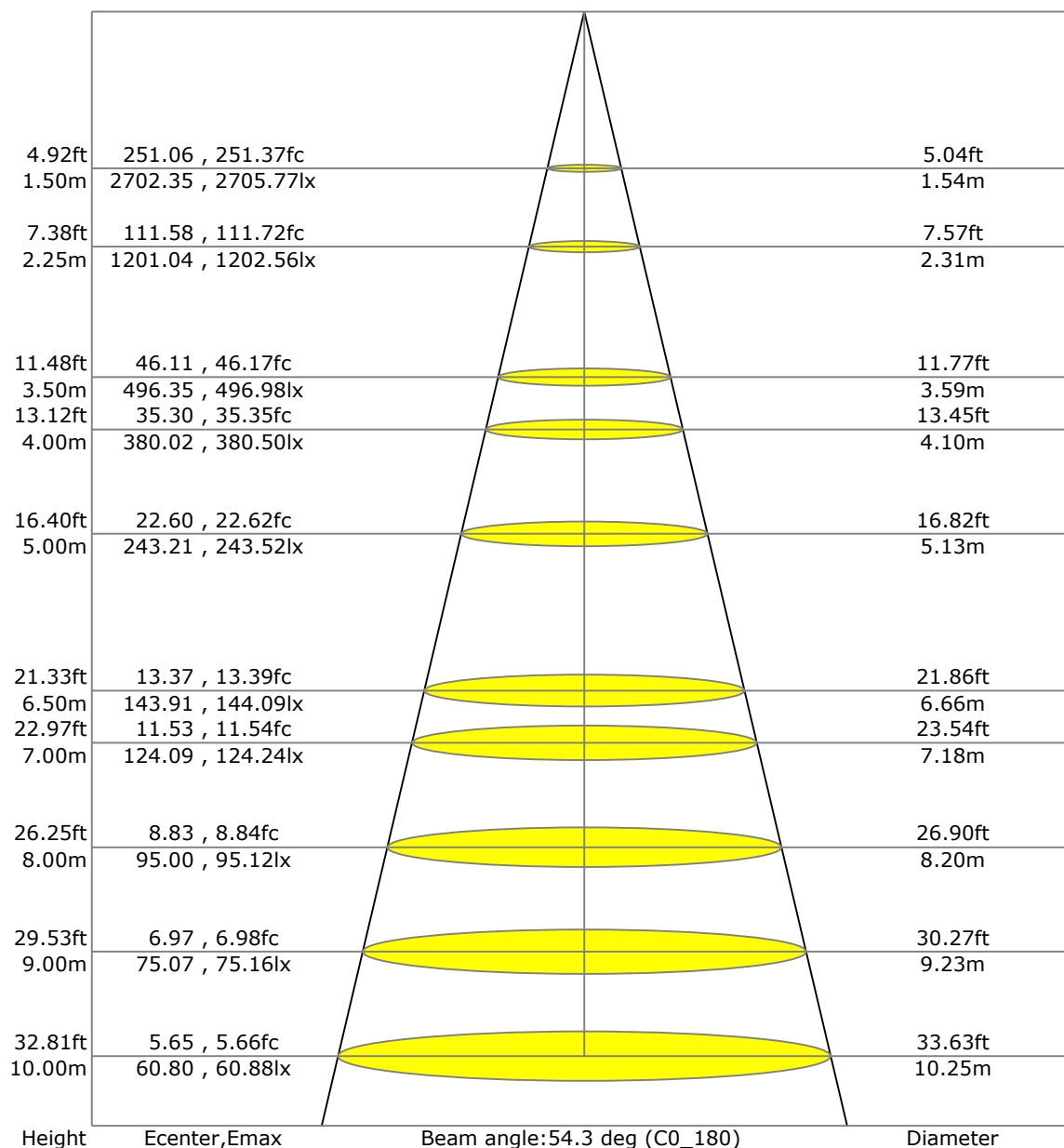
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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	9.17	9.22	9.37	9.41	9.65	9.49	9.54	9.69	9.73	9.97
3H	9.17	9.22	9.37	9.41	9.66	9.47	9.52	9.68	9.72	9.96
4H	9.16	9.21	9.37	9.40	9.65	9.46	9.51	9.67	9.71	9.95
6H	9.14	9.19	9.35	9.39	9.64	9.44	9.49	9.65	9.69	9.94
8H	9.13	9.18	9.35	9.38	9.64	9.43	9.48	9.65	9.68	9.94
12H	9.12	9.17	9.34	9.38	9.63	9.42	9.47	9.64	9.68	9.93
4H 2H	9.28	9.33	9.49	9.53	9.78	9.89	9.94	10.10	10.14	10.39
3H	9.28	9.33	9.50	9.54	9.79	9.88	9.93	10.10	10.14	10.39
4H	9.27	9.32	9.50	9.53	9.79	9.86	9.91	10.09	10.12	10.38
6H	9.25	9.30	9.49	9.52	9.78	9.84	9.89	10.07	10.11	10.37
8H	9.24	9.28	9.48	9.51	9.78	9.82	9.87	10.07	10.10	10.36
12H	9.22	9.27	9.47	9.50	9.77	9.81	9.86	10.06	10.09	10.36
8H 4H	9.27	9.32	9.49	9.52	9.78	9.96	10.01	10.18	10.21	10.47
6H	9.23	9.28	9.49	9.52	9.79	9.93	9.97	10.18	10.21	10.48
8H	9.22	9.26	9.48	9.51	9.78	9.91	9.95	10.17	10.20	10.48
12H	9.21	9.24	9.47	9.50	9.78	9.89	9.93	10.16	10.19	10.47
12H 4H	9.25	9.29	9.50	9.53	9.80	9.96	10.01	10.21	10.24	10.51
6H	9.23	9.27	9.49	9.51	9.79	9.94	9.98	10.20	10.23	10.50

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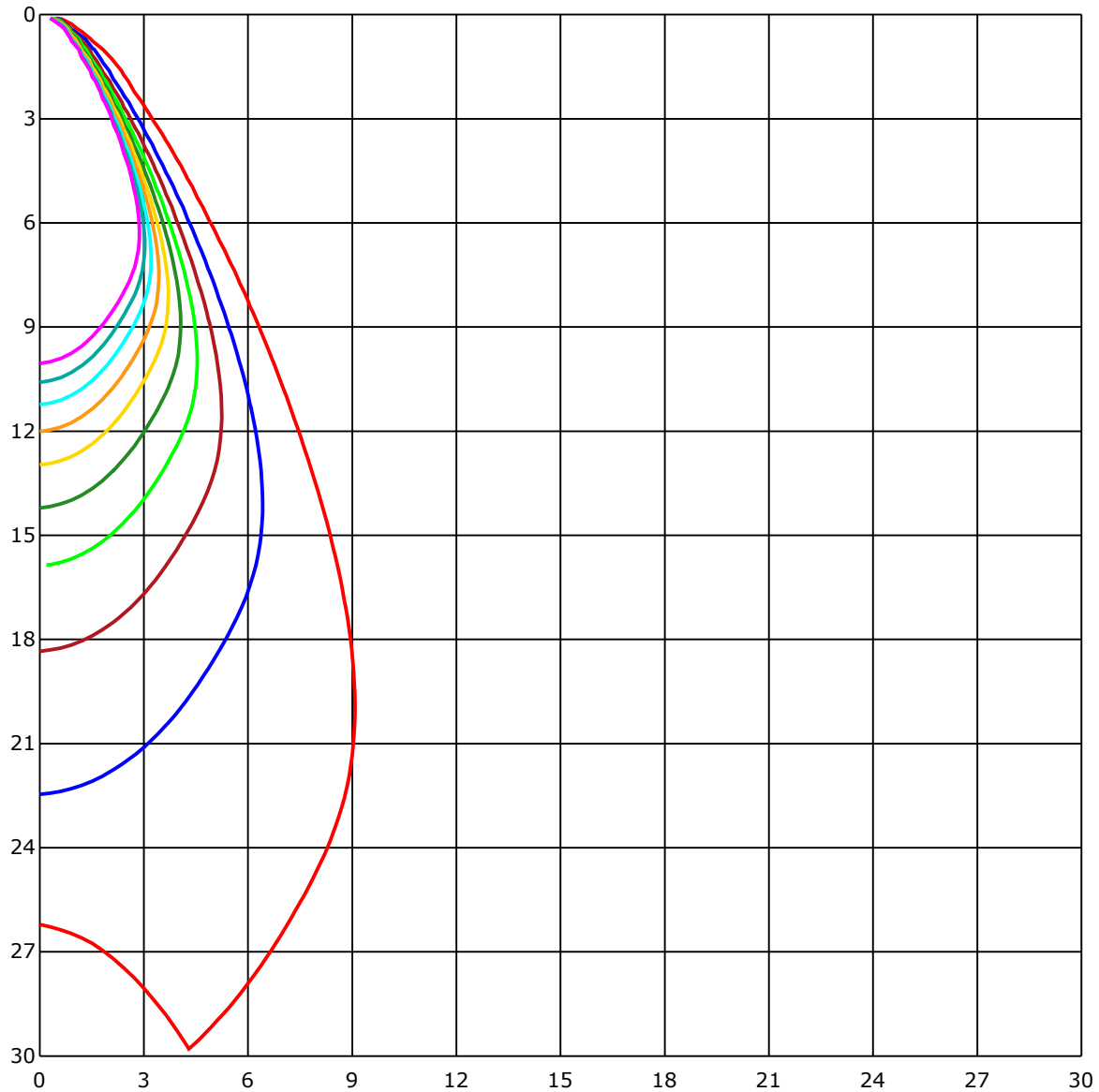
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

60.244
54.22
48.195
42.171
36.146

30.122
24.098
18.073
12.049
6.024

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Test Date: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6080.28	5975.65	6016.14	6051.71	6080.28	5975.65	6016.14	6051.71	6080.28	
G1	6054.91	5942.68	6010.3	6043.27	6087.98	5994.57	6007.93	6047.3	6054.91	
G2	6021.47	5903.72	5994.34	6025.74	6083.8	5999.03	5992.26	6031.12	6021.47	
G3	5975.7	5854.01	5968.23	5996.24	6072.12	5994.53	5959.24	6002.74	5975.7	
G4	5911.56	5782.31	5929.05	5957.1	6045.31	5976.86	5921.63	5963.64	5911.56	
G5	5835.55	5708.16	5875.39	5900.25	6006.17	5945.65	5860.59	5903.03	5835.55	
G6	5745.54	5616.47	5814.31	5837.45	5954.51	5898.16	5789.87	5829.34	5745.54	
G7	5649.95	5524.83	5741.69	5757.18	5892.78	5853.64	5709.04	5756.11	5649.95	
G8	5541.34	5417.93	5664.1	5670.31	5818.76	5787.46	5620.37	5664.1	5541.34	
G9	5423.64	5309.83	5571.11	5572.0	5735.52	5715.3	5523.67	5559.52	5423.64	
G10	5297.22	5187.26	5474.88	5464.87	5643.14	5627.14	5420.95	5450.95	5297.22	
G11	5174.37	5066.68	5371.7	5356.72	5544.68	5531.7	5305.98	5326.3	5174.37	
G12	5039.74	4937.25	5260.63	5247.5	5433.29	5435.56	5182.39	5204.42	5039.74	
G13	4904.41	4808.32	5141.77	5123.59	5321.06	5328.57	5059.26	5072.8	4904.41	
G14	4769.6	4676.2	5023.55	5002.27	5201.91	5217.82	4943.65	4938.82	4769.6	
G15	4636.54	4549.03	4901.44	4879.65	5081.29	5101.93	4820.89	4811.61	4636.54	
G16	4502.42	4413.1	4770.71	4761.34	4954.96	4982.69	4701.05	4689.0	4502.42	
G17	4377.58	4276.57	4646.98	4638.31	4841.43	4860.87	4579.36	4558.68	4377.58	
G18	4243.0	4141.43	4525.43	4517.26	4722.48	4738.71	4453.96	4431.05	4243.0	
G19	4118.62	3995.53	4396.36	4395.02	4600.28	4623.42	4327.08	4309.41	4118.62	
G20	3973.18	3844.76	4263.87	4277.13	4487.07	4505.48	4199.73	4192.21	3973.18	
G21	3826.96	3694.27	4132.53	4155.16	4370.48	4380.04	4062.73	4057.86	3826.96	
G22	3669.23	3519.81	3987.28	4019.7	4254.73	4259.92	3911.13	3921.33	3669.23	
G23	3479.23	3331.2	3839.71	3879.13	4139.48	4140.18	3752.1	3775.62	3479.23	
G24	3281.57	3130.85	3674.89	3716.07	4019.0	4002.72	3566.28	3596.1	3281.57	
G25	3064.16	2910.43	3500.47	3546.24	3873.05	3859.88	3367.97	3419.17	3064.16	
G26	2826.9	2685.08	3300.87	3338.24	3706.84	3691.4	3151.63	3207.0	2826.9	
G27	2578.42	2451.58	3093.89	3106.5	3525.7	3507.61	2920.3	2984.58	2578.42	
G28	2321.54	2212.88	2876.15	2874.39	3317.89	3302.07	2671.26	2744.26	2321.54	
G29	2068.61	1976.18	2652.16	2618.86	3092.03	3080.3	2428.25	2496.43	2068.61	
G30	1828.01	1749.96	2411.05	2363.19	2842.67	2840.03	2178.43	2244.93	1828.01	
G31	1589.26	1532.64	2166.04	2109.23	2584.59	2598.08	1933.05	2002.61	1589.26	
G32	1383.31	1336.88	1932.68	1867.89	2329.01	2349.69	1707.57	1761.64	1383.31	
G33	1198.03	1159.4	1711.32	1635.18	2070.51	2111.32	1494.89	1543.17	1198.03	
G34	1035.25	1007.66	1504.16	1426.58	1825.97	1875.03	1300.9	1340.32	1035.25	
G35	892.28	872.61	1317.45	1238.71	1595.43	1653.91	1133.11	1160.47	892.28	
G36	771.0	759.59	1146.56	1071.57	1388.18	1451.57	980.95	1000.56	771.0	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	664.29	656.5	1001.17	928.12	1202.95	1270.15	853.74	869.27	664.29	
G38	572.23	570.15	870.29	798.74	1042.12	1109.32	743.08	749.62	572.23	
G39	491.03	497.85	756.81	692.95	900.58	967.03	646.34	652.05	491.03	
G40	423.27	436.68	658.4	599.41	780.28	844.97	562.31	567.92	423.27	
G41	370.22	385.57	571.77	521.92	677.74	737.47	493.86	497.11	370.22	
G42	326.49	343.6	494.88	457.36	588.74	645.46	431.9	436.35	326.49	
G43	286.47	307.94	432.32	401.34	512.18	565.83	377.97	386.17	286.47	
G44	253.58	278.3	381.49	355.66	448.32	497.2	333.49	344.44	253.58	
G45	224.65	253.12	340.03	318.42	394.34	441.08	297.18	310.21	224.65	
G46	199.23	231.37	303.3	287.11	348.15	391.55	266.25	280.11	199.23	
G47	175.07	211.94	272.74	260.96	309.7	349.63	240.37	255.72	175.07	
G48	154.8	195.24	245.28	237.49	275.85	315.08	216.67	233.32	154.8	
G49	138.34	179.8	222.05	217.46	246.26	285.68	195.99	214.86	138.34	
G50	125.63	166.44	200.07	199.79	219.87	260.17	177.39	198.49	125.63	
G51	114.92	153.64	182.35	184.81	196.59	238.42	160.69	183.97	114.92	
G52	106.53	142.88	166.86	171.27	175.81	219.31	146.32	171.27	106.53	
G53	99.71	131.52	154.66	158.98	158.24	202.9	134.26	159.3	99.71	
G54	93.22	121.78	142.98	148.08	143.86	188.24	123.87	148.77	93.22	
G55	87.7	112.93	133.24	138.39	131.94	174.98	115.34	138.94	87.7	
G56	82.09	105.09	124.98	128.74	122.76	163.34	107.78	129.76	82.09	
G57	76.66	97.2	117.56	120.58	115.01	152.3	101.84	121.92	76.66	
G58	71.28	90.11	110.42	112.74	108.24	142.47	96.18	113.99	71.28	
G59	65.67	83.29	104.21	105.69	101.84	132.87	90.94	107.08	65.67	
G60	60.52	77.22	98.09	99.2	95.72	124.71	85.93	100.31	60.52	
G61	54.45	71.05	92.43	92.57	89.65	116.4	80.74	94.1	54.45	
G62	46.47	65.34	86.91	86.17	84.08	108.94	76.15	87.56	46.47	
G63	38.54	59.5	81.48	80.18	77.91	101.98	71.28	81.34	38.54	
G64	33.85	53.94	75.69	74.16	72.02	95.72	66.41	75.36	33.85	
G65	29.96	47.4	69.29	68.31	66.13	88.76	60.61	69.38	29.96	
G66	26.2	41.78	64.0	62.56	59.08	82.55	55.05	63.49	26.2	
G67	22.68	35.57	59.83	56.9	50.23	76.29	51.15	57.55	22.68	
G68	19.52	30.1	55.65	50.78	44.15	70.35	46.93	51.43	19.52	
G69	16.51	25.18	51.76	44.71	39.51	64.51	43.45	44.98	16.51	
G70	13.82	21.52	47.26	38.82	35.57	58.48	39.65	39.23	13.82	
G71	11.18	18.32	43.55	33.16	31.72	52.59	36.13	34.04	11.18	
G72	9.14	15.3	39.79	28.15	28.06	46.47	32.6	29.4	9.14	
G73	7.51	12.52	36.22	23.74	24.72	40.44	29.36	25.92	7.51	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:19:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Test Time: 2024/10/26 15:19:18

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: