

Report No.:

Test Time: 2024/10/25 17:20:39

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H114-15°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

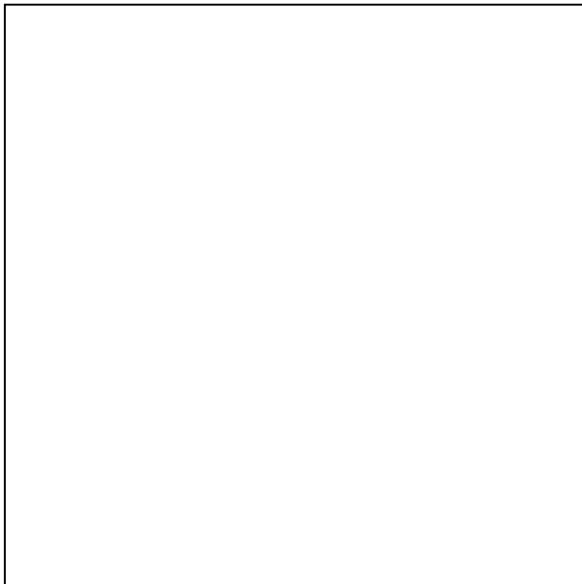
Voltage(V): 219.80 V
Current(A): 0.1180 A
Power(W): 25.48 W
Power Factor: 0.9800
Lamp Luminous Flux: 2206.61

Photometric Results

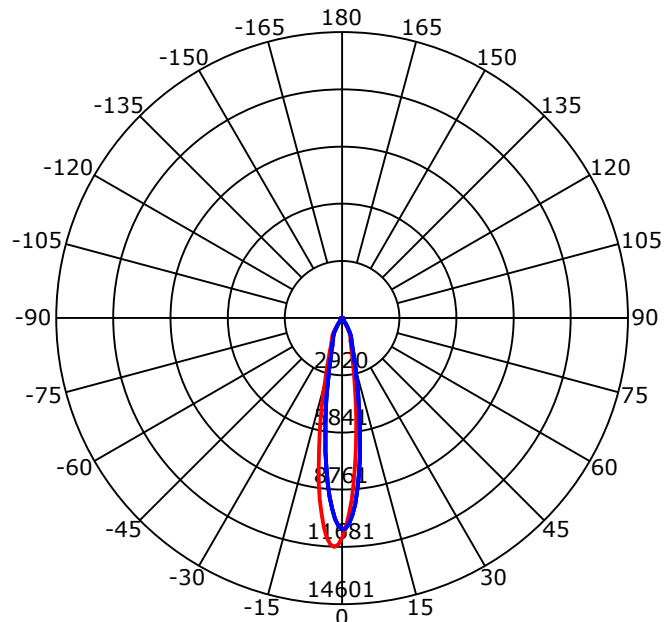
CIE Class: Direct
Luminaire Luminous Flux: 2206.613 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 86.60 lm/W
Beam Angle(50%) C0-180,C90-270: 18.3,18.7
Field Angle(10%) C0-180,C90-270: 47.7,50.2
S/MH C0-180,C90-270: 0.353,0.317

Max. Intensity: 11681.12 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11218.05 cd
Effective Luminous Flux: 1668.48 lm
ERP(ϕ use)(120deg): 2187.67 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.3 deg,18.7 deg

C0-180 — C90-270 —

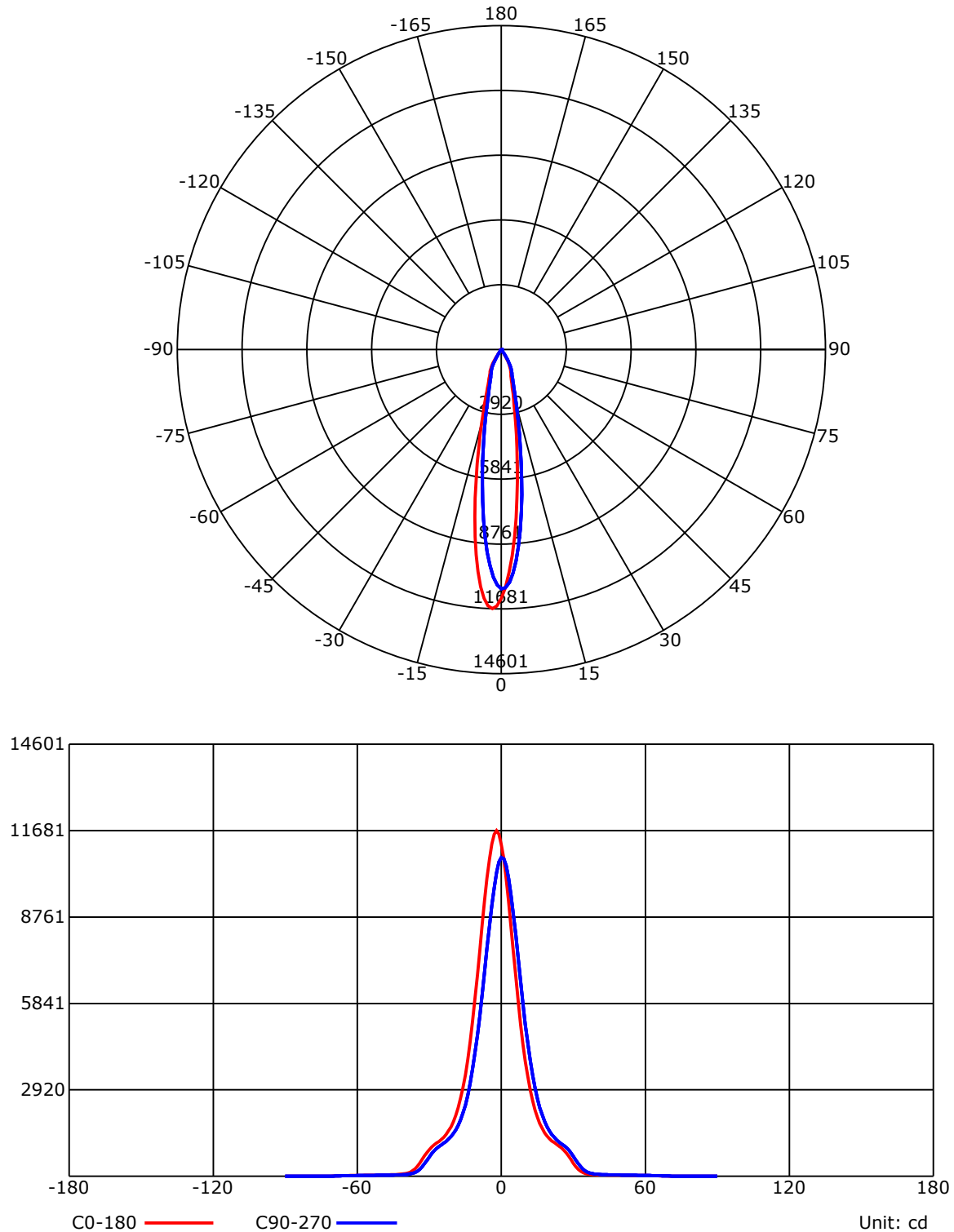
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:20:39

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

Report No.:

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Luminous Intensity Distribution Curve



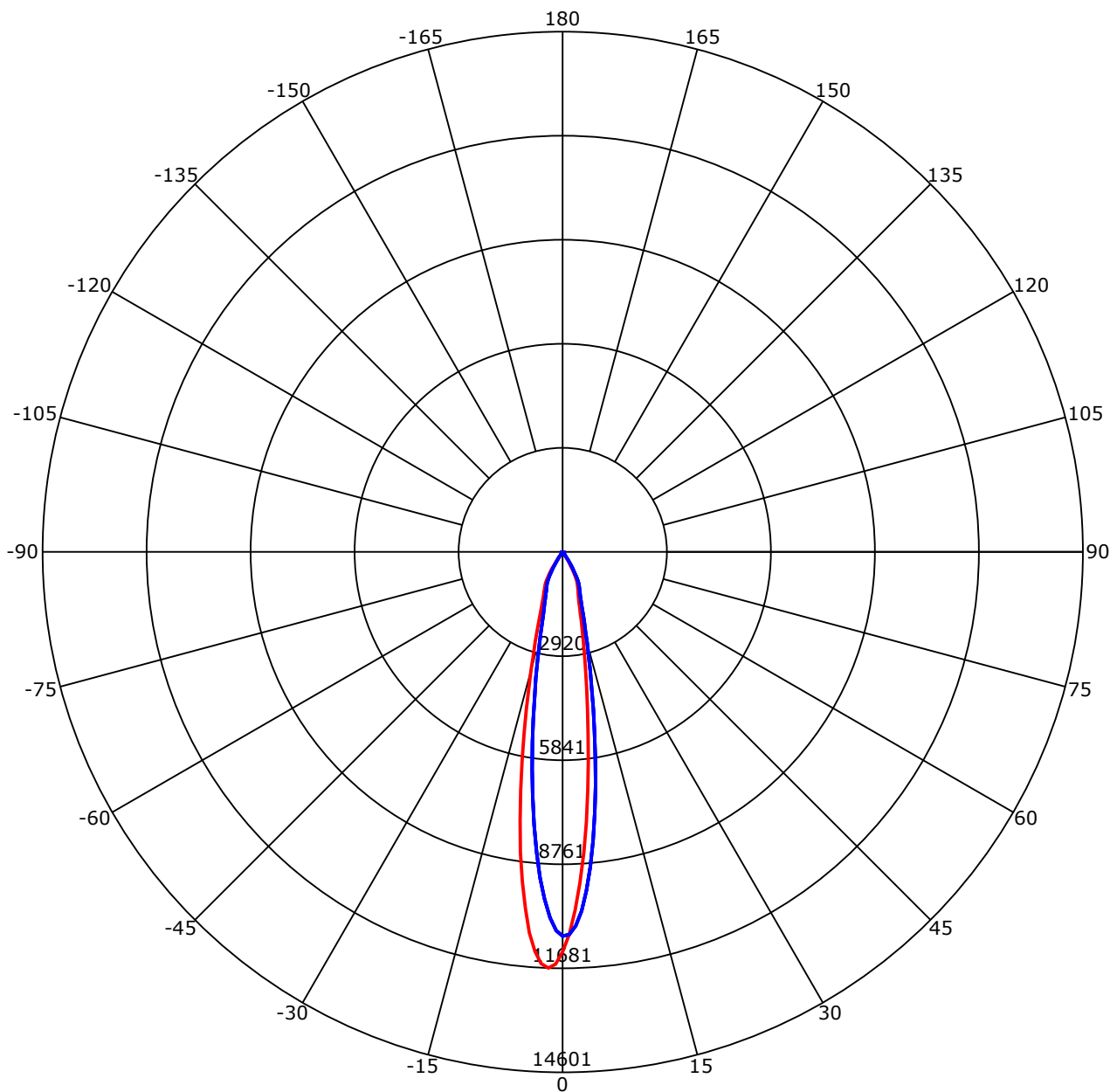
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Luminous 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: 2024/10/25 17:20:39

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

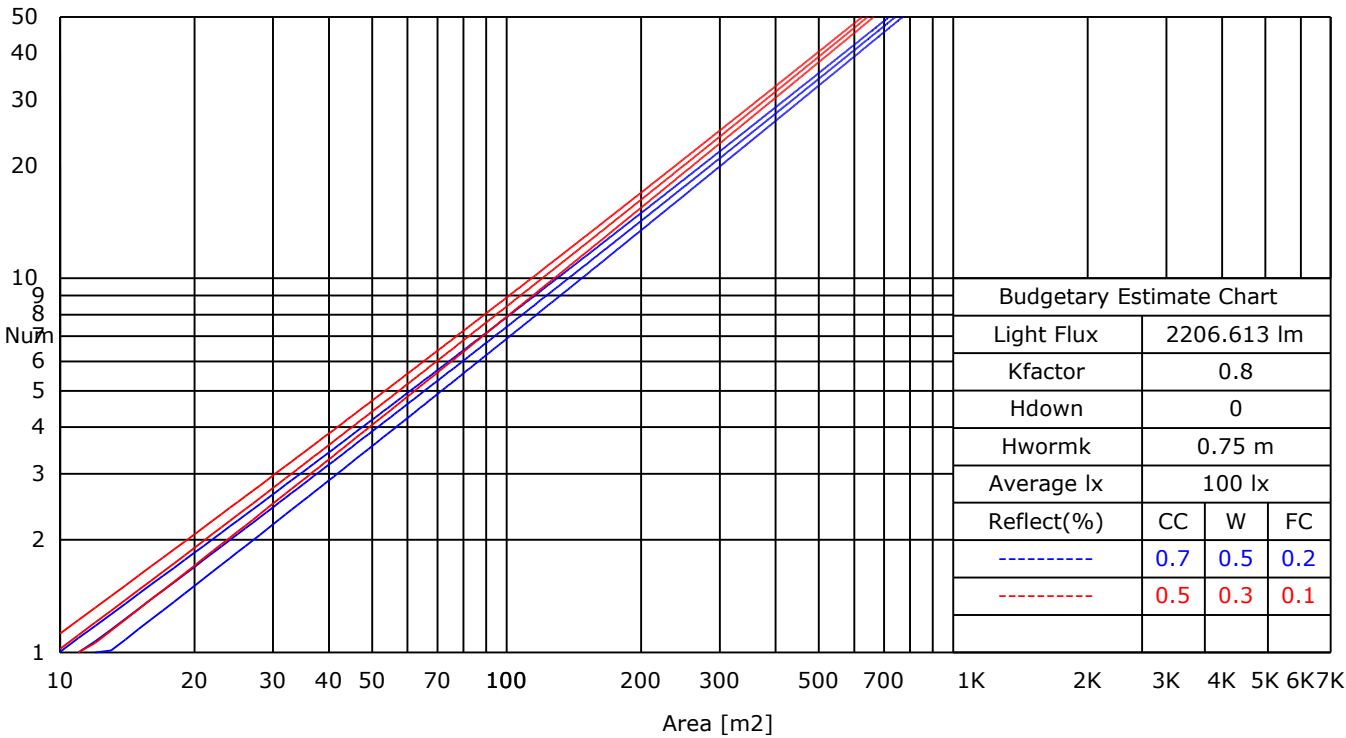
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UTILIZATION FACTORS TABLE

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	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	0.86	0.83	0.80	0.86	0.82	0.79	0.84	0.79	0.76	0.80	0.76	0.72	0.75	0.71	0.67	0.62
2	0.82	0.79	0.77	0.82	0.79	0.76	0.80	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.79	0.77	0.75	0.79	0.76	0.73	0.78	0.73	0.70	0.75	0.71	0.67	0.72	0.67	0.63	0.58
4	0.77	0.74	0.73	0.76	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.74	0.72	0.71	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.55
6	0.72	0.70	0.69	0.72	0.69	0.68	0.71	0.67	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.54
7	0.70	0.69	0.68	0.70	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.56	0.53
8	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.66	0.61	0.58	0.64	0.59	0.55	0.52
9	0.67	0.66	0.65	0.67	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.62	0.58	0.54	0.51
10	0.66	0.64	0.64	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



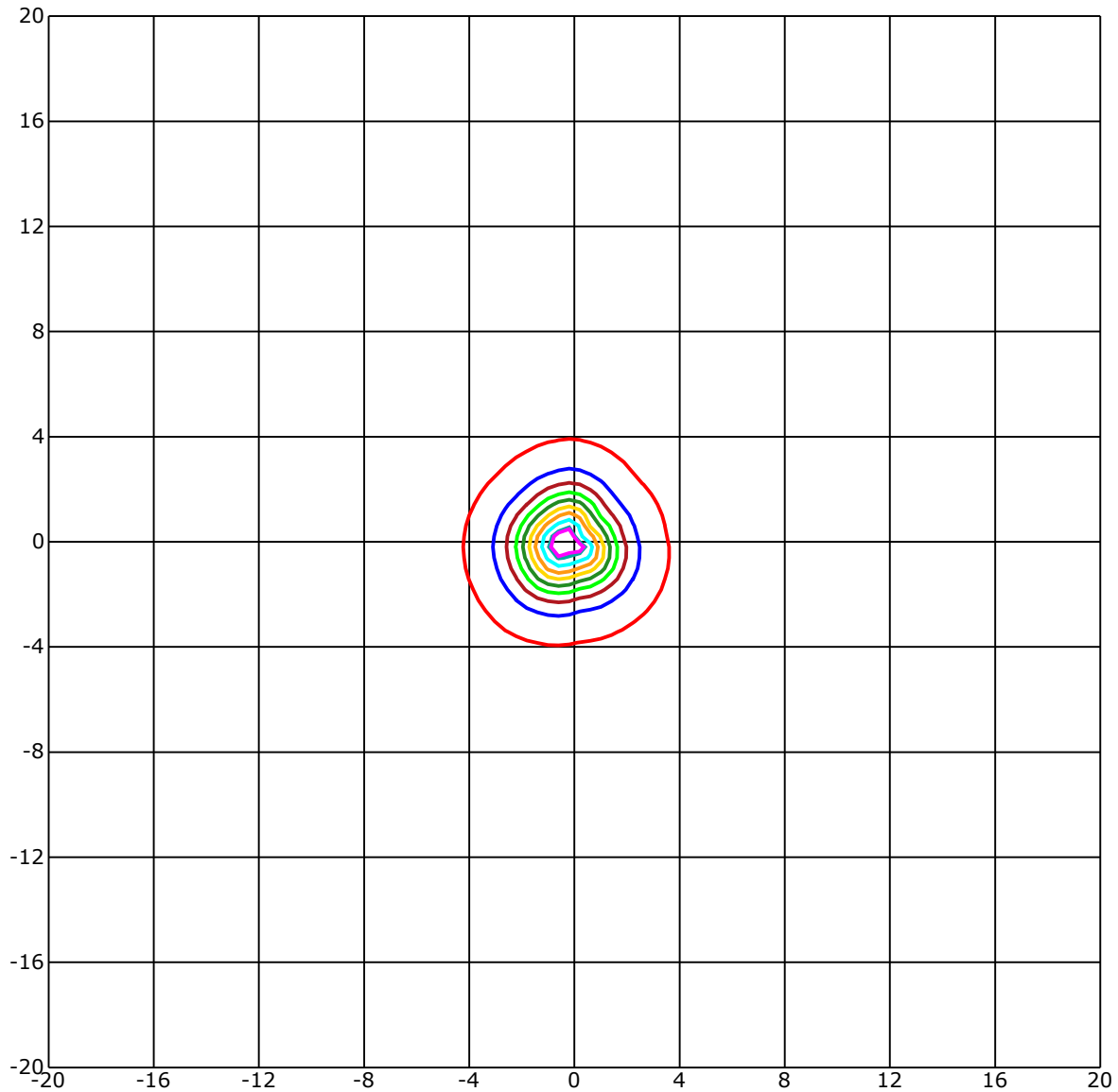
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:20:39

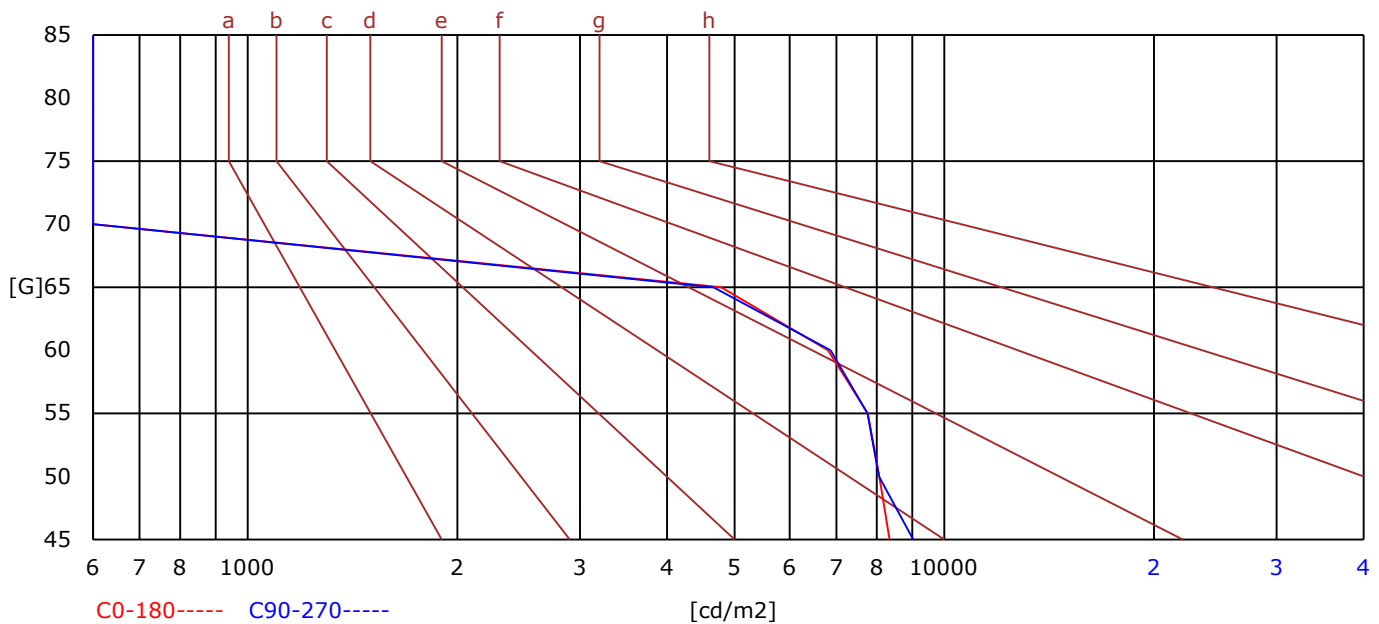
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8342	8072	7770	6811	4784	0	0	0	0
C90	9028	8060	7757	6869	4664	64	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



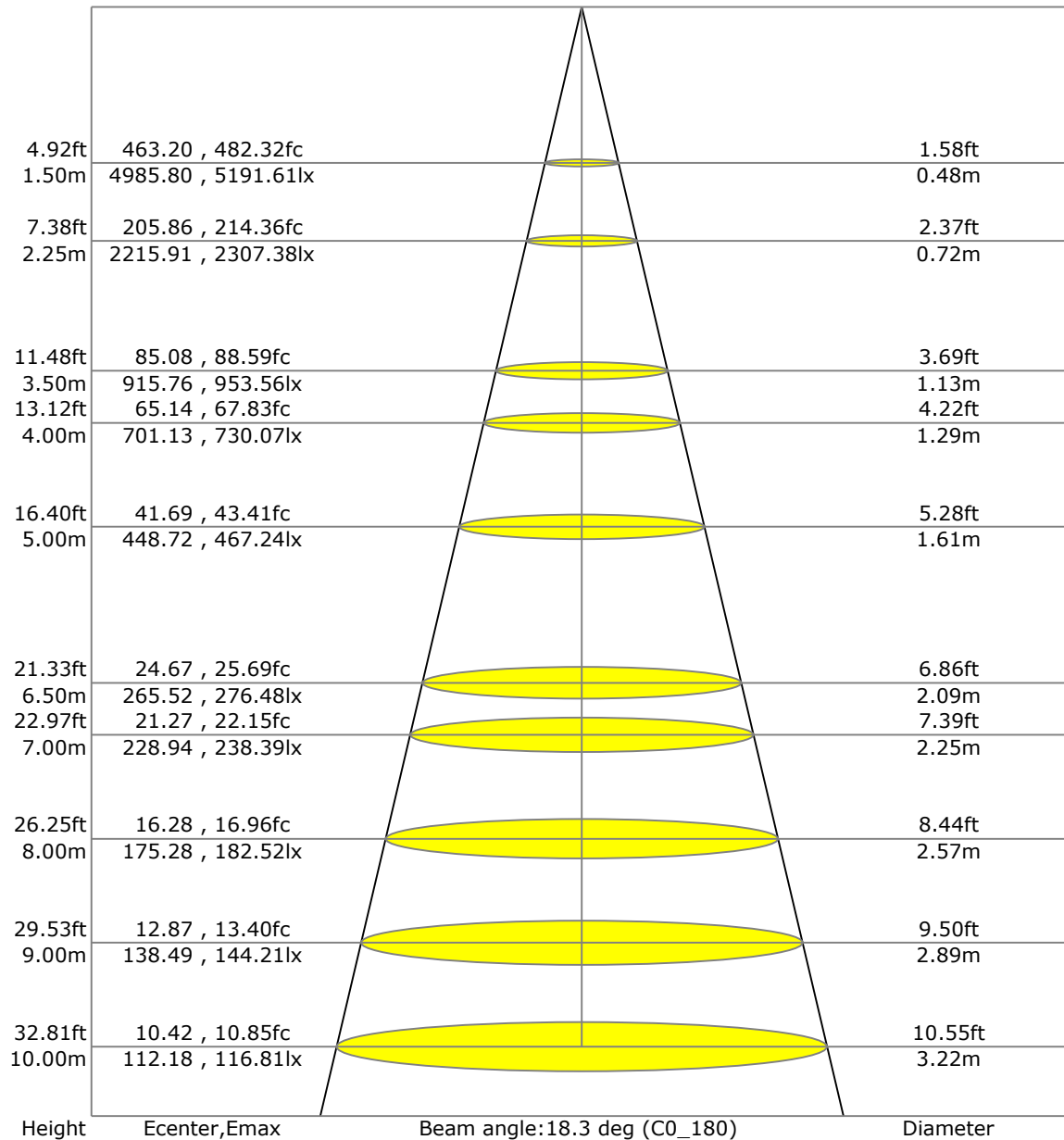
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	5.01	5.07	5.21	5.26	5.50	5.25	5.31	5.45	5.50	5.74
	3H	5.03	5.09	5.23	5.28	5.53	5.26	5.32	5.46	5.51	5.76
	4H	5.01	5.08	5.22	5.27	5.52	5.24	5.31	5.45	5.50	5.75
	6H	5.00	5.06	5.21	5.26	5.51	5.23	5.29	5.44	5.49	5.74
	8H	4.99	5.05	5.21	5.26	5.51	5.22	5.28	5.44	5.49	5.74
	12H	4.98	5.04	5.20	5.25	5.51	5.21	5.27	5.43	5.48	5.73
4H	2H	5.61	5.67	5.82	5.87	6.12	5.97	6.03	6.18	6.23	6.48
	3H	5.61	5.68	5.84	5.88	6.14	5.96	6.03	6.19	6.23	6.49
	4H	5.59	5.66	5.82	5.87	6.13	5.94	6.01	6.17	6.22	6.48
	6H	5.57	5.63	5.81	5.86	6.12	5.92	5.99	6.16	6.21	6.47
	8H	5.56	5.62	5.80	5.85	6.12	5.91	5.97	6.15	6.20	6.47
	12H	5.54	5.61	5.79	5.84	6.11	5.90	5.96	6.15	6.19	6.46
8H	4H	5.59	5.65	5.80	5.85	6.11	5.95	6.01	6.17	6.21	6.47
	6H	5.53	5.59	5.79	5.83	6.10	5.88	5.94	6.14	6.18	6.46
	8H	5.51	5.57	5.78	5.82	6.10	5.87	5.92	6.13	6.17	6.45
	12H	5.50	5.55	5.77	5.81	6.09	5.85	5.91	6.12	6.16	6.44
12H	4H	5.54	5.61	5.79	5.84	6.11	5.90	5.96	6.15	6.19	6.46
	6H	5.51	5.57	5.78	5.82	6.10	5.87	5.92	6.13	6.17	6.45

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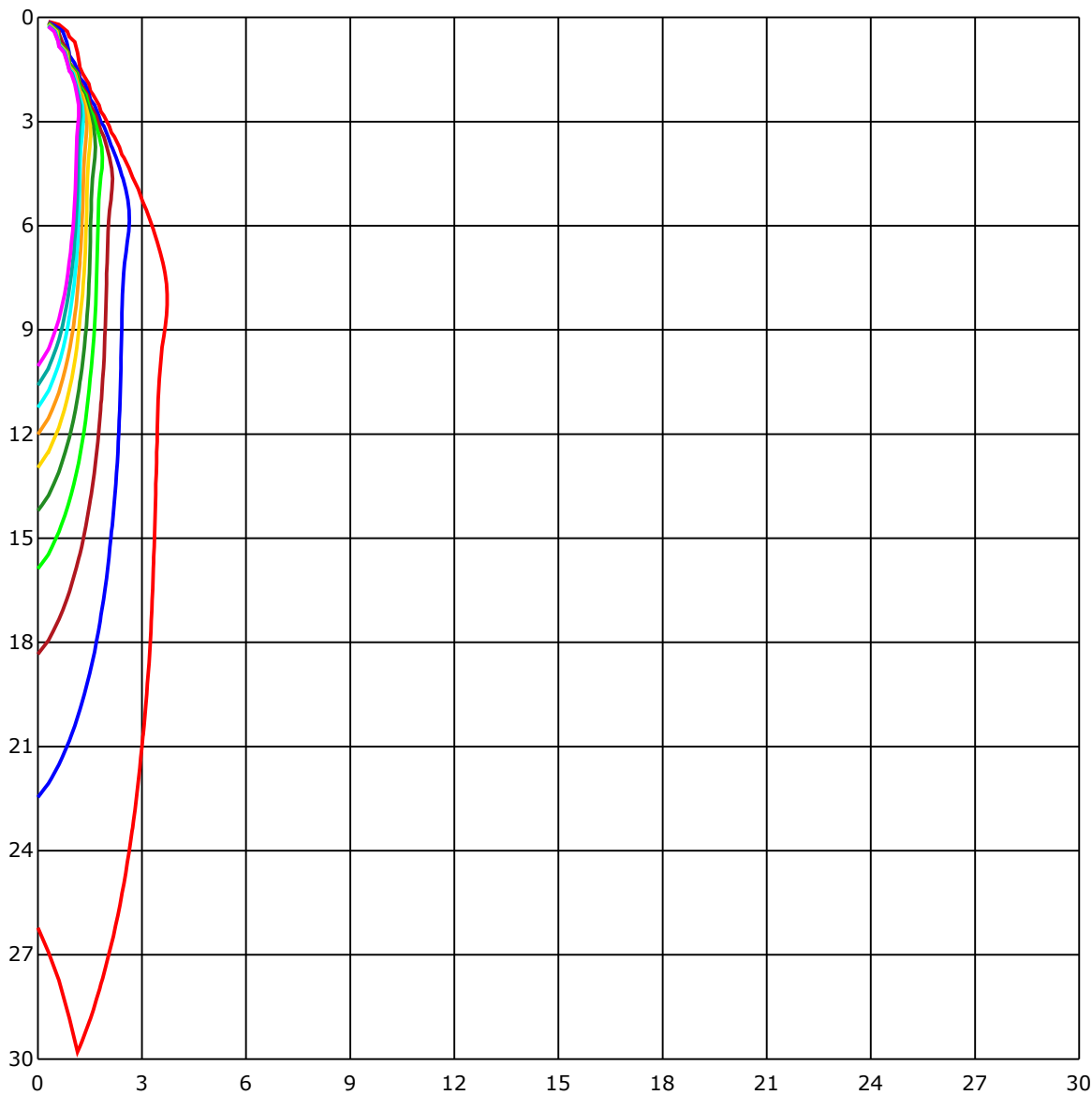
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Humidity: 60
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|---------|--------|
| 111.195 | 55.598 |
| 100.076 | 44.478 |
| 88.956 | 33.359 |
| 77.837 | 22.239 |
| 66.717 | 11.12 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11218.05	10062.32	10774.84	11315.3	11218.05	10062.32	10774.84	11315.3	11218.05	
G1	10725.96	9510.49	10731.24	11286.04	11562.58	10442.04	10620.13	11138.66	10725.96	
G2	10046.83	8864.93	10496.58	11086.21	11681.12	10643.22	10264.14	10754.39	10046.83	
G3	9295.95	8136.04	10082.21	10605.84	11562.4	10664.65	9741.9	10189.11	9295.95	
G4	8453.44	7341.99	9528.71	10038.38	11229.56	10463.61	9156.27	9527.41	8453.44	
G5	7615.19	6554.98	8870.87	9332.26	10723.41	10124.64	8459.98	8776.03	7615.19	
G6	6728.8	5799.75	8146.47	8572.62	10054.29	9615.48	7694.82	7966.16	6728.8	
G7	5908.13	5092.0	7363.13	7735.9	9317.84	9007.82	6896.91	7126.24	5908.13	
G8	5132.03	4457.07	6607.34	6927.01	8513.45	8281.15	6144.79	6315.92	5132.03	
G9	4462.17	3904.13	5838.75	6106.2	7630.17	7543.54	5418.31	5535.82	4462.17	
G10	3877.27	3404.33	5126.69	5358.99	6798.18	6776.75	4766.44	4839.9	3877.27	
G11	3354.11	2971.18	4489.72	4662.05	5977.83	6030.42	4150.01	4186.79	3354.11	
G12	2918.49	2616.77	3920.4	4039.13	5226.96	5279.18	3623.69	3639.27	2918.49	
G13	2560.1	2302.9	3425.57	3506.91	4547.78	4633.07	3145.78	3163.78	2560.1	
G14	2245.62	2037.77	3004.75	3058.78	3947.95	4025.45	2738.32	2782.43	2245.62	
G15	2003.68	1828.24	2644.32	2655.96	3430.81	3513.22	2402.75	2433.91	2003.68	
G16	1786.5	1643.57	2328.5	2342.5	2974.93	3072.37	2127.18	2154.08	1786.5	
G17	1617.0	1491.55	2073.57	2069.35	2631.98	2700.85	1903.23	1919.46	1617.0	
G18	1471.51	1382.47	1860.01	1842.01	2315.23	2371.02	1718.61	1724.22	1471.51	
G19	1362.62	1282.62	1682.53	1665.0	2058.17	2118.04	1565.98	1566.72	1362.62	
G20	1270.71	1203.55	1536.39	1524.29	1850.87	1901.75	1451.25	1447.77	1270.71	
G21	1196.69	1134.55	1418.6	1392.21	1673.57	1724.87	1341.61	1338.46	1196.69	
G22	1140.53	1077.41	1315.27	1294.4	1537.88	1575.72	1256.28	1255.36	1140.53	
G23	1078.75	1019.16	1226.83	1218.63	1417.02	1456.58	1180.23	1189.55	1078.75	
G24	1021.39	960.82	1160.33	1142.57	1320.24	1347.27	1121.24	1127.91	1021.39	
G25	960.54	882.44	1099.95	1084.04	1245.94	1263.61	1066.0	1076.53	960.54	
G26	882.44	789.32	1039.98	1022.78	1176.75	1189.04	1008.59	1014.99	882.44	
G27	790.11	680.52	974.45	955.9	1119.75	1127.91	941.57	945.84	790.11	
G28	680.06	564.07	890.65	886.57	1061.09	1072.17	863.06	870.66	680.06	
G29	565.51	445.91	786.45	788.39	992.17	1011.23	767.2	765.99	565.51	
G30	436.91	338.22	671.57	682.01	906.28	942.27	652.74	648.94	436.91	
G31	325.84	248.25	550.95	567.5	806.76	856.66	539.49	530.08	325.84	
G32	235.92	177.2	430.28	450.4	689.94	749.81	422.25	410.47	235.92	
G33	170.94	131.29	326.63	345.32	568.85	633.82	319.72	308.63	170.94	
G34	124.33	99.99	239.16	254.09	446.37	516.68	233.32	228.54	124.33	
G35	94.47	80.32	176.46	181.7	340.31	397.86	168.3	168.67	94.47	
G36	76.38	66.83	136.48	132.59	249.5	299.78	129.9	128.93	76.38	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	63.67	58.53	109.49	99.11	184.35	221.77	99.57	104.72	63.67	
G38	56.16	52.59	90.39	79.44	139.17	165.98	81.44	87.7	56.16	
G39	51.06	49.11	76.2	65.71	109.96	129.2	67.25	75.59	51.06	
G40	48.14	46.19	68.68	57.46	90.48	104.21	58.39	68.03	48.14	
G41	46.61	43.78	62.61	51.29	77.63	87.37	52.54	62.19	46.61	
G42	44.1	41.6	59.18	48.05	69.38	76.38	49.67	58.57	44.1	
G43	43.18	40.12	55.28	45.63	63.67	68.5	46.65	55.42	43.18	
G44	40.76	38.77	52.59	44.29	58.71	62.84	44.15	53.19	40.76	
G45	40.35	37.75	50.36	40.86	56.3	59.45	41.97	50.36	40.35	
G46	38.54	36.41	48.79	39.51	52.87	55.05	39.88	49.21	38.54	
G47	38.4	35.34	46.28	37.1	50.92	52.27	39.0	46.7	38.4	
G48	37.19	34.97	46.28	36.03	47.91	50.69	37.98	46.24	37.19	
G49	36.82	35.29	43.92	34.41	46.89	48.28	36.13	44.43	36.82	
G50	36.08	33.21	42.02	33.16	44.34	46.65	35.06	43.45	36.08	
G51	35.15	33.21	40.72	32.14	43.36	44.89	34.32	42.25	35.15	
G52	34.46	32.0	40.39	31.86	40.86	42.9	34.64	41.41	34.46	
G53	33.95	30.65	37.94	30.28	39.65	41.65	33.07	40.44	33.95	
G54	32.51	29.91	37.24	28.75	38.72	40.3	32.05	39.14	32.51	
G55	33.16	28.52	35.52	28.47	37.61	38.35	31.16	38.21	33.16	
G56	30.61	27.45	34.55	27.45	35.76	37.43	31.03	37.61	30.61	
G57	30.05	25.79	33.25	25.41	34.46	35.85	28.38	36.08	30.05	
G58	28.85	25.23	31.63	24.72	32.46	34.74	27.36	35.2	28.85	
G59	28.24	24.16	29.68	23.56	31.35	32.97	26.3	33.76	28.24	
G60	25.97	21.8	29.03	21.98	29.77	31.07	25.83	33.07	25.97	
G61	25.18	20.31	27.87	19.94	28.57	30.01	24.16	30.98	25.18	
G62	23.0	19.34	25.6	18.83	26.02	28.75	22.12	29.31	23.0	
G63	21.29	16.7	23.84	16.37	24.58	26.81	20.92	28.57	21.29	
G64	19.52	14.7	22.77	14.42	23.74	25.69	18.83	25.97	19.52	
G65	18.27	12.94	20.08	12.61	20.87	24.53	16.88	23.98	18.27	
G66	15.21	10.48	17.67	10.85	19.25	22.68	16.0	22.26	15.21	
G67	14.05	7.51	15.58	8.72	17.3	20.27	13.63	20.03	14.05	
G68	10.25	4.22	13.12	7.37	14.1	17.85	10.81	17.76	10.25	
G69	7.37	1.16	10.71	3.43	12.06	15.3	7.14	14.38	7.37	
G70	3.57	0.0	7.51	0.14	8.39	12.89	4.13	11.59	3.57	
G71	1.99	0.0	3.9	0.0	5.94	9.18	0.97	7.79	1.99	
G72	0.0	0.0	2.97	0.0	3.76	5.98	0.0	4.87	0.0	
G73	0.0	0.0	1.86	0.0	1.67	3.9	0.0	2.92	0.0	

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Test Distance: 6.81 m
Remarks:

Test Time: 2024/10/25 17:20:39

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:20:39

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