

Report No.:

Test Time: 2024/10/25 17:29:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H114-24°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

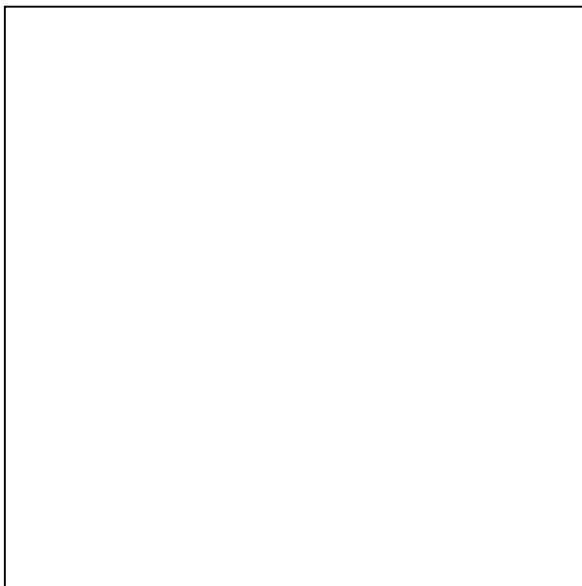
Voltage(V): 219.80 V
Current(A): 0.1170 A
Power(W): 25.33 W
Power Factor: 0.9800
Lamp Luminous Flux: 2153.78

Photometric Results

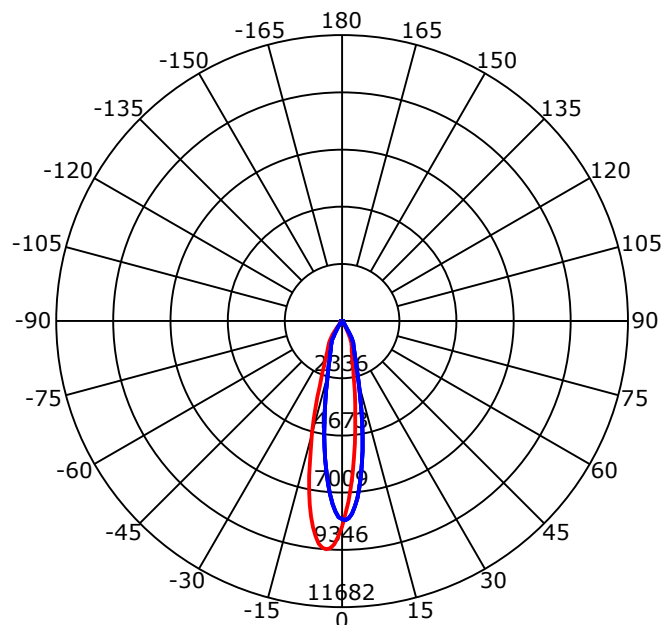
CIE Class: Direct
Luminaire Luminous Flux: 2153.775 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.03 lm/W
Beam Angle(50%) C0-180,C90-270: 21.7,21.7
Field Angle(10%) C0-180,C90-270: 55.7,57.2
S/MH C0-180,C90-270: 0.425,0.389

Max. Intensity: 9345.76 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8392.08 cd
Effective Luminous Flux: 1779.26 lm
ERP(ϕ use)(120deg): 2133.76 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.7 deg,21.7 deg

C0-180 — C90-270 —

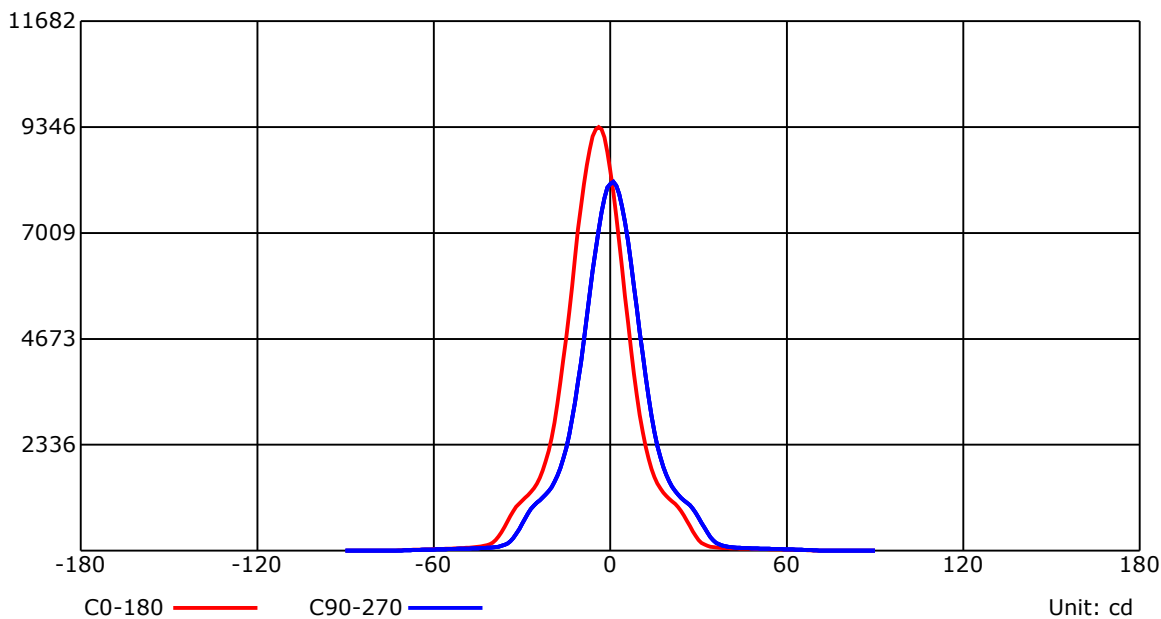
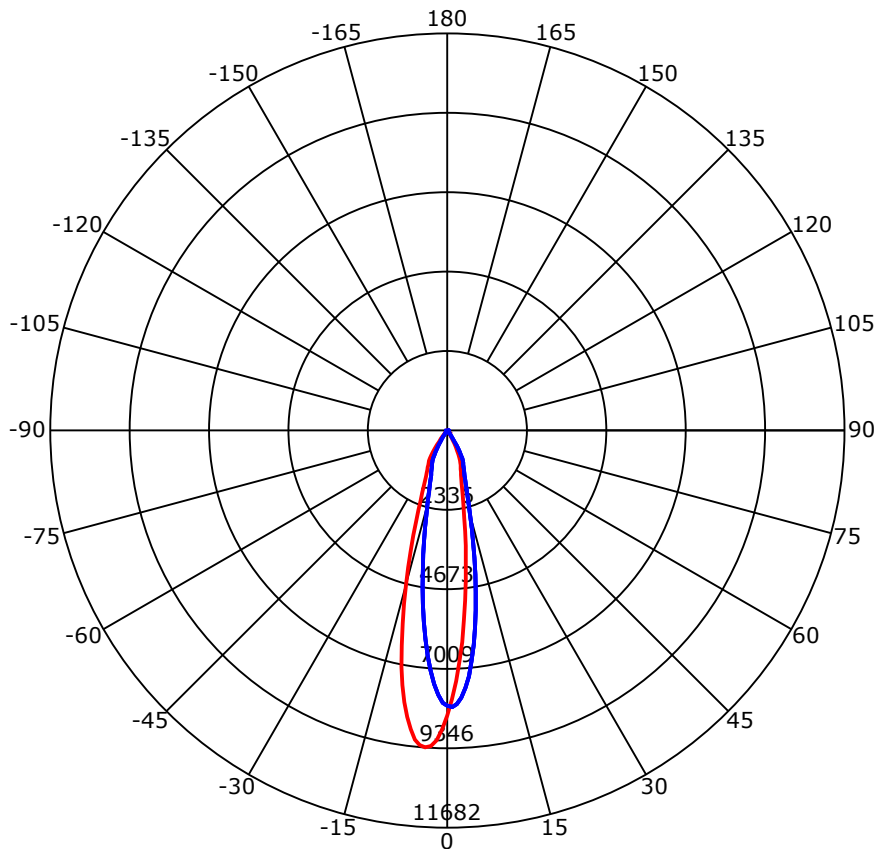
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:29:44

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



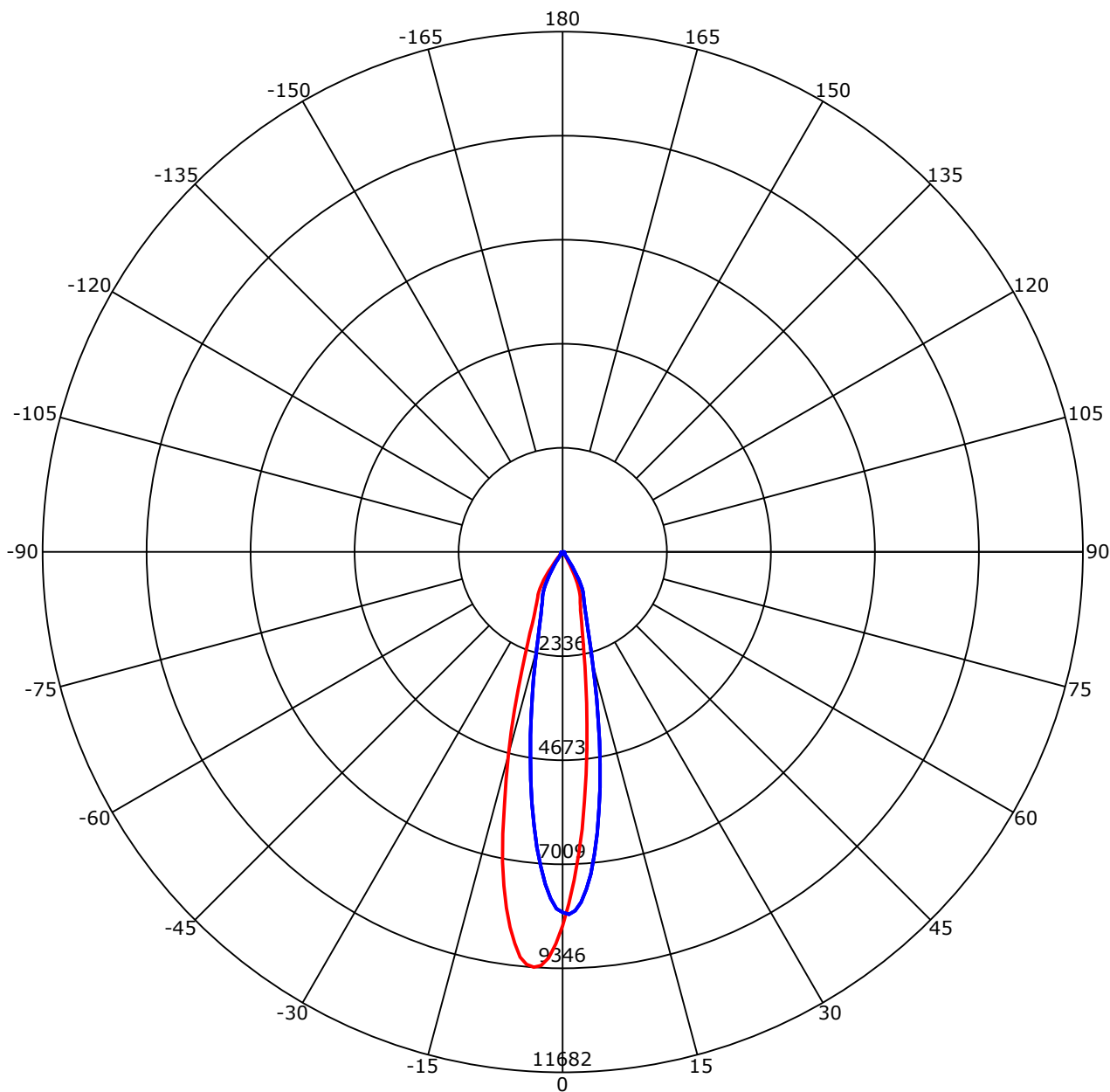
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Remarks:

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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: 2024/10/25 17:29:44

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

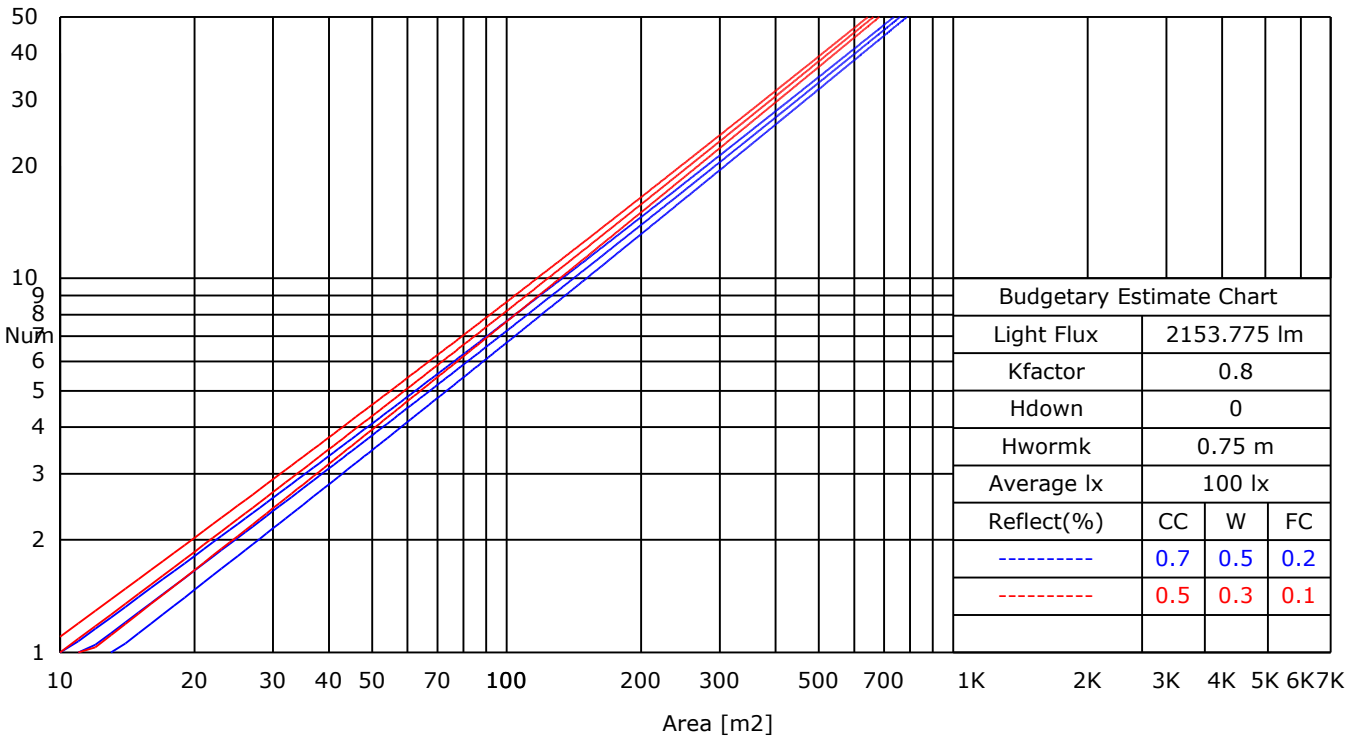
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UTILIZATION FACTORS TABLE

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	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.84	0.80	0.84	0.80	0.76	0.79	0.75	0.71	0.66
2	0.87	0.84	0.82	0.86	0.83	0.80	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.68	0.64
3	0.83	0.81	0.79	0.83	0.80	0.78	0.81	0.77	0.74	0.78	0.74	0.71	0.75	0.70	0.66	0.62
4	0.81	0.78	0.77	0.80	0.77	0.75	0.79	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.63	0.59
6	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.74	0.72	0.71	0.74	0.71	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
8	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55
9	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.54
10	0.69	0.68	0.67	0.69	0.67	0.65	0.67	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



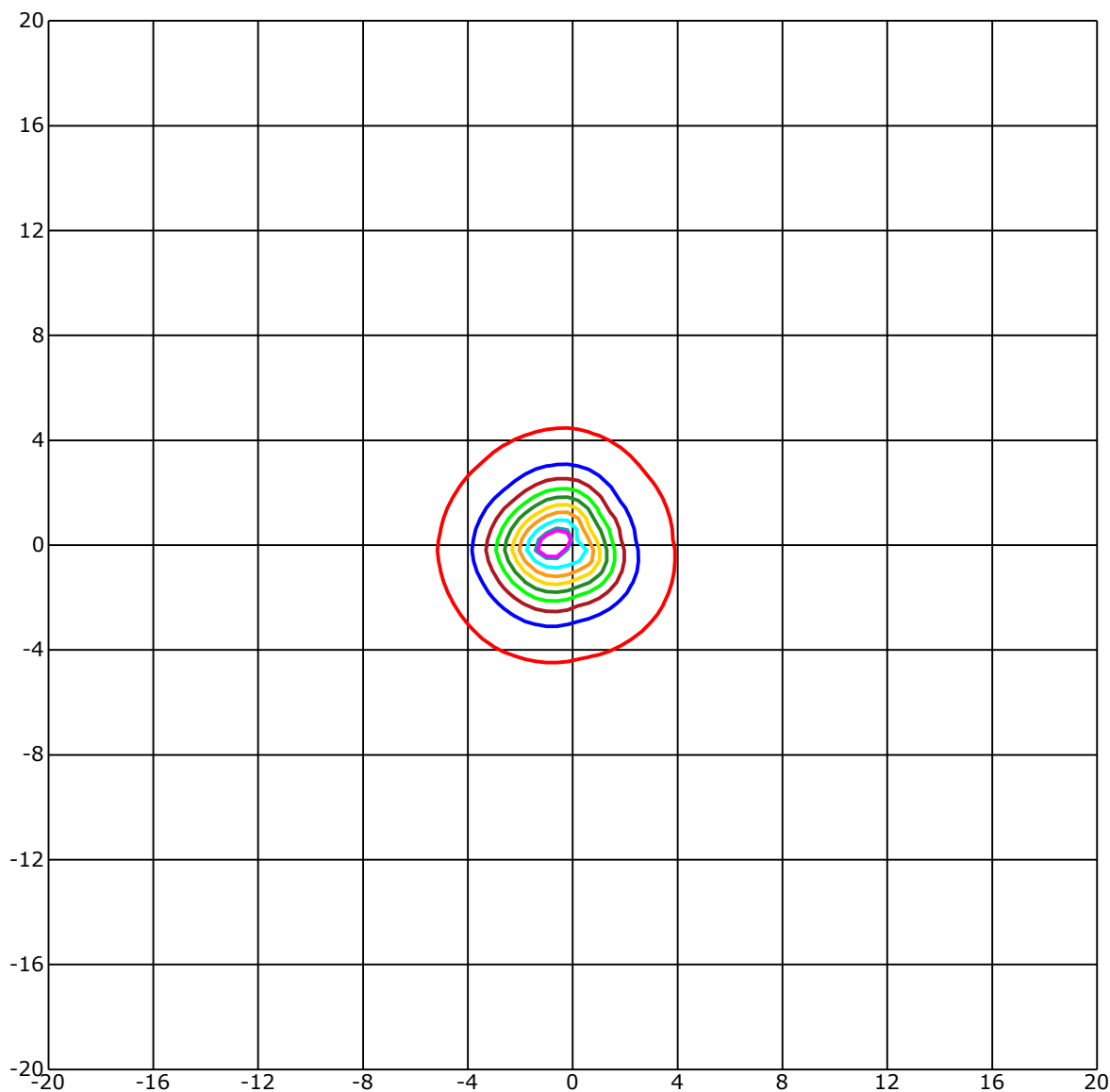
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:29:44

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:29:44

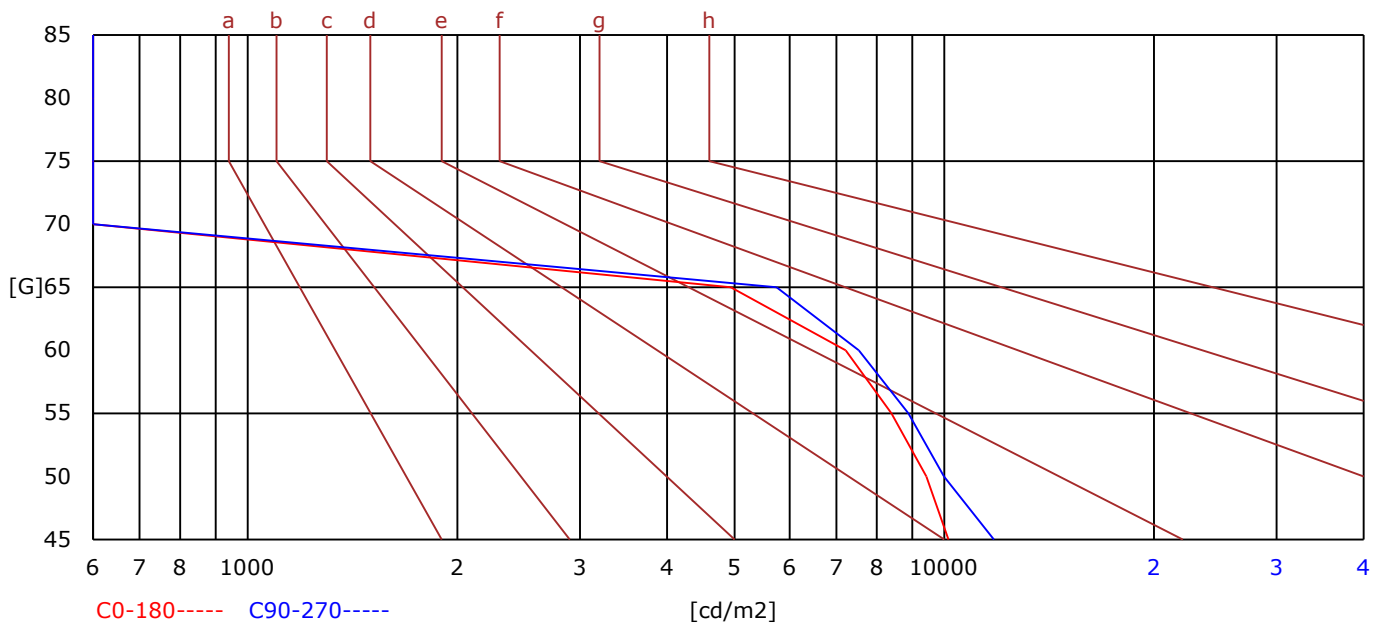
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10135	9424	8401	7217	4938	233	0	0	0
C90	11785	9988	8881	7536	5744	508	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



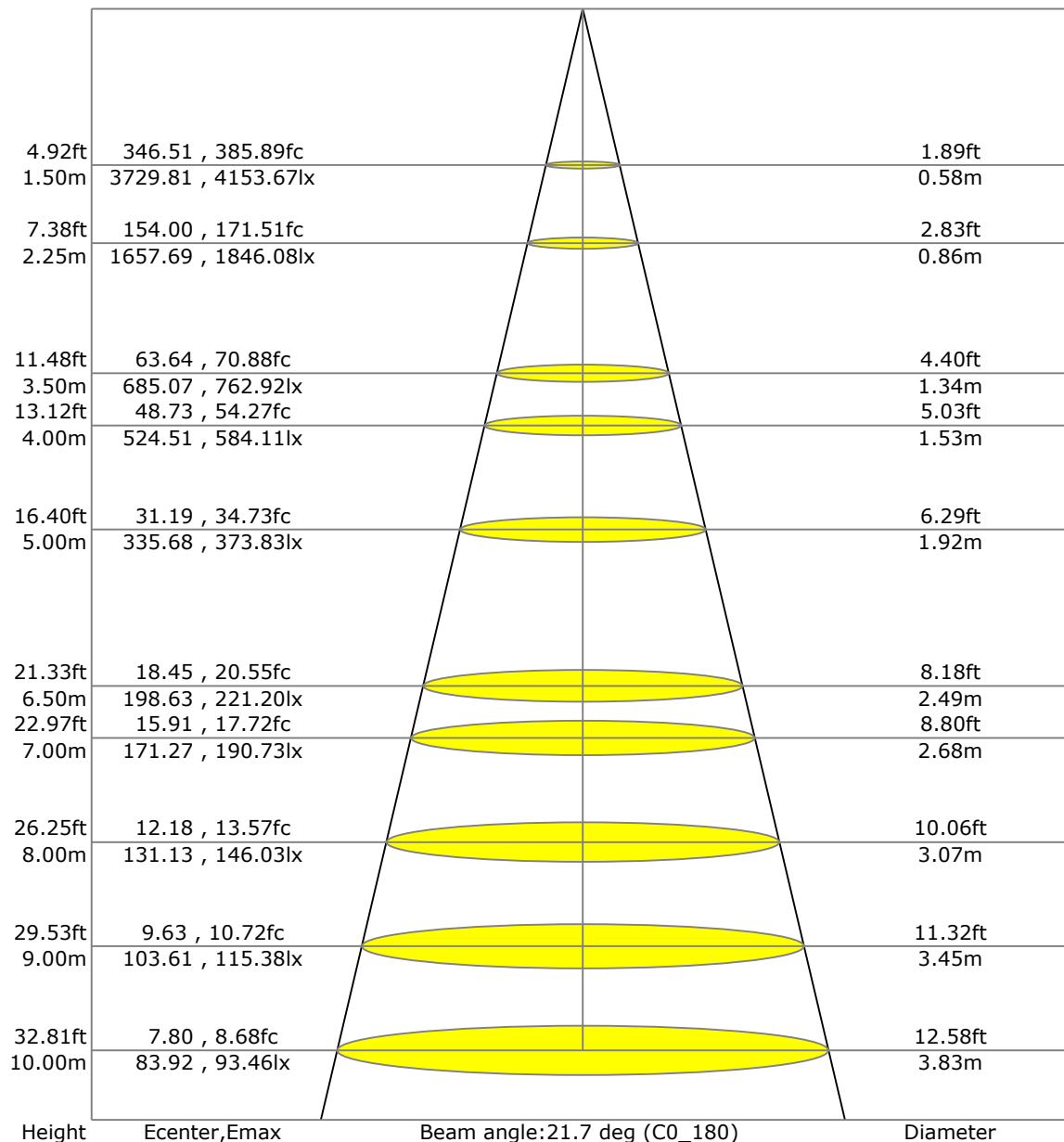
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:29:44

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: 2024/10/25 17:29:44

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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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	5.74	5.80	5.94	5.99	6.23	6.12	6.18	6.32	6.37	6.61
	3H	5.76	5.82	5.97	6.01	6.26	6.12	6.18	6.33	6.38	6.62
	4H	5.74	5.80	5.96	6.00	6.25	6.11	6.17	6.32	6.37	6.62
	6H	5.73	5.79	5.94	5.99	6.24	6.09	6.15	6.31	6.36	6.61
	8H	5.72	5.78	5.94	5.98	6.24	6.09	6.15	6.30	6.35	6.60
	12H	5.71	5.77	5.93	5.98	6.23	6.08	6.14	6.30	6.34	6.60
4H	2H	6.20	6.26	6.41	6.46	6.71	6.73	6.79	6.94	6.99	7.24
	3H	6.21	6.27	6.43	6.47	6.73	6.72	6.78	6.94	6.99	7.24
	4H	6.19	6.25	6.42	6.46	6.72	6.70	6.76	6.93	6.98	7.23
	6H	6.16	6.22	6.40	6.44	6.71	6.68	6.74	6.92	6.96	7.22
	8H	6.15	6.21	6.40	6.44	6.70	6.67	6.73	6.91	6.95	7.22
	12H	6.14	6.20	6.39	6.43	6.70	6.65	6.71	6.90	6.94	7.21
8H	4H	6.18	6.24	6.40	6.44	6.70	6.71	6.77	6.93	6.97	7.23
	6H	6.12	6.18	6.38	6.42	6.69	6.64	6.70	6.90	6.94	7.21
	8H	6.11	6.16	6.37	6.41	6.69	6.62	6.68	6.89	6.93	7.20
	12H	6.09	6.14	6.36	6.40	6.68	6.61	6.66	6.88	6.92	7.20
12H	4H	6.14	6.20	6.39	6.43	6.70	6.65	6.71	6.90	6.94	7.21
	6H	6.11	6.16	6.37	6.41	6.69	6.62	6.68	6.89	6.93	7.20

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

ZONAL LUMINOUS FLUX TABLE

[illegible]

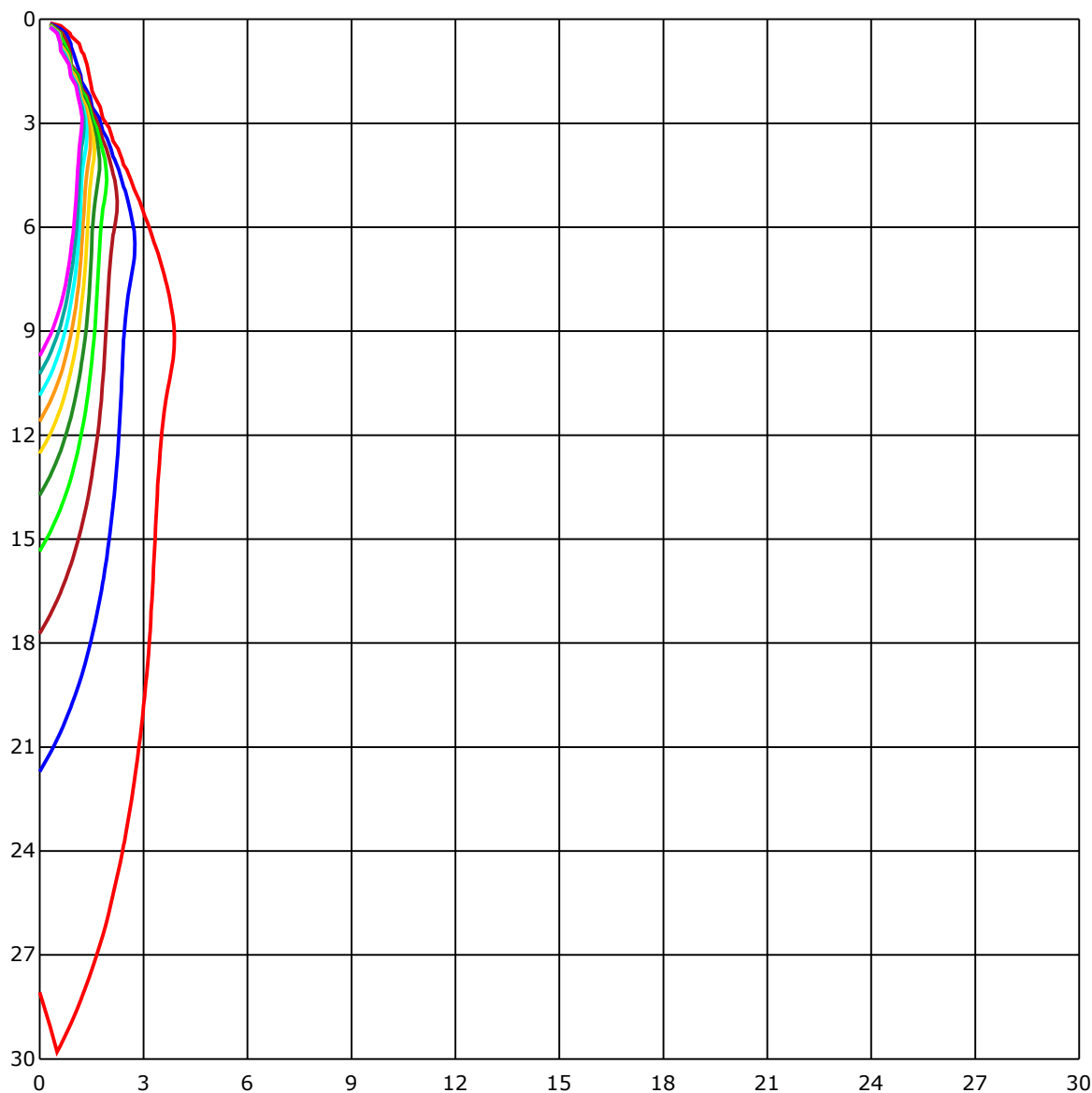
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

89.063

80.156

71.25

62.344

53.438

44.531

35.625

26.719

17.813

8.906

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: 6.81 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8392.08	7531.15	8091.79	8606.99	8392.08	7531.15	8091.79	8606.99	8392.08	
G1	7900.73	7231.05	8135.76	8726.41	8794.44	7746.11	8009.9	8352.8	7900.73	
G2	7375.75	6877.02	8056.22	8731.6	9120.0	7898.22	7778.94	8032.16	7375.75	
G3	6811.4	6451.98	7873.04	8681.88	9294.65	7894.46	7468.55	7626.27	6811.4	
G4	6241.11	5996.89	7586.9	8491.6	9345.76	7828.61	7079.31	7135.89	6241.11	
G5	5615.54	5491.58	7255.77	8215.39	9294.65	7688.93	6656.92	6616.25	5615.54	
G6	5026.43	4987.1	6814.55	7808.62	9141.24	7429.13	6174.79	6039.47	5026.43	
G7	4445.01	4486.47	6345.41	7328.58	8854.5	7118.55	5670.5	5491.67	4445.01	
G8	3908.25	3992.89	5838.24	6819.19	8505.93	6740.86	5161.61	4912.44	3908.25	
G9	3433.55	3545.92	5355.0	6277.93	8089.85	6311.46	4653.24	4383.15	3433.55	
G10	2999.42	3138.97	4823.63	5716.04	7610.92	5861.15	4163.69	3881.63	2999.42	
G11	2605.97	2746.16	4319.19	5181.42	7080.75	5364.18	3713.38	3401.55	2605.97	
G12	2288.24	2422.92	3831.13	4650.6	6466.68	4912.11	3273.13	2982.22	2288.24	
G13	2028.91	2142.21	3387.64	4138.23	5829.24	4438.94	2908.52	2624.75	2028.91	
G14	1802.18	1913.34	2976.46	3644.05	5254.6	3980.0	2559.13	2313.75	1802.18	
G15	1629.33	1721.62	2620.02	3192.11	4723.5	3526.72	2266.08	2046.58	1629.33	
G16	1482.97	1561.07	2317.14	2786.32	4194.16	3127.19	2021.53	1827.59	1482.97	
G17	1370.92	1437.66	2060.3	2443.79	3702.85	2777.7	1815.81	1656.55	1370.92	
G18	1282.76	1329.37	1848.04	2157.97	3245.68	2457.84	1652.43	1512.88	1282.76	
G19	1206.43	1242.93	1673.2	1927.34	2824.44	2193.22	1517.57	1406.36	1206.43	
G20	1142.71	1178.37	1531.25	1735.21	2488.91	1969.59	1400.56	1312.72	1142.71	
G21	1087.52	1116.6	1414.75	1587.96	2204.95	1781.03	1316.71	1236.43	1087.52	
G22	1029.64	1061.97	1314.58	1463.58	1963.75	1627.62	1234.49	1170.25	1029.64	
G23	961.7	1005.34	1235.74	1362.9	1766.79	1501.43	1172.02	1111.54	961.7	
G24	880.13	945.05	1168.12	1272.0	1604.66	1402.69	1113.31	1048.05	880.13	
G25	777.59	860.74	1111.13	1202.67	1479.4	1318.66	1058.12	985.17	777.59	
G26	665.68	764.14	1057.98	1139.23	1378.99	1251.97	994.63	906.7	665.68	
G27	543.99	653.44	1005.3	1082.6	1292.08	1193.26	920.1	810.28	543.99	
G28	426.71	538.1	926.87	1024.4	1226.46	1135.06	818.72	700.65	426.71	
G29	324.22	422.25	834.07	957.76	1164.64	1071.52	708.35	586.33	324.22	
G30	237.86	321.39	729.91	875.21	1105.56	999.59	591.81	468.4	237.86	
G31	173.4	239.07	616.2	775.22	1042.35	904.01	476.7	360.71	173.4	
G32	134.03	177.34	505.5	662.53	968.19	792.85	367.9	272.83	134.03	
G33	107.22	135.97	395.73	549.79	873.17	670.27	277.0	208.0	107.22	
G34	89.51	110.51	300.93	431.67	763.77	552.62	205.03	160.51	89.51	
G35	78.98	91.82	225.85	331.13	647.78	432.92	157.17	130.04	78.98	
G36	71.09	79.63	174.75	243.75	524.51	333.4	126.75	109.59	71.09	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	65.34	70.63	140.29	179.85	406.16	254.98	104.95	95.72	65.34	
G38	61.63	65.67	115.8	137.78	310.35	198.68	89.37	85.38	61.63	
G39	57.27	60.57	98.18	111.44	232.9	160.88	78.89	78.24	57.27	
G40	55.6	56.81	85.56	91.13	180.26	134.44	70.86	73.78	55.6	
G41	53.01	53.61	77.91	77.96	146.27	117.29	65.81	71.05	53.01	
G42	51.15	51.62	71.05	67.85	121.46	103.09	62.42	65.3	51.15	
G43	48.6	49.02	67.48	62.42	104.53	93.82	59.59	62.84	48.6	
G44	47.12	47.67	63.03	56.53	91.92	87.42	55.6	61.59	47.12	
G45	45.36	45.87	60.57	53.33	84.17	81.62	53.24	57.51	45.36	
G46	44.38	44.38	58.2	49.67	77.08	76.89	50.5	55.42	44.38	
G47	41.83	42.57	56.07	48.37	71.7	72.11	49.44	53.1	41.83	
G48	41.83	41.65	52.96	45.59	68.03	68.73	46.52	52.27	41.83	
G49	39.7	39.61	51.34	43.32	62.56	65.11	44.98	50.09	39.7	
G50	38.91	38.77	49.11	41.09	59.32	61.49	43.41	48.09	38.91	
G51	36.45	36.73	47.77	40.21	55.84	57.55	41.83	46.65	36.45	
G52	36.73	36.36	45.26	37.52	53.8	54.35	40.81	44.29	36.73	
G53	34.04	33.95	43.64	36.08	50.13	51.62	38.77	43.36	34.04	
G54	33.34	33.3	41.18	33.85	47.35	48.88	36.45	41.51	33.34	
G55	32.32	30.84	40.53	32.6	45.17	45.68	35.11	39.98	32.32	
G56	30.1	29.91	37.56	30.56	42.99	43.92	33.16	38.58	30.1	
G57	29.31	27.83	37.24	29.96	40.02	40.76	31.21	37.19	29.31	
G58	28.06	26.48	34.27	27.69	38.35	40.07	29.87	35.94	28.06	
G59	26.02	25.04	32.51	26.67	36.31	36.92	28.57	35.38	26.02	
G60	24.49	23.1	29.91	24.12	33.81	35.76	26.34	32.51	24.49	
G61	23.1	21.38	28.61	22.59	32.0	33.02	24.86	31.49	23.1	
G62	21.33	20.68	27.73	20.64	30.89	31.63	23.1	29.5	21.33	
G63	20.31	17.85	24.72	19.2	27.69	28.38	22.03	28.89	20.31	
G64	17.95	16.05	22.45	17.44	25.74	27.45	19.66	26.3	17.95	
G65	16.0	13.36	20.92	15.54	24.39	24.67	18.23	24.63	16.0	
G66	14.28	10.99	18.13	12.34	22.21	22.4	16.42	22.59	14.28	
G67	10.48	8.53	15.4	10.48	19.9	20.17	13.73	20.64	10.48	
G68	7.47	6.12	12.61	7.79	17.95	18.32	10.85	17.81	7.47	
G69	3.76	1.99	10.02	4.54	15.54	16.6	8.49	15.3	3.76	
G70	2.09	0.51	6.21	1.11	13.22	13.54	5.84	11.41	2.09	
G71	0.05	0.0	3.94	0.0	9.23	9.37	2.69	8.49	0.05	
G72	0.0	0.0	1.86	0.0	5.8	6.26	0.65	5.61	0.0	
G73	0.0	0.0	0.6	0.0	3.52	3.8	0.0	4.54	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 17:29:44

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

Remarks: