

Report No.:

Test Time: 2024/7/3 10:19:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT055-50°-8.9W
Lamp Type:
Luminous Width: 50 mm
Luminous Length: 50 mm
Luminous Height: 50 mm

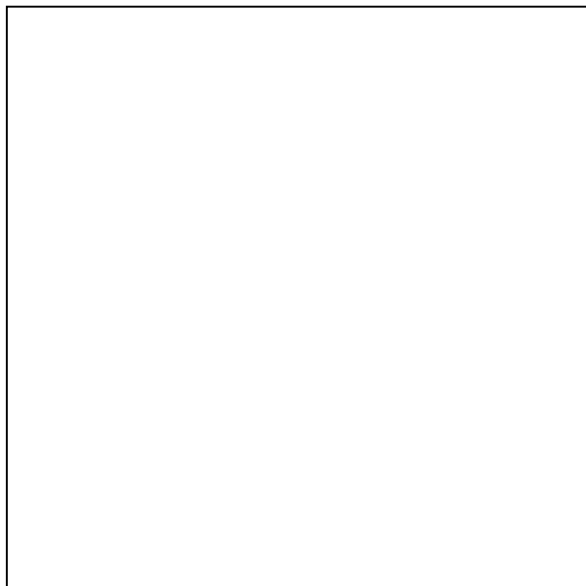
Voltage(V): 219.90 V
Current(A): 0.0430 A
Power(W): 8.91 W
Power Factor: 0.9370
Lamp Luminous Flux: 857.85

Photometric Results

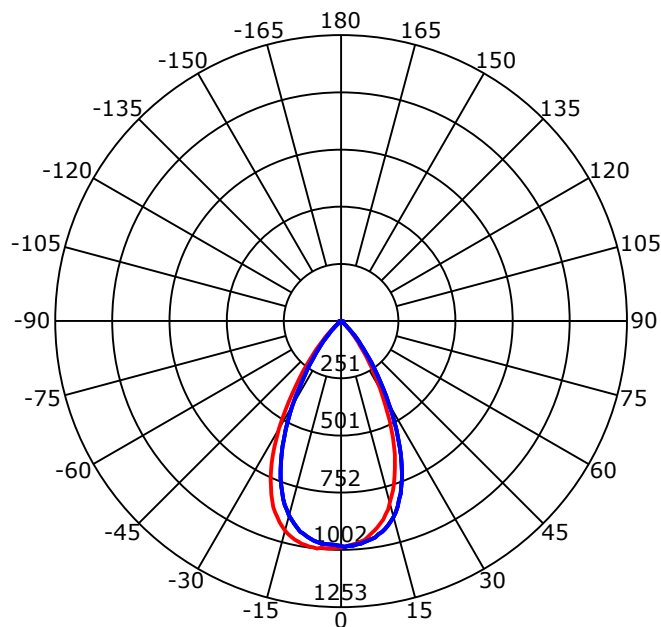
CIE Class: Direct
Luminaire Luminous Flux: 857.8478 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.28 lm/W
Beam Angle(50%) C0-180,C90-270: 56.6,56.1
Field Angle(10%) C0-180,C90-270: 84.5,84.2
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 1002.17 cd
Max.Intensity Angle: C=180 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 991.93 cd
Effective Luminous Flux: 802.11 lm
ERP(ϕ use)(120deg): 845.66 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.6 deg,56.1 deg

C0-180 — C90-270 —

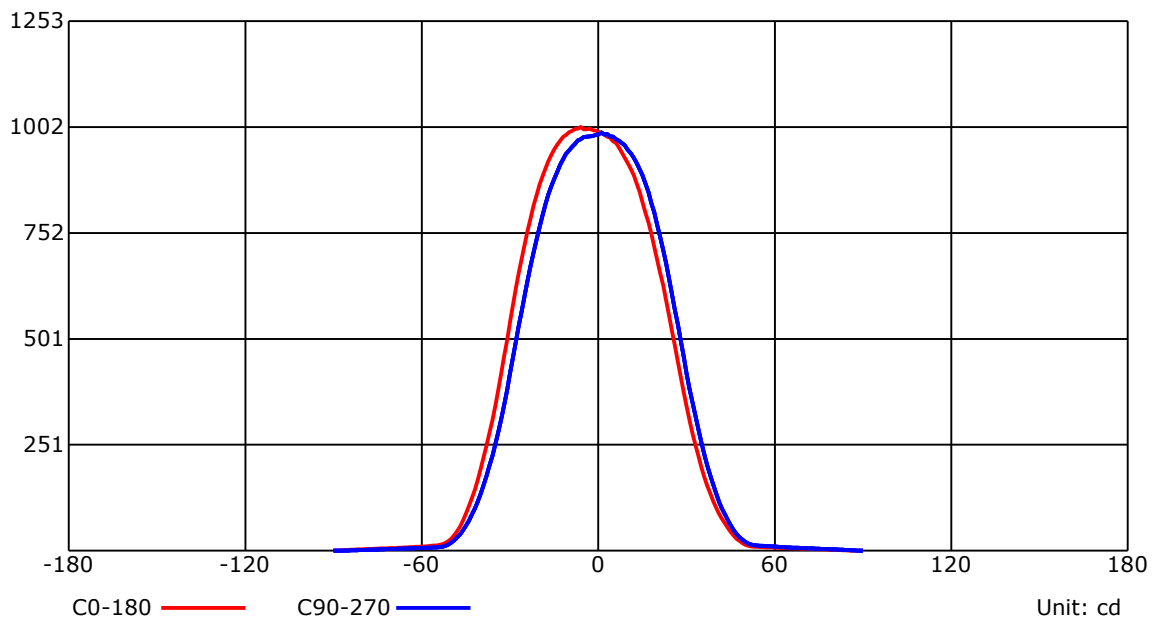
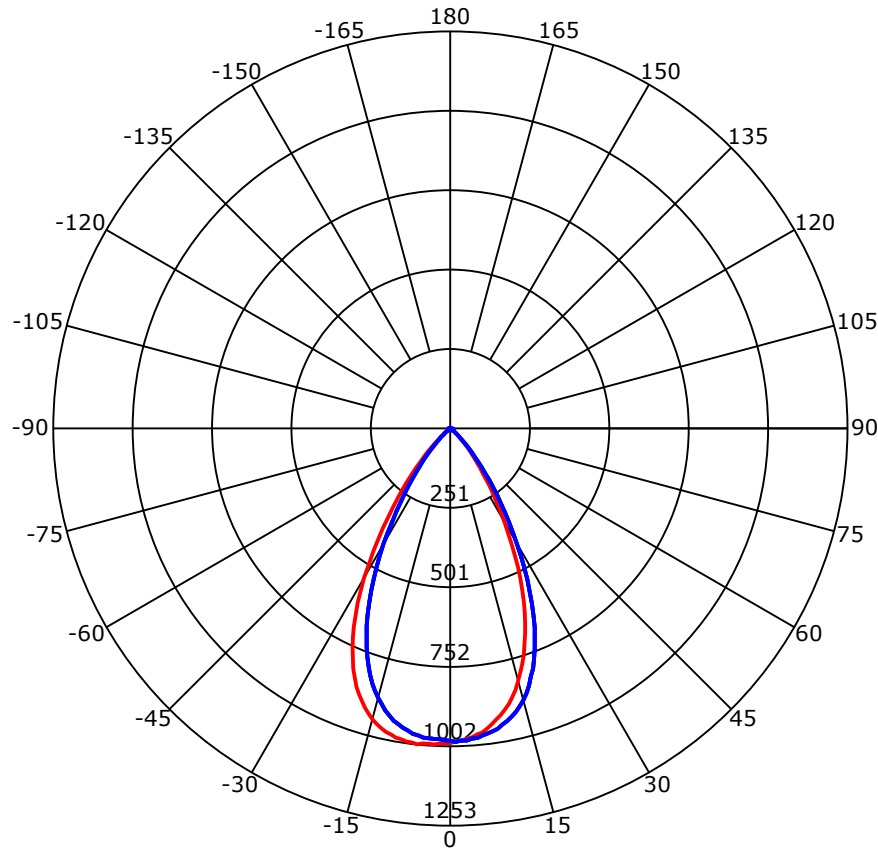
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 10:19:05

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



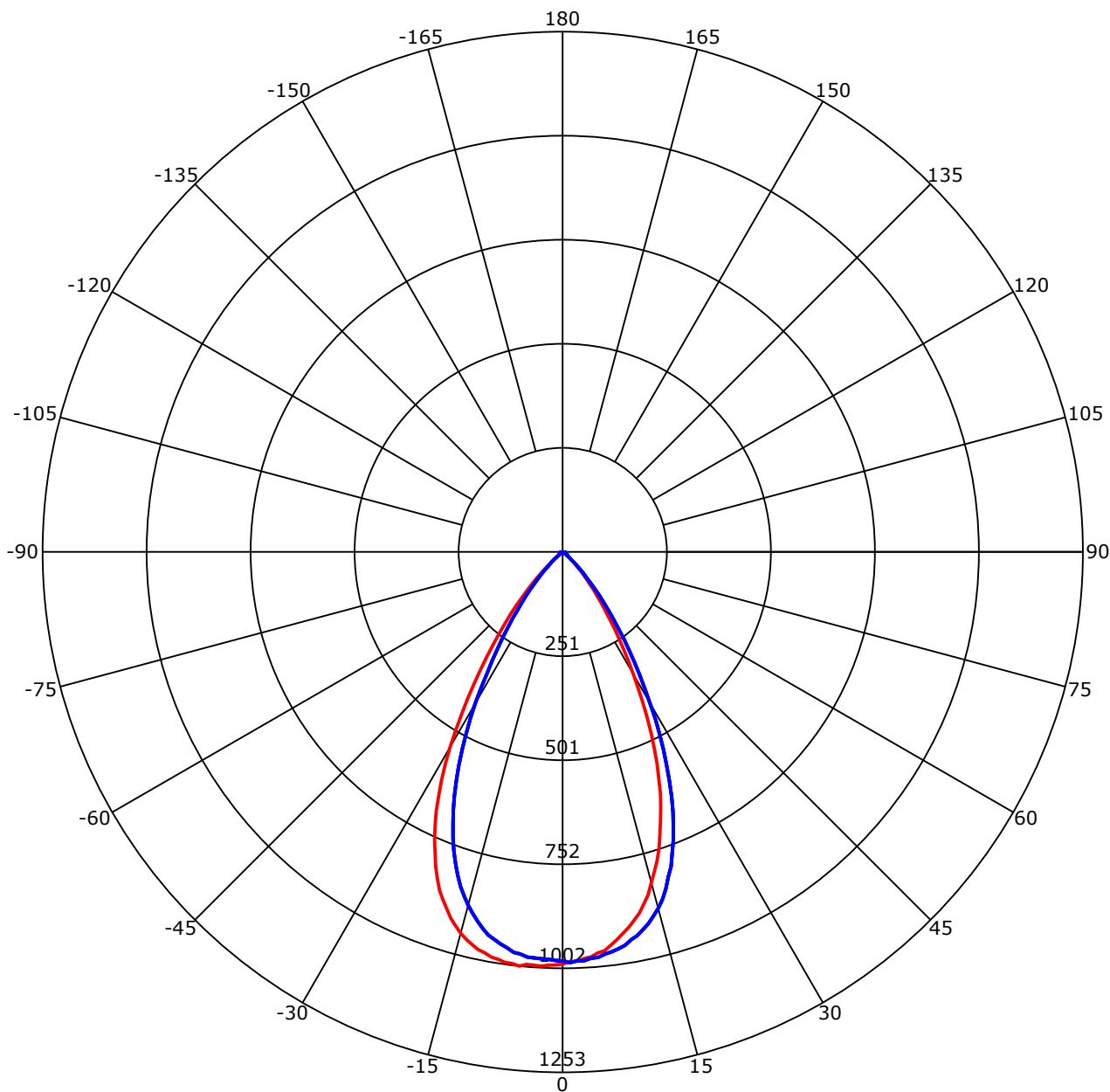
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 10:19:05

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



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: 2024/7/3 10:19:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

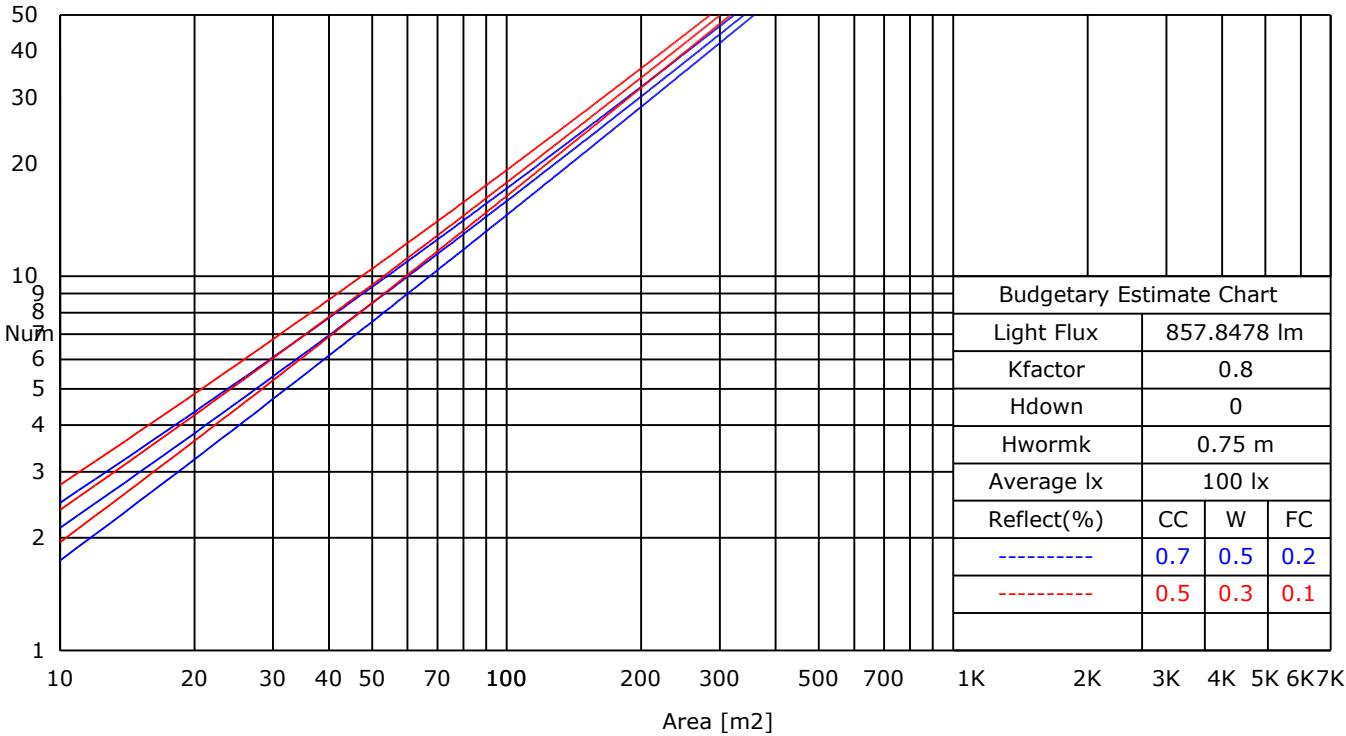
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.87	0.85	0.80
2	1.01	0.99	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.81	0.77
3	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
4	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.71
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.80	0.76	0.74	0.76	0.72	0.69	0.66
7	0.83	0.81	0.80	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
9	0.77	0.76	0.75	0.76	0.75	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.66	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	0.61	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



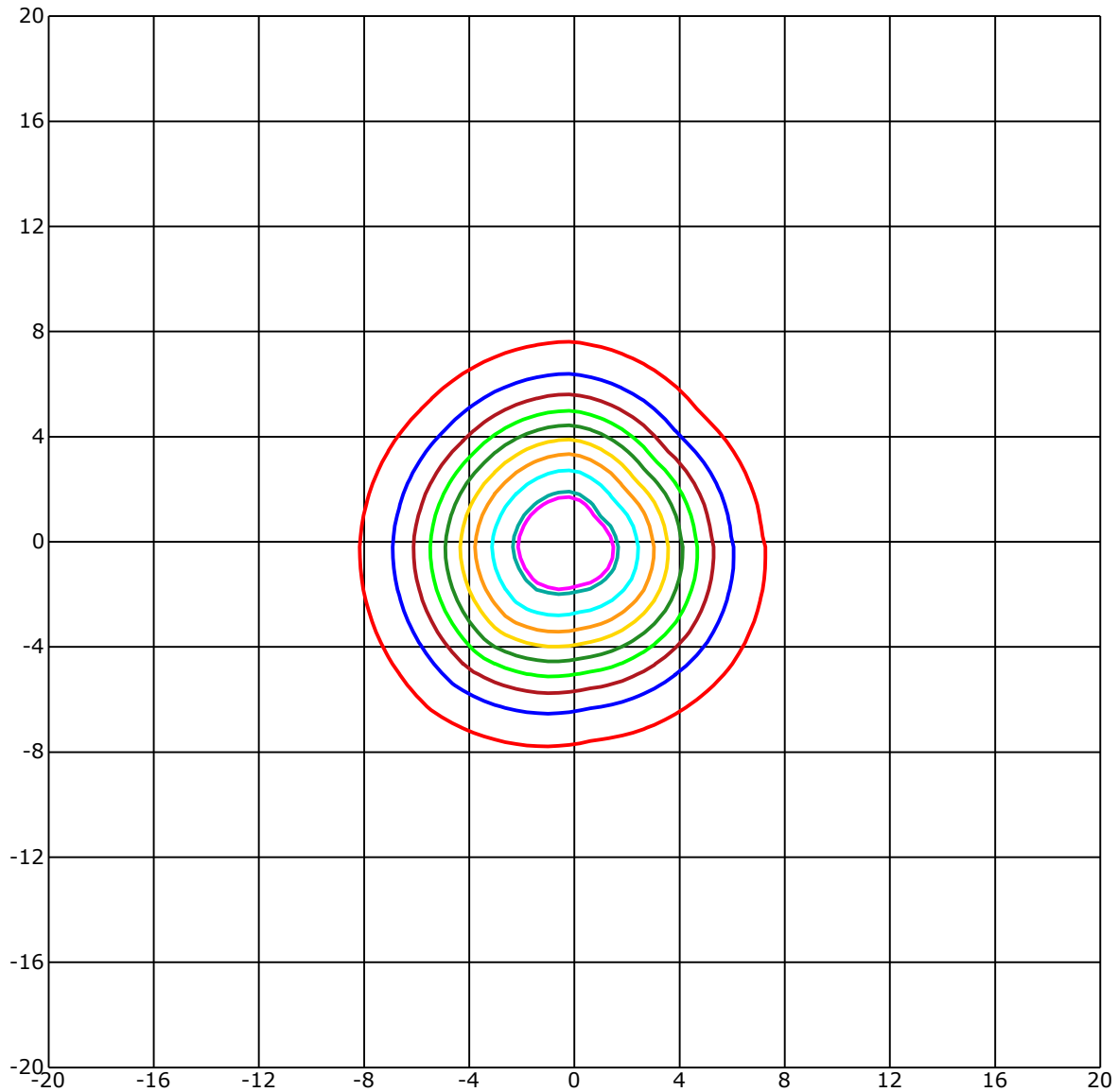
C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

9.146(92%Emax)	4.971(50%Emax)
8.947(90%Emax)	3.976(40%Emax)
7.953(80%Emax)	2.982(30%Emax)
6.959(70%Emax)	1.988(20%Emax)
5.965(60%Emax)	0.994(10%Emax)

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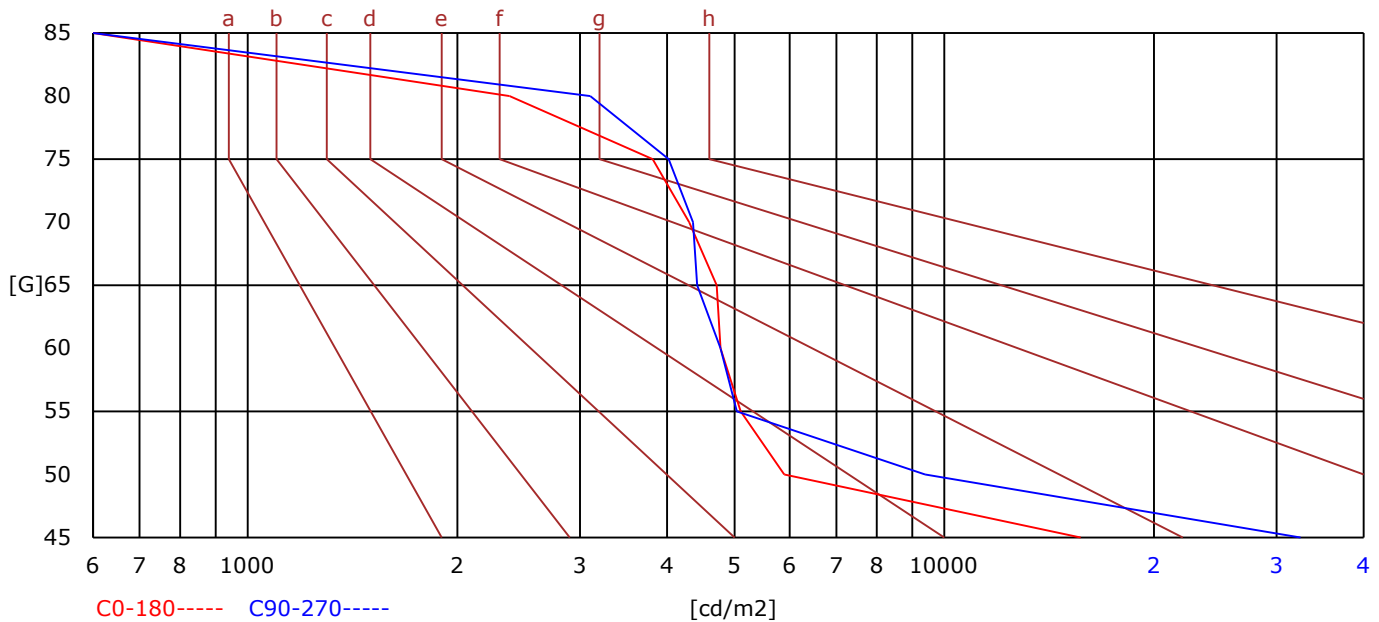
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15693	5894	5103	4776	4716	4305	3816	2378	0
C90	32478	9386	5040	4776	4419	4357	4024	3102	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



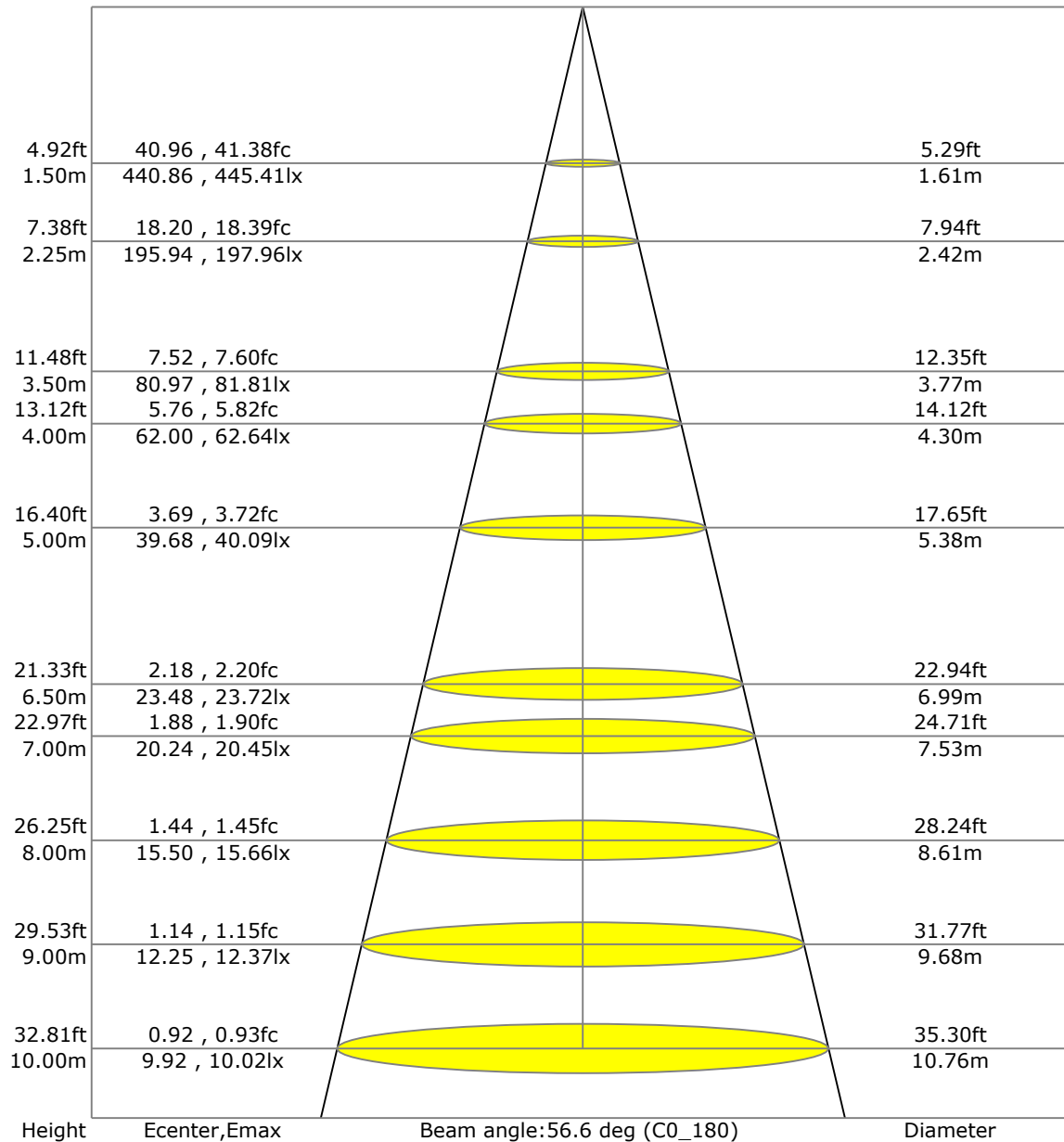
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/7/3 10:19:05

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	14.15	14.20	14.35	14.39	14.63	14.25	14.30	14.45	14.49	14.73
3H	14.14	14.19	14.35	14.38	14.63	14.24	14.29	14.44	14.48	14.73
4H	14.13	14.18	14.34	14.37	14.62	14.22	14.28	14.43	14.47	14.72
6H	14.11	14.16	14.33	14.36	14.61	14.21	14.26	14.42	14.46	14.71
8H	14.10	14.15	14.32	14.36	14.61	14.20	14.25	14.42	14.45	14.70
12H	14.09	14.14	14.31	14.35	14.60	14.19	14.24	14.41	14.44	14.70
4H 2H	14.34	14.39	14.55	14.58	14.83	14.52	14.57	14.73	14.77	15.02
3H	14.35	14.40	14.57	14.60	14.86	14.53	14.58	14.75	14.79	15.04
4H	14.34	14.39	14.57	14.60	14.86	14.52	14.57	14.75	14.78	15.04
6H	14.32	14.37	14.56	14.59	14.85	14.50	14.55	14.74	14.77	15.03
8H	14.31	14.36	14.55	14.58	14.85	14.49	14.54	14.73	14.76	15.03
12H	14.30	14.34	14.54	14.57	14.84	14.48	14.52	14.72	14.75	15.02
8H 4H	14.39	14.44	14.60	14.64	14.89	14.64	14.69	14.86	14.89	15.15
6H	14.39	14.43	14.64	14.67	14.94	14.65	14.70	14.91	14.93	15.21
8H	14.37	14.41	14.63	14.66	14.94	14.64	14.68	14.90	14.92	15.20
12H	14.36	14.40	14.63	14.65	14.93	14.62	14.66	14.89	14.91	15.19
12H 4H	14.40	14.45	14.65	14.68	14.95	14.71	14.76	14.96	14.99	15.26
6H	14.38	14.42	14.64	14.67	14.94	14.69	14.74	14.96	14.98	15.26

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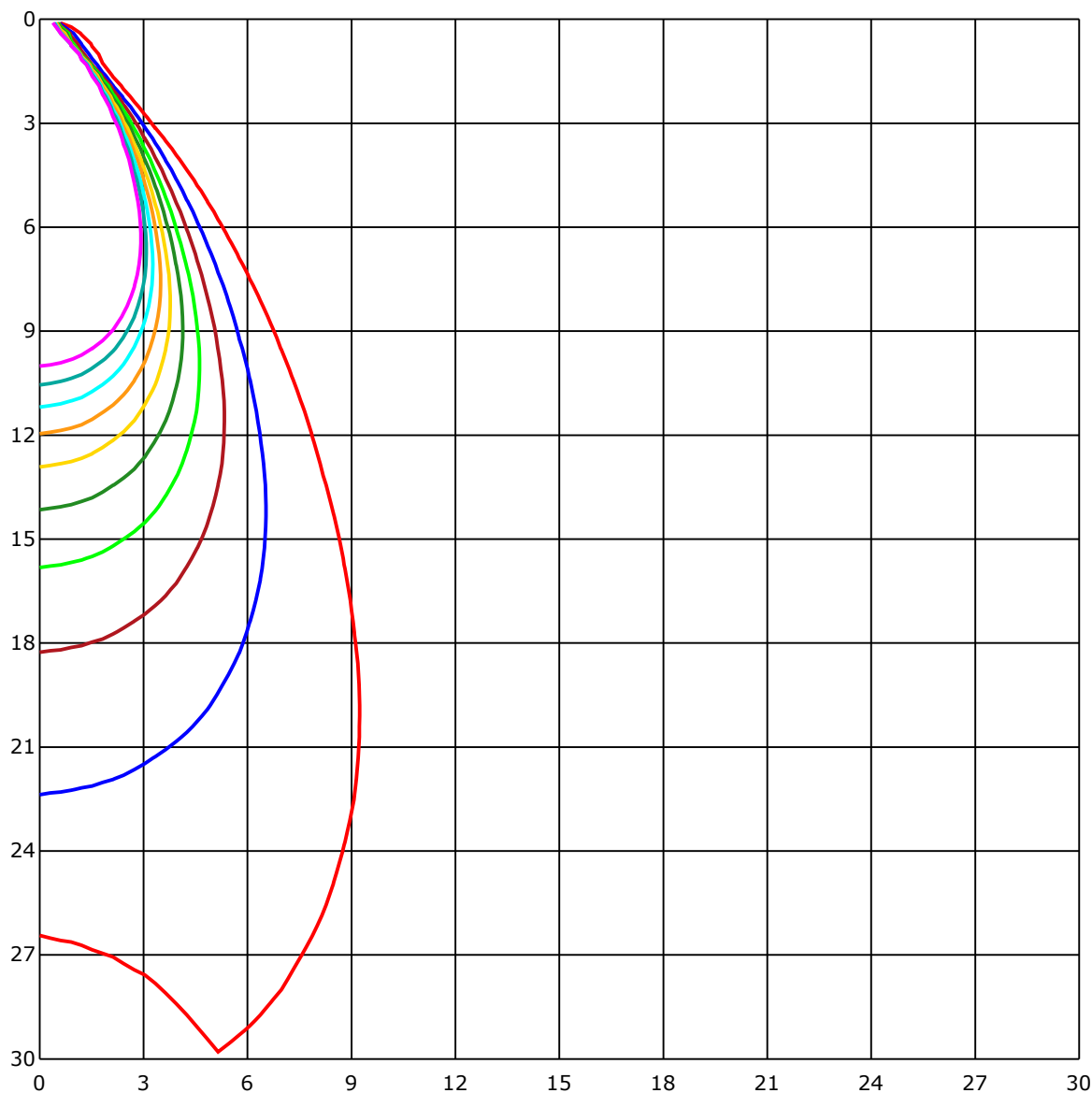
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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: 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	991.93	978.24	984.93	991.71	991.93	978.24	984.93	991.71	991.93	
G1	987.09	973.17	989.02	991.62	994.0	981.07	983.36	989.2	987.09	
G2	985.69	966.75	984.71	993.06	995.44	980.35	980.89	988.93	985.69	
G3	979.68	960.11	985.34	989.78	998.22	984.17	980.35	982.64	979.68	
G4	976.85	952.97	980.31	990.86	997.1	988.03	979.32	982.55	976.85	
G5	969.0	947.63	979.54	986.37	996.83	989.69	978.69	979.1	969.0	
G6	964.69	939.59	973.22	985.6	1002.17	988.93	973.35	978.2	964.69	
G7	953.46	928.01	969.31	982.15	998.22	987.36	970.7	970.16	953.46	
G8	941.88	916.52	964.46	977.21	997.37	987.54	962.4	963.11	941.88	
G9	929.18	905.25	958.72	972.72	992.97	986.46	955.39	953.1	929.18	
G10	917.28	891.16	948.08	966.66	990.05	981.88	946.86	941.3	917.28	
G11	902.74	873.65	940.31	959.57	983.5	980.53	938.96	931.78	902.74	
G12	888.55	855.02	929.27	949.65	978.38	972.77	925.99	921.73	888.55	
G13	868.94	833.74	917.6	935.73	969.94	968.19	912.52	903.1	868.94	
G14	850.17	809.95	902.87	924.37	960.69	960.78	896.18	887.97	850.17	
G15	824.63	785.89	888.28	908.8	949.78	953.55	880.11	871.0	824.63	
G16	800.75	760.21	870.06	890.71	935.82	942.29	861.53	848.56	800.75	
G17	776.78	733.59	848.65	869.07	921.55	930.48	842.63	825.66	776.78	
G18	749.89	701.45	821.98	848.33	903.46	914.36	818.88	802.0	749.89	
G19	719.0	670.48	800.57	824.94	885.77	899.33	792.85	773.05	719.0	
G20	688.88	638.78	771.26	799.18	866.92	877.69	765.87	746.57	688.88	
G21	658.22	603.28	743.69	770.81	842.05	856.77	737.99	717.07	658.22	
G22	627.83	569.12	711.69	740.24	816.95	833.83	705.67	688.88	627.83	
G23	592.68	533.79	680.62	707.69	786.97	808.6	675.1	656.07	592.68	
G24	557.89	496.62	644.62	676.31	758.78	780.5	641.93	624.15	557.89	
G25	521.58	460.44	608.04	639.64	727.22	754.15	606.55	588.82	521.58	
G26	486.83	424.26	571.09	602.65	694.36	725.2	570.33	556.55	486.83	
G27	446.57	388.21	534.95	563.59	658.0	689.24	533.43	519.2	446.57	
G28	410.7	353.01	496.44	523.96	621.82	653.82	495.45	484.95	410.7	
G29	374.79	320.69	459.85	485.58	582.27	616.07	458.33	447.78	374.79	
G30	341.97	287.79	419.14	446.25	543.53	577.96	422.06	410.83	341.97	
G31	308.89	259.78	383.54	407.15	499.85	538.72	382.28	374.43	308.89	
G32	275.76	233.2	349.42	371.69	459.85	498.1	343.99	341.48	275.76	
G33	249.09	208.65	318.32	336.9	419.77	456.94	311.58	307.99	249.09	
G34	224.18	184.77	286.94	304.17	381.52	418.91	281.01	280.47	224.18	
G35	198.14	163.31	257.17	272.71	344.4	382.24	252.82	252.64	198.14	
G36	175.07	141.09	228.85	242.23	309.97	345.29	225.48	226.65	175.07	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	154.83	122.28	203.17	214.13	278.32	312.3	200.57	201.42	154.83	
G38	135.61	105.76	178.44	188.94	248.65	279.08	176.96	178.57	135.61	
G39	117.84	90.59	156.76	164.84	221.08	250.76	155.54	158.19	117.84	
G40	102.66	76.85	136.2	141.9	194.19	223.01	135.3	139.34	102.66	
G41	88.39	65.14	116.85	120.84	168.47	196.57	117.03	122.5	88.39	
G42	75.77	53.91	99.97	102.48	144.77	171.84	100.28	106.39	75.77	
G43	64.33	43.9	85.7	86.01	123.9	149.71	84.71	91.31	64.33	
G44	54.27	35.33	71.91	71.2	105.22	128.03	70.75	78.42	54.27	
G45	44.17	27.74	60.02	57.41	88.16	109.22	59.12	67.25	44.17	
G46	35.78	22.22	49.02	45.34	72.0	92.16	48.62	57.28	35.78	
G47	28.42	17.51	39.28	35.06	57.68	76.36	38.7	48.17	28.42	
G48	22.76	13.78	31.56	26.53	45.56	62.31	30.88	39.32	22.76	
G49	17.91	11.04	25.72	19.84	36.18	50.46	24.33	32.05	17.91	
G50	14.14	9.47	20.69	15.08	28.55	40.13	18.94	26.22	14.14	
G51	11.54	8.53	17.19	11.72	22.71	32.1	14.63	21.37	11.54	
G52	10.01	8.13	14.9	9.34	18.45	25.86	11.4	18.09	10.01	
G53	9.2	7.9	13.42	8.08	15.44	20.87	9.52	15.44	9.2	
G54	8.93	7.5	12.52	7.54	13.69	17.01	8.48	14.14	8.93	
G55	8.44	7.32	11.94	7.23	12.66	14.63	7.9	13.11	8.44	
G56	8.21	7.23	11.4	6.87	12.08	13.11	7.45	12.57	8.21	
G57	7.81	6.91	11.0	6.6	11.31	12.25	7.36	12.17	7.81	
G58	7.63	6.55	10.59	6.33	10.91	11.72	7.0	11.54	7.63	
G59	7.45	6.28	10.19	6.15	10.41	11.36	6.78	11.31	7.45	
G60	7.27	5.97	9.74	5.97	10.01	10.73	6.55	10.82	7.27	
G61	6.91	5.79	9.2	5.61	9.61	10.32	6.37	10.46	6.91	
G62	6.51	5.57	8.75	5.21	9.25	9.88	5.97	9.92	6.51	
G63	6.28	5.48	8.39	4.94	8.62	9.74	5.75	9.56	6.28	
G64	6.11	5.07	7.95	4.71	8.3	9.2	5.43	9.11	6.11	
G65	5.75	4.98	7.77	4.67	7.81	8.8	5.3	8.71	5.75	
G66	5.7	4.58	7.27	4.49	7.45	8.21	5.03	8.48	5.7	
G67	5.39	4.44	7.09	4.17	7.18	7.9	4.8	8.13	5.39	
G68	5.25	4.17	6.78	4.08	6.78	7.59	4.58	7.68	5.25	
G69	4.98	4.04	6.51	3.82	6.51	7.18	4.22	7.45	4.98	
G70	4.71	3.68	6.11	3.73	6.28	6.91	4.08	7.23	4.71	
G71	4.44	3.59	5.88	3.37	5.97	6.64	3.91	6.82	4.44	
G72	4.22	3.32	5.57	3.28	5.79	6.19	3.64	6.51	4.22	
G73	4.0	2.96	5.39	3.1	5.57	6.06	3.41	6.11	4.0	

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Remarks:

Test Time: 2024/7/3 10:19:05

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: