

Report No.:

Test Time: 2025/1/7 18:39:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H113-24°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

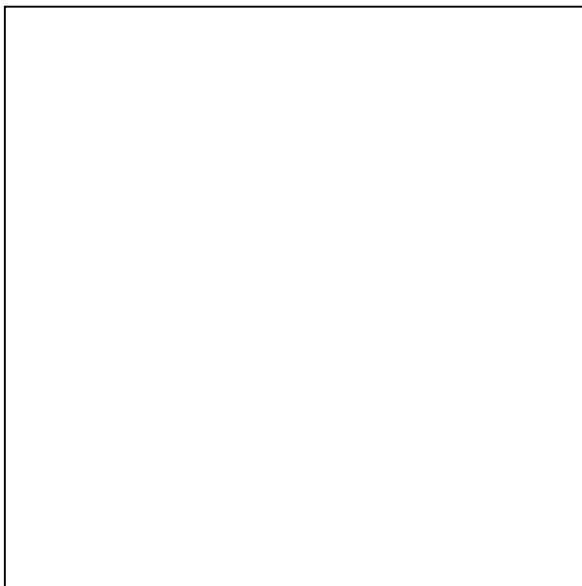
Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.36 W
Power Factor: 0.9520
Lamp Luminous Flux: 1121.85

Photometric Results

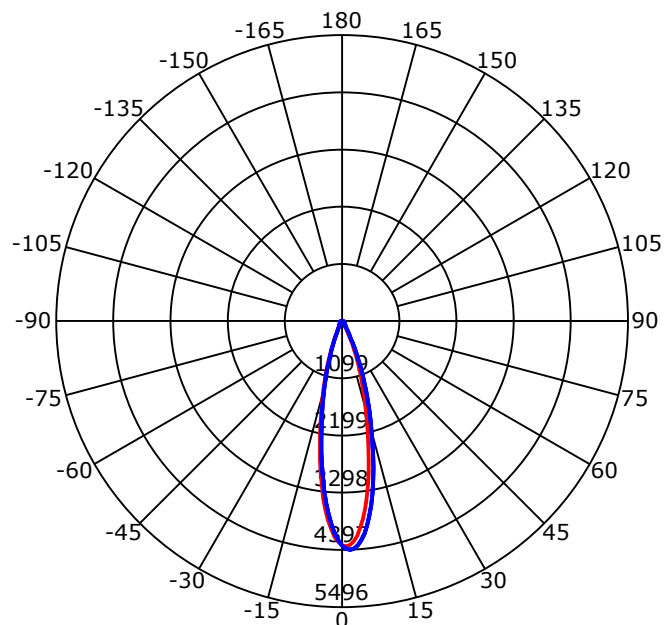
CIE Class: Direct
Luminaire Luminous Flux: 1121.848 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 73.02 lm/W
Beam Angle(50%) C0-180,C90-270: 24.4,25.5
Field Angle(10%) C0-180,C90-270: 46.6,47.7
S/MH C0-180,C90-270: 0.425,0.462

Max. Intensity: 4397.15 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4308.07 cd
Effective Luminous Flux: 883.94 lm
ERP(ϕ use)(120deg): 1096.57 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.4 deg,25.5 deg

C0-180 — C90-270 —

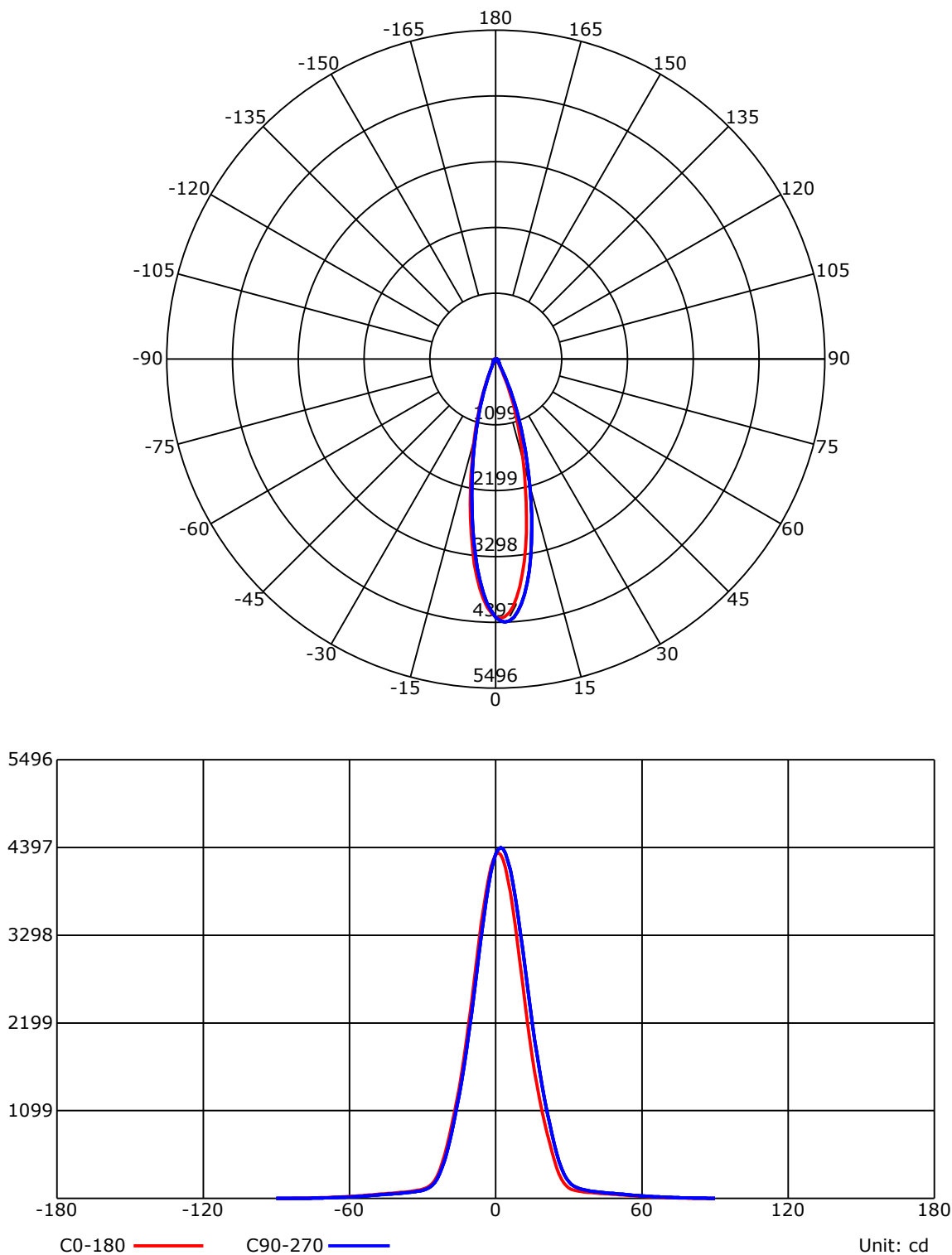
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:39:00

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



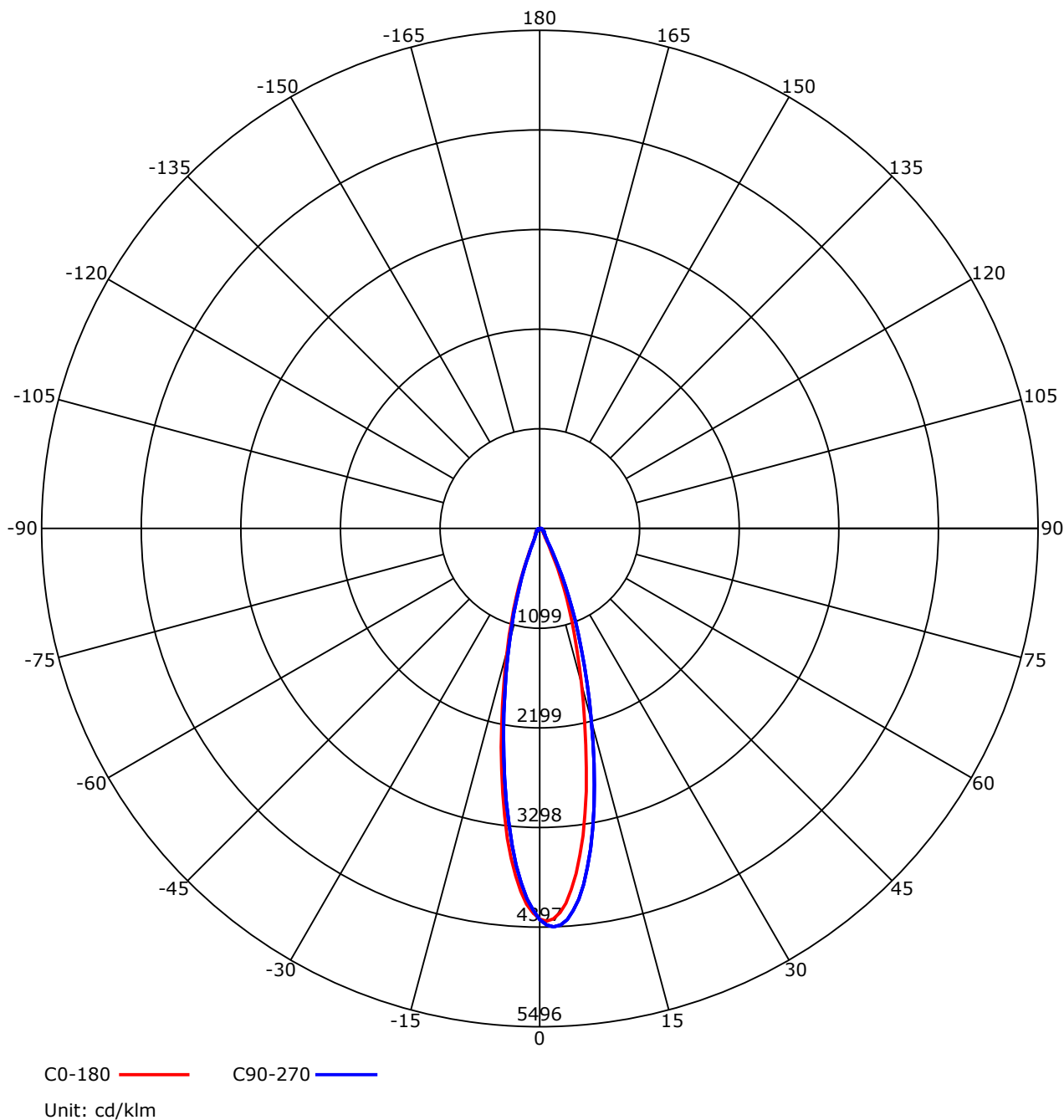
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Luminous Intensity Distribution Curve



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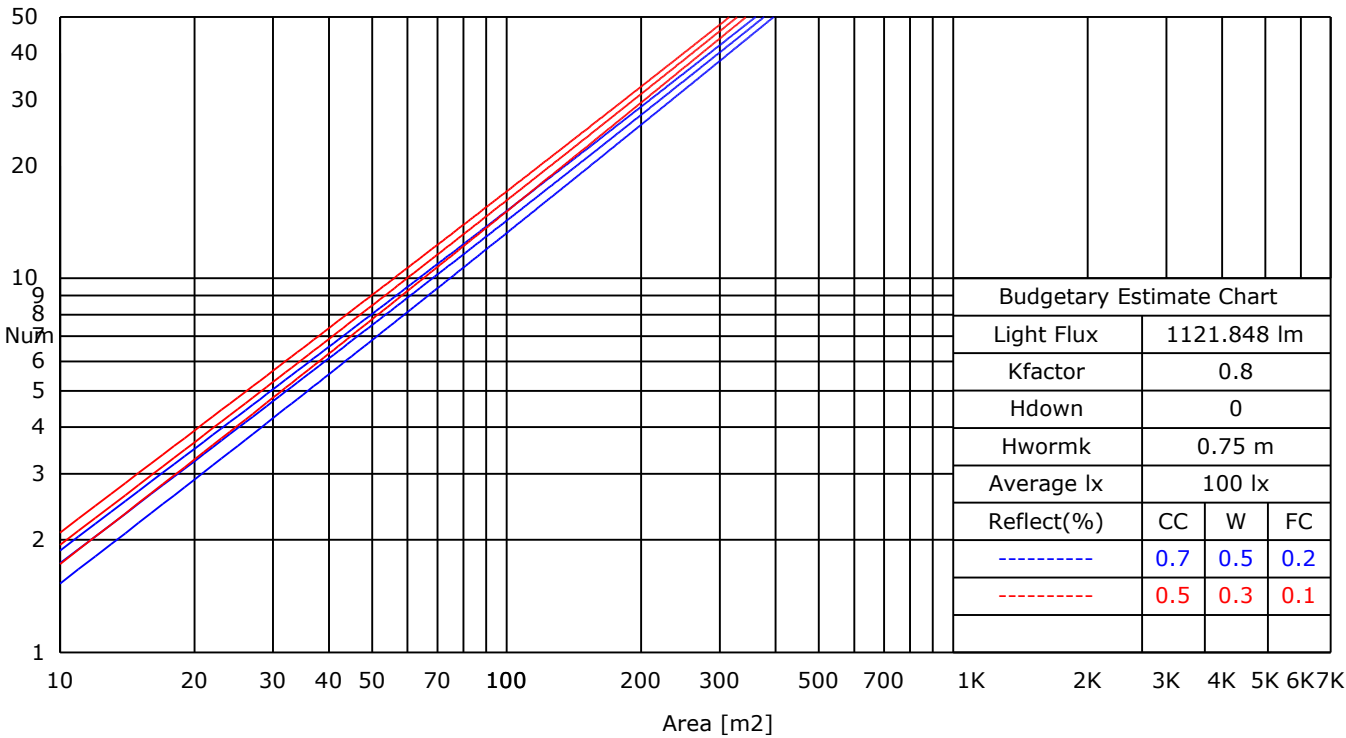
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UTILIZATION FACTORS TABLE

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	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.82	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.64
2	0.85	0.82	0.80	0.84	0.81	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
3	0.81	0.79	0.77	0.81	0.78	0.75	0.79	0.75	0.72	0.77	0.72	0.69	0.73	0.68	0.64	0.60
4	0.78	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.64	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
7	0.72	0.70	0.69	0.72	0.69	0.68	0.70	0.67	0.65	0.69	0.64	0.61	0.66	0.62	0.58	0.54
8	0.71	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	0.57	0.53
9	0.69	0.68	0.67	0.69	0.66	0.65	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
10	0.68	0.66	0.66	0.67	0.65	0.64	0.66	0.63	0.61	0.64	0.61	0.58	0.63	0.58	0.55	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



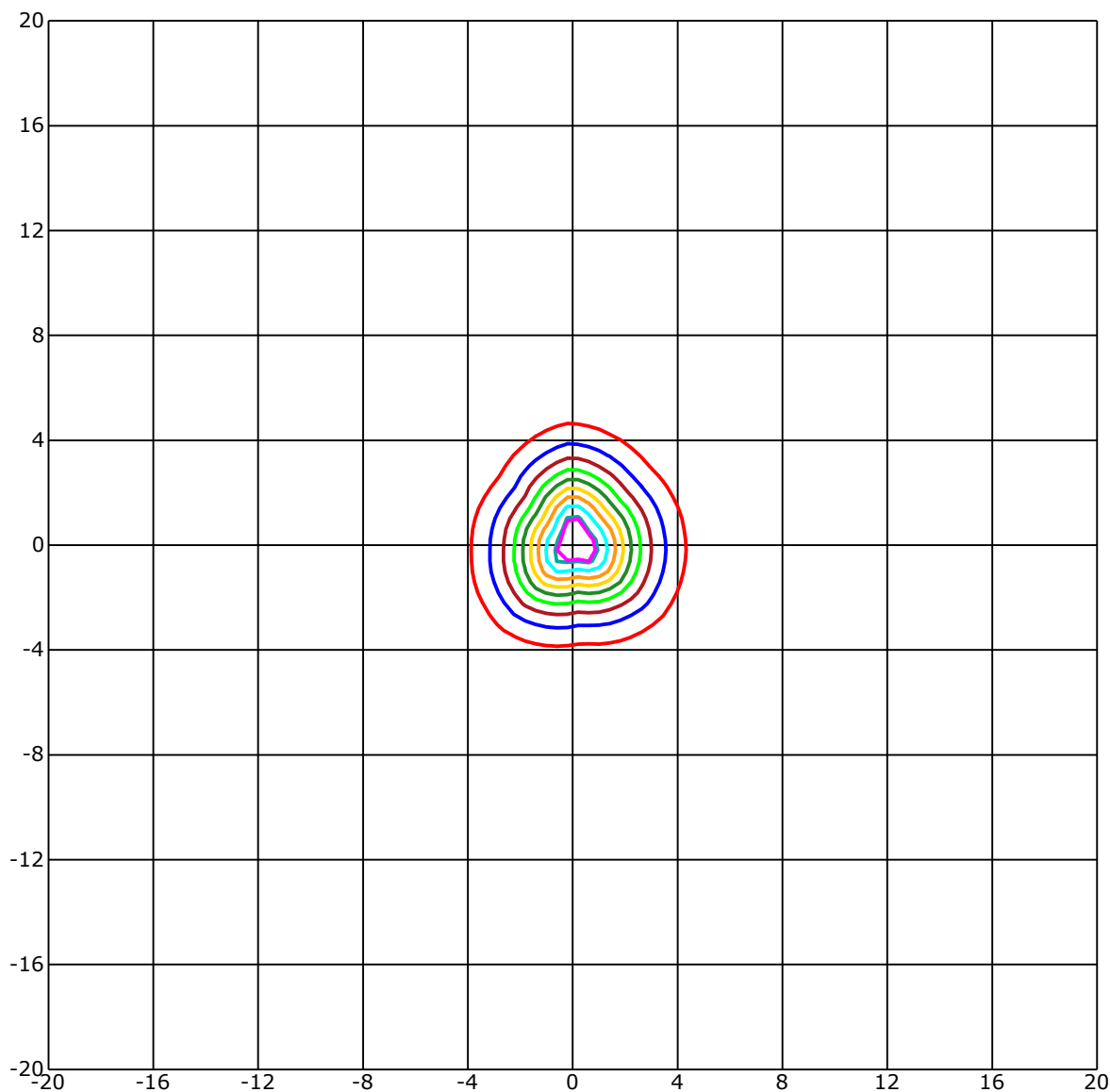
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



40.38(92%Emax)	21.946(50%Emax)
39.502(90%Emax)	17.556(40%Emax)
35.113(80%Emax)	13.167(30%Emax)
30.724(70%Emax)	8.778(20%Emax)
26.335(60%Emax)	4.389(10%Emax)

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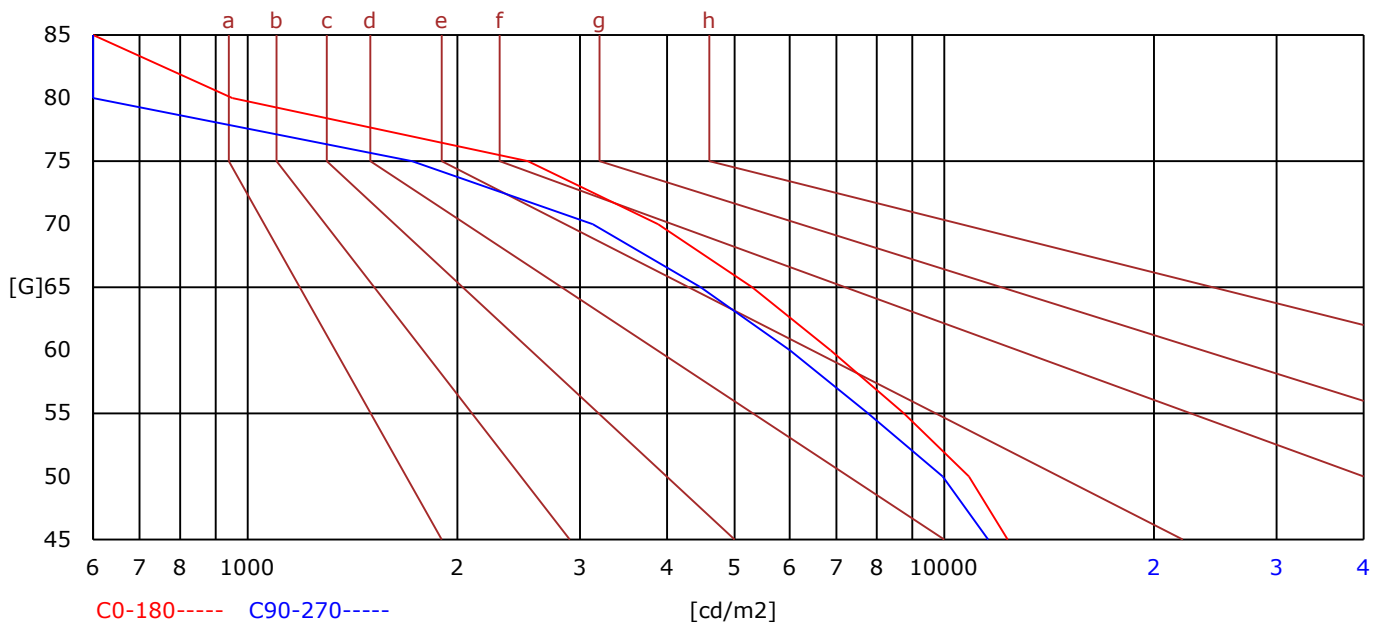
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12331	10850	8753	6867	5303	3885	2525	951	0
C90	11559	9945	7776	6005	4470	3129	1721	207	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



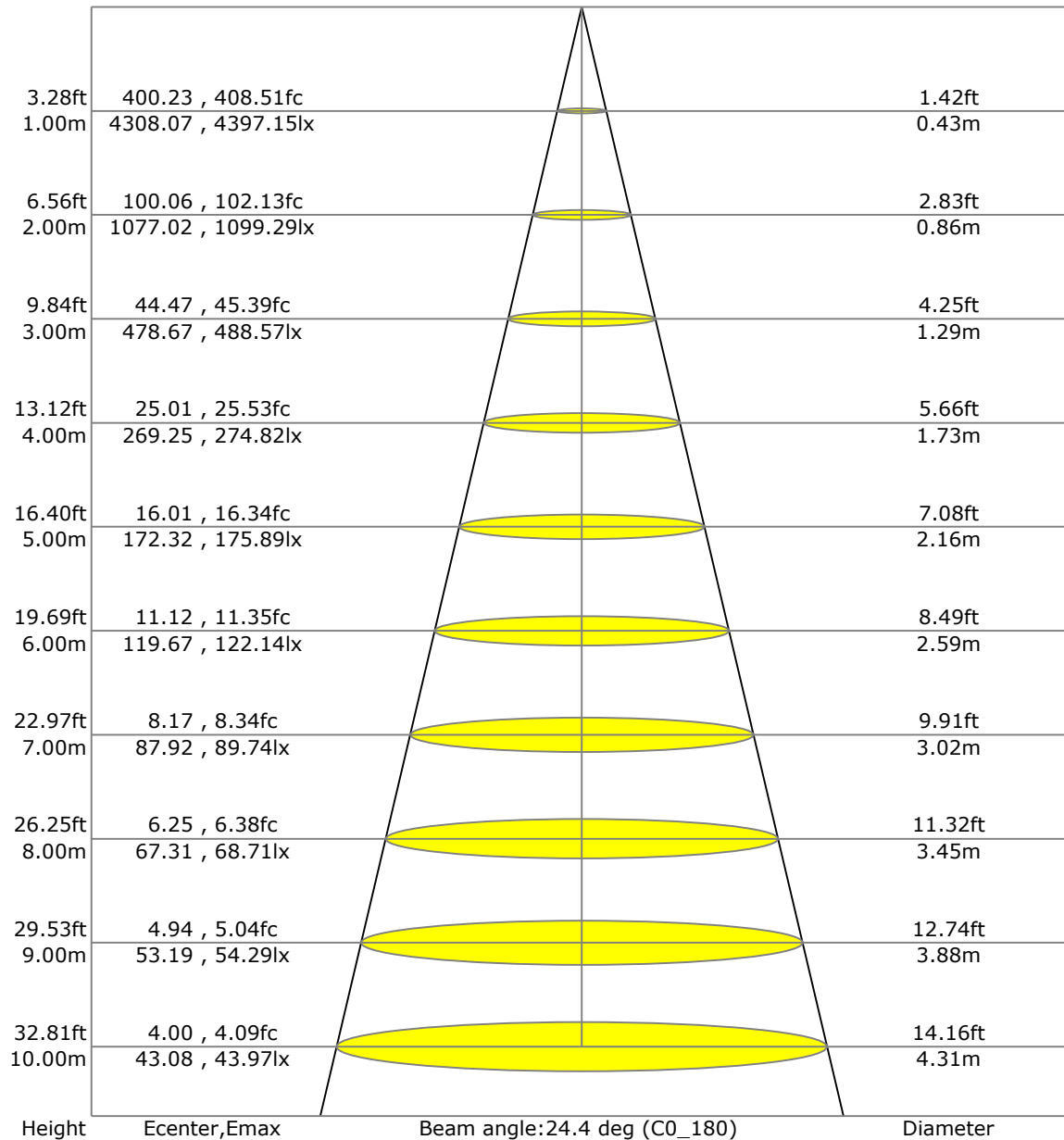
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 18:39:00

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.78 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	10.39	10.45	10.59	10.63	10.88	10.79	10.85	10.99	11.04	11.28
3H	10.44	10.50	10.65	10.70	10.94	10.82	10.88	11.03	11.07	11.32
4H	10.44	10.50	10.65	10.70	10.95	10.81	10.87	11.02	11.07	11.32
6H	10.43	10.49	10.65	10.69	10.94	10.79	10.86	11.01	11.06	11.31
8H	10.42	10.48	10.64	10.69	10.94	10.79	10.85	11.00	11.05	11.31
12H	10.41	10.47	10.63	10.68	10.94	10.78	10.84	11.00	11.05	11.30
4H 2H	11.15	11.21	11.36	11.41	11.66	11.91	11.97	12.12	12.17	12.42
3H	11.24	11.30	11.46	11.51	11.76	11.97	12.04	12.20	12.24	12.50
4H	11.24	11.31	11.47	11.52	11.78	11.97	12.03	12.20	12.24	12.50
6H	11.23	11.29	11.47	11.51	11.78	11.95	12.01	12.18	12.23	12.49
8H	11.22	11.28	11.47	11.51	11.78	11.93	11.99	12.18	12.22	12.49
12H	11.21	11.27	11.46	11.50	11.77	11.92	11.98	12.17	12.21	12.48
8H 4H	11.18	11.24	11.40	11.45	11.70	12.13	12.20	12.35	12.40	12.65
6H	11.26	11.32	11.52	11.56	11.83	12.21	12.27	12.47	12.51	12.79
8H	11.25	11.31	11.51	11.55	11.83	12.20	12.26	12.46	12.50	12.78
12H	11.23	11.29	11.51	11.54	11.83	12.18	12.24	12.45	12.49	12.77
12H 4H	11.26	11.32	11.51	11.56	11.83	12.32	12.38	12.57	12.61	12.88
6H	11.25	11.30	11.51	11.55	11.83	12.30	12.36	12.57	12.61	12.88

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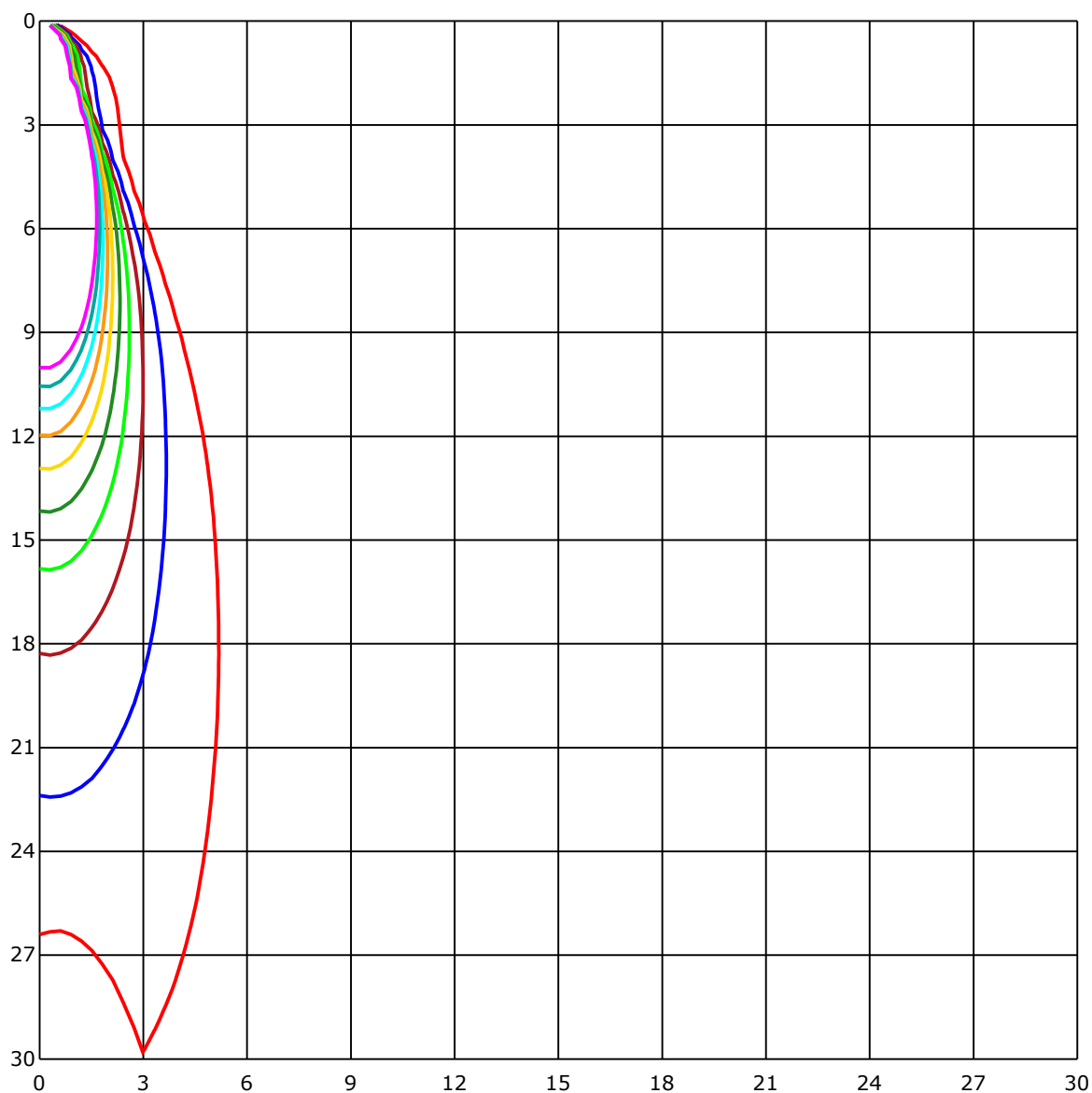
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

42.988	21.494
38.689	17.195
34.391	12.896
30.092	8.598
25.793	4.299

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4308.07	4352.84	4314.96	4291.56	4308.07	4352.84	4314.96	4291.56	4308.07	
G1	4331.51	4323.05	4373.48	4212.64	4242.24	4339.42	4212.87	4332.84	4331.51	
G2	4308.39	4256.77	4397.15	4103.97	4147.32	4290.46	4084.39	4329.49	4308.39	
G3	4243.9	4160.23	4379.18	3946.3	4005.55	4201.56	3914.58	4283.47	4243.9	
G4	4144.7	4022.74	4323.74	3768.4	3839.97	4083.01	3725.1	4190.2	4144.7	
G5	3996.36	3860.29	4228.77	3560.62	3648.88	3936.83	3506.47	4064.43	3996.36	
G6	3827.51	3675.08	4112.75	3331.33	3438.62	3761.23	3267.94	3911.82	3827.51	
G7	3628.98	3468.78	3956.32	3086.73	3191.95	3564.48	3030.51	3721.05	3628.98	
G8	3419.27	3251.02	3774.42	2833.72	2948.0	3333.68	2783.94	3513.96	3419.27	
G9	3183.96	3019.34	3578.69	2580.3	2698.85	3101.99	2544.08	3276.17	3183.96	
G10	2944.0	2778.38	3358.45	2335.52	2450.3	2862.87	2302.93	3040.21	2944.0	
G11	2689.29	2544.58	3128.43	2097.13	2209.84	2625.76	2074.6	2792.76	2689.29	
G12	2441.43	2308.63	2891.55	1877.44	1985.01	2383.23	1854.69	2552.95	2441.43	
G13	2199.54	2090.05	2660.97	1667.18	1771.16	2159.55	1656.52	2307.2	2199.54	
G14	1980.27	1878.13	2425.43	1482.3	1575.84	1938.03	1468.09	2080.99	1980.27	
G15	1770.66	1683.92	2202.07	1308.22	1388.66	1735.72	1299.9	1866.64	1770.66	
G16	1577.91	1495.9	1985.84	1149.21	1222.12	1544.45	1132.66	1672.56	1577.91	
G17	1400.57	1324.72	1786.7	1005.33	1070.51	1367.93	981.24	1487.58	1400.57	
G18	1237.1	1161.67	1595.79	871.24	930.35	1200.24	836.21	1319.8	1237.1	
G19	1091.7	1012.59	1415.64	743.91	792.45	1041.23	706.12	1162.4	1091.7	
G20	957.15	872.34	1250.62	623.29	666.13	892.98	587.11	1018.11	957.15	
G21	828.95	744.64	1098.32	513.28	548.4	756.78	480.78	881.21	828.95	
G22	705.71	623.47	952.14	413.67	444.19	631.7	387.05	752.59	705.71	
G23	588.63	513.56	812.72	326.84	354.28	519.72	309.64	629.35	588.63	
G24	481.38	415.23	683.32	257.97	283.76	420.89	247.59	516.78	481.38	
G25	384.57	334.74	566.84	205.66	228.88	340.58	200.38	414.04	384.57	
G26	302.93	268.32	461.38	168.38	188.98	276.87	165.9	330.05	302.93	
G27	238.44	217.98	373.49	142.27	160.06	227.87	141.31	264.04	238.44	
G28	190.31	178.04	303.58	124.3	140.43	190.54	123.98	214.86	190.31	
G29	155.65	150.04	250.34	111.57	126.83	163.56	111.47	177.48	155.65	
G30	130.73	129.63	208.79	102.97	116.76	143.84	102.1	150.96	130.73	
G31	114.42	115.61	177.67	96.07	108.85	130.27	95.02	132.8	114.42	
G32	103.52	105.31	155.1	90.79	102.69	119.98	89.13	120.21	103.52	
G33	95.8	98.14	139.19	85.96	97.36	111.61	84.4	111.24	95.8	
G34	90.47	91.84	127.01	81.87	93.27	104.9	79.89	104.12	90.47	
G35	86.01	86.7	117.63	77.87	88.81	99.15	76.31	98.42	86.01	
G36	81.92	82.01	109.82	74.61	85.13	93.96	72.68	93.73	81.92	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	78.38	78.24	103.11	71.48	81.73	89.41	69.87	89.73	78.38	
G38	75.43	74.42	97.18	68.68	78.84	85.23	66.93	86.05	75.43	
G39	72.58	71.39	92.17	65.92	75.76	81.69	64.49	82.97	72.58	
G40	69.83	68.22	87.43	63.53	73.18	78.15	61.92	79.99	69.83	
G41	67.11	65.37	83.75	61.28	70.65	75.11	59.58	77.04	67.11	
G42	64.86	62.65	79.85	58.79	68.31	72.12	57.69	74.61	64.86	
G43	62.33	60.45	76.68	56.73	65.5	69.5	55.35	71.99	62.33	
G44	60.45	57.92	73.14	54.43	63.44	66.65	53.05	69.73	60.45	
G45	58.01	55.81	70.56	52.31	60.86	64.22	51.02	67.07	58.01	
G46	56.22	53.51	67.85	50.24	58.84	61.83	48.96	64.91	56.22	
G47	54.01	51.44	64.95	47.67	56.13	59.67	46.52	62.7	54.01	
G48	51.94	49.32	62.75	45.6	53.78	57.18	44.27	60.45	51.94	
G49	49.83	46.75	60.22	43.49	51.39	54.98	42.06	57.92	49.83	
G50	47.49	44.64	57.74	40.91	48.86	52.4	39.53	55.81	47.49	
G51	45.37	42.43	55.48	38.15	45.55	49.92	37.05	53.55	45.37	
G52	43.26	39.85	52.91	35.63	42.93	46.75	34.43	51.07	43.26	
G53	40.64	37.14	50.2	33.1	40.36	44.18	32.04	47.85	40.64	
G54	38.11	34.43	46.89	30.94	37.88	41.51	29.79	45.1	38.11	
G55	35.49	32.13	43.99	28.55	35.3	38.94	27.72	42.43	35.49	
G56	33.05	29.97	41.37	26.52	33.19	36.41	25.7	39.95	33.05	
G57	30.61	27.81	38.89	24.5	30.94	34.15	23.77	37.23	30.61	
G58	28.41	25.74	36.41	22.62	28.96	31.86	21.97	34.94	28.41	
G59	26.29	23.9	33.97	20.73	26.94	29.83	20.23	32.64	26.29	
G60	24.41	21.97	31.76	19.21	25.14	27.9	18.57	30.57	24.41	
G61	22.57	20.32	29.79	17.56	23.35	26.06	17.15	28.59	22.57	
G62	20.96	18.62	27.72	16.09	21.83	24.27	15.63	26.71	20.96	
G63	19.31	17.15	25.93	14.62	20.13	22.66	14.25	24.87	19.31	
G64	17.51	15.58	24.04	13.38	18.76	21.05	12.96	23.17	17.51	
G65	16.04	14.34	22.43	12.09	17.38	19.58	11.68	21.47	16.04	
G66	14.71	12.92	20.82	10.94	16.13	18.25	10.57	20.0	14.71	
G67	13.33	11.68	19.26	9.75	14.66	16.73	9.42	18.39	13.33	
G68	11.95	10.43	17.97	8.64	13.61	15.4	8.32	17.05	11.95	
G69	10.85	9.56	16.5	7.68	12.46	14.25	7.31	15.68	10.85	
G70	9.7	8.5	15.35	6.85	11.45	13.01	6.39	14.48	9.7	
G71	8.64	7.49	14.07	5.93	10.34	12.0	5.61	13.28	8.64	
G72	7.72	6.48	12.87	5.01	9.56	10.89	4.73	12.14	7.72	
G73	6.8	5.7	11.91	4.28	8.69	9.98	4.09	11.17	6.8	

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: