

Report No.:

Test Time: 2025/11/24 15:03:21

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 19989LED

Voltage(V): 118.80 V
 Current(A): 0.2700 A
 Power(W): 29.51 W
 Power Factor: 0.9160
 Lamp Luminous Flux: 1276.07

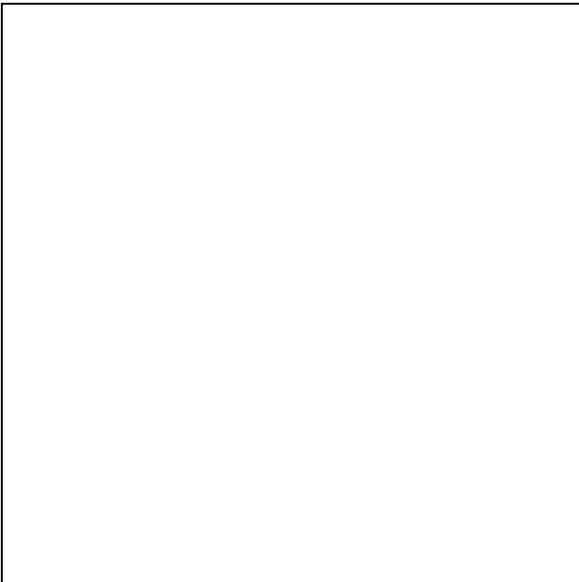
Lamp Type:
 Luminous Width: 0 mm Luminous
 Length: 0 mm Luminous Height: 0
 mm

Photometric Results

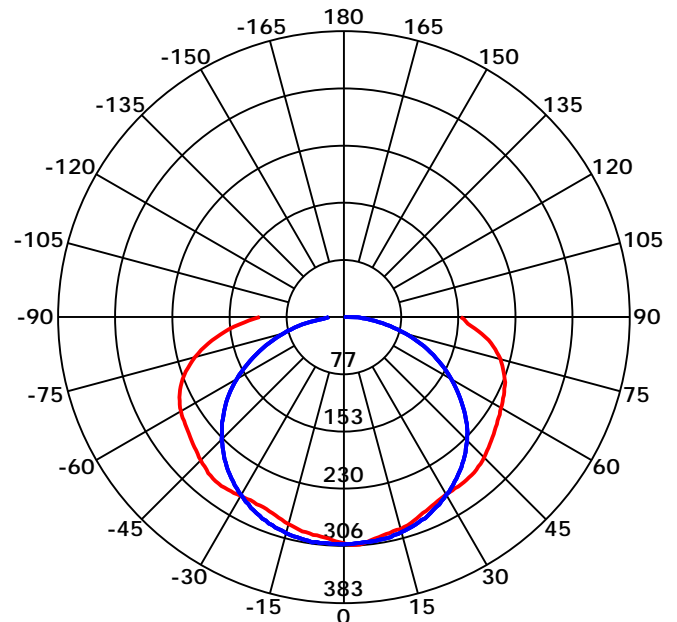
CIE Class: Direct
 Luminaire Luminous Flux: 1276.072 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 43.24 lm/W
 Beam Angle(50%) C0-180,C90-270: 87.2,125.3
 Field Angle(10%) C0-180,C90-270: 0.0,170.5
 S/MH C0-180,C90-270: 1.400,1.349

Max. Intensity: 306.48 cd
 Max.Intensity Angle: C=315 Gamma=5
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 303.20 cd
 Effective Luminous Flux: 1276.07 lm
 ERP(φ use)(120deg): 804.45 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 87.2 deg,125.3 deg
 Average Beam Angle:106.3 deg
 C0-180 ——— C90-270 ———

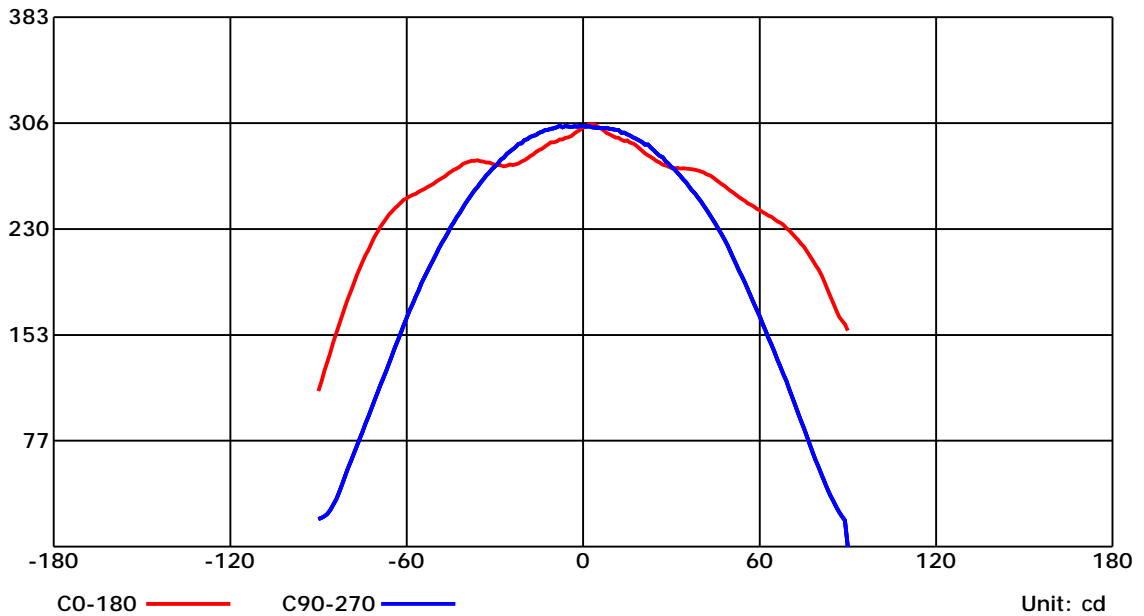
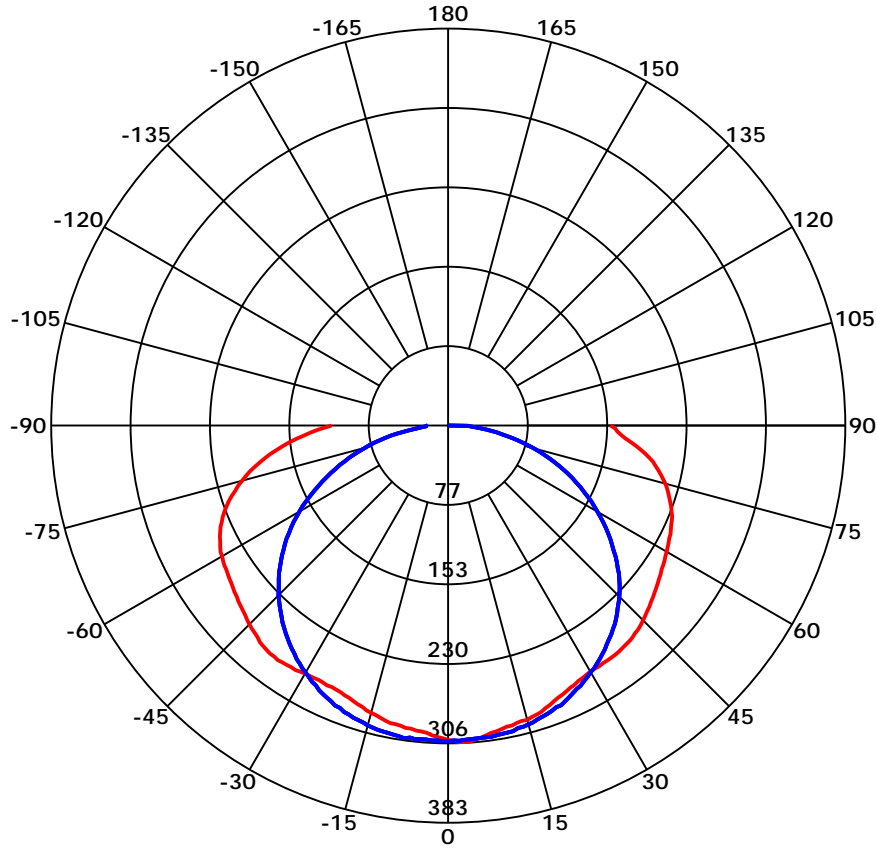
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/24 15:03:21

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

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Luminous Intensity Distribution Curve



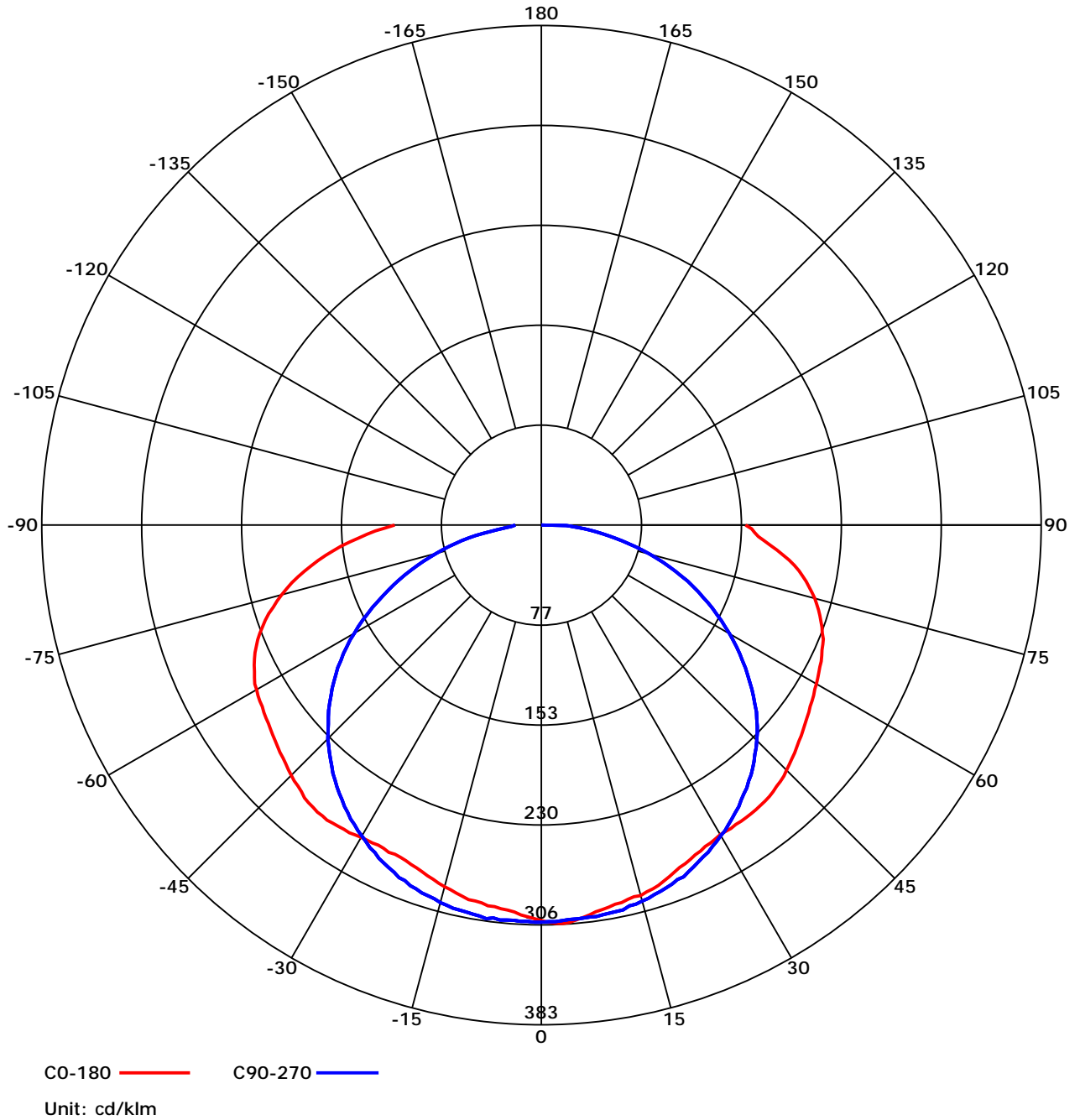
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Luminous Intensity Distribution Curve



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Test Speed: High

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Test Date: 2025/11/24 15:03:21

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Humidity: 65

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Remarks:

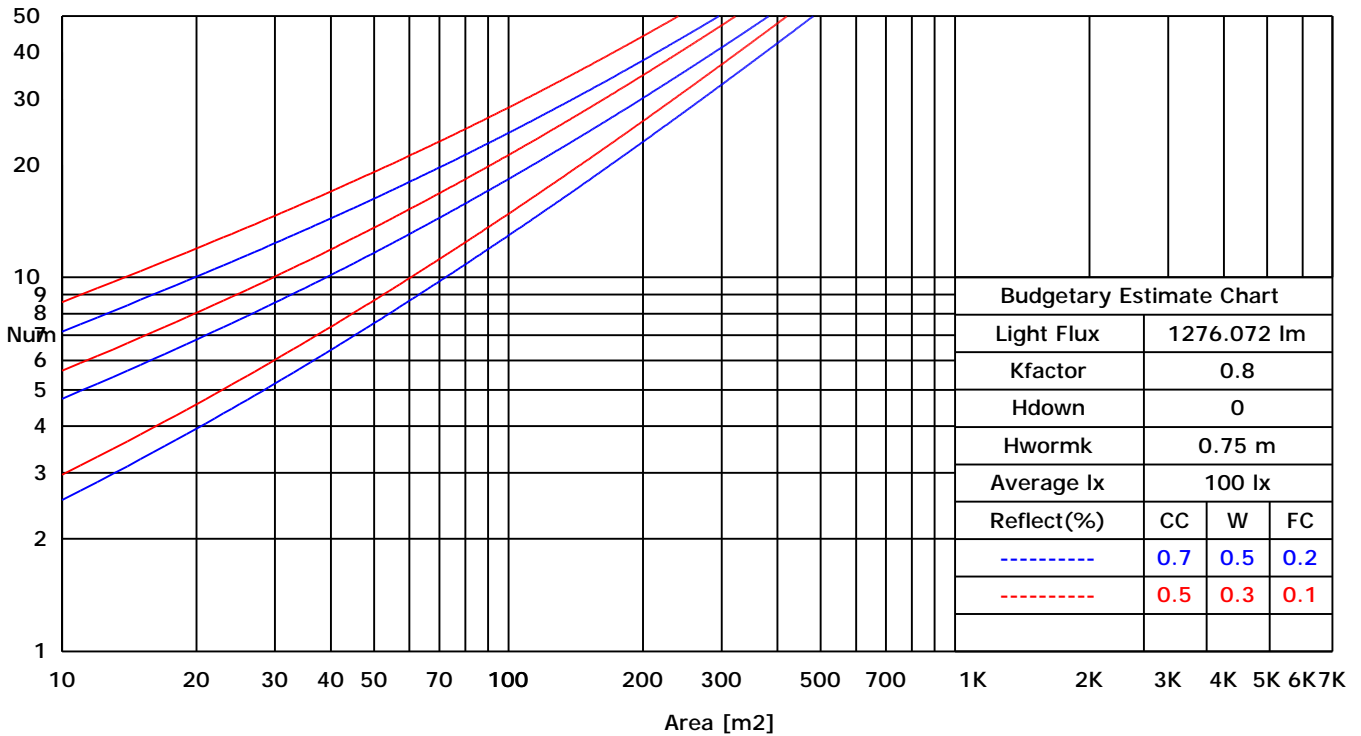
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UTILIZATION FACTORS TABLE

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	0.94	0.92	0.91	0.93	0.91	0.89	0.89	0.87	0.85	0.85	0.83	0.81	0.80	0.77	0.75	0.70
2	0.76	0.73	0.71	0.76	0.72	0.70	0.74	0.70	0.67	0.71	0.67	0.64	0.68	0.63	0.60	0.55
3	0.63	0.60	0.58	0.63	0.59	0.57	0.63	0.58	0.54	0.61	0.56	0.52	0.59	0.53	0.49	0.45
4	0.53	0.50	0.48	0.53	0.50	0.47	0.54	0.49	0.45	0.53	0.48	0.43	0.52	0.46	0.41	0.37
5	0.45	0.42	0.40	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.37	0.46	0.40	0.35	0.31
6	0.39	0.36	0.35	0.40	0.37	0.34	0.41	0.36	0.33	0.42	0.36	0.32	0.42	0.35	0.30	0.27
7	0.34	0.32	0.30	0.36	0.32	0.30	0.37	0.32	0.29	0.38	0.32	0.28	0.38	0.31	0.26	0.23
8	0.31	0.28	0.27	0.32	0.28	0.26	0.33	0.29	0.25	0.34	0.29	0.24	0.35	0.28	0.23	0.21
9	0.27	0.25	0.24	0.29	0.25	0.23	0.30	0.26	0.23	0.31	0.26	0.22	0.32	0.26	0.21	0.18
10	0.25	0.23	0.21	0.26	0.23	0.21	0.28	0.23	0.20	0.29	0.23	0.20	0.30	0.23	0.19	0.16

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



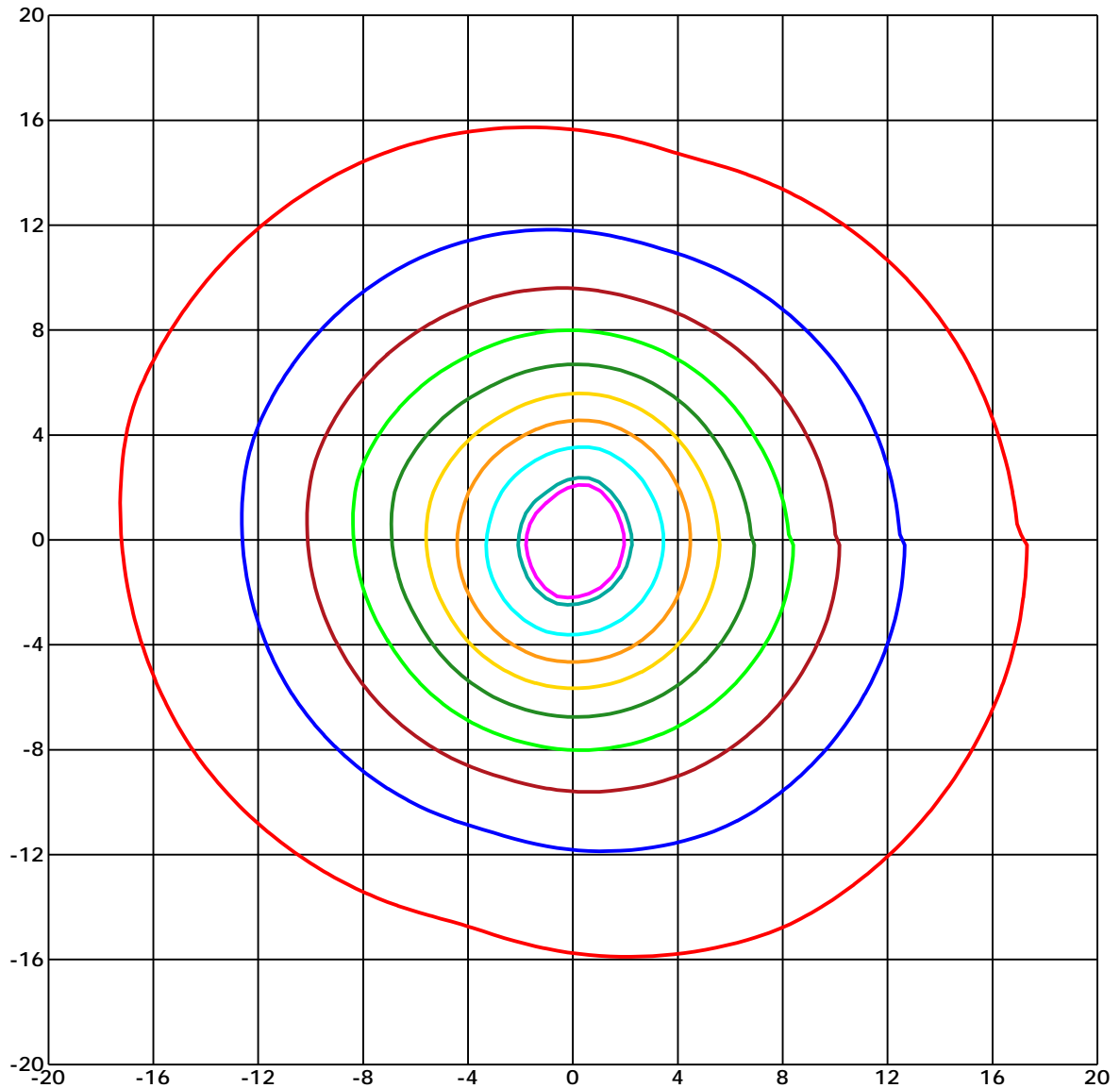
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

— 2.805(92%Emax)	— 1.525(50%Emax)
— 2.744(90%Emax)	— 1.22(40%Emax)
— 2.439(80%Emax)	— 0.915(30%Emax)
— 2.134(70%Emax)	— 0.61(20%Emax)
— 1.829(60%Emax)	— 0.305(10%Emax)

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Operators:

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

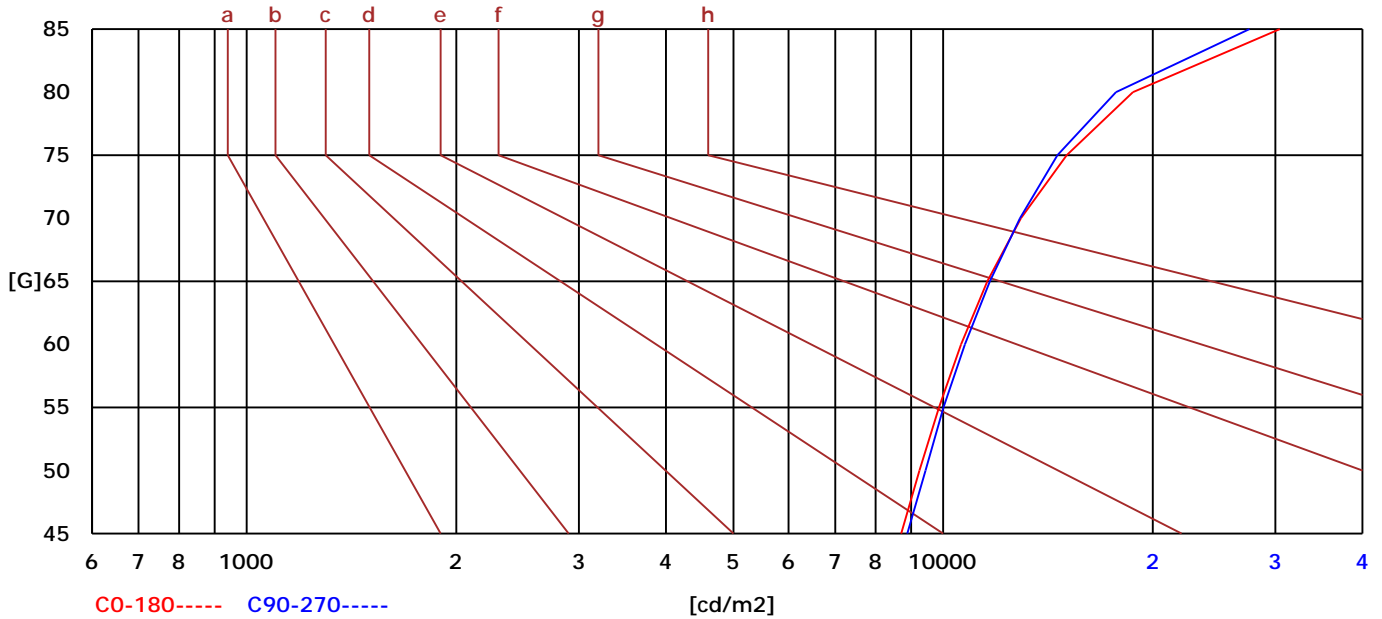
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8703	9246	9865	10609	11568	12937	15040	18722	30432
C90	8884	9433	10011	10744	11676	12894	14587	17709	27530
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



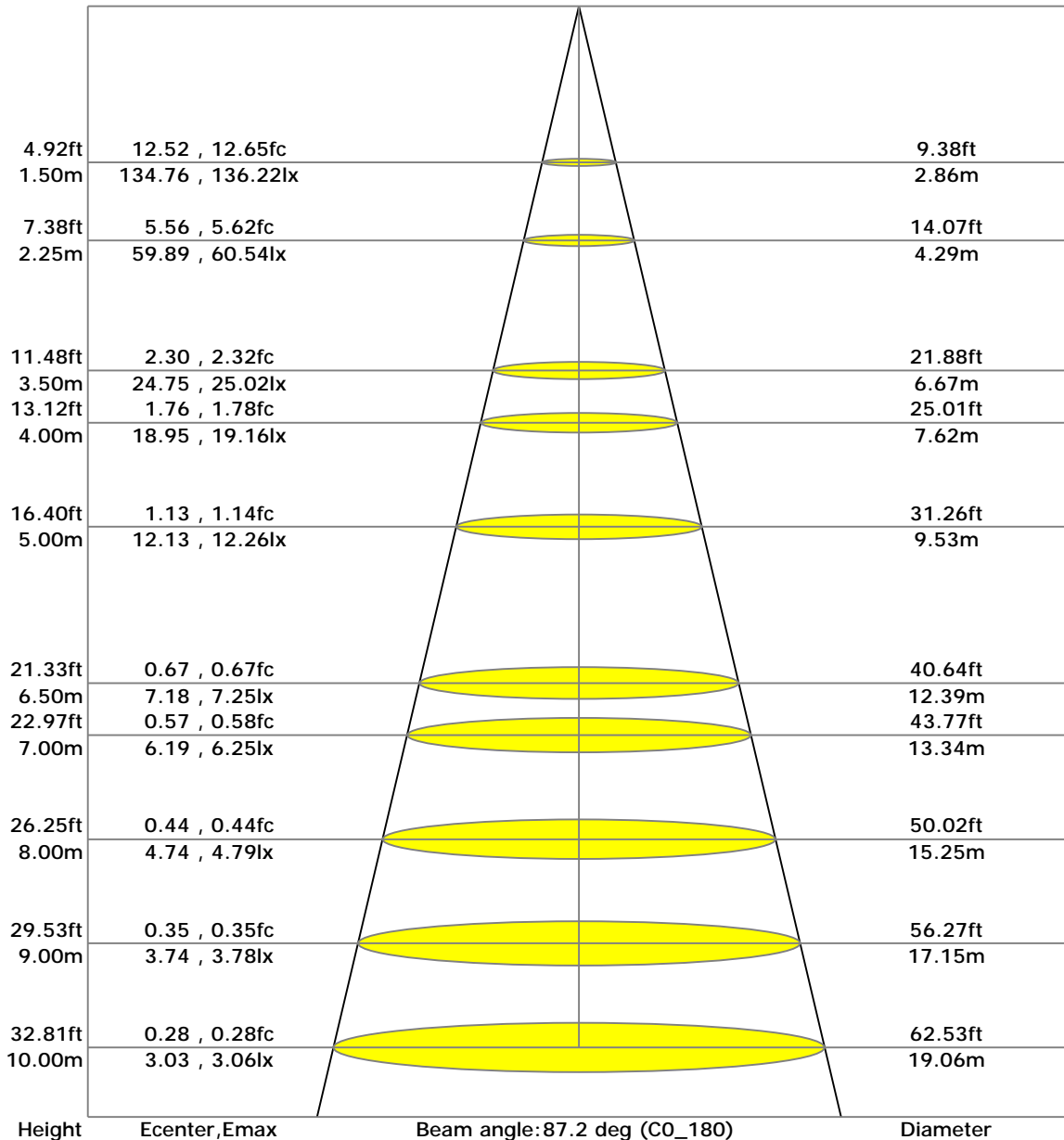
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LX-DISTANCE DIAGRAM



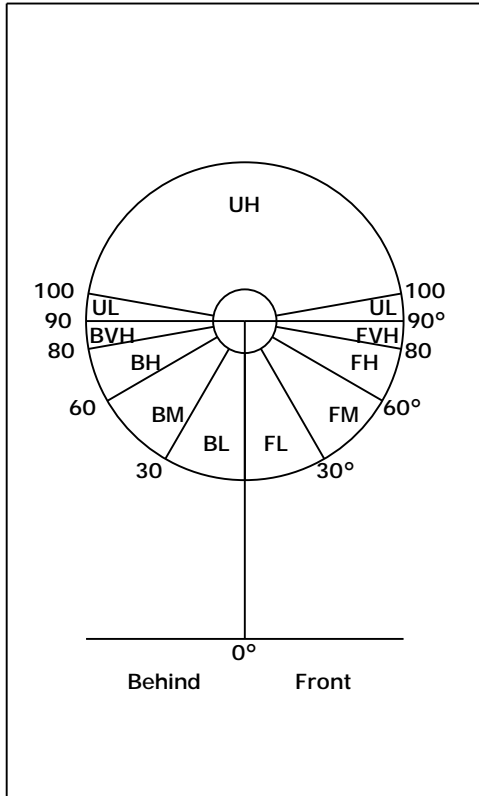
C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	630.4	49.4
FL (0°-30°)	120.1	9.4
FM (30°-60°)	280.4	22.0
FH (60°-80°)	175.2	13.7
FVH (80°-90°)	54.8	4.3

Behind	645.7	50.6
BL (0°-30°)	121.1	9.5
BM (30°-60°)	283.0	22.2
BH (60°-80°)	180.8	14.2
BVH (80°-90°)	60.8	4.8

Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0

Limit Light	NA	NA
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BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B1 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B1 U0 G1

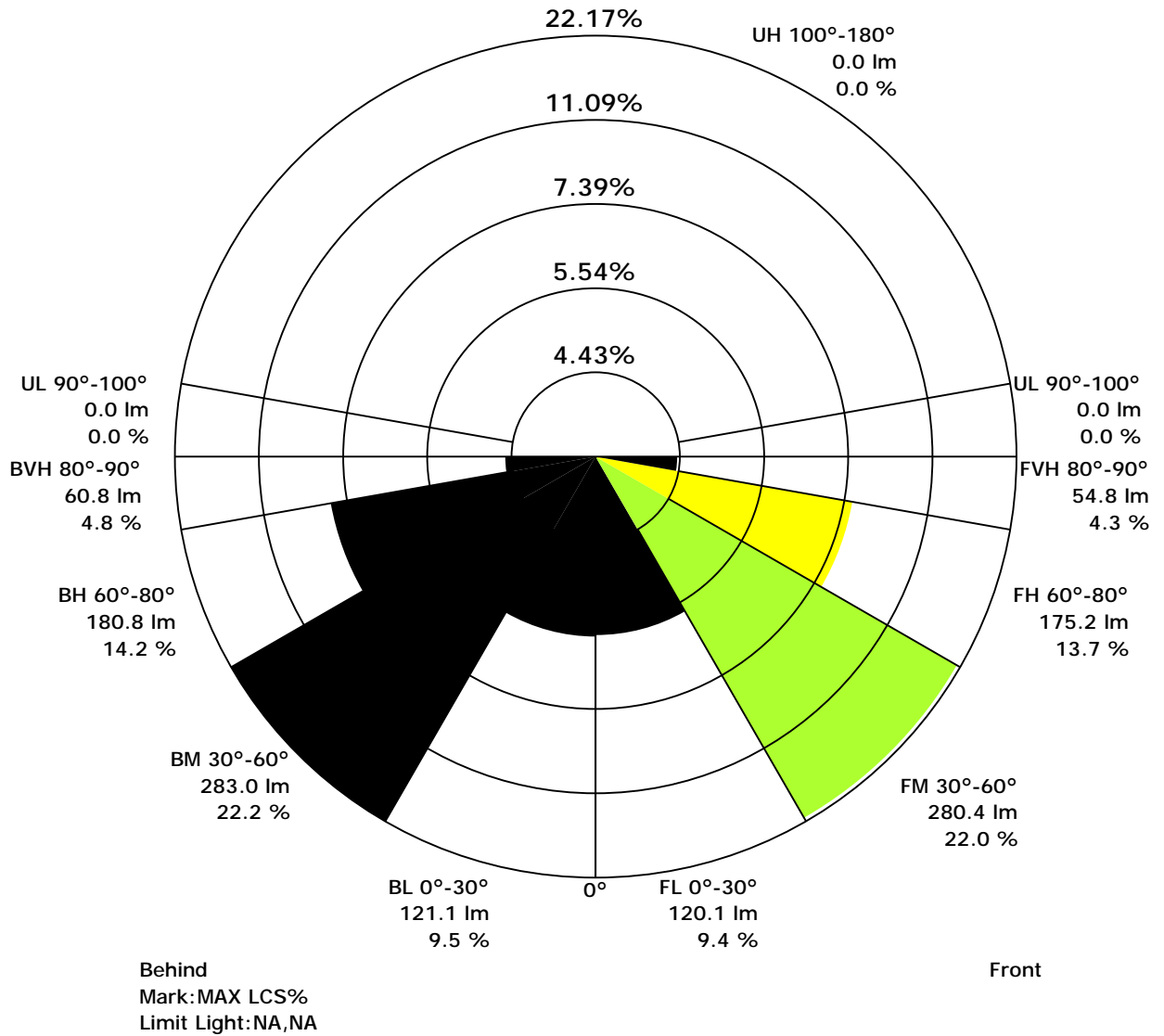
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G Range: 0 - 90 Deg
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LCS 图



C Range: 0 - 360 Deg
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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	22.77	23.69	22.40	23.62	23.63	21.97	22.89	21.60	22.82	22.82
	3H	22.54	23.39	22.26	23.38	23.45	21.94	22.79	21.66	22.78	22.86
	4H	22.35	23.16	22.12	23.18	23.29	21.86	22.67	21.63	22.69	22.80
	6H	22.11	22.87	21.93	22.93	23.09	21.69	22.45	21.51	22.51	22.67
	8H	21.98	22.71	21.83	22.79	22.97	21.56	22.29	21.41	22.37	22.55
	12H	21.84	22.55	21.73	22.65	22.86	21.42	22.13	21.30	22.23	22.44
4H	2H	26.85	27.66	26.62	27.68	27.79	24.46	25.27	24.23	25.29	25.41
	3H	26.75	27.46	26.64	27.56	27.77	24.62	25.33	24.50	25.43	25.63
	4H	26.60	27.25	26.55	27.39	27.66	24.64	25.29	24.59	25.43	25.69
	6H	26.37	26.95	26.40	27.14	27.46	24.60	25.18	24.63	25.37	25.69
	8H	26.23	26.77	26.30	26.99	27.34	24.54	25.08	24.61	25.30	25.65
	12H	26.08	26.57	26.19	26.82	27.20	24.43	24.93	24.54	25.18	25.56
8H	4H	28.99	29.72	28.84	29.80	29.98	25.22	25.96	25.08	26.04	26.22
	6H	29.01	29.46	29.17	29.74	30.16	25.78	26.23	25.94	26.51	26.93
	8H	28.92	29.32	29.12	29.62	30.07	25.87	26.27	26.07	26.57	27.02
	12H	28.79	29.13	29.03	29.46	29.95	25.93	26.28	26.18	26.61	27.10
12H	4H	30.10	30.59	30.21	30.84	31.22	25.86	26.36	25.97	26.61	26.99
	6H	30.13	30.53	30.33	30.83	31.29	26.11	26.51	26.31	26.81	27.26

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ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	297.3	296.9	302.0	292.7	292.5	295.1	302.8	300.8	10	28.6	28.6	2.2	2.2
20	286.7	286.5	292.8	282.5	279.7	285.9	294.2	291.3	20	82.9	111.5	8.7	8.7
30	274.0	268.8	274.8	267.3	276.4	270.4	275.2	277.0	30	129.6	241.1	18.9	18.9
40	271.6	252.3	249.9	256.8	277.7	254.7	248.6	260.7	40	167.1	408.2	32.0	32.0
50	257.7	237.7	213.5	242.5	264.1	240.8	211.8	248.8	50	193.3	601.5	47.1	47.1
60	243.4	212.2	166.5	214.9	252.1	217.5	165.6	227.9	60	203.0	804.5	63.0	63.0
70	228.9	177.0	114.1	176.4	227.6	182.1	111.1	194.8	70	193.6	998.0	78.2	78.2
80	200.5	130.0	57.4	123.0	179.3	132.9	56.6	153.0	80	162.4	1160.4	90.9	90.9
90	156.4	90.9	0.0	80.3	112.6	305.3	20.0	301.7	90	115.7	1276.1	100.0	100.0

Conical surface Flux(90deg) : 502.5 lm

%lum = 39.4%

%lamp = 39.4%

Conical surface Flux(120deg) : 804.5 lm

%lum = 63.0%

%lamp = 63.0%

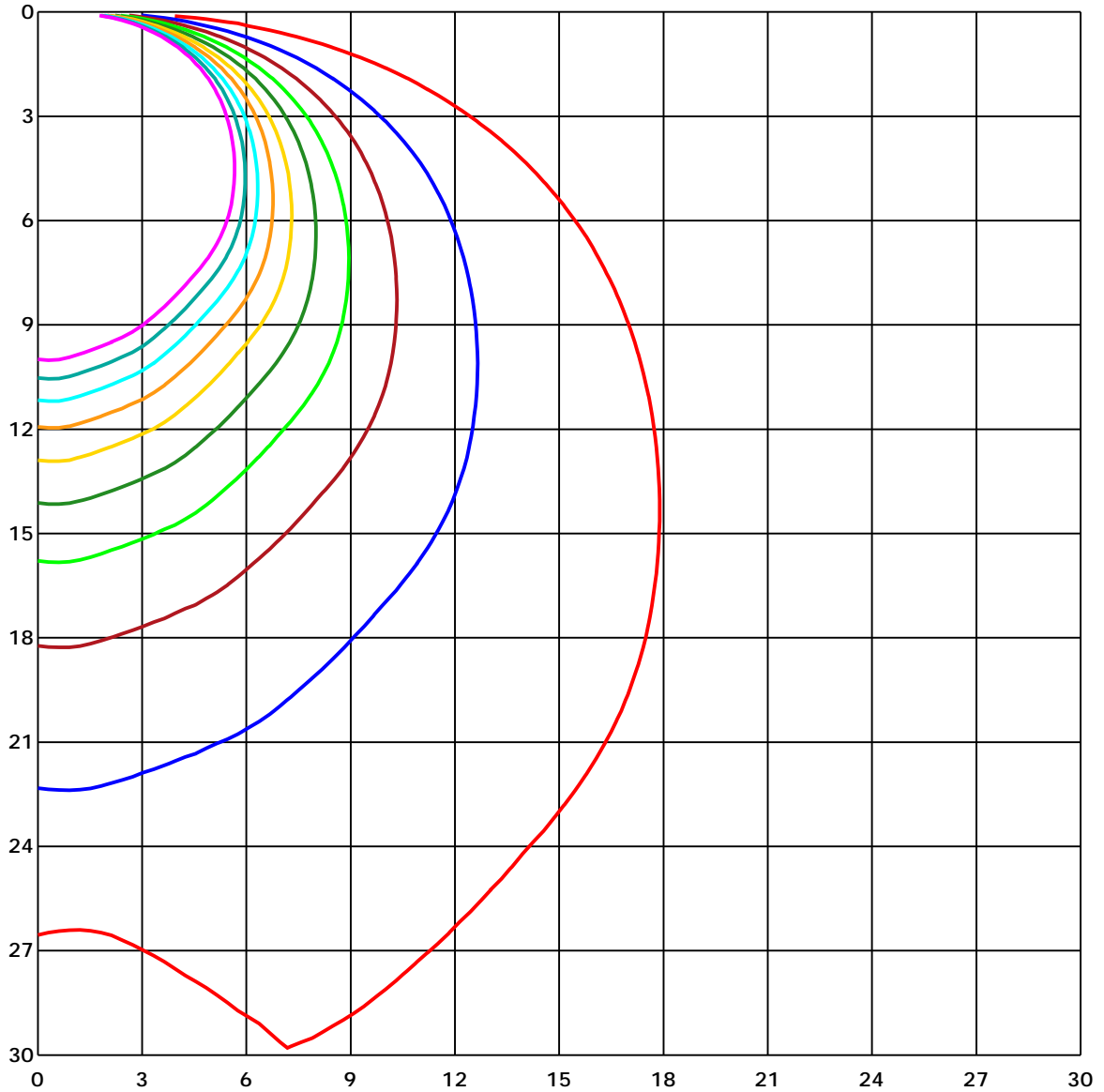
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- 3.042
- 1.521
- 2.738
- 1.217
- 2.434
- 0.913
- 2.13
- 0.608
- 1.825
- 0.304

C Range: 0 - 360 Deg

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Humidity: 65

Test Distance: 6.25 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	303.2	304.3	304.49	302.97	303.2	304.3	304.49	302.97	303.2
G1	304.49	304.77	303.95	301.45	301.68	303.4	304.38	303.83	304.49
G2	305.47	299.26	304.22	300.39	300.47	302.42	303.91	304.57	305.47
G3	305.78	304.45	303.55	299.02	299.18	302.23	304.22	305.7	305.78
G4	305.43	303.75	303.16	297.54	297.23	300.78	303.71	305.7	305.43
G5	304.02	302.38	303.13	296.56	296.29	299.26	303.87	306.48	304.02
G6	302.62	301.29	302.97	295.55	295.74	298.28	304.34	304.8	302.62
G7	301.17	300.23	302.85	294.8	294.69	297.23	303.44	304.22	301.17
G8	299.38	299.3	302.97	294.06	294.69	296.33	304.65	303.16	299.38
G9	298.48	298.05	302.27	293.09	293.2	295.7	303.44	301.45	298.48
G10	297.3	296.88	302.03	292.7	292.5	295.08	302.77	300.82	297.3
G11	295.98	295.55	301.68	292.03	292.5	293.87	302.23	299.41	295.98
G12	295.86	295.51	301.45	291.29	291.09	293.16	301.64	298.63	295.86
G13	294.38	293.48	299.57	291.05	289.61	292.58	301.37	297.5	294.38
G14	293.63	292.62	299.45	290.08	288.09	291.88	300.31	296.95	293.63
G15	293.98	291.05	298.4	289.49	286.95	291.64	299.57	296.56	293.98
G16	292.46	290.59	297.58	287.93	285.7	289.96	297.97	294.49	292.46
G17	291.6	289.26	296.17	286.84	283.79	289.73	297.15	293.36	291.6
G18	290.39	288.55	295.2	285.43	282.66	288.24	296.48	292.54	290.39
G19	288.4	287.93	294.06	284.22	281.02	286.95	294.88	291.72	288.4
G20	286.68	286.48	292.81	282.5	279.69	285.94	294.22	291.25	286.68
G21	284.8	285.78	291.09	280.86	278.71	284.84	291.84	290.23	284.8
G22	283.05	284.3	290.9	279.41	277.38	283.55	291.37	289.49	283.05
G23	281.95	282.73	288.63	278.2	276.68	282.3	289.02	288.87	281.95
G24	280.55	280.47	286.8	276.48	276.25	280.66	287.58	288.09	280.55
G25	278.91	278.83	284.69	275.23	276.72	279.38	285.82	286.13	278.91
G26	278.09	276.68	282.85	273.75	275.78	277.03	284.18	284.26	278.09
G27	276.48	274.77	281.64	271.72	275.31	275.12	281.52	282.46	276.48
G28	275.9	273.01	278.95	270.2	275.98	273.87	280.08	280.66	275.9
G29	274.96	270.94	277.15	268.55	276.13	272.07	277.38	278.59	274.96
G30	273.98	268.75	274.84	267.3	276.41	270.39	275.23	277.03	273.98
G31	273.87	266.84	273.24	266.25	277.15	268.44	273.32	275.27	273.87
G32	274.14	265.16	270.7	265.04	278.09	266.68	270.63	273.32	274.14
G33	273.63	263.09	268.32	263.44	278.09	264.8	268.59	271.64	273.63
G34	273.83	261.29	265.82	262.34	278.59	263.16	265.63	270.2	273.83
G35	273.55	259.8	263.55	261.45	278.98	261.88	263.16	268.48	273.55
G36	273.44	258.09	260.59	260.27	279.53	260.55	260.12	266.64	273.44

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	273.13	256.48	257.89	259.73	279.1	258.67	257.58	265.04	273.13	
G38	272.7	254.96	255.55	258.52	279.18	257.54	254.57	264.22	272.7	
G39	272.23	253.36	252.46	257.42	278.36	256.29	251.52	261.56	272.23	
G40	271.64	252.27	249.92	256.8	277.73	254.73	248.55	260.66	271.64	
G41	270.74	250.78	246.72	255.47	276.91	253.79	245.04	258.95	270.74	
G42	269.53	249.84	243.63	254.65	275.04	252.27	241.56	257.66	269.53	
G43	268.67	248.48	240.0	253.24	273.63	250.86	238.32	256.64	268.67	
G44	267.38	247.58	236.84	252.03	272.7	249.53	234.77	255.43	267.38	
G45	265.74	246.17	233.44	251.29	271.29	248.4	231.64	254.73	265.74	
G46	264.14	244.53	229.88	249.57	269.88	247.23	227.38	253.32	264.14	
G47	262.38	243.05	226.29	248.2	268.09	245.47	223.48	252.07	262.38	
G48	261.09	241.8	222.11	245.82	266.68	243.98	219.92	250.66	261.09	
G49	259.34	239.65	218.28	243.87	265.55	242.7	216.25	249.34	259.34	
G50	257.66	237.73	213.52	242.54	264.1	240.78	211.84	248.75	257.66	
G51	256.21	235.74	209.06	239.8	262.58	239.06	207.66	246.88	256.21	
G52	254.73	233.4	204.61	237.5	261.41	237.15	203.63	244.8	254.73	
G53	253.01	231.21	199.8	234.84	260.08	235.74	199.02	242.85	253.01	
G54	251.48	228.55	195.35	232.38	258.67	233.01	194.8	241.05	251.48	
G55	250.12	226.33	190.82	229.69	257.77	230.94	190.59	239.3	250.12	
G56	248.48	223.28	185.98	226.91	256.64	228.44	185.47	236.8	248.48	
G57	247.34	220.47	181.29	224.06	255.23	226.02	181.05	234.34	247.34	
G58	246.17	217.7	176.33	220.98	254.61	223.28	175.9	232.42	246.17	
G59	244.41	214.69	171.29	217.81	253.55	220.39	171.09	229.49	244.41	
G60	243.4	212.19	166.52	214.88	252.07	217.5	165.59	227.85	243.4	
G61	242.19	208.52	161.21	211.52	251.17	214.77	160.66	224.45	242.19	
G62	240.86	205.63	156.41	207.81	249.14	211.45	155.08	221.33	240.86	
G63	239.45	202.07	151.05	204.65	246.99	208.32	149.69	218.2	239.45	
G64	238.59	198.83	146.02	201.09	245.0	205.08	144.14	215.08	238.59	
G65	236.95	195.55	140.86	197.38	242.62	201.56	138.4	212.42	236.95	
G66	235.39	191.72	135.39	193.44	240.39	197.77	132.85	208.4	235.39	
G67	234.38	188.09	130.43	189.49	237.5	193.91	127.27	204.96	234.38	
G68	233.16	184.45	125.04	185.47	234.49	190.27	122.15	202.5	233.16	
G69	230.59	180.9	120.0	180.78	231.33	186.09	116.64	198.05	230.59	
G70	228.87	176.99	114.06	176.41	227.58	182.11	111.09	194.8	228.87	
G71	226.52	173.09	108.55	171.25	223.95	177.46	105.66	191.17	226.52	
G72	224.38	169.18	102.89	166.56	219.73	172.89	100.08	187.19	224.38	
G73	222.15	164.88	97.19	161.68	215.04	168.13	94.65	183.32	222.15	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 15:03:21

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

