

Report No.:

Test Time: 2025/11/22 11:26:18

## LUMINAIRE PHOTOMETRIC TEST REPORT

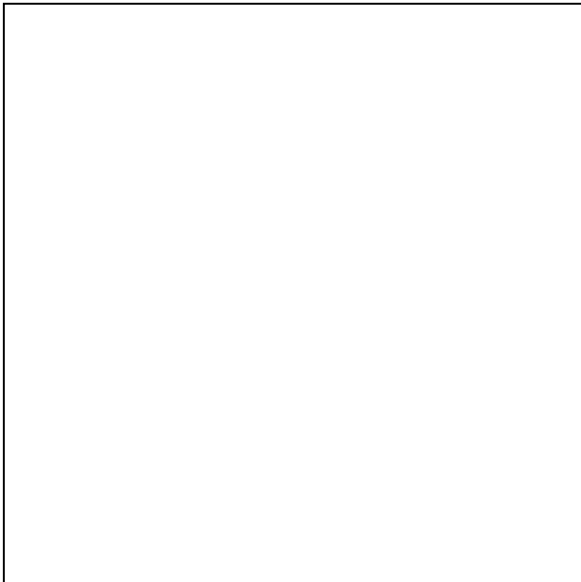
### Luminaire Property

Manufacturer: 0	Voltage(V): 119.10 V
Luminaire Type: 49910LEDDCS	Current(A): 0.2280 A
	Power(W): 25.05 W
Lamp Type:	Power Factor: 0.9180
Luminous Width: 0 mm	Lamp Luminous Flux: 920.94
Luminous Length: 0 mm	
Luminous Height: 0 mm	

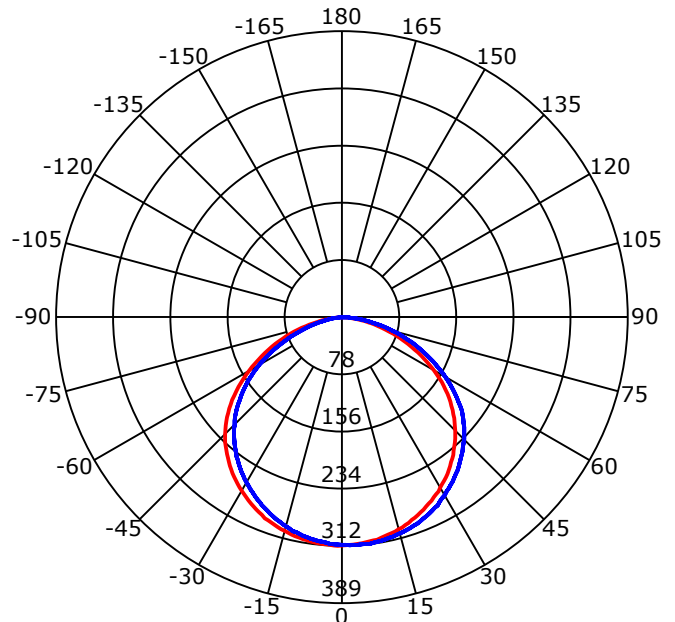
### Photometric Results

Luminaire Luminous Flux: 920.9431 lm	Max. Intensity: 311.56 cd
Downward Ratio: 100.00%	Max.Intensity Angle: C=225 Gamma=1
Luminaire Efficacy Rating(LER): 36.76 lm/W	Upward Ratio: 0.00%
Beam Angle(50%) C0-180,C90-270: 116.5,116.6	Efficacy: 100.00%
Field Angle(10%) C0-180,C90-270: 159.9,159.5	Center Intensity: 311.29 cd
S/MH C0-180,C90-270: 1.299,1.299	Effective Luminous Flux: 909.08 lm
	ERP( $\varphi$ use)(120deg): 733.74 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 116.5 deg,116.6 deg  
 Average Beam Angle:116.6 deg  
 C0-180 — C90-270 —

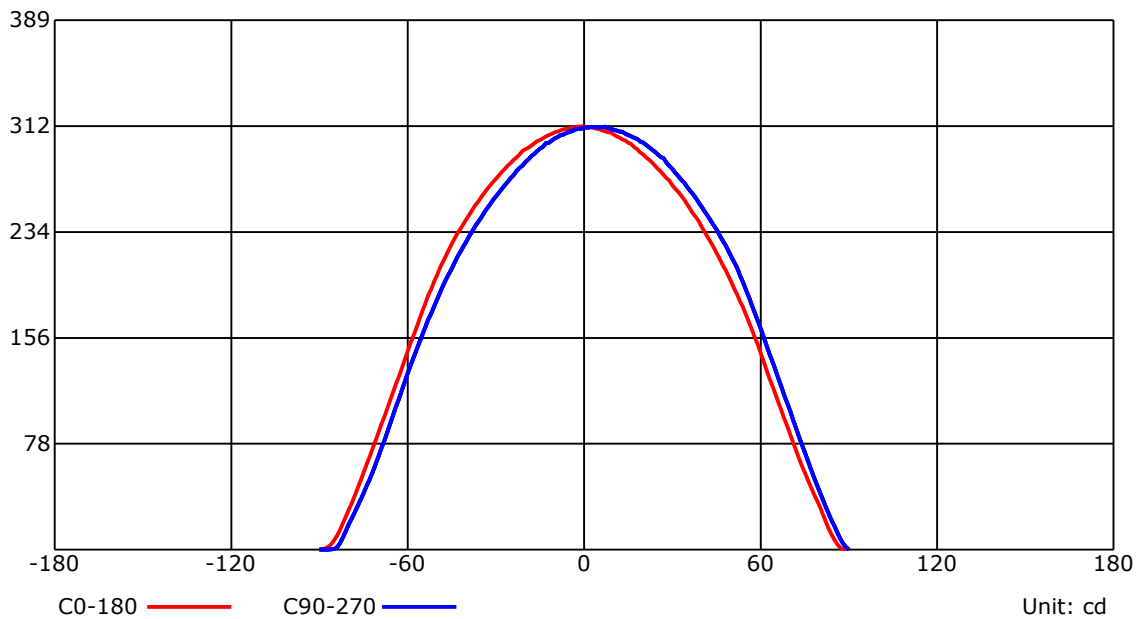
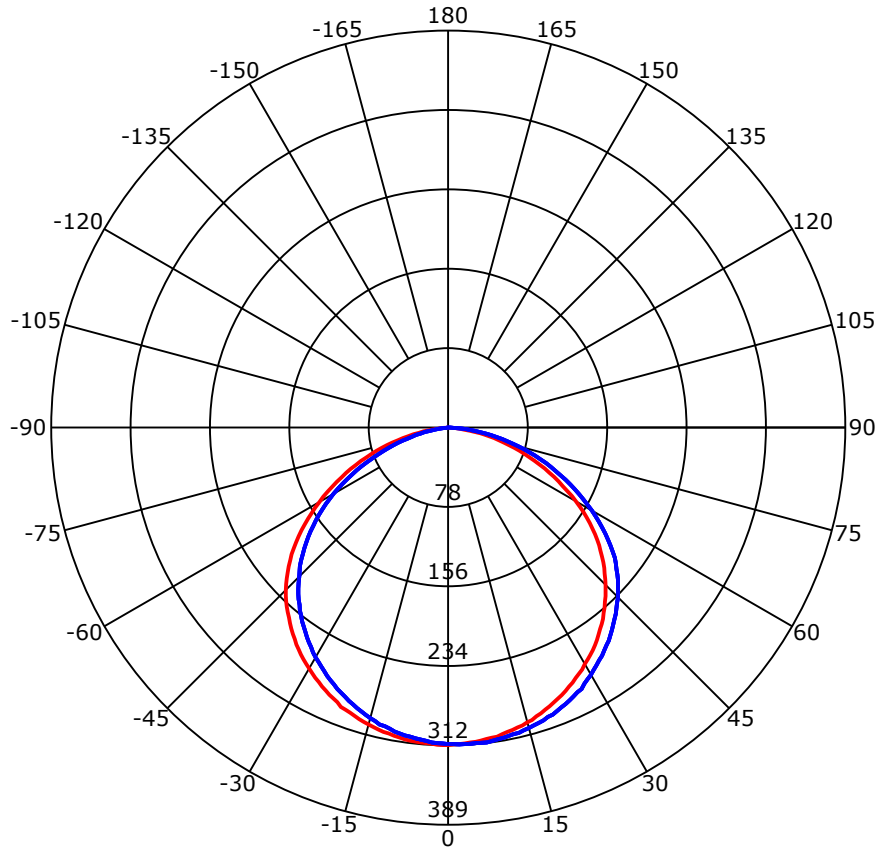
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 11:26:18

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

Report No.:

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## Luminous Intensity Distribution Curve



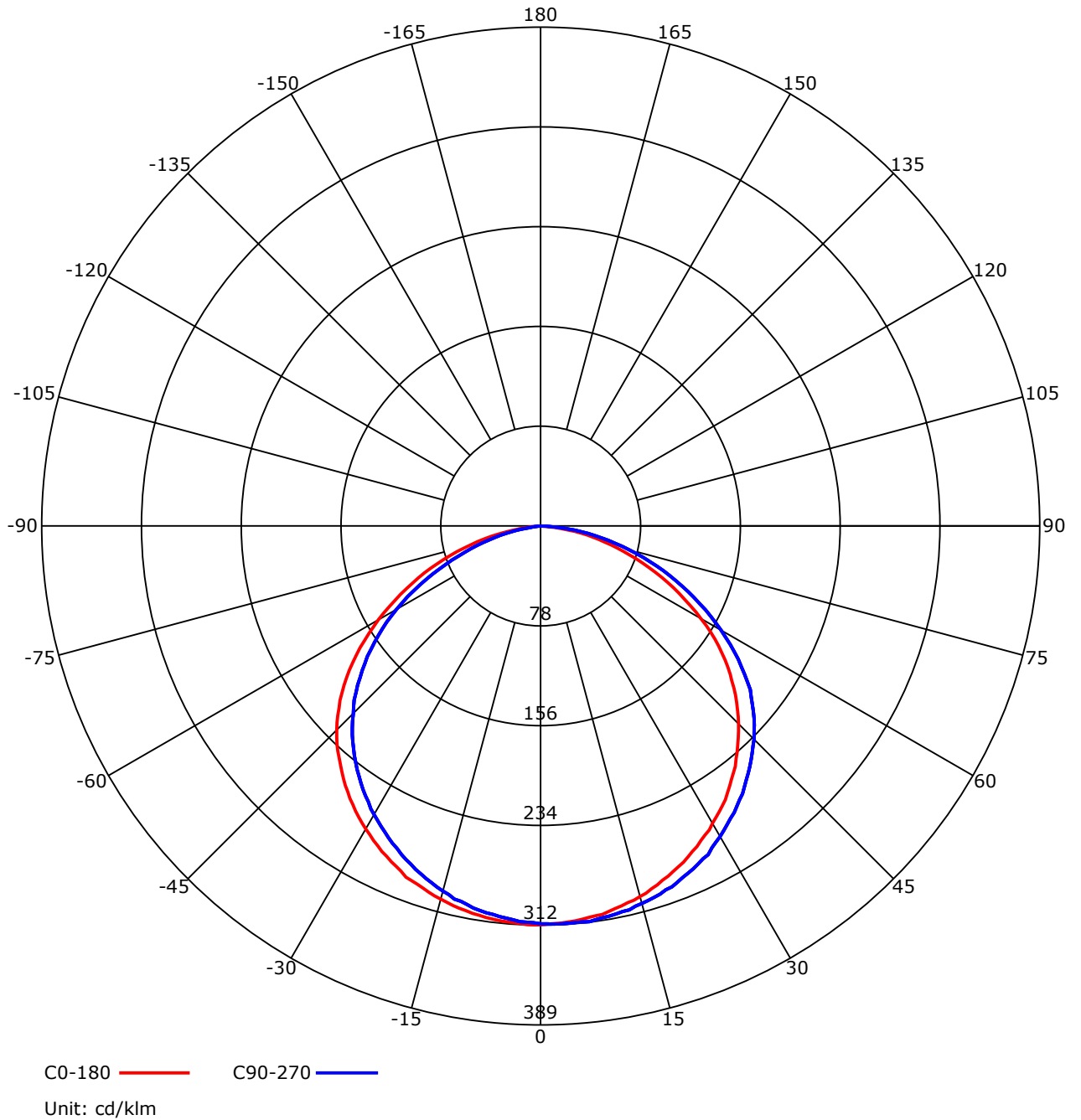
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G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
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 Test Distance: 6.25 m  
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## Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
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G Range: 0 - 90 Deg  
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 Humidity: 65  
 Test Distance: 6.25 m  
 Remarks:

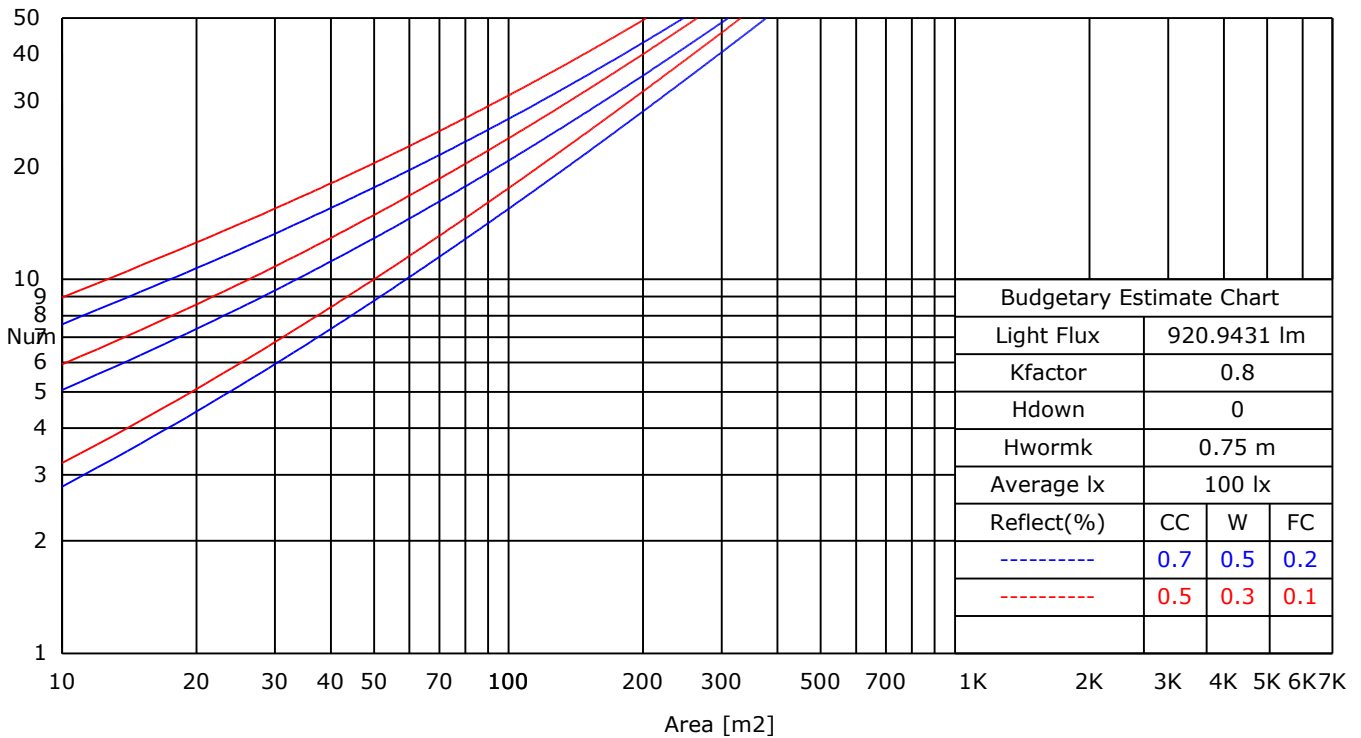
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### UTILIZATION FACTORS TABLE

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	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.04	1.03	1.01	1.03	1.01	1.00	0.99	0.97	0.96	0.95	0.92	0.90	0.88	0.86	0.84	0.79
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.66
3	0.75	0.73	0.71	0.75	0.72	0.69	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.59	0.55
4	0.65	0.62	0.60	0.65	0.62	0.59	0.65	0.60	0.57	0.64	0.58	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.57	0.53	0.51	0.57	0.52	0.49	0.57	0.51	0.47	0.56	0.49	0.44	0.40
6	0.50	0.47	0.45	0.51	0.47	0.44	0.51	0.46	0.43	0.51	0.45	0.41	0.50	0.44	0.39	0.35
7	0.44	0.42	0.40	0.45	0.41	0.39	0.46	0.41	0.38	0.46	0.40	0.36	0.46	0.39	0.34	0.31
8	0.40	0.37	0.35	0.40	0.37	0.35	0.42	0.37	0.34	0.42	0.36	0.32	0.42	0.36	0.31	0.28
9	0.36	0.33	0.32	0.37	0.33	0.31	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.33	0.28	0.25
10	0.32	0.30	0.29	0.33	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.36	0.30	0.25	0.22

### LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



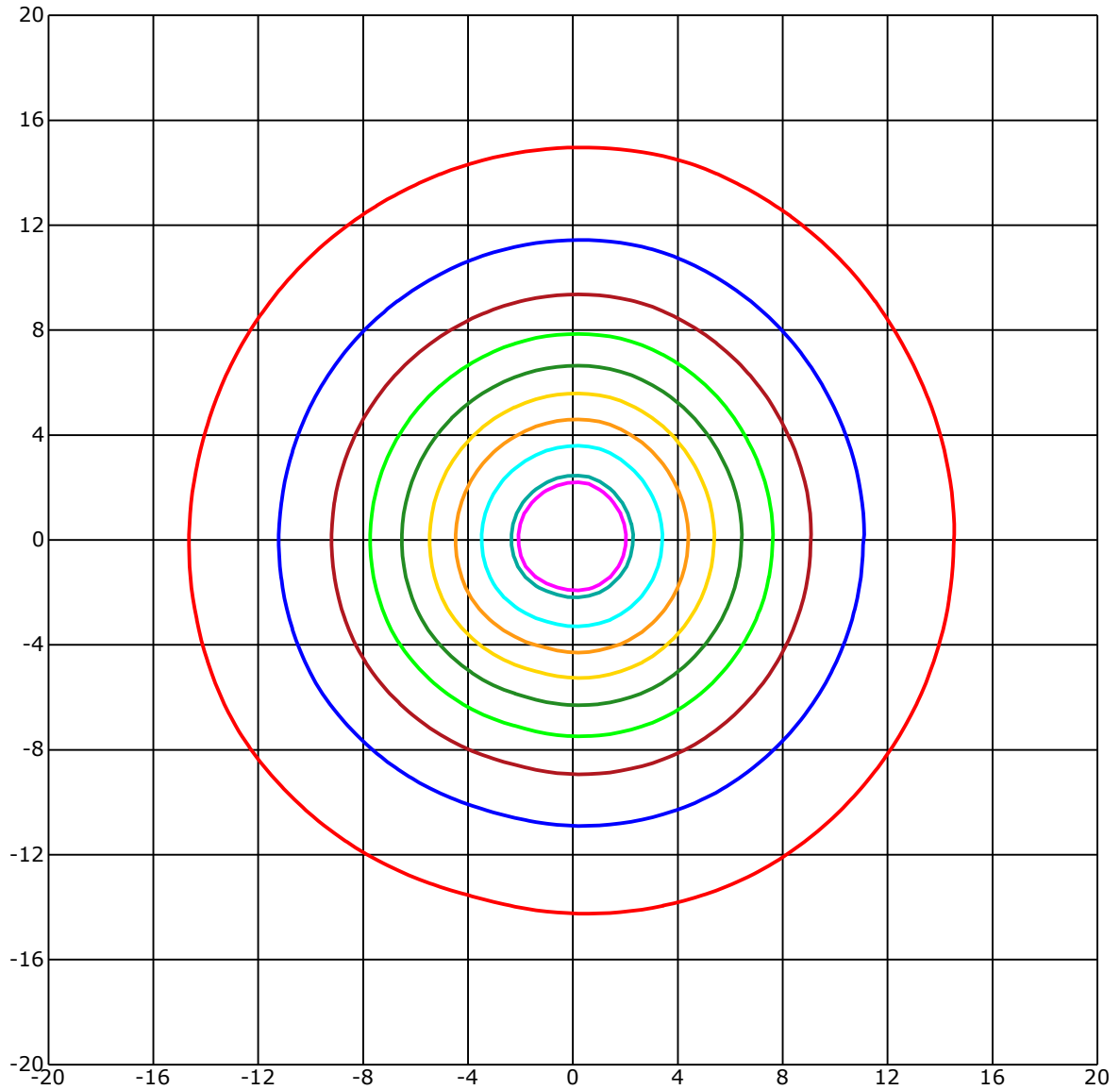
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 11:26:18

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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## ISOLX DIAGRAM



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

— 2.865(92%Emax)	— 1.557(50%Emax)
— 2.803(90%Emax)	— 1.246(40%Emax)
— 2.491(80%Emax)	— 0.934(30%Emax)
— 2.18(70%Emax)	— 0.623(20%Emax)
— 1.868(60%Emax)	— 0.311(10%Emax)

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 11:26:18

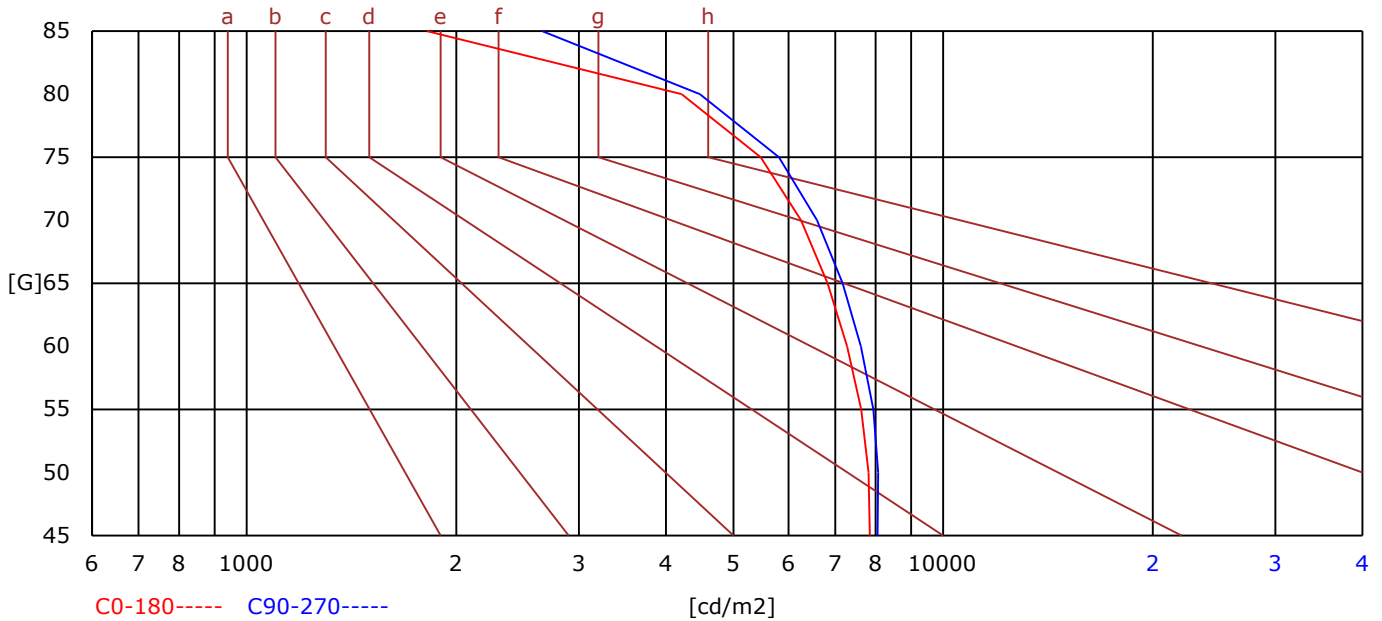
G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-2000B Goniophotometer  
 Humidity: 65  
 Test Distance: 6.25 m  
 Remarks:

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### BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7850	7817	7631	7283	6824	6253	5471	4212	1815
C90	8054	8072	7943	7619	7173	6593	5811	4477	2656
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



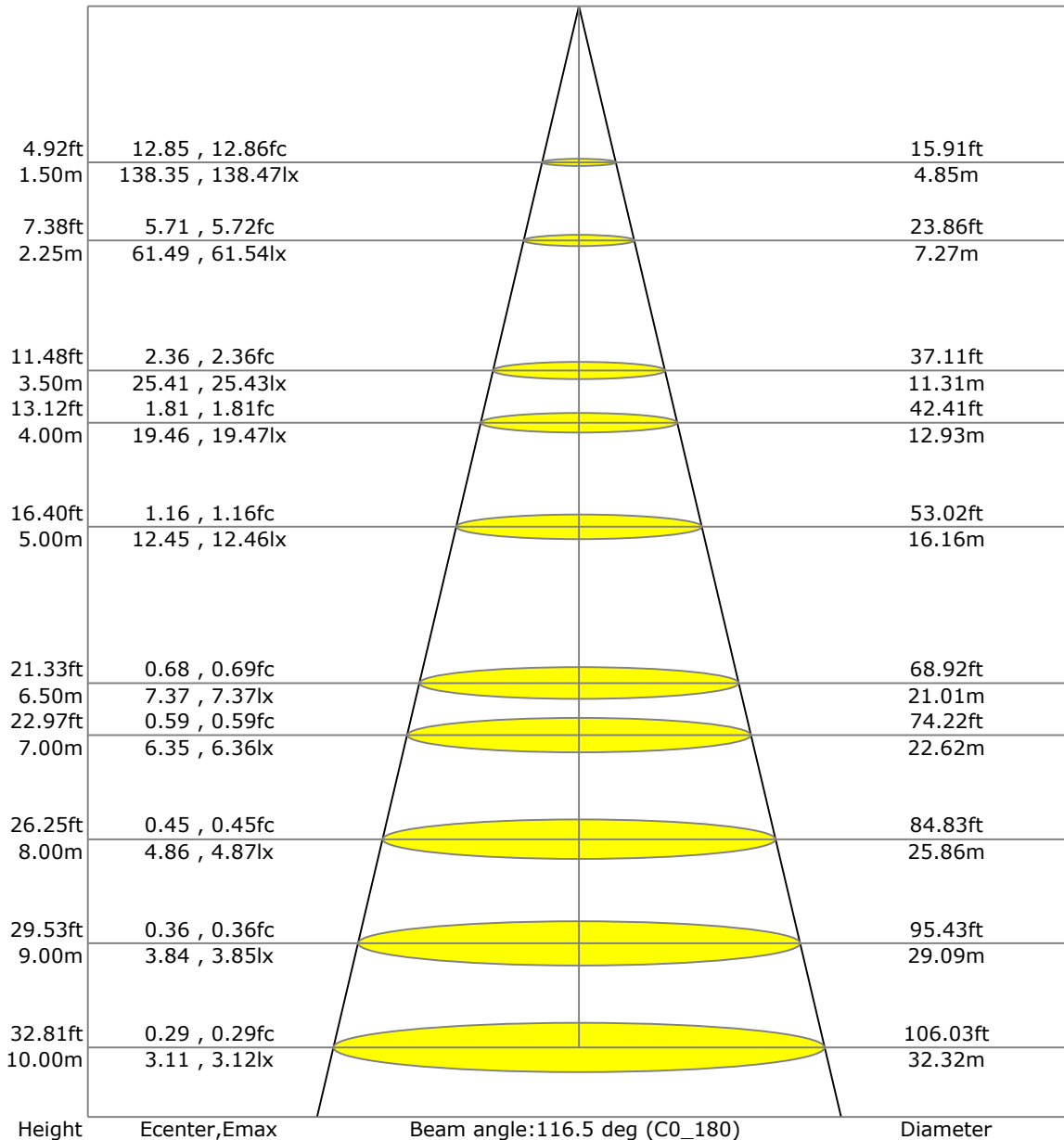
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 11:26:18

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

Report No.:

Test Time: 2025/11/22 11:26:18

### LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 11:26:18

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

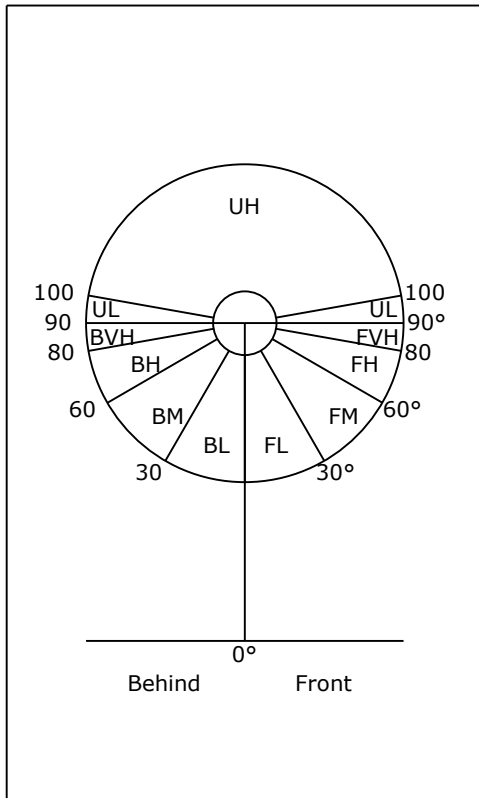
Test Distance: 6.25 m

Remarks:

Report No.:

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### BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	471.6	51.2
FL (0°-30°)	123.3	13.4
FM (30°-60°)	249.4	27.1
FH (60°-80°)	92.3	10.0
FVH (80°-90°)	6.7	0.7

Behind	449.3	48.8
BL (0°-30°)	121.4	13.2
BM (30°-60°)	239.7	26.0
BH (60°-80°)	83.3	9.0
BVH (80°-90°)	5.0	0.5

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 G0
Symmetrical Lighting Fixtures (Type V , Area Light)	B1 U0 G0

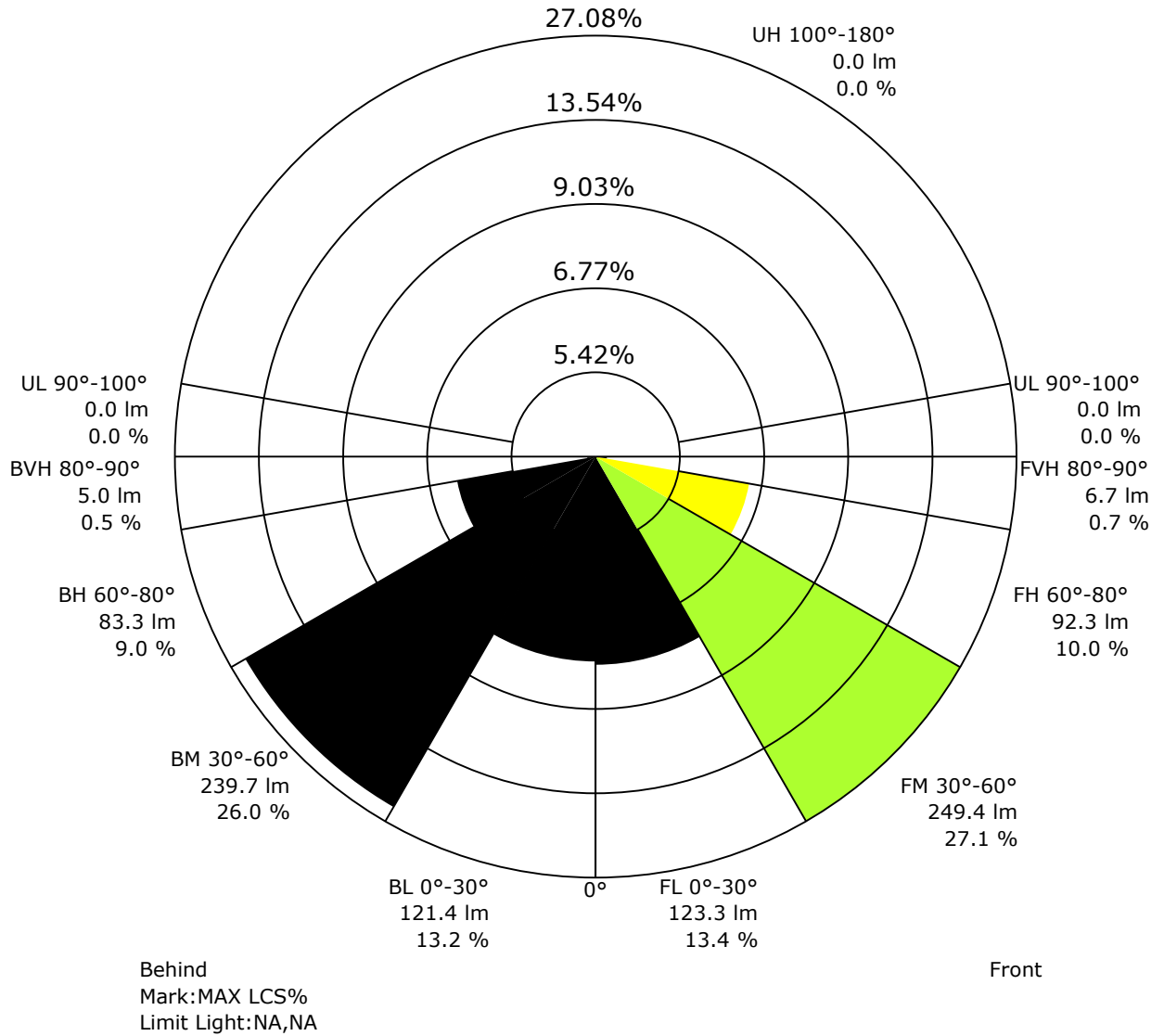
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 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 11:26:18

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

Report No.:

Test Time: 2025/11/22 11:26:18

### LCS 图



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 11:26:18

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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### 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	21.21	21.97	20.97	22.01	22.13	21.57	22.33	21.33	22.38	22.49
3H	20.98	21.68	20.82	21.77	21.95	21.29	21.99	21.13	22.09	22.26
4H	20.80	21.46	20.68	21.58	21.79	21.09	21.76	20.98	21.88	22.09
6H	20.57	21.19	20.51	21.35	21.60	20.86	21.49	20.80	21.64	21.89
8H	20.45	21.05	20.41	21.22	21.49	20.74	21.34	20.70	21.51	21.78
12H	20.32	20.90	20.31	21.09	21.38	20.61	21.19	20.60	21.38	21.67
4H 2H	22.89	23.56	22.78	23.68	23.89	23.62	24.28	23.50	24.40	24.61
3H	22.76	23.33	22.74	23.52	23.81	23.43	24.01	23.42	24.19	24.48
4H	22.60	23.13	22.65	23.35	23.69	23.25	23.77	23.29	24.00	24.33
6H	22.39	22.86	22.50	23.12	23.51	23.01	23.48	23.12	23.74	24.13
8H	22.27	22.70	22.41	22.98	23.40	22.88	23.32	23.02	23.59	24.01
12H	22.13	22.54	22.31	22.83	23.27	22.74	23.14	22.92	23.44	23.88
8H 4H	23.02	23.62	22.98	23.79	24.06	23.94	24.54	23.90	24.71	24.98
6H	22.64	23.01	22.85	23.33	23.79	23.54	23.90	23.75	24.22	24.69
8H	22.53	22.86	22.78	23.20	23.69	23.41	23.74	23.66	24.08	24.57
12H	22.41	22.69	22.70	23.05	23.58	23.28	23.56	23.57	23.92	24.45
12H 4H	22.73	23.14	22.91	23.44	23.87	23.75	24.15	23.93	24.45	24.89
6H	22.57	22.89	22.82	23.23	23.73	23.58	23.91	23.83	24.25	24.74

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
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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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### ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	305.4	306.0	309.1	307.6	307.0	306.1	302.7	304.4	10	29.4	29.4	3.2	3.2
20	290.7	292.9	299.6	295.3	294.6	293.0	285.2	289.6	20	84.8	114.3	12.4	12.4
30	268.0	271.4	280.0	274.8	273.0	272.9	260.0	267.8	30	130.4	244.7	26.6	26.6
40	237.1	240.5	252.0	245.9	243.2	243.7	227.1	237.5	40	160.8	405.5	44.0	44.0
50	197.0	201.0	215.5	207.5	202.2	204.6	184.1	197.3	50	171.5	577.0	62.7	62.7
60	144.5	145.7	162.5	152.4	146.0	150.7	129.8	144.3	60	156.7	733.7	79.7	79.7
70	84.8	85.5	102.0	90.2	85.8	87.4	68.0	83.8	70	115.1	848.8	92.2	92.2
80	32.0	29.3	42.8	31.1	29.5	31.3	18.8	28.6	80	60.5	909.3	98.7	98.7
90	0.5	0.0	0.0	0.0	0.0	1.4	0.1	1.1	90	11.6	920.9	100.0	100.0

Conical surface Flux(90deg) : 491.3 lm

%lum = 53.4%

%lamp = 53.4%

Conical surface Flux(120deg) : 733.7 lm

%lum = 79.7%

%lamp = 79.7%

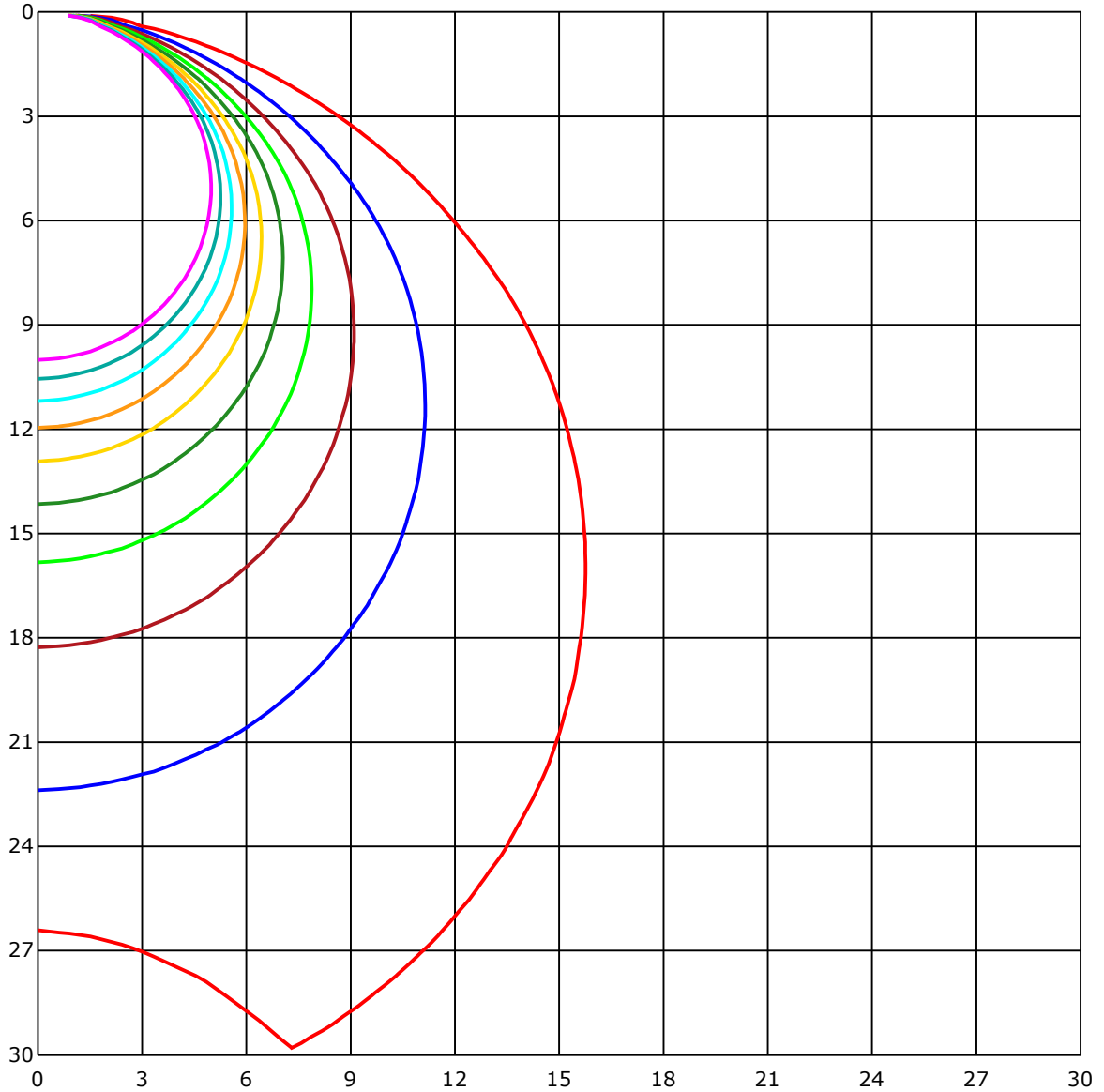
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 Humidity: 65  
 Test Distance: 6.25 m  
 Remarks:

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### SPACE ISOLX DIAGRAM



Unit of illumination:lx

- |         |         |
|---------|---------|
| — 3.108 | — 1.554 |
| — 2.797 | — 1.243 |
| — 2.486 | — 0.932 |
| — 2.176 | — 0.622 |
| — 1.865 | — 0.311 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 11:26:18

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/22 11:26:18

### LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	311.29	311.09	310.47	310.94	311.29	311.09	310.47	310.94	311.29
G1	310.78	311.29	310.47	311.17	311.45	311.56	309.73	310.7	310.78
G2	310.59	311.25	310.94	311.02	311.29	310.43	309.53	310.27	310.59
G3	310.35	310.66	310.86	310.74	310.63	310.7	309.34	310.31	310.35
G4	309.73	310.23	310.82	311.13	310.27	310.59	308.16	309.92	309.73
G5	309.41	310.12	310.74	310.35	310.08	310.12	307.27	309.02	309.41
G6	308.63	308.91	310.82	310.55	309.69	309.02	306.56	308.01	308.63
G7	307.77	308.75	311.05	309.57	309.14	309.3	305.51	307.7	307.77
G8	307.19	307.85	310.2	309.26	308.55	307.85	304.88	307.34	307.19
G9	306.91	307.07	309.57	308.24	307.5	307.7	303.67	305.9	306.91
G10	305.43	306.02	309.1	307.62	307.03	306.13	302.66	304.41	305.43
G11	304.14	305.12	308.32	306.68	305.82	305.31	301.02	303.48	304.14
G12	303.13	304.22	307.54	306.09	305.0	304.38	299.41	302.19	303.13
G13	301.72	302.7	307.42	304.88	303.98	303.01	298.98	300.51	301.72
G14	301.05	301.37	305.86	303.79	302.66	301.76	296.52	299.57	301.05
G15	299.26	300.55	305.08	303.05	301.56	300.9	295.12	298.55	299.26
G16	298.28	299.1	303.98	301.68	300.43	298.91	293.16	296.17	298.28
G17	296.02	297.54	302.97	299.77	298.83	297.54	291.13	294.8	296.02
G18	294.53	296.25	302.07	298.75	297.19	296.72	289.38	293.13	294.53
G19	292.38	294.34	300.23	296.91	295.7	295.16	287.19	291.72	292.38
G20	290.74	292.85	299.65	295.31	294.57	292.97	285.16	289.65	290.74
G21	288.71	291.13	297.85	294.1	293.55	291.48	282.66	287.97	288.71
G22	286.76	288.91	295.94	291.72	290.59	289.96	280.63	285.98	286.76
G23	285.0	286.91	294.45	290.04	288.59	288.52	278.52	284.96	285.0
G24	282.58	284.88	292.81	288.32	286.76	286.29	275.55	282.38	282.58
G25	280.16	283.16	290.86	286.6	284.49	284.06	273.36	280.23	280.16
G26	278.36	280.31	288.91	284.45	282.66	281.88	270.82	277.99	278.36
G27	275.47	277.77	287.77	281.64	280.04	279.8	267.97	275.74	275.47
G28	273.16	275.78	284.45	279.65	277.97	277.54	265.43	273.4	273.16
G29	271.33	273.16	282.07	277.42	275.35	275.04	262.58	270.47	271.33
G30	267.97	271.41	280.04	274.84	273.01	272.93	260.04	267.77	267.97
G31	265.39	267.66	277.23	272.19	270.59	269.69	257.38	265.2	265.39
G32	262.97	264.88	274.65	269.73	267.85	267.23	253.95	262.77	262.97
G33	260.27	262.97	272.07	266.6	265.2	264.61	251.02	260.39	260.27
G34	257.54	259.38	269.88	264.06	262.3	262.11	248.01	256.91	257.54
G35	254.22	256.17	266.84	261.09	259.57	259.38	244.57	254.65	254.22
G36	250.86	253.4	263.91	258.59	256.33	256.21	241.33	251.33	250.86

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 11:26:18

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/22 11:26:18

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	247.34	249.96	261.64	255.16	253.48	253.44	238.16	247.81	247.34	
G38	244.41	246.48	258.28	251.76	250.2	249.84	234.41	244.77	244.41	
G39	241.41	243.55	255.04	249.06	246.64	246.48	230.98	240.98	241.41	
G40	237.11	240.51	251.95	245.86	243.2	243.71	227.07	237.54	237.11	
G41	233.59	236.95	248.79	242.42	239.88	239.65	223.48	234.38	233.59	
G42	229.84	232.93	245.55	239.06	236.48	235.94	219.65	230.66	229.84	
G43	226.13	229.61	241.99	235.27	233.05	232.81	215.66	226.8	226.13	
G44	222.3	225.66	238.63	231.99	229.22	228.83	211.41	222.7	222.3	
G45	218.16	222.03	235.51	227.81	225.2	225.08	206.8	218.79	218.16	
G46	214.3	217.81	231.6	224.49	220.86	220.7	202.93	214.65	214.3	
G47	209.84	213.83	227.85	220.39	216.56	217.07	198.98	210.74	209.84	
G48	205.78	210.27	224.06	216.21	211.76	212.93	194.02	206.21	205.78	
G49	201.41	205.39	219.77	212.03	207.5	208.32	189.14	202.34	201.41	
G50	196.95	200.98	215.55	207.54	202.19	204.57	184.14	197.34	196.95	
G51	192.03	196.37	211.41	202.89	197.62	199.84	179.14	192.81	192.03	
G52	187.7	191.64	207.46	198.16	192.07	194.88	174.14	187.85	187.7	
G53	182.81	186.33	201.84	193.4	187.07	189.96	169.34	182.58	182.81	
G54	177.97	180.7	196.41	187.58	181.25	184.49	163.63	177.5	177.97	
G55	172.62	175.08	190.98	182.23	175.7	179.61	158.32	172.07	172.62	
G56	167.5	169.61	185.82	176.13	169.92	173.44	152.77	166.56	167.5	
G57	162.03	163.32	179.96	170.39	163.79	168.32	147.27	161.13	162.03	
G58	156.41	157.93	174.3	164.22	158.01	162.23	141.72	155.43	156.41	
G59	150.86	151.99	168.24	158.2	152.07	156.45	135.7	149.65	150.86	
G60	144.49	145.66	162.5	152.38	145.98	150.66	129.84	144.3	144.49	
G61	138.59	139.84	156.37	146.09	140.0	144.22	123.67	138.28	138.59	
G62	132.23	133.48	150.39	139.73	133.79	137.85	117.66	132.38	132.23	
G63	126.09	127.62	144.26	133.52	127.77	131.88	111.09	126.45	126.09	
G64	120.2	121.6	138.09	127.15	121.84	125.35	105.0	120.2	120.2	
G65	114.34	115.35	132.07	121.25	115.59	119.18	98.79	114.34	114.34	
G66	108.48	109.65	125.98	114.77	109.69	112.54	92.5	108.05	108.48	
G67	102.77	103.48	120.04	108.63	103.75	106.21	86.33	102.11	102.77	
G68	96.6	97.54	113.75	102.42	97.77	100.16	80.12	95.94	96.6	
G69	90.66	91.52	107.77	96.09	91.91	93.44	74.14	89.57	90.66	
G70	84.8	85.55	101.95	90.2	85.82	87.42	68.01	83.83	84.8	
G71	78.91	79.57	95.51	83.91	80.0	81.33	62.42	77.62	78.91	
G72	73.24	73.91	89.57	78.05	74.14	75.04	56.8	71.68	73.24	
G73	67.46	68.13	83.52	71.91	68.28	69.06	51.56	65.94	67.46	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 11:26:18

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

