

Report No.:

Test Time: 2025/11/21 15:12:06

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 19988LED

Voltage(V): 119.10 V
 Current(A): 0.1830 A
 Power(W): 19.79 W
 Power Factor: 0.9040
 Lamp Luminous Flux: 806.46

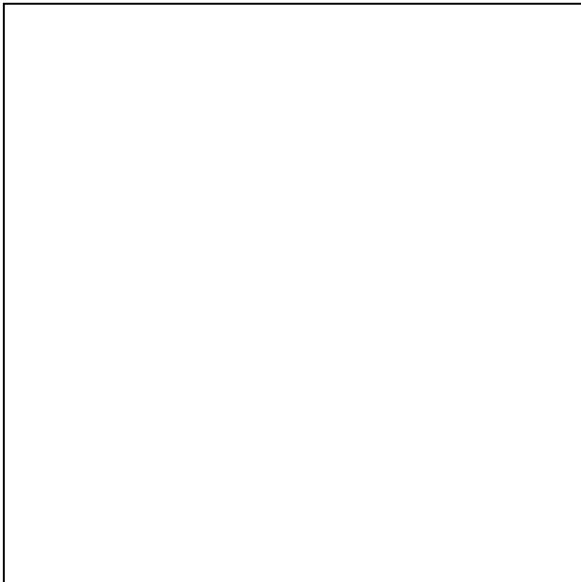
Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

Photometric Results

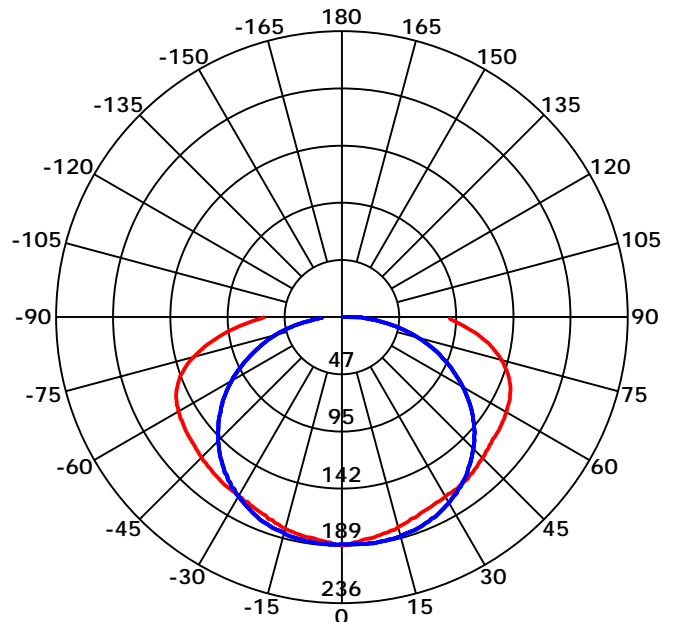
Luminaire Luminous Flux: 806.459 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 40.75 lm/W
 Beam Angle(50%) C0-180,C90-270: 170.5,130.2
 Field Angle(10%) C0-180,C90-270: 0.0,174.7
 S/MH C0-180,C90-270: 1.349,1.349

Max. Intensity: 189.10 cd
 Max.Intensity Angle: C=180 Gamma=0
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 189.10 cd
 Effective Luminous Flux: 806.46 lm
 ERP(φ use)(120deg): 504.74 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 170.5 deg,130.2 deg

Average Beam Angle: 150.3 deg

C0-180 ——— C90-270 ———

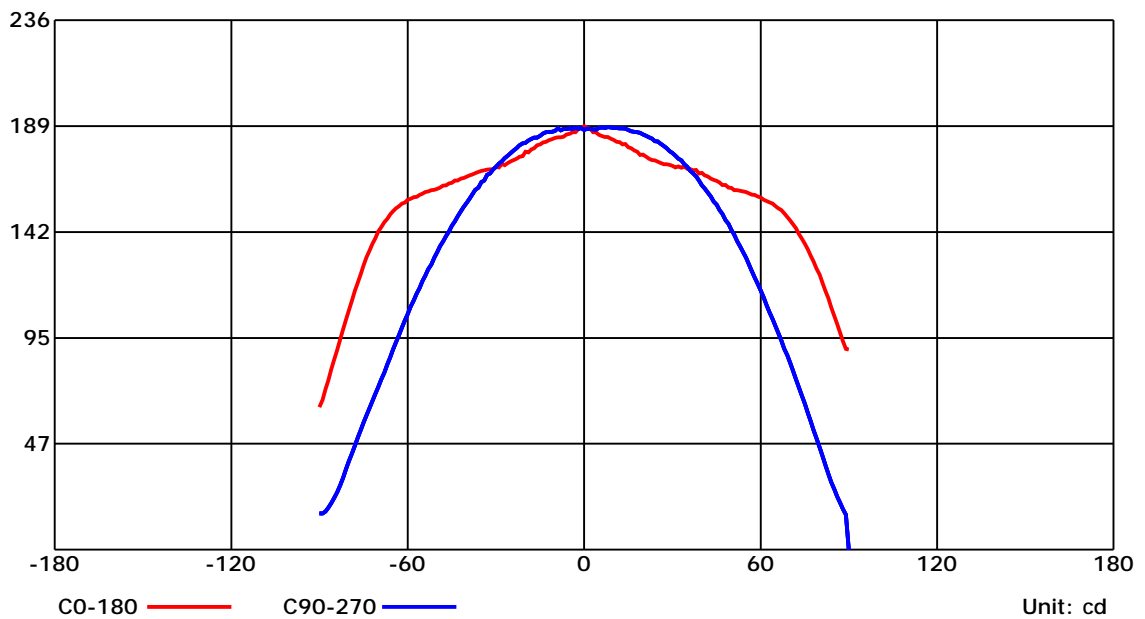
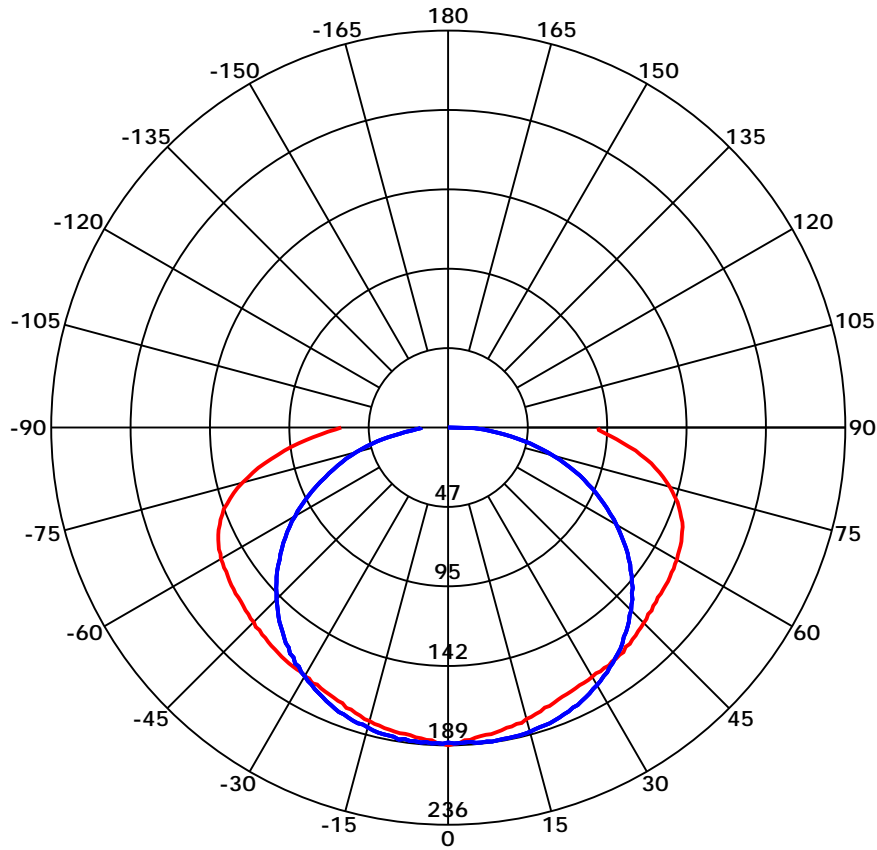
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 15:12:06

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



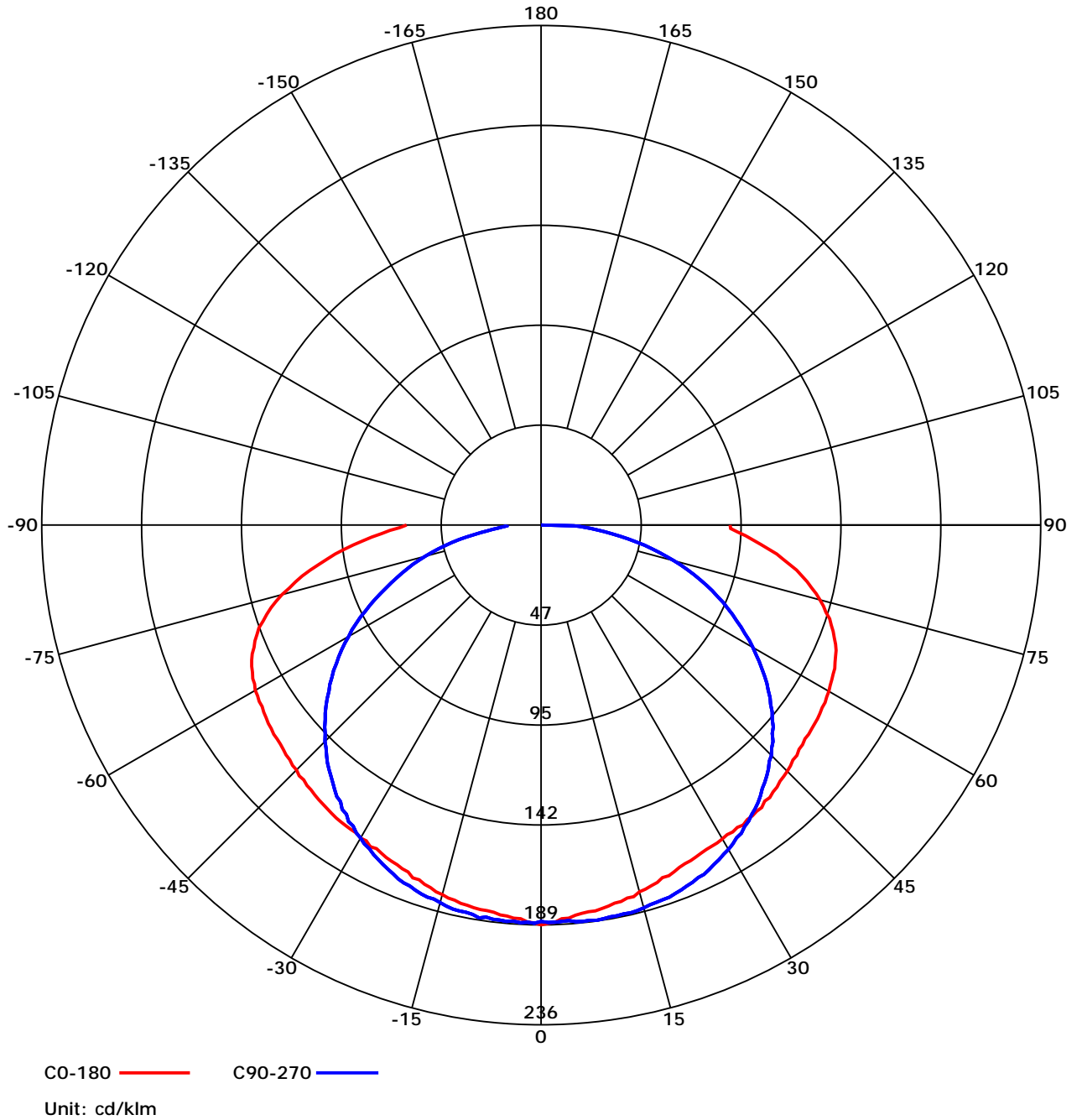
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Luminous Intensity Distribution Curve



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G Range: 0 - 90 Deg
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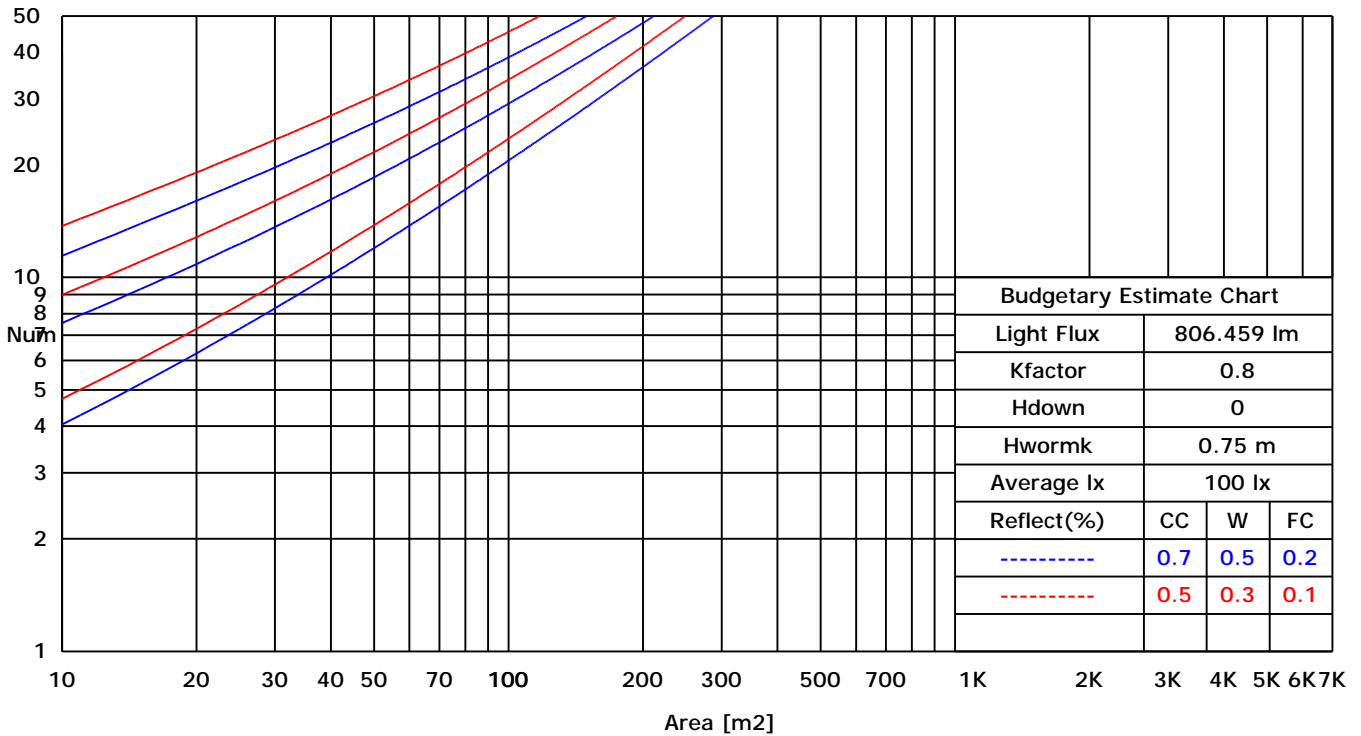
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UTILIZATION FACTORS TABLE

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	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	0.79	0.77	0.75	0.70
2	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.71	0.67	0.64	0.67	0.63	0.59	0.55
3	0.62	0.59	0.57	0.63	0.59	0.56	0.62	0.58	0.54	0.61	0.56	0.52	0.58	0.53	0.48	0.44
4	0.52	0.49	0.47	0.53	0.49	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.52	0.45	0.40	0.37
5	0.45	0.42	0.40	0.46	0.42	0.39	0.47	0.42	0.38	0.47	0.41	0.36	0.46	0.40	0.34	0.31
6	0.39	0.36	0.34	0.40	0.36	0.34	0.41	0.36	0.33	0.42	0.36	0.31	0.42	0.35	0.30	0.27
7	0.34	0.32	0.30	0.35	0.32	0.29	0.37	0.32	0.28	0.38	0.32	0.27	0.38	0.31	0.26	0.23
8	0.30	0.28	0.26	0.32	0.28	0.26	0.33	0.28	0.25	0.34	0.28	0.24	0.35	0.28	0.23	0.20
9	0.27	0.25	0.23	0.28	0.25	0.23	0.30	0.25	0.22	0.31	0.26	0.22	0.32	0.26	0.21	0.18
10	0.25	0.22	0.21	0.26	0.23	0.21	0.28	0.23	0.20	0.29	0.23	0.19	0.30	0.23	0.19	0.16

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



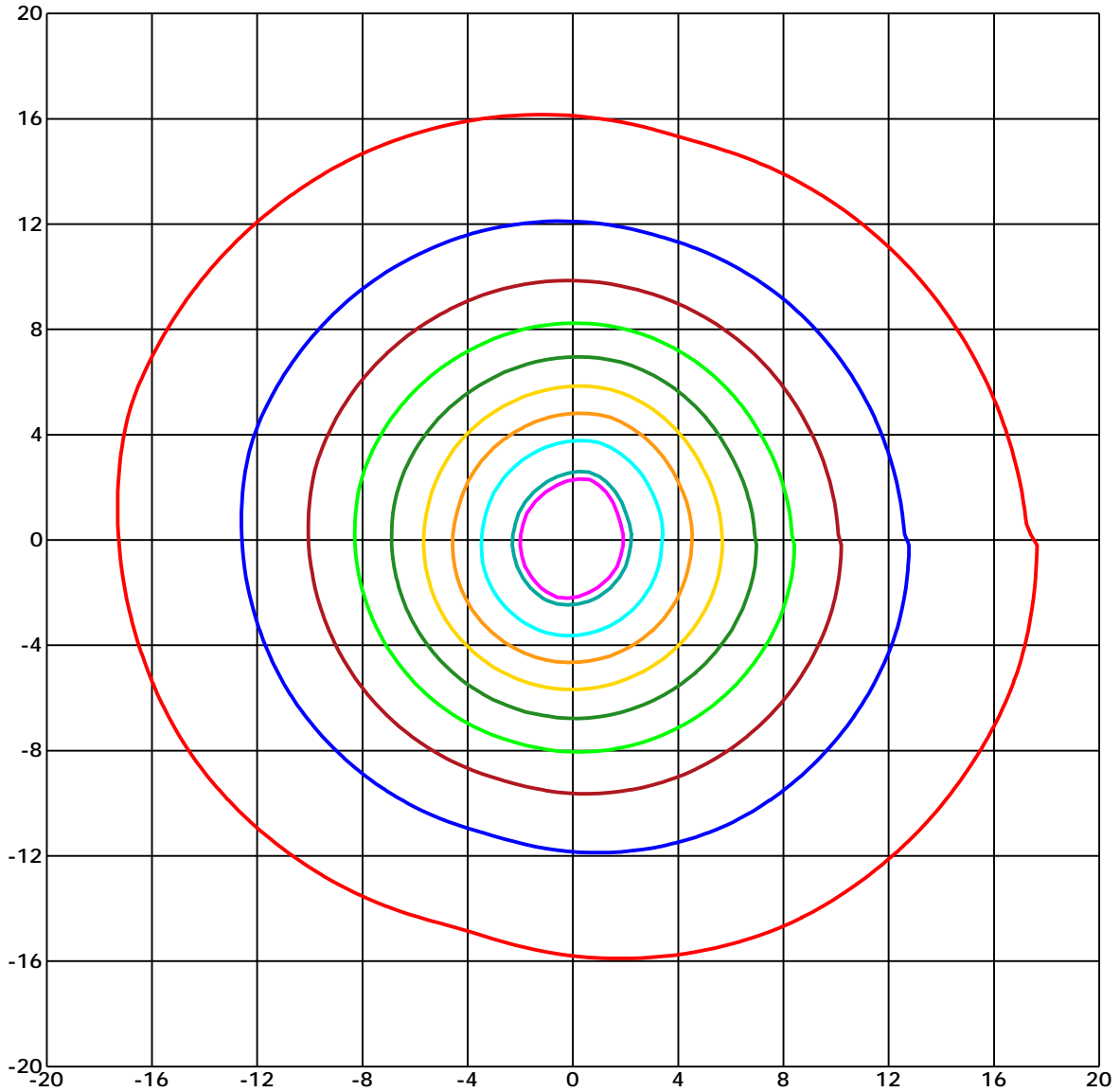
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 15:12:06

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)

- | | |
|------------------|------------------|
| — 1.74(92%Emax) | — 0.946(50%Emax) |
| — 1.702(90%Emax) | — 0.756(40%Emax) |
| — 1.513(80%Emax) | — 0.567(30%Emax) |
| — 1.324(70%Emax) | — 0.378(20%Emax) |
| — 1.135(60%Emax) | — 0.189(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 15:12:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

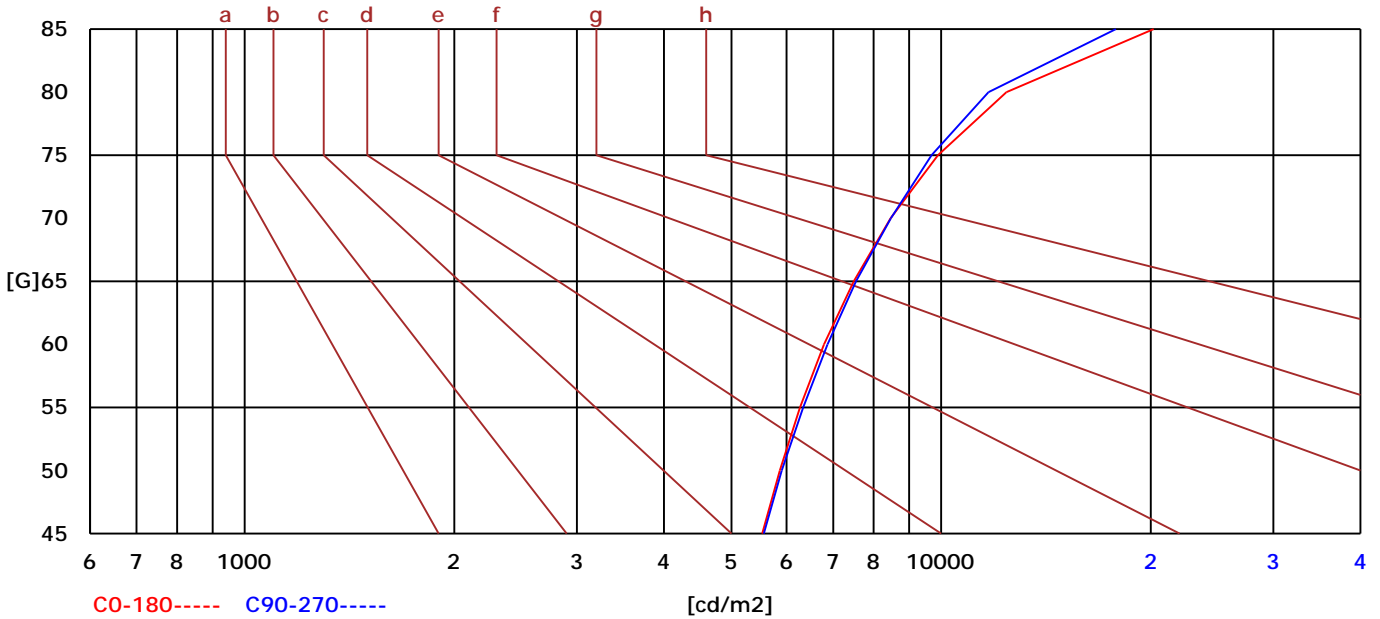
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5538	5870	6269	6791	7494	8463	9893	12406	20191
C90	5566	5905	6339	6873	7547	8466	9686	11698	17827
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



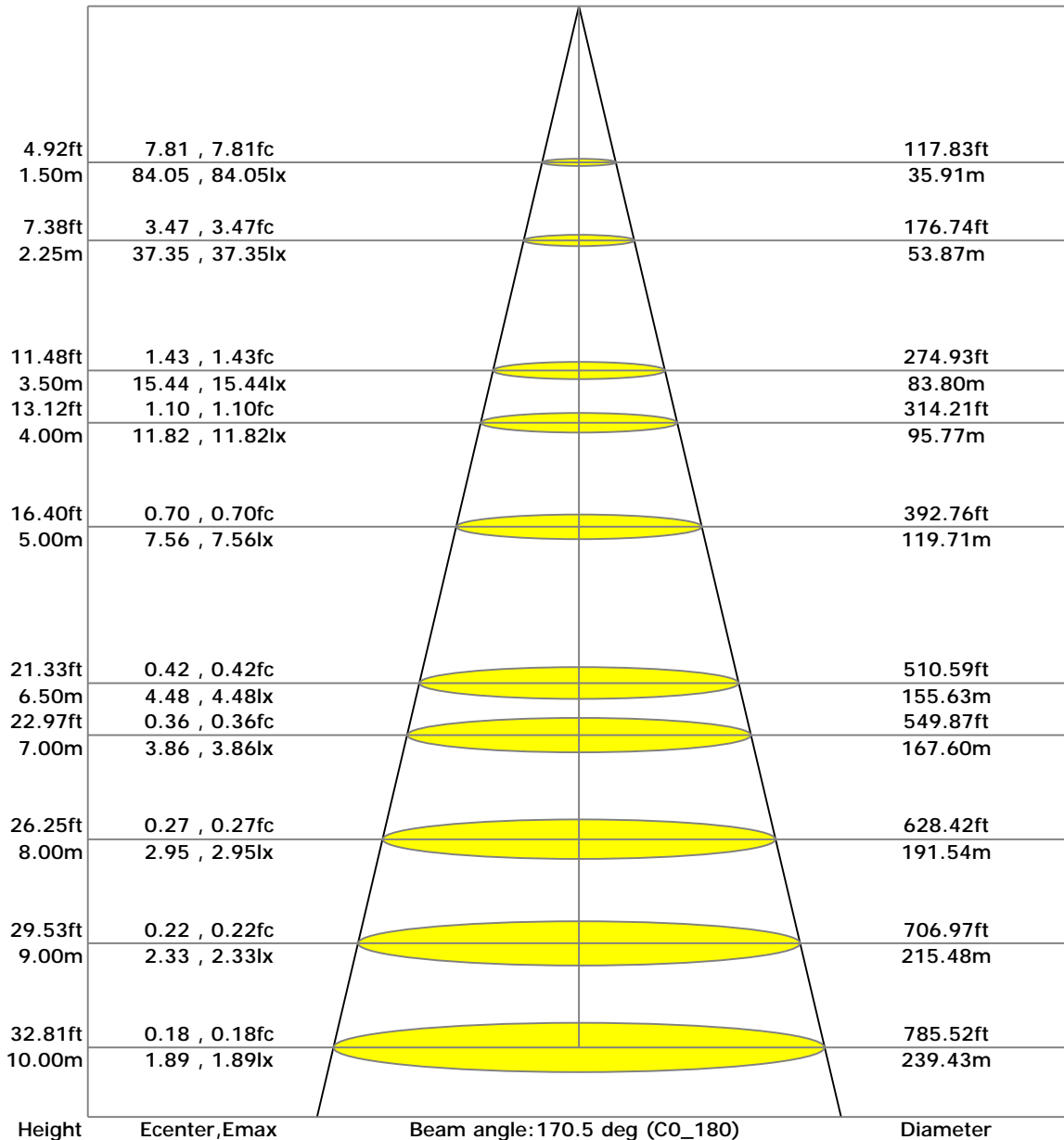
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 15:12:06

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: 2025/11/21 15:12:06

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 15:12:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

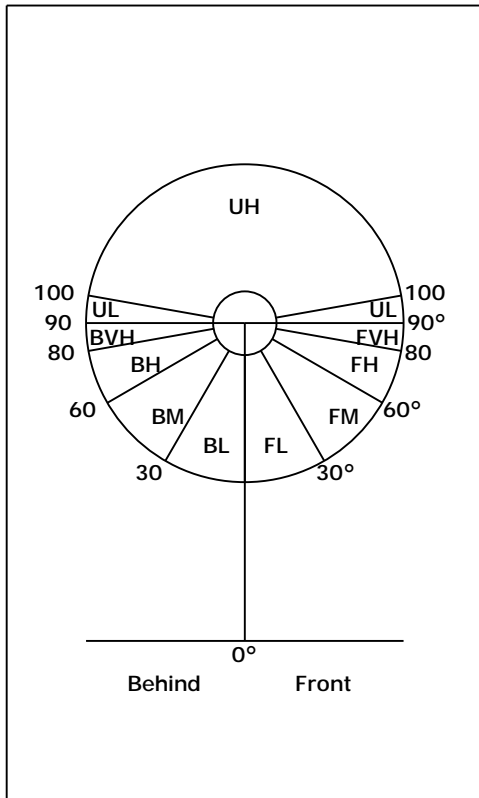
Test Distance: 6.25 m

Remarks:

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Test Time: 2025/11/21 15:12:06

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	404.2	50.1
FL (0°-30°)	75.5	9.4
FM (30°-60°)	178.5	22.1
FH (60°-80°)	115.1	14.3
FVH (80°-90°)	35.1	4.3

Behind	402.3	49.9
BL (0°-30°)	75.2	9.3
BM (30°-60°)	175.5	21.8
BH (60°-80°)	114.0	14.1
BVH (80°-90°)	37.6	4.7

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

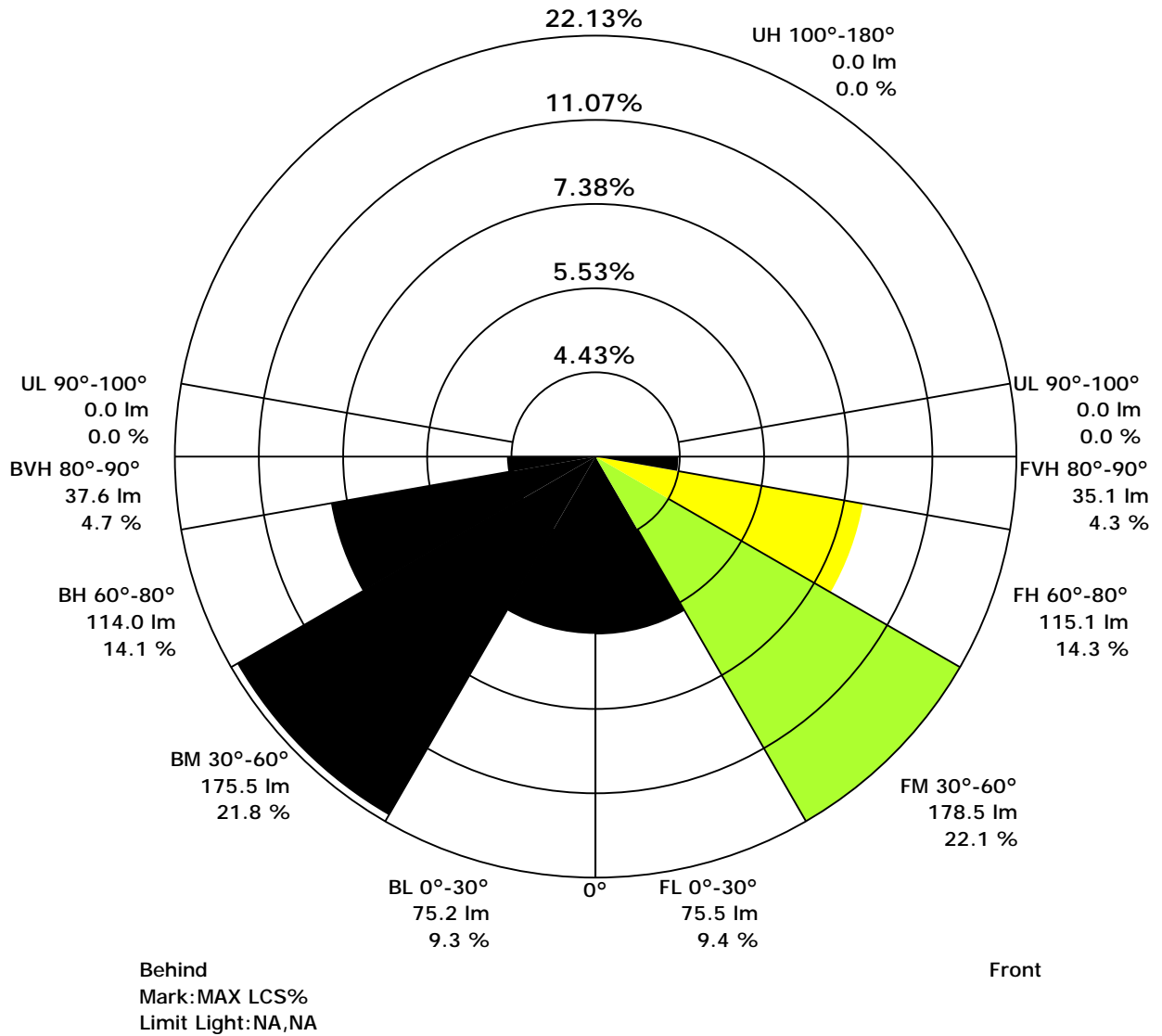
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 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 15:12:06

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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LCS 图



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 15:12:06

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	21.34	22.27	20.97	22.19	22.19	20.77	21.70	20.40	21.62	21.63
	3H	21.14	22.00	20.85	21.98	22.05	20.74	21.59	20.45	21.58	21.65
	4H	20.96	21.78	20.72	21.79	21.90	20.65	21.46	20.41	21.48	21.59
	6H	20.73	21.50	20.55	21.55	21.71	20.47	21.24	20.29	21.29	21.45
	8H	20.59	21.34	20.44	21.41	21.59	20.34	21.08	20.19	21.15	21.33
	12H	20.46	21.17	20.34	21.27	21.47	20.20	20.91	20.08	21.01	21.21
4H	2H	25.45	26.26	25.21	26.28	26.39	23.55	24.36	23.31	24.38	24.49
	3H	25.38	26.09	25.26	26.19	26.39	23.68	24.40	23.56	24.49	24.70
	4H	25.24	25.90	25.19	26.04	26.30	23.69	24.34	23.64	24.48	24.74
	6H	25.02	25.61	25.05	25.80	26.12	23.62	24.21	23.65	24.40	24.72
	8H	24.89	25.43	24.95	25.65	26.00	23.56	24.10	23.62	24.32	24.67
	12H	24.73	25.24	24.84	25.48	25.86	23.44	23.94	23.55	24.19	24.57
8H	4H	27.51	28.25	27.36	28.32	28.50	24.47	25.21	24.32	25.29	25.46
	6H	27.60	28.06	27.75	28.33	28.75	24.98	25.44	25.13	25.71	26.12
	8H	27.52	27.92	27.71	28.22	28.67	25.04	25.44	25.24	25.74	26.20
	12H	27.39	27.74	27.64	28.07	28.56	25.08	25.43	25.33	25.75	26.25
12H	4H	28.61	29.11	28.71	29.35	29.73	25.14	25.64	25.25	25.88	26.27
	6H	28.67	29.07	28.86	29.37	29.82	25.36	25.76	25.56	26.06	26.51

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 15:12:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

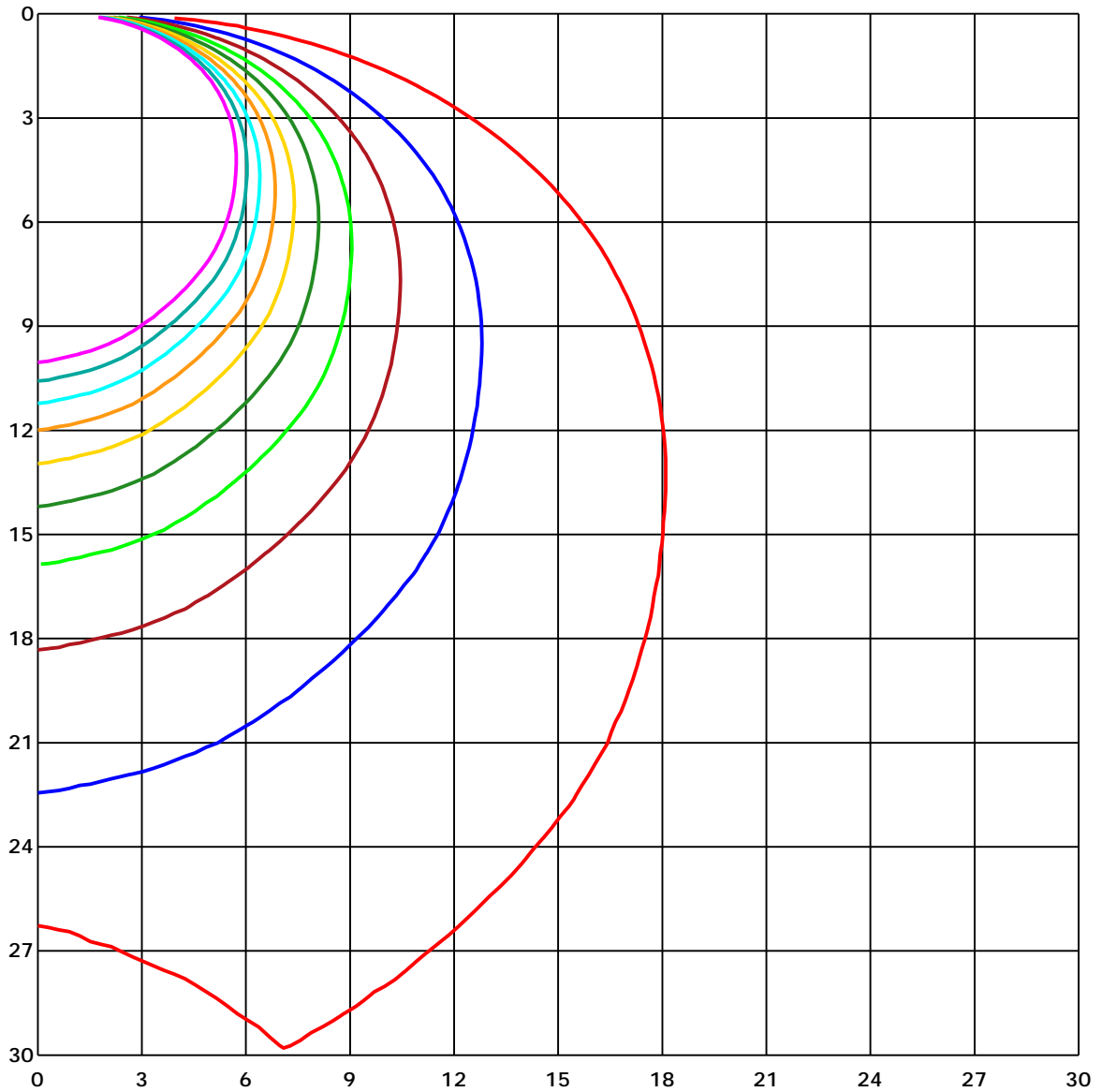
Test Distance: 6.25 m

Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- 1.878
- 0.939
- 1.69
- 0.751
- 1.502
- 0.563
- 1.314
- 0.376
- 1.127
- 0.188

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 15:12:06

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: 2025/11/21 15:12:06

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	189.1	187.42	187.38	188.52	189.1	187.42	187.38	188.52	189.1
G1	188.44	186.8	188.01	188.09	188.28	187.81	188.32	188.16	188.44
G2	187.97	186.09	187.89	187.93	187.85	187.46	187.97	187.77	187.97
G3	186.41	185.82	187.66	186.95	186.41	187.7	188.36	187.62	186.41
G4	186.33	184.8	187.58	186.95	186.37	187.27	187.77	187.23	186.33
G5	185.27	184.34	188.28	186.33	185.66	187.34	188.13	186.64	185.27
G6	184.69	183.79	188.48	186.13	185.35	186.41	187.77	186.25	184.69
G7	184.26	183.91	188.28	185.23	184.45	185.78	187.81	185.39	184.26
G8	184.22	183.09	188.71	184.92	184.1	185.31	187.27	185.55	184.22
G9	183.55	183.4	188.48	184.73	184.1	185.43	188.05	184.49	183.55
G10	182.93	182.73	188.2	184.61	183.79	184.45	186.95	184.3	182.93
G11	182.11	182.27	188.28	184.14	183.24	184.14	186.6	183.52	182.11
G12	181.99	182.62	188.05	184.34	182.89	184.18	186.52	183.32	181.99
G13	181.02	181.95	188.16	183.71	182.11	183.24	186.33	183.16	181.02
G14	181.13	181.25	187.93	183.55	181.76	183.16	185.78	182.85	181.13
G15	179.61	181.17	187.46	183.16	180.94	182.7	184.8	182.03	179.61
G16	179.18	180.55	186.84	182.27	180.51	182.15	183.98	181.33	179.18
G17	178.28	180.08	186.52	181.8	179.22	181.68	183.98	180.7	178.28
G18	177.73	179.26	186.33	181.95	178.71	180.94	183.4	180.47	177.73
G19	176.29	178.63	186.13	180.9	177.42	180.27	182.62	179.38	176.29
G20	176.45	177.73	185.39	180.51	177.62	180.12	181.68	179.06	176.45
G21	175.55	177.23	184.88	179.53	175.74	179.53	181.37	178.13	175.55
G22	174.57	176.33	184.1	178.67	175.35	178.52	180.47	177.7	174.57
G23	173.98	175.23	183.52	177.97	174.57	178.05	179.18	176.68	173.98
G24	173.75	174.77	182.46	177.11	173.98	177.07	178.2	176.29	173.75
G25	173.24	174.26	182.23	176.21	173.44	176.52	177.07	174.84	173.24
G26	172.66	173.16	181.21	175.66	172.7	175.51	175.9	174.34	172.66
G27	172.11	172.19	180.2	174.61	171.68	174.53	174.84	173.16	172.11
G28	172.07	171.52	179.22	174.1	172.3	173.48	173.32	172.54	172.07
G29	171.84	170.78	178.01	172.54	170.74	172.85	172.42	171.25	171.84
G30	171.45	169.45	177.15	172.11	170.94	171.68	170.9	170.74	171.45
G31	170.74	168.67	175.94	170.59	169.84	170.9	169.84	169.53	170.74
G32	171.09	167.58	174.49	169.73	169.84	169.3	167.89	168.63	171.09
G33	170.51	167.34	173.83	168.44	169.65	168.28	167.34	167.58	170.51
G34	171.05	166.05	172.07	167.97	169.38	167.3	164.88	166.84	171.05
G35	170.04	165.12	171.02	166.56	169.06	165.86	164.14	165.51	170.04
G36	169.96	164.41	169.3	165.98	168.63	165.04	161.64	165.0	169.96

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 15:12:06

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 DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	169.41	163.98	168.13	164.69	168.09	163.91	160.74	163.79	169.41	
G38	169.57	162.66	166.68	164.06	167.54	162.5	158.71	162.46	169.57	
G39	168.01	162.19	164.88	162.81	167.15	161.52	156.68	162.07	168.01	
G40	168.2	161.13	162.66	161.8	166.6	160.43	154.88	161.17	168.2	
G41	167.15	160.39	161.29	160.98	165.94	159.3	153.09	160.12	167.15	
G42	166.72	159.18	159.49	160.39	165.7	158.2	151.13	159.1	166.72	
G43	165.7	158.52	157.7	159.3	164.77	156.99	148.87	158.36	165.7	
G44	165.16	157.5	155.39	159.1	164.88	155.86	146.56	157.54	165.16	
G45	164.65	156.64	154.06	157.42	163.83	154.65	144.65	156.29	164.65	
G46	163.98	155.51	151.68	156.56	163.55	153.59	142.03	155.78	163.98	
G47	162.81	154.38	150.0	155.04	162.73	152.5	140.16	154.53	162.81	
G48	162.85	153.05	147.15	154.26	162.46	151.99	137.46	153.36	162.85	
G49	161.64	152.19	145.47	152.85	161.72	150.74	135.47	152.07	161.64	
G50	161.52	150.94	142.77	151.84	161.13	149.1	132.85	151.64	161.52	
G51	160.59	149.38	140.66	150.55	160.74	148.16	130.43	150.0	160.59	
G52	160.59	148.2	137.81	149.69	160.59	146.84	127.38	148.71	160.59	
G53	160.2	146.76	135.59	148.55	159.92	145.63	125.23	147.46	160.2	
G54	159.92	145.2	132.81	147.03	159.61	144.41	122.34	146.45	159.92	
G55	159.61	143.83	130.31	145.43	158.91	143.16	120.0	144.8	159.61	
G56	159.14	142.07	127.34	144.22	158.32	142.19	116.84	143.75	159.14	
G57	158.55	140.43	124.38	142.54	157.5	140.78	114.3	142.3	158.55	
G58	158.4	138.98	121.52	141.25	157.42	139.06	111.41	140.9	158.4	
G59	157.62	137.5	118.55	139.22	156.64	137.93	108.48	139.34	157.62	
G60	157.23	135.82	115.7	137.46	156.25	136.21	105.16	138.16	157.23	
G61	156.29	134.02	112.66	135.55	155.0	134.53	102.42	136.17	156.29	
G62	155.7	132.3	109.18	133.63	154.57	132.77	99.26	134.8	155.7	
G63	155.12	130.47	106.13	131.56	153.36	130.78	95.98	132.97	155.12	
G64	154.49	128.24	102.89	129.84	152.42	129.06	92.54	130.98	154.49	
G65	153.36	126.68	99.84	127.58	151.13	126.72	89.41	129.65	153.36	
G66	152.42	124.34	96.64	125.78	149.65	125.04	85.82	128.01	152.42	
G67	151.64	122.58	93.52	123.16	147.62	122.58	82.62	125.74	151.64	
G68	150.27	120.31	89.8	120.78	146.17	120.51	79.06	123.67	150.27	
G69	148.52	118.55	86.72	118.32	143.98	118.28	75.98	121.76	148.52	
G70	146.99	115.78	83.36	115.82	142.15	115.63	72.66	119.65	146.99	
G71	145.23	113.71	79.8	112.89	139.1	113.4	69.65	117.46	145.23	
G72	143.48	110.86	76.05	109.92	136.6	110.63	66.48	115.63	143.48	
G73	140.9	108.01	72.5	106.76	133.67	108.01	63.36	112.85	140.9	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 15:12:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

