

Report No.:

Test Time: 2026/1/19 9:18:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 59077LEDDCS
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

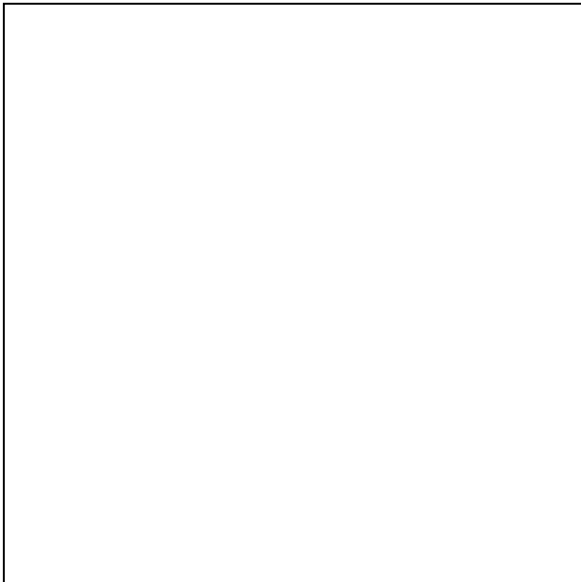
Voltage(V): 118.30 V
 Current(A): 0.3720 A
 Power(W): 43.36 W
 Power Factor: 0.9820
 Lamp Luminous Flux: 2081.01

Photometric Results

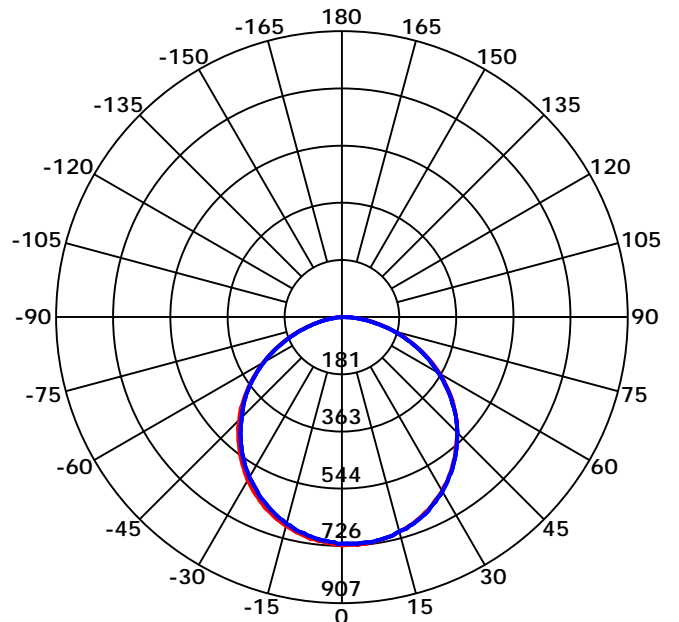
CIE Class: Direct
 Luminaire Luminous Flux: 2081.014 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 47.99 lm/W
 Beam Angle(50%) C0-180,C90-270: 113.5,113.1
 Field Angle(10%) C0-180,C90-270: 161.9,161.1
 S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 725.76 cd
 Max.Intensity Angle: C=0 Gamma=4
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 725.33 cd
 Effective Luminous Flux: 2048.99 lm
 ERP(φ use)(120deg): 1639.53 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 113.5 deg,113.1 deg

Average Beam Angle: 113.3 deg

C0-180 — C90-270 —

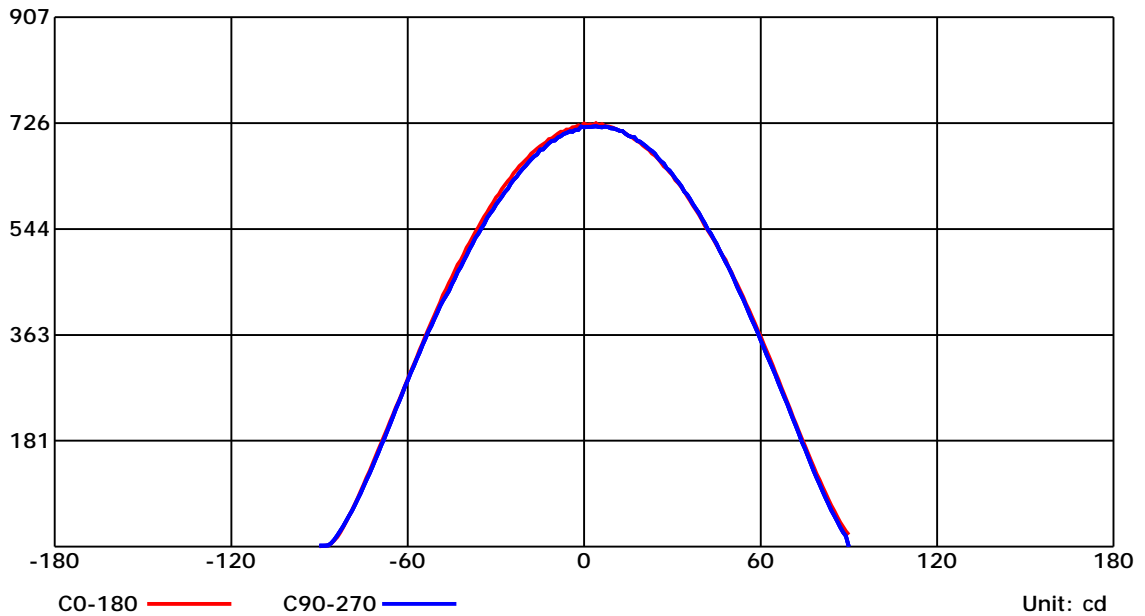
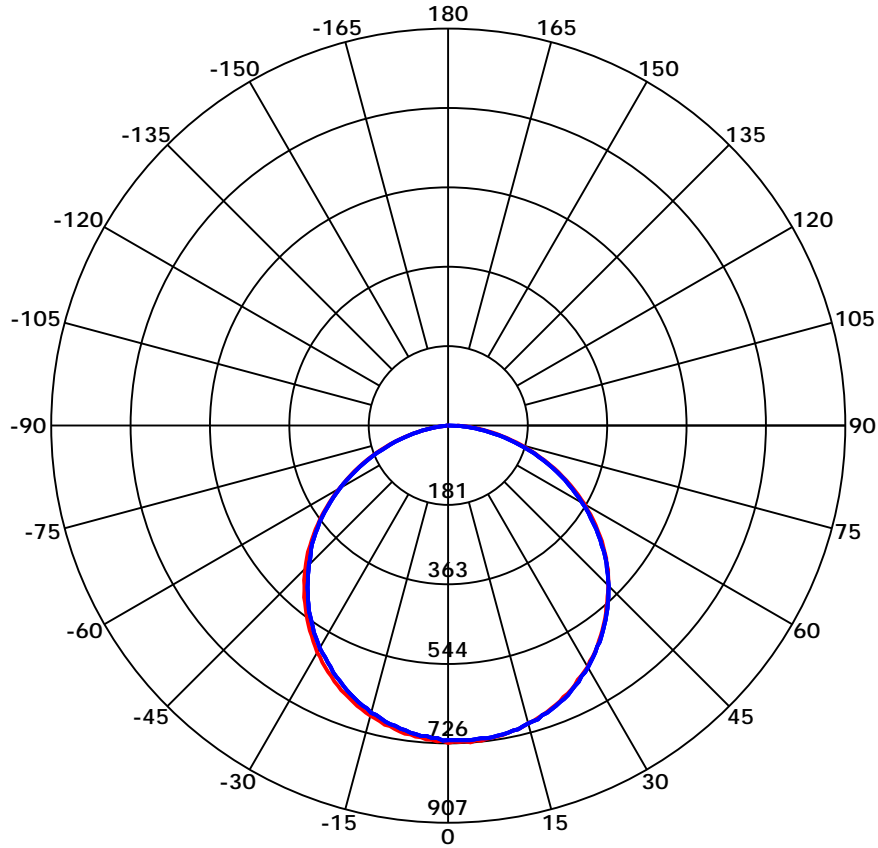
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2026/1/19 9:18:15

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.22 m
 Remarks:

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Luminous Intensity Distribution Curve



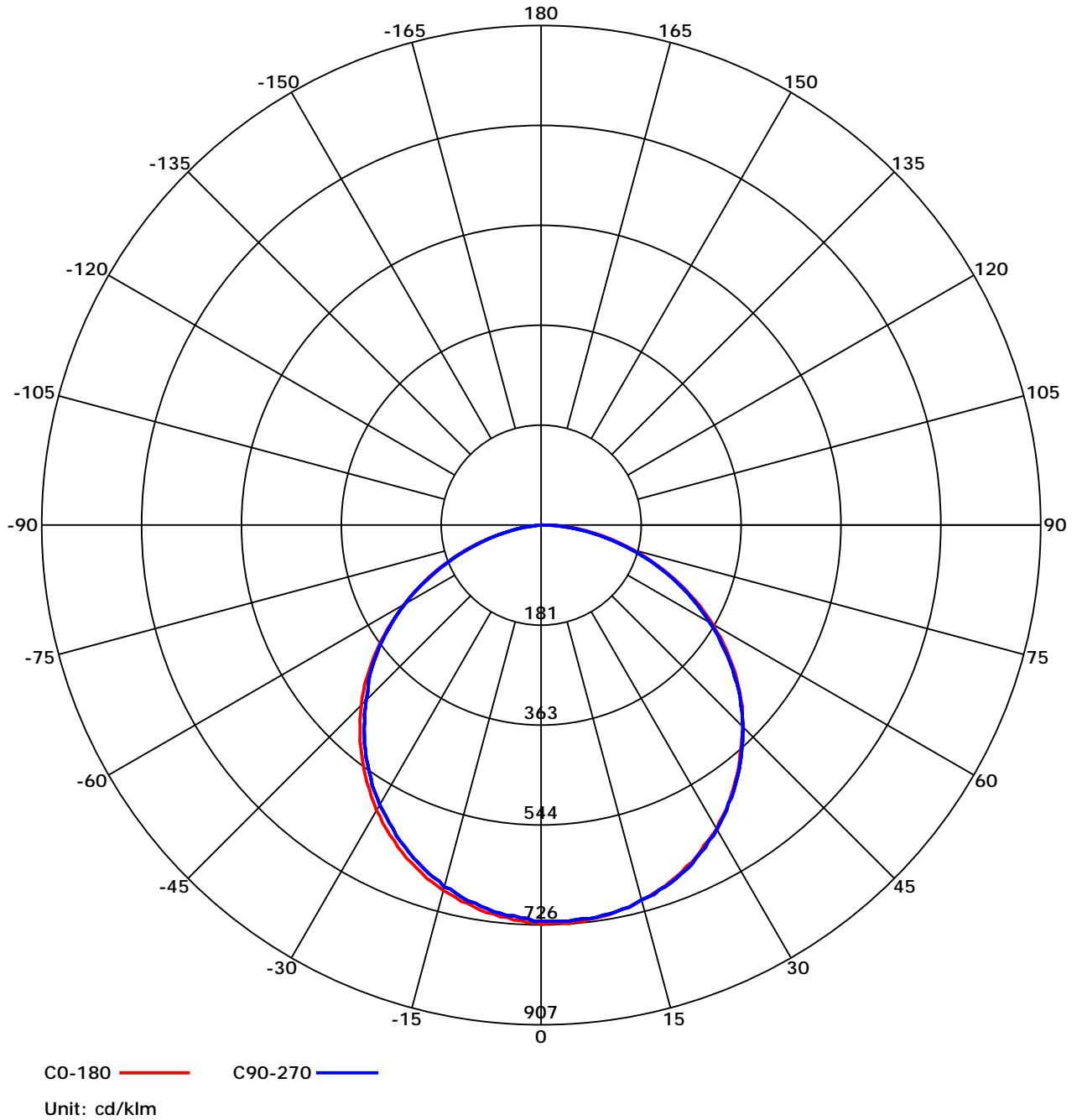
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Luminous Intensity Distribution Curve



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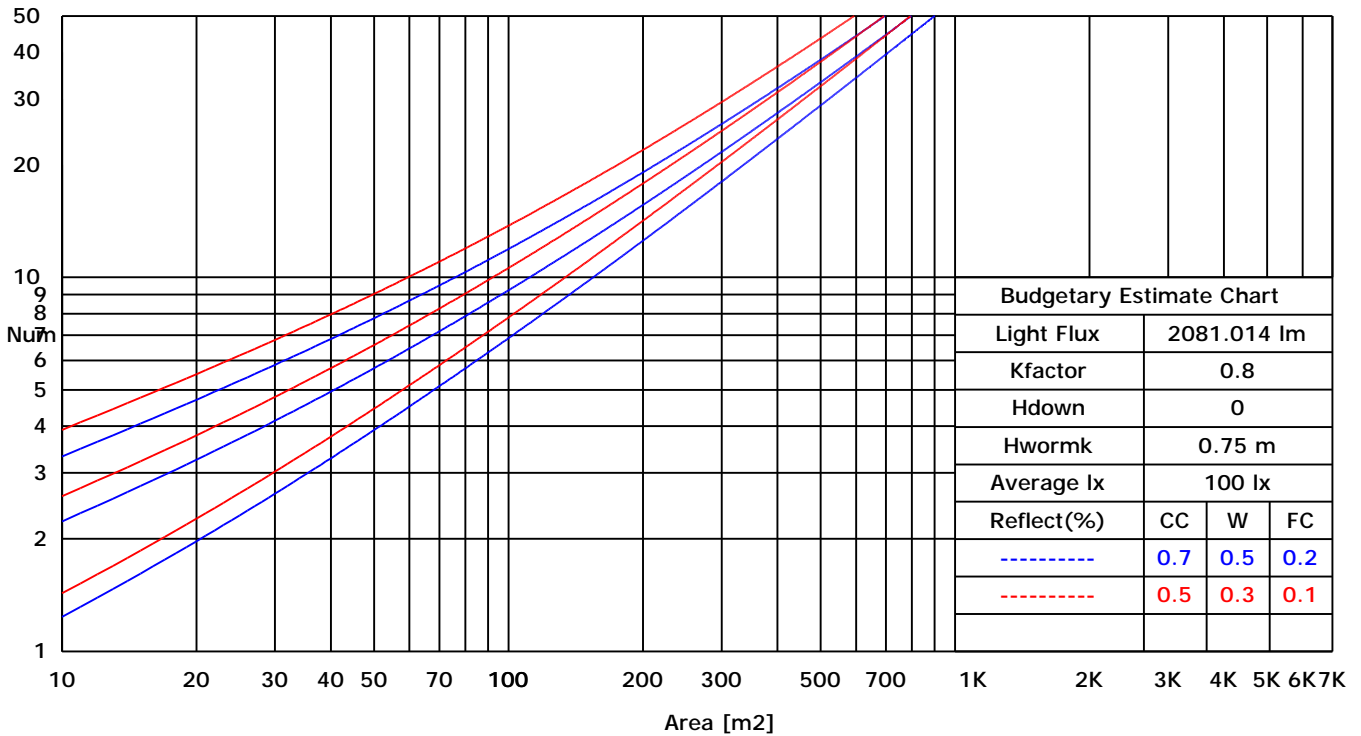
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UTILIZATION FACTORS TABLE

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	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.04	1.02	1.01	1.02	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.85	0.83	0.78
2	0.88	0.85	0.84	0.87	0.84	0.82	0.85	0.82	0.79	0.82	0.78	0.75	0.77	0.73	0.70	0.65
3	0.75	0.72	0.70	0.75	0.71	0.69	0.74	0.69	0.66	0.72	0.67	0.63	0.68	0.63	0.59	0.55
4	0.65	0.62	0.60	0.65	0.61	0.59	0.65	0.60	0.56	0.63	0.58	0.54	0.61	0.55	0.51	0.47
5	0.56	0.54	0.52	0.57	0.53	0.51	0.57	0.52	0.49	0.57	0.51	0.46	0.55	0.49	0.44	0.40
6	0.50	0.47	0.45	0.50	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	0.36	0.41	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	0.33	0.30	0.29	0.34	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



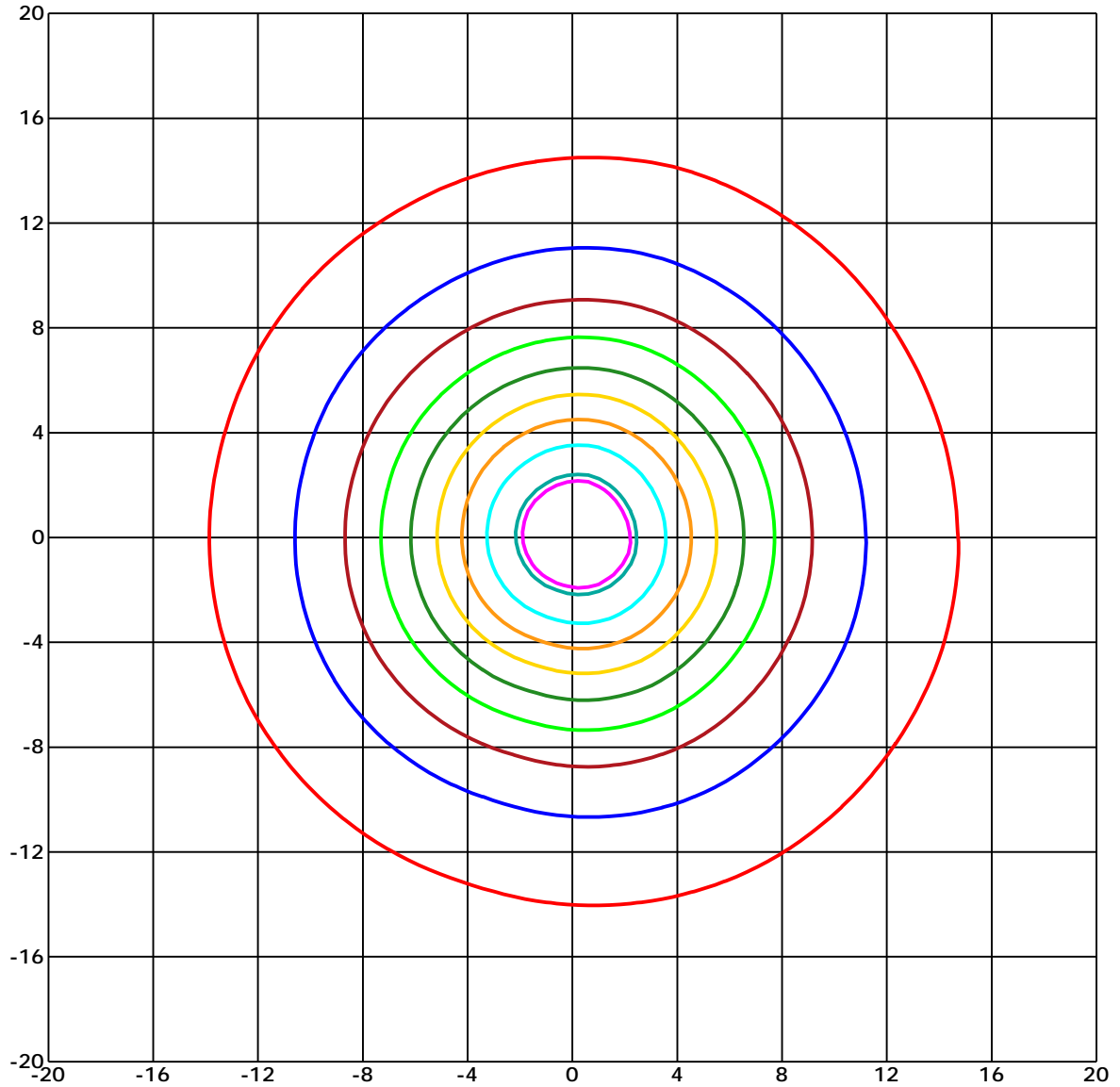
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G Range: 0 - 90 Deg
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 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.22 m
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ISOLX DIAGRAM



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

- | | |
|------------------|------------------|
| — 6.673(92%Emax) | — 3.627(50%Emax) |
| — 6.528(90%Emax) | — 2.901(40%Emax) |
| — 5.803(80%Emax) | — 2.176(30%Emax) |
| — 5.077(70%Emax) | — 1.451(20%Emax) |
| — 4.352(60%Emax) | — 0.725(10%Emax) |

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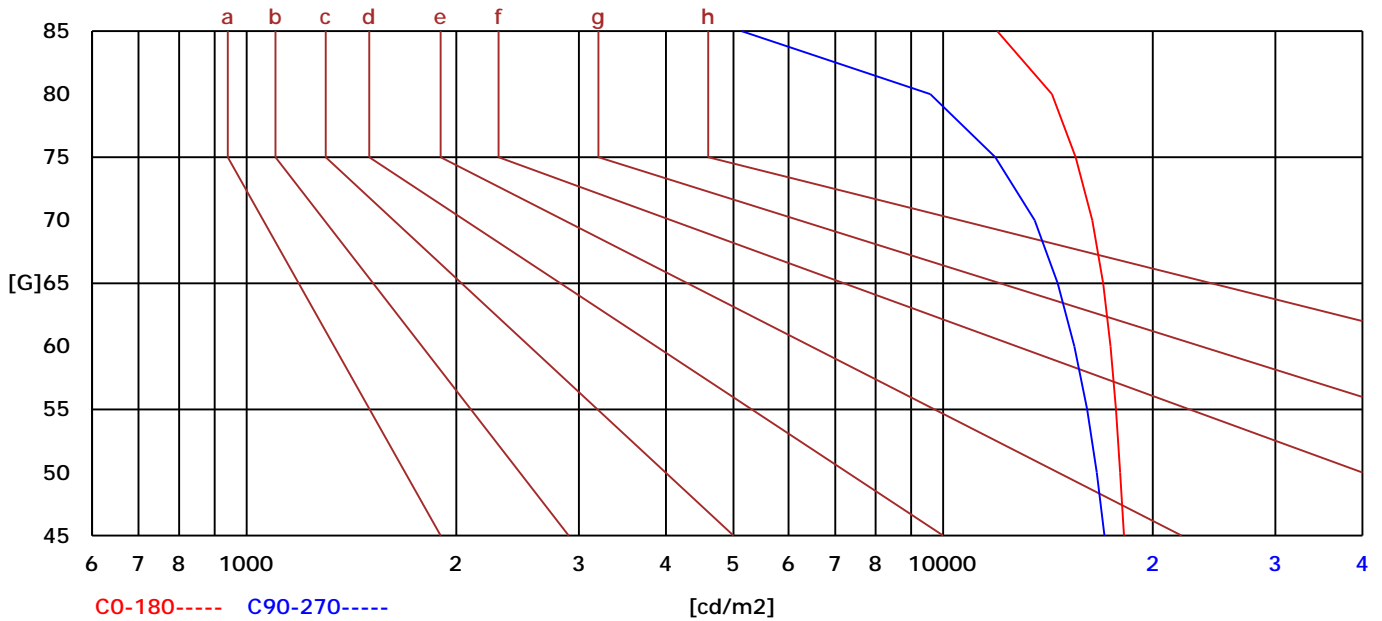
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18175	17951	17709	17387	16975	16371	15501	14326	11963
C90	17049	16612	16092	15433	14604	13534	11880	9591	5138
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



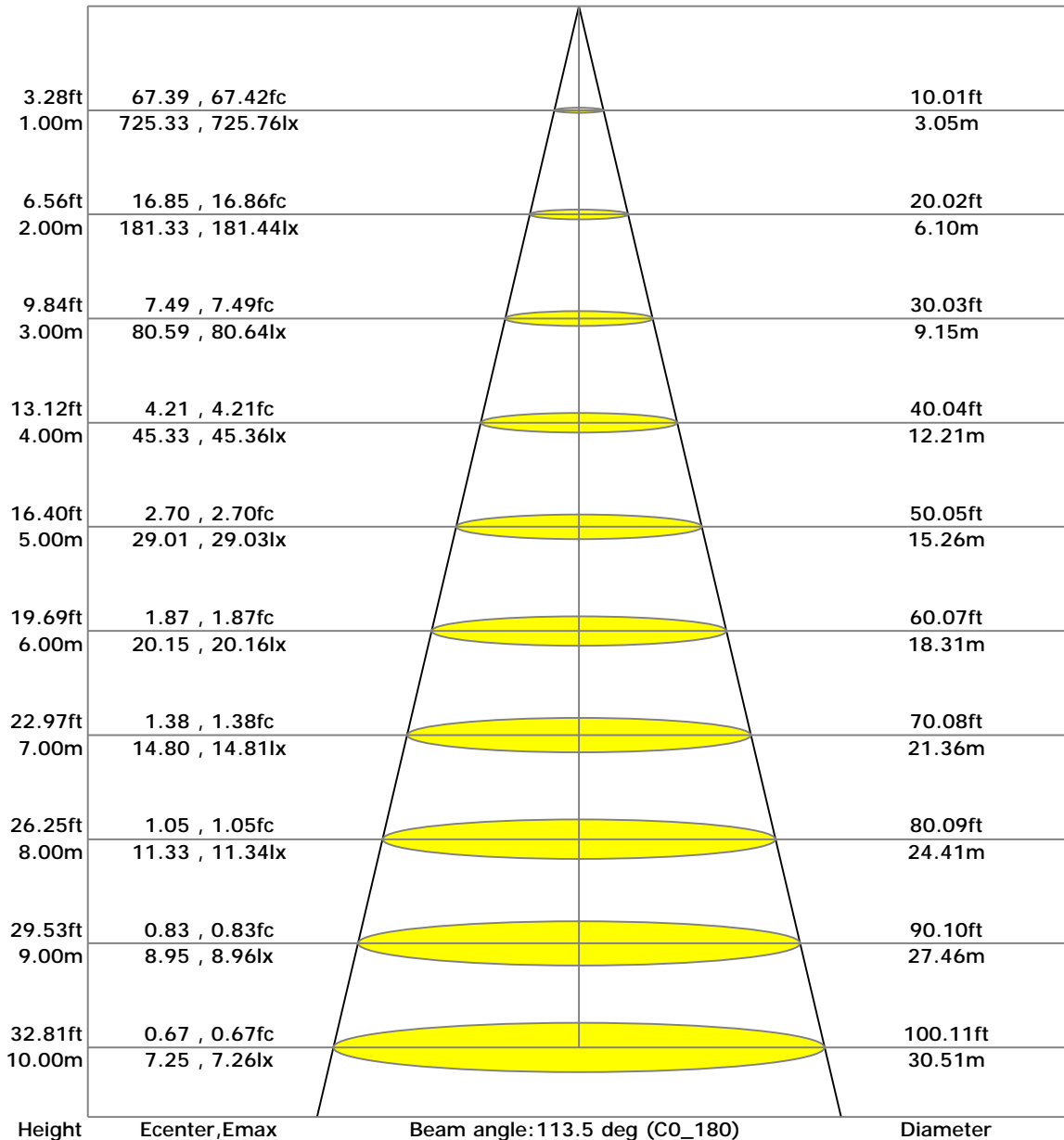
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LX-DISTANCE DIAGRAM



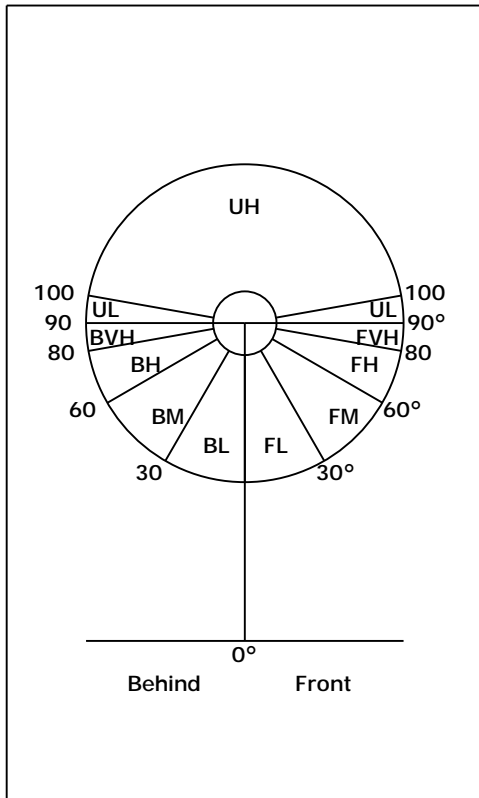
C Range: 0 - 360 Deg
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 Operators:
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G Range: 0 - 90 Deg
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 Humidity: 65
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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	1072.5	51.5
FL (0°-30°)	284.2	13.7
FM (30°-60°)	552.6	26.6
FH (60°-80°)	213.0	10.2
FVH (80°-90°)	22.7	1.1

Behind	1008.6	48.5
BL (0°-30°)	277.9	13.4
BM (30°-60°)	524.8	25.2
BH (60°-80°)	189.1	9.1
BVH (80°-90°)	16.7	0.8

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

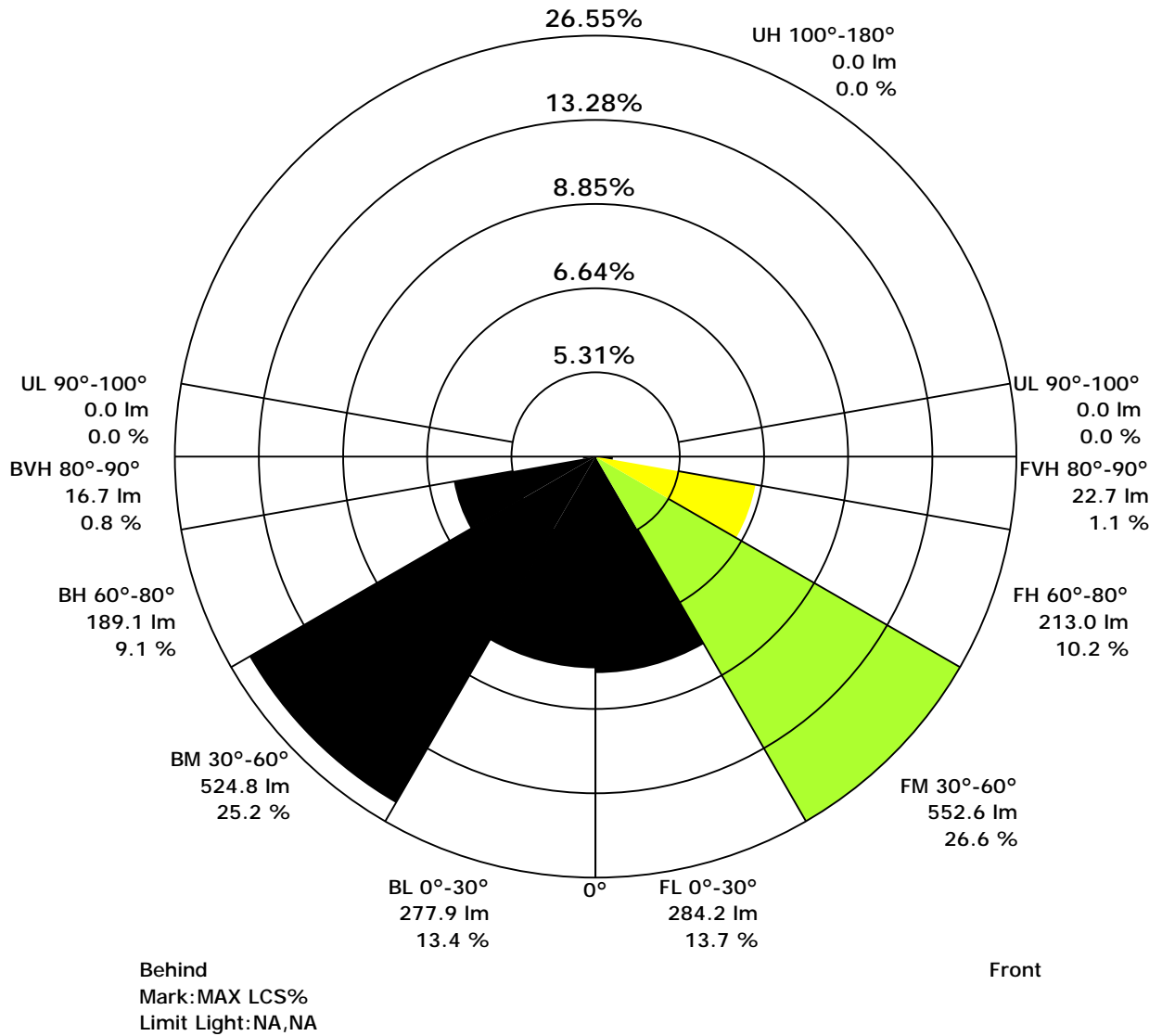
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LCS 图



C Range: 0 - 360 Deg
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G Range: 0 - 90 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	24.32	25.07	24.09	25.13	25.25	24.33	25.09	24.10	25.14	25.26
	3H	24.10	24.79	23.95	24.89	25.07	24.11	24.80	23.95	24.90	25.08
	4H	23.92	24.58	23.81	24.71	24.92	23.93	24.59	23.82	24.71	24.93
	6H	23.70	24.32	23.64	24.48	24.73	23.71	24.33	23.64	24.48	24.73
	8H	23.58	24.18	23.54	24.35	24.62	23.58	24.18	23.55	24.35	24.62
	12H	23.46	24.03	23.45	24.22	24.51	23.46	24.03	23.45	24.22	24.51
4H	2H	26.49	27.15	26.38	27.28	27.49	26.49	27.15	26.38	27.28	27.49
	3H	26.38	26.96	26.37	27.15	27.44	26.39	26.97	26.38	27.15	27.45
	4H	26.24	26.77	26.29	26.99	27.33	26.25	26.77	26.29	27.00	27.33
	6H	26.04	26.51	26.15	26.77	27.15	26.04	26.51	26.15	26.77	27.15
	8H	25.92	26.35	26.06	26.63	27.05	25.92	26.35	26.06	26.63	27.04
	12H	25.79	26.19	25.96	26.49	26.93	25.78	26.19	25.96	26.48	26.92
8H	4H	26.98	27.57	26.94	27.75	28.02	26.92	27.51	26.88	27.69	27.96
	6H	26.77	27.13	26.98	27.45	27.92	26.76	27.12	26.97	27.44	27.91
	8H	26.67	27.00	26.92	27.34	27.83	26.66	26.98	26.91	27.32	27.82
	12H	26.56	26.84	26.85	27.20	27.73	26.54	26.82	26.83	27.18	27.71
12H	4H	27.00	27.40	27.17	27.70	28.14	26.97	27.37	27.14	27.67	28.11
	6H	26.90	27.22	27.15	27.56	28.06	26.89	27.21	27.14	27.55	28.05

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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	717.8	714.2	716.7	708.5	703.8	698.8	696.2	710.0	10	68.2	68.2	3.3	3.3
20	687.6	686.8	690.1	673.3	662.4	657.8	652.6	676.0	20	195.7	263.9	12.7	12.7
30	636.8	633.8	638.3	614.1	598.4	595.6	586.5	620.9	30	298.3	562.2	27.0	27.0
40	560.1	559.6	562.4	528.9	512.3	512.9	499.1	546.6	40	361.4	923.5	44.4	44.4
50	471.0	461.6	468.5	427.1	406.9	408.6	400.5	447.2	50	376.3	1299.8	62.5	62.5
60	360.0	347.7	353.1	308.7	287.8	292.5	284.6	334.5	60	339.7	1639.5	78.8	78.8
70	235.7	224.0	231.0	185.2	166.1	167.8	160.9	211.8	70	257.2	1896.7	91.1	91.1
80	114.1	99.5	106.5	66.6	52.2	56.5	52.3	93.2	80	144.9	2041.6	98.1	98.1
90	20.4	16.4	0.0	0.0	0.5	3.4	1.7	11.0	90	39.5	2081.0	100.0	100.0

Conical surface Flux(90deg) : 1112.9 lm

%lum = 53.5%

%lamp = 53.5%

Conical surface Flux(120deg) : 1639.5 lm

%lum = 78.8%

%lamp = 78.8%

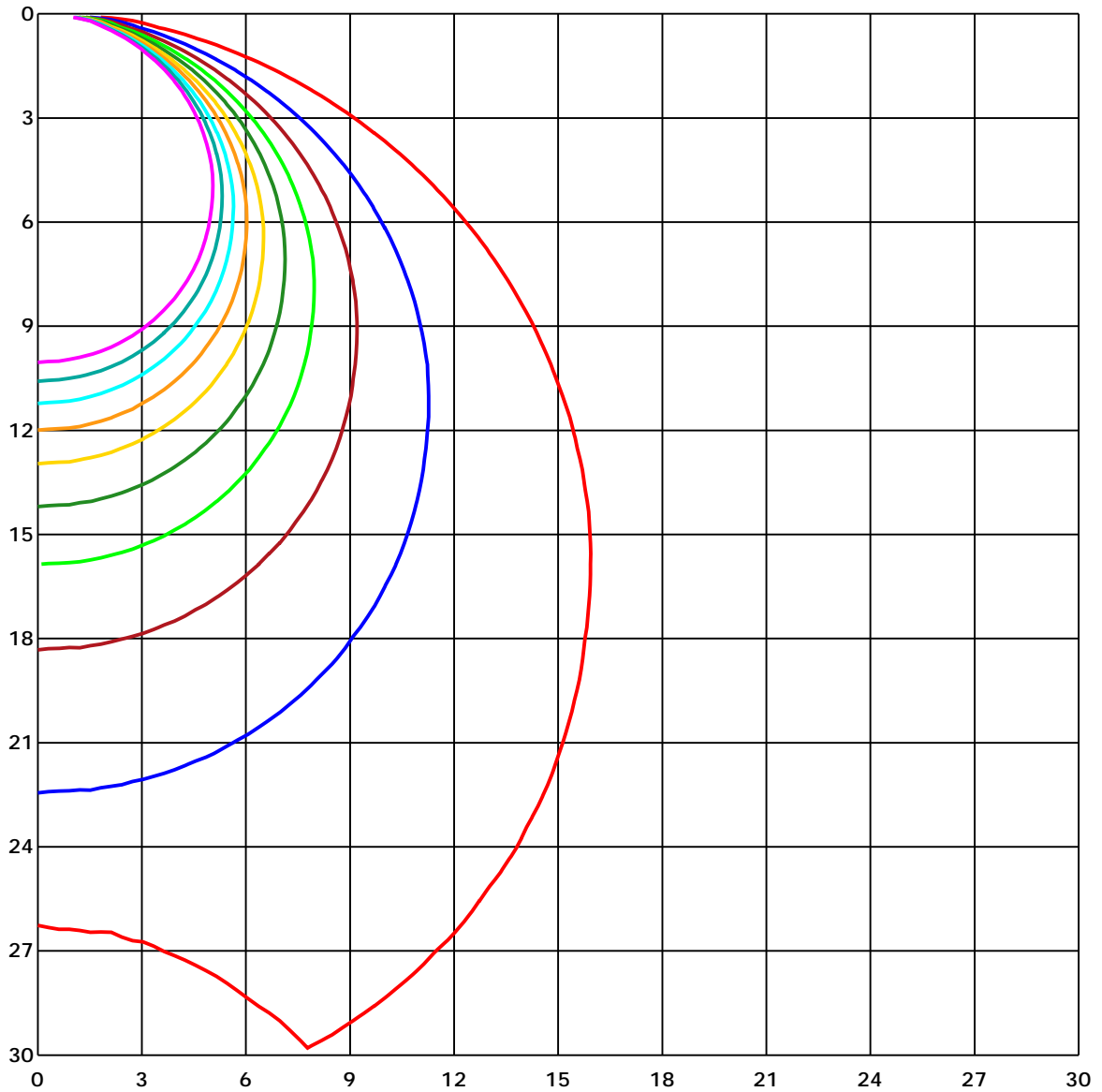
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 7.201 | — 3.601 |
| — 6.481 | — 2.88 |
| — 5.761 | — 2.16 |
| — 5.041 | — 1.44 |
| — 4.321 | — 0.72 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	725.33	717.36	718.87	721.77	725.33	717.36	718.87	721.77	725.33	
G1	722.7	719.45	718.95	720.3	720.38	717.05	719.53	719.45	722.7	
G2	723.4	718.95	719.37	719.91	721.77	716.55	714.3	719.99	723.4	
G3	722.74	721.54	719.72	718.75	718.99	713.99	714.19	720.53	722.74	
G4	725.76	719.33	720.49	719.37	718.64	712.95	710.94	719.45	725.76	
G5	722.12	718.33	719.18	717.82	714.65	710.59	711.63	717.01	722.12	
G6	723.9	717.71	718.52	717.24	714.81	708.77	708.69	717.21	723.9	
G7	720.8	717.28	719.84	714.77	711.09	706.53	706.88	713.72	720.8	
G8	720.15	716.16	719.22	713.88	710.94	704.83	703.12	713.53	720.15	
G9	718.95	715.97	717.17	710.74	707.49	700.49	700.84	710.44	718.95	
G10	717.79	714.19	716.74	708.5	703.78	698.75	696.2	710.01	717.79	
G11	714.96	711.17	714.96	705.44	699.68	694.92	694.96	705.52	714.96	
G12	712.41	710.05	712.49	703.12	698.52	691.28	691.17	703.7	712.41	
G13	712.02	707.73	711.91	699.83	693.1	688.81	686.06	700.61	712.02	
G14	708.31	705.44	707.65	695.93	689.58	683.66	681.07	698.29	708.31	
G15	704.28	703.59	704.44	692.14	686.53	680.88	680.03	693.99	704.28	
G16	702.7	701.34	702.47	689.31	682.12	675.89	672.06	690.74	702.7	
G17	698.52	696.08	701.5	685.79	677.51	672.98	668.81	688.58	698.52	
G18	695.31	692.79	695.73	680.45	673.72	666.37	663.89	684.05	695.31	
G19	692.17	690.39	694.03	676.85	667.26	663.24	658.09	680.68	692.17	
G20	687.65	686.84	690.09	673.33	662.42	657.82	652.56	676.0	687.65	
G21	683.74	682.31	686.25	668.46	656.97	653.45	647.22	671.98	683.74	
G22	679.48	677.59	681.61	663.35	652.09	648.26	640.6	666.6	679.48	
G23	673.57	672.79	678.13	657.2	645.52	643.08	633.87	663.16	673.57	
G24	670.47	669.12	673.53	652.63	639.98	636.54	628.57	656.74	670.47	
G25	665.32	664.67	666.76	646.37	631.86	630.31	622.23	651.78	665.32	
G26	659.41	657.01	660.99	638.36	626.33	622.96	613.17	647.1	659.41	
G27	651.82	652.48	656.81	632.94	619.17	618.09	607.1	640.1	651.82	
G28	647.72	645.98	648.46	626.44	612.75	610.43	599.52	635.46	647.72	
G29	641.92	640.53	644.82	619.44	604.24	603.04	593.05	628.53	641.92	
G30	636.85	633.75	638.28	614.1	598.35	595.57	586.52	620.87	636.85	
G31	628.07	629.23	631.16	604.66	589.53	587.99	577.93	614.87	628.07	
G32	622.61	621.88	624.16	597.31	581.72	581.6	570.5	608.49	622.61	
G33	615.96	614.1	617.7	589.69	572.55	573.83	563.69	600.44	615.96	
G34	608.88	606.44	608.49	582.18	565.43	564.5	553.28	593.67	608.88	
G35	600.48	599.55	603.31	572.78	556.69	556.53	545.51	586.48	600.48	
G36	592.9	592.44	595.57	565.35	547.48	548.68	536.34	578.16	592.9	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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: 6.22 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	584.78	584.04	587.02	556.22	538.62	540.32	528.64	570.34	584.78	
G38	576.73	576.57	578.93	548.45	529.37	531.31	518.46	562.99	576.73	
G39	569.15	566.32	571.51	539.43	519.93	524.03	509.91	553.82	569.15	
G40	560.09	559.55	562.41	528.91	512.27	512.89	499.12	546.55	560.09	
G41	550.27	550.15	554.13	521.29	501.17	502.52	489.91	536.96	550.27	
G42	542.72	541.02	544.46	512.16	491.23	493.78	479.27	527.4	542.72	
G43	533.59	532.04	536.57	501.13	483.14	483.8	470.53	517.23	533.59	
G44	526.08	524.42	527.09	492.93	472.23	473.04	459.12	509.14	526.08	
G45	516.64	514.05	519.16	482.21	461.48	463.41	449.91	497.96	516.64	
G46	508.83	503.34	508.25	470.99	452.19	451.8	438.38	489.06	508.83	
G47	499.12	494.94	498.93	460.93	441.16	442.36	429.94	477.92	499.12	
G48	491.57	483.99	487.59	450.91	431.1	431.07	421.47	468.25	491.57	
G49	479.66	473.55	478.89	438.84	418.14	419.77	411.8	457.3	479.66	
G50	470.95	461.55	468.52	427.12	406.92	408.59	400.46	447.24	470.95	
G51	459.27	451.92	457.49	415.98	395.7	397.29	390.1	436.52	459.27	
G52	449.95	441.05	445.46	405.22	384.52	386.69	378.41	424.49	449.95	
G53	439.58	429.25	435.32	393.19	372.22	374.54	368.24	413.5	439.58	
G54	427.82	418.07	423.91	381.39	360.65	363.79	356.24	404.22	427.82	
G55	416.17	406.31	412.69	369.2	348.16	352.03	344.91	392.38	416.17	
G56	406.0	395.16	400.46	356.9	336.82	340.5	332.41	380.89	406.0	
G57	394.27	382.94	388.9	344.87	323.67	328.46	321.62	369.67	394.27	
G58	383.63	371.37	378.33	333.96	312.1	315.97	309.43	358.29	383.63	
G59	370.21	359.14	366.22	321.58	299.68	304.32	297.51	347.07	370.21	
G60	359.96	347.73	353.15	308.66	287.8	292.52	284.59	334.54	359.96	
G61	347.31	335.27	342.08	296.93	274.96	280.49	273.8	322.74	347.31	
G62	335.62	323.44	329.43	284.44	263.08	267.92	260.68	311.87	335.62	
G63	324.21	310.75	318.17	271.79	250.55	255.89	248.5	299.22	324.21	
G64	310.98	298.6	305.91	259.29	238.51	243.43	235.77	286.72	310.98	
G65	297.94	286.95	293.88	246.87	226.02	230.89	222.85	274.53	297.94	
G66	286.37	274.46	281.19	235.03	214.76	218.2	210.46	261.65	286.37	
G67	273.41	262.42	268.96	222.15	201.84	205.86	198.32	248.81	273.41	
G68	261.26	249.77	256.7	210.19	190.27	193.44	185.59	236.31	261.26	
G69	247.72	236.77	244.28	197.35	177.43	180.83	173.44	223.66	247.72	
G70	235.69	223.97	231.01	185.16	166.05	167.75	160.94	211.82	235.69	
G71	221.92	211.32	218.51	172.12	153.55	155.95	149.11	198.78	221.92	
G72	210.16	198.94	206.25	159.74	141.79	143.73	137.38	186.25	210.16	
G73	197.47	185.7	193.6	147.33	129.76	132.08	125.62	174.33	197.47	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2026/1/19 9:18:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.22 m

Remarks:

