

Report No.:

Test Time: 2025/5/13 9:48:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095H135-45°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.65 W
Power Factor: 0.9730
Lamp Luminous Flux: 3609.35

Photometric Results

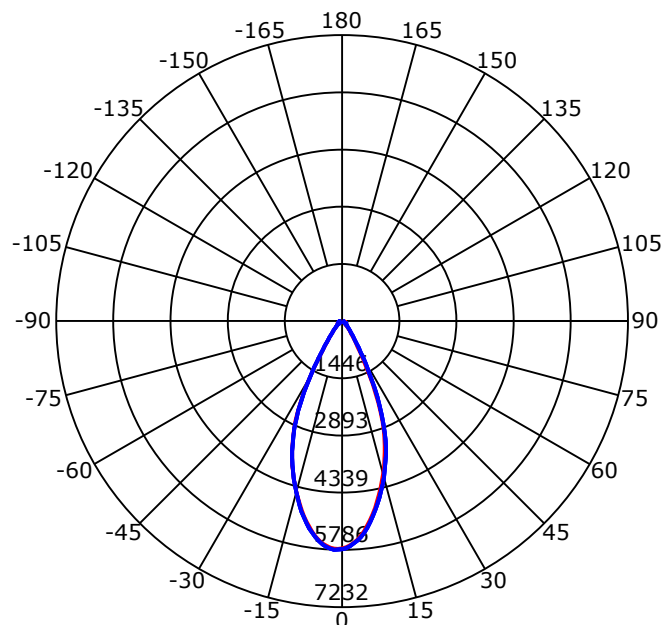
CIE Class: Direct
Luminaire Luminous Flux: 3609.349 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.03 lm/W
Beam Angle(50%) C0-180,C90-270: 45.8,45.8
Field Angle(10%) C0-180,C90-270: 69.6,71.4
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 5785.77 cd
Max.Intensity Angle: C=270 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5747.02 cd
Effective Luminous Flux: 3044.12 lm
ERP(ϕ use)(120deg): 3458.10 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 45.8 deg,45.8 deg

C0-180 — C90-270

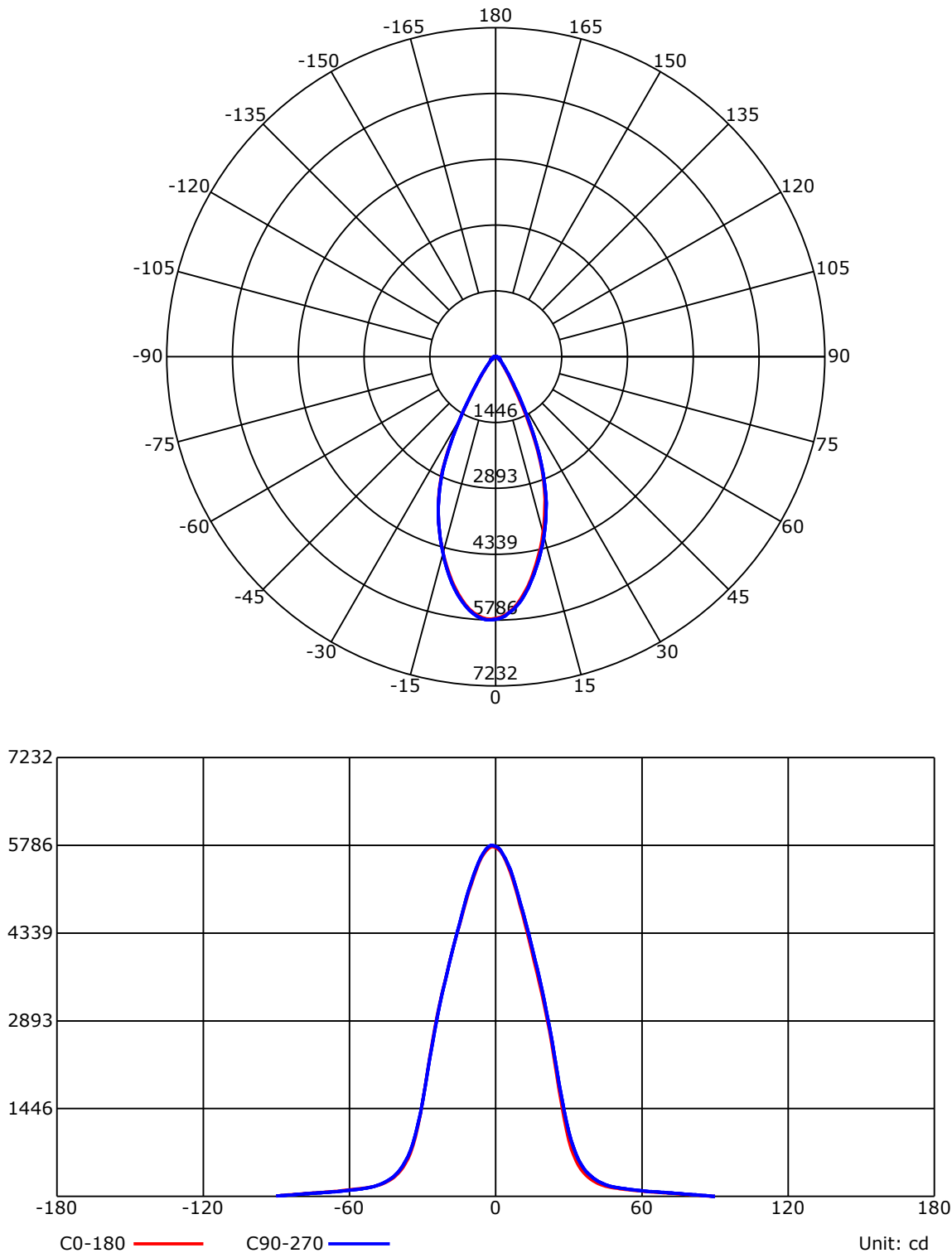
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:48:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



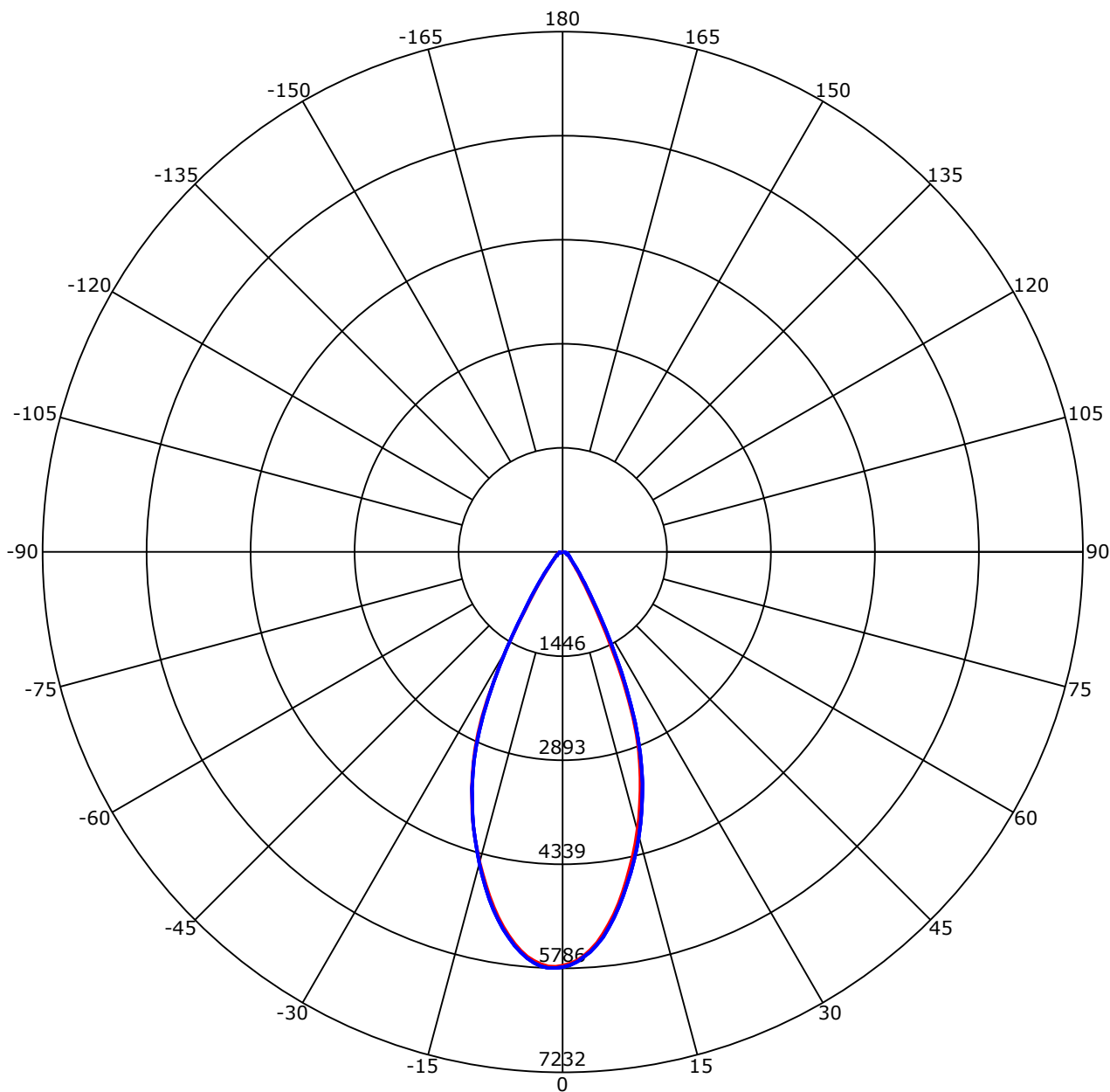
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Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:48:43

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

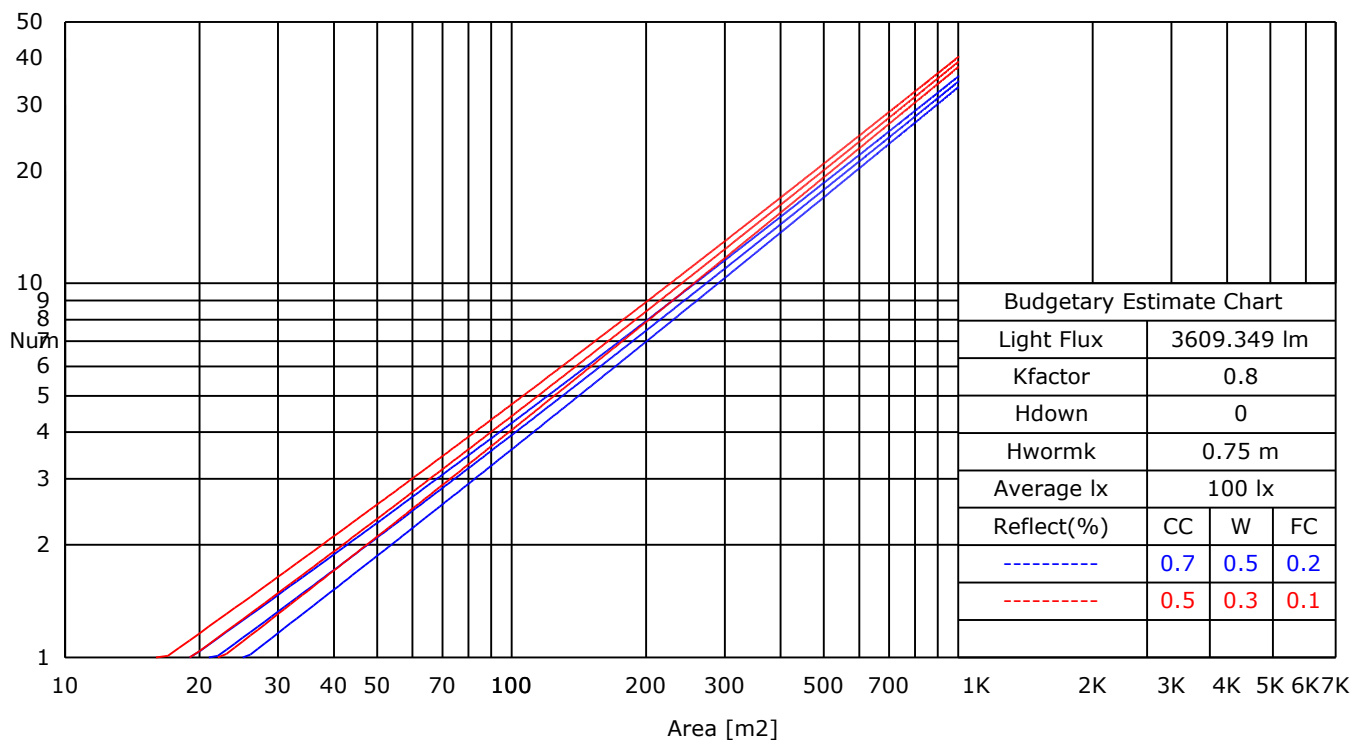
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UTILIZATION FACTORS TABLE

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	1.19	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	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.95	0.93	0.93	0.91	0.88	0.87	0.84	0.82	0.77
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.91	0.88	0.89	0.86	0.84	0.84	0.81	0.78	0.73
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.72	0.67
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
7	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.61
8	0.78	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.63	0.59
9	0.75	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.68	0.64	0.61	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



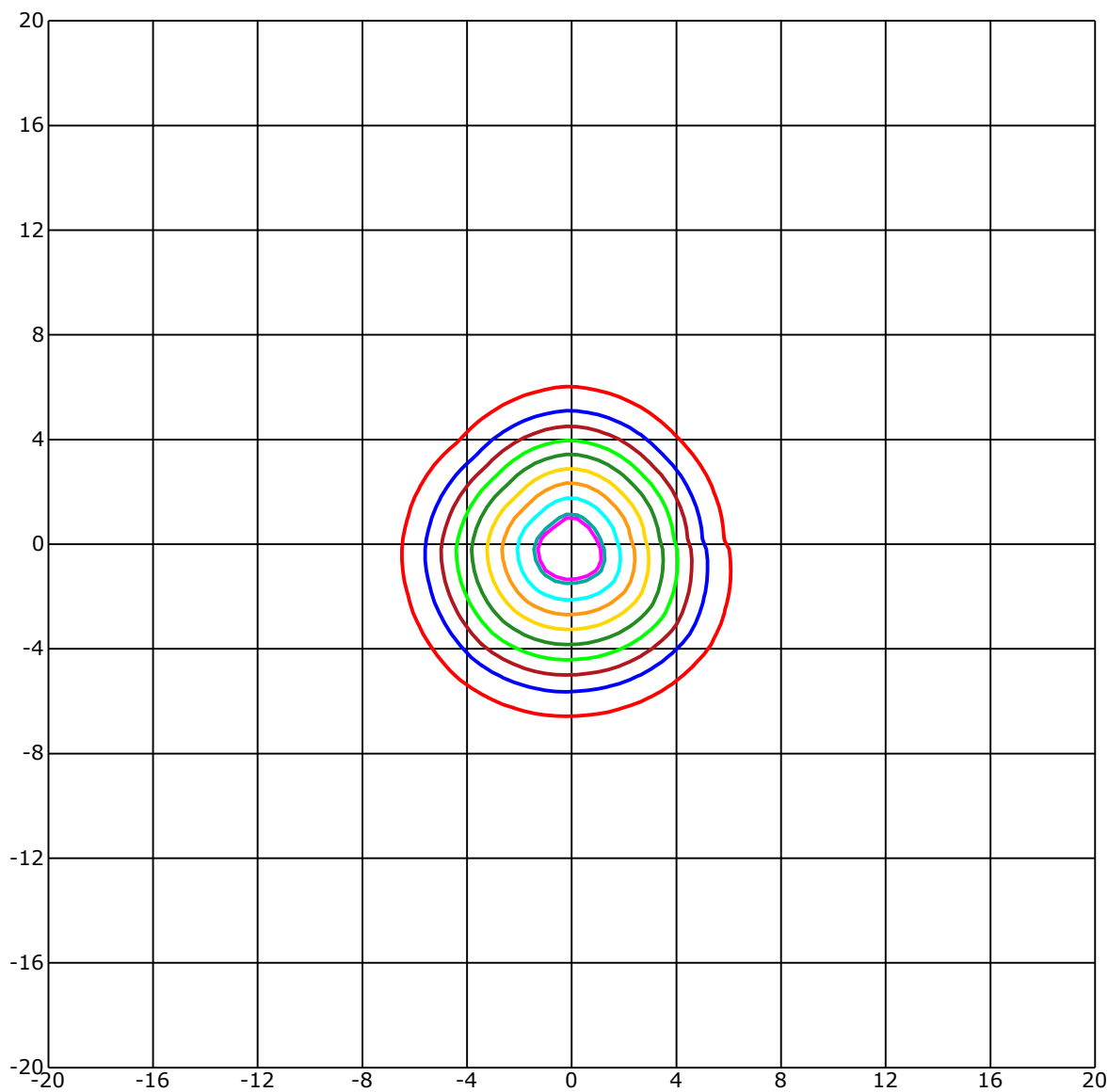
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

53.176(92%Emax)	28.9(50%Emax)
52.02(90%Emax)	23.12(40%Emax)
46.24(80%Emax)	17.34(30%Emax)
40.46(70%Emax)	11.56(20%Emax)
34.68(60%Emax)	5.78(10%Emax)

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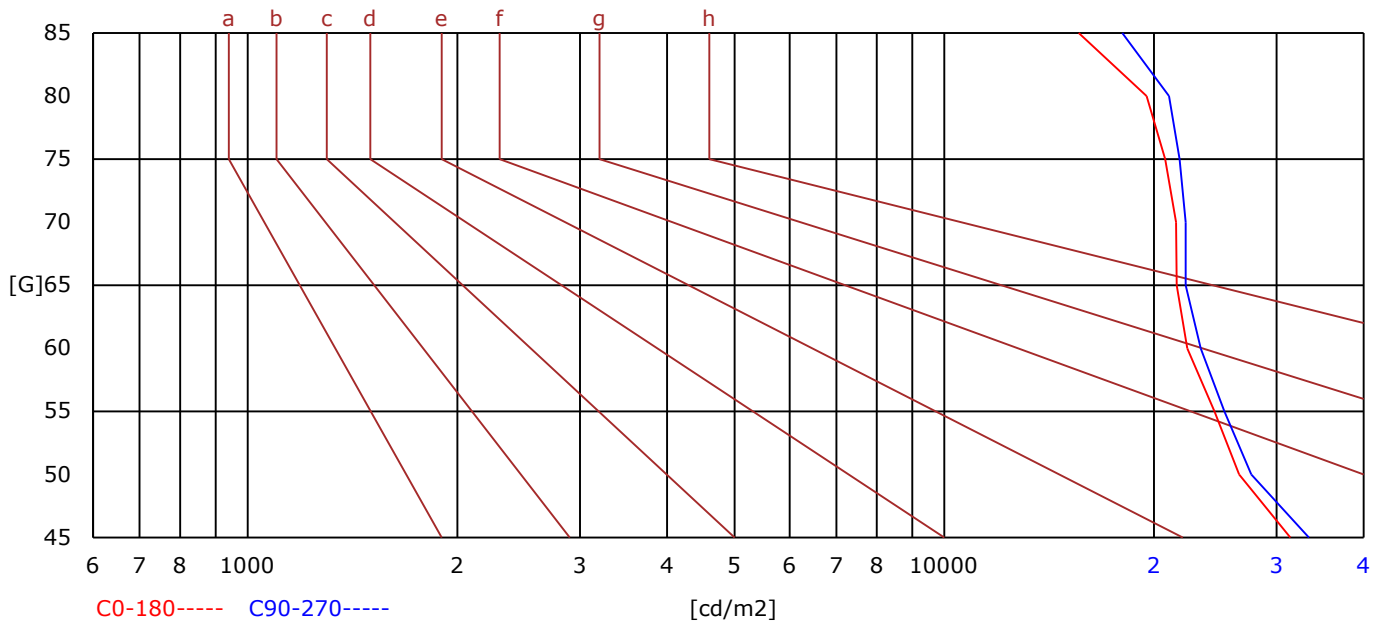
G Range: 0 - 90 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	31397	26487	24432	22322	21547	21513	20760	19514	15596
C90	33355	27579	25244	23330	22197	22203	21771	21020	18012
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



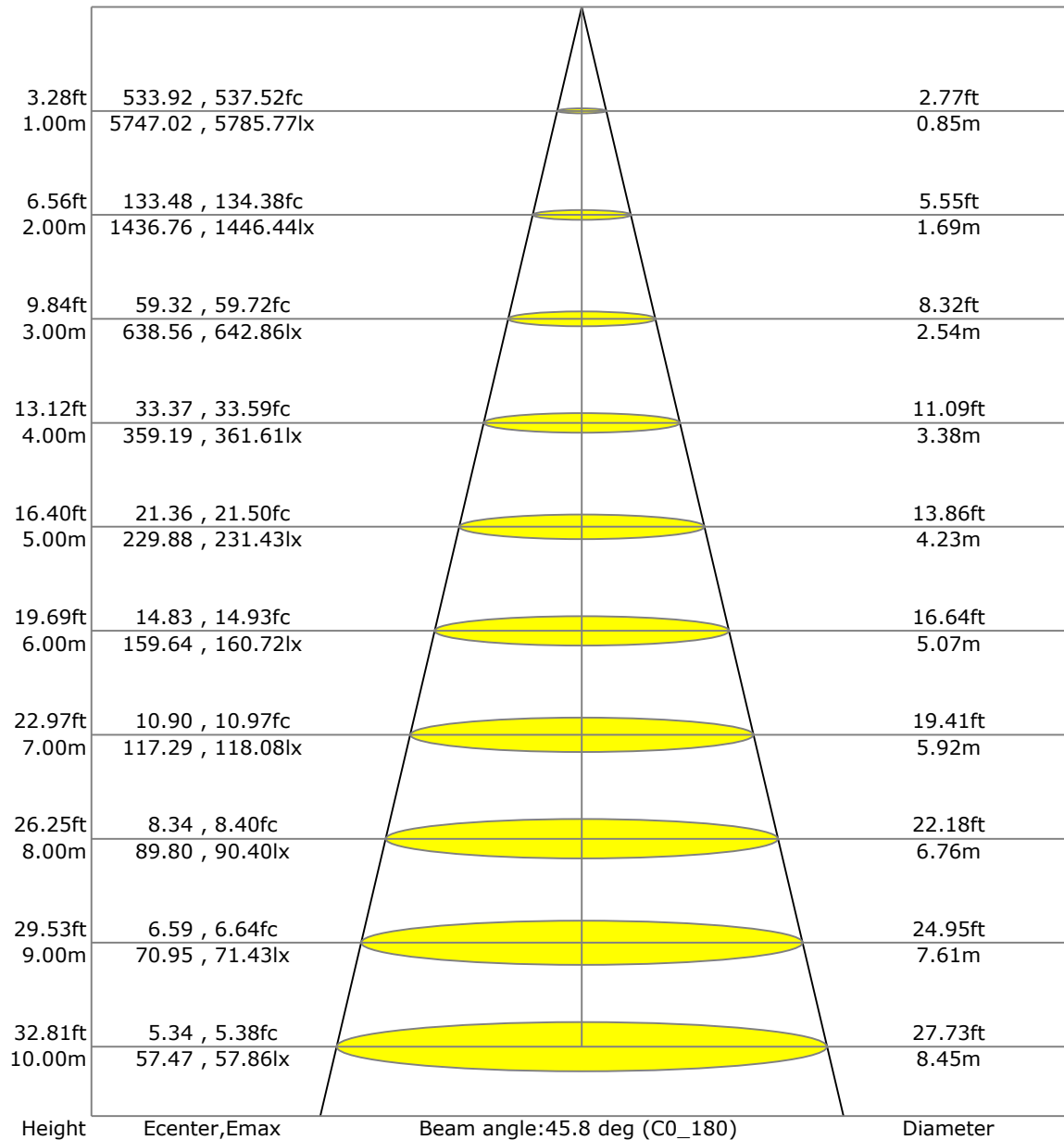
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/5/13 9:48:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 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	11.06	11.11	11.26	11.30	11.54	11.18	11.23	11.38	11.42	11.66
3H	11.17	11.23	11.38	11.42	11.67	11.28	11.33	11.49	11.53	11.77
4H	11.19	11.25	11.40	11.44	11.69	11.29	11.35	11.50	11.54	11.79
6H	11.19	11.24	11.40	11.44	11.69	11.28	11.34	11.50	11.54	11.79
8H	11.18	11.23	11.39	11.43	11.69	11.28	11.33	11.49	11.53	11.78
12H	11.17	11.22	11.39	11.43	11.68	11.27	11.32	11.49	11.52	11.78
4H 2H	12.73	12.79	12.94	12.98	13.23	12.95	13.01	13.16	13.20	13.45
3H	13.02	13.08	13.25	13.28	13.54	13.23	13.28	13.45	13.49	13.74
4H	13.10	13.15	13.33	13.37	13.62	13.29	13.35	13.52	13.56	13.82
6H	13.13	13.18	13.36	13.40	13.66	13.31	13.36	13.55	13.58	13.85
8H	13.12	13.17	13.37	13.40	13.67	13.31	13.36	13.55	13.58	13.85
12H	13.11	13.16	13.36	13.39	13.66	13.30	13.34	13.54	13.58	13.85
8H 4H	13.24	13.30	13.46	13.50	13.75	13.53	13.59	13.75	13.79	14.04
6H	13.88	13.93	14.14	14.17	14.44	14.15	14.20	14.41	14.44	14.71
8H	13.90	13.94	14.16	14.19	14.47	14.16	14.21	14.43	14.45	14.73
12H	13.90	13.94	14.17	14.19	14.47	14.16	14.20	14.43	14.45	14.74
12H 4H	13.94	13.99	14.19	14.22	14.49	14.26	14.31	14.51	14.54	14.81
6H	14.05	14.10	14.31	14.34	14.62	14.37	14.41	14.63	14.66	14.93

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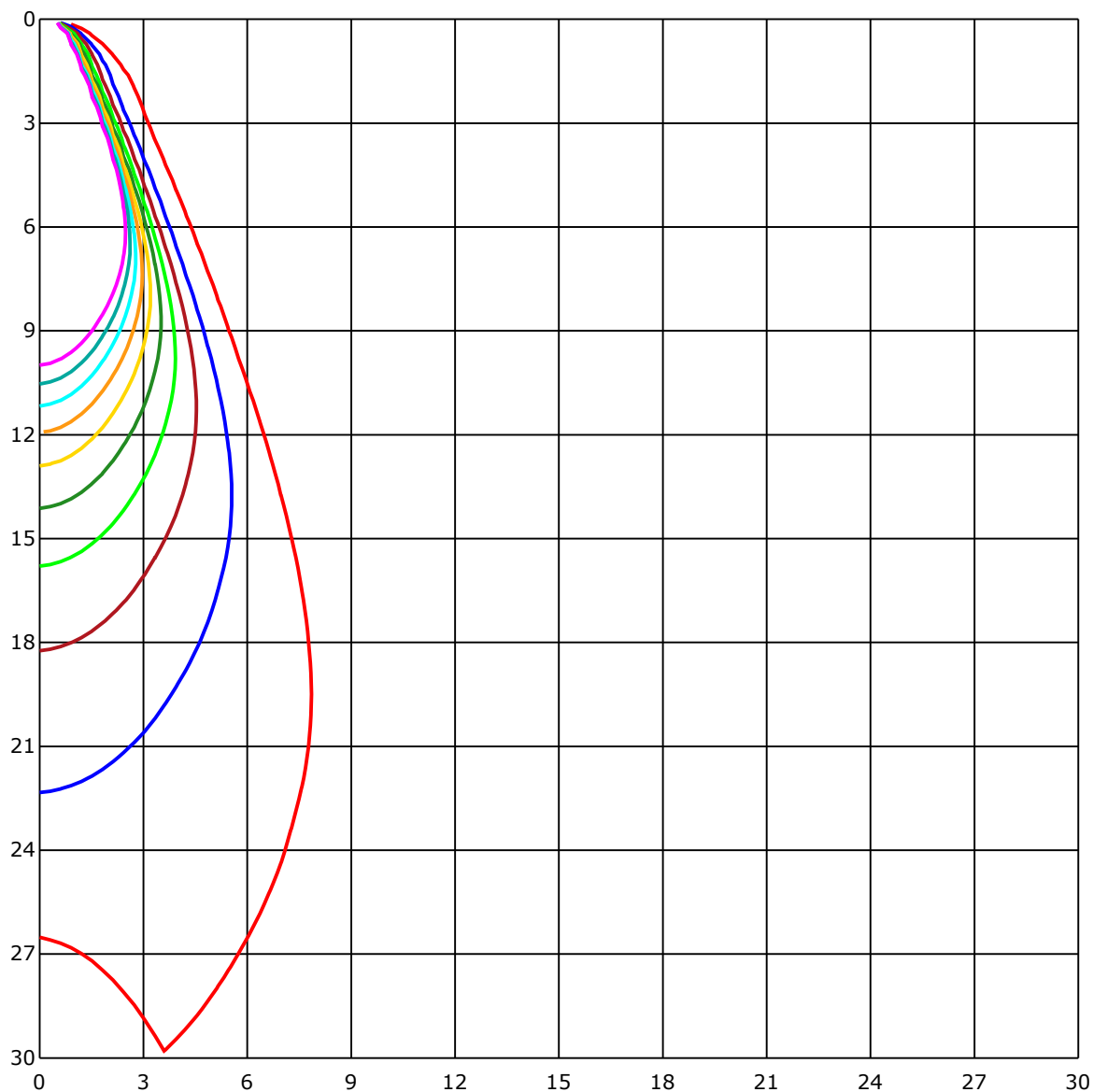
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

57.603	28.802
51.843	23.041
46.083	17.281
40.322	11.521
34.562	5.76

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5747.02	5731.73	5770.29	5744.52	5747.02	5731.73	5770.29	5744.52	5747.02	
G1	5721.68	5691.29	5745.47	5710.07	5764.02	5754.01	5782.61	5761.23	5721.68	
G2	5679.77	5632.81	5701.15	5658.96	5760.9	5761.61	5785.77	5766.75	5679.77	
G3	5619.26	5561.68	5634.74	5583.2	5735.75	5754.39	5764.49	5759.77	5619.26	
G4	5540.02	5477.86	5568.39	5500.99	5694.97	5730.08	5723.85	5731.69	5540.02	
G5	5446.71	5380.31	5481.02	5401.4	5641.92	5691.43	5667.69	5683.4	5446.71	
G6	5334.76	5264.67	5382.62	5289.03	5571.83	5635.03	5595.19	5619.97	5334.76	
G7	5212.47	5138.56	5263.02	5160.79	5484.28	5562.77	5509.86	5535.35	5212.47	
G8	5084.99	4998.53	5130.73	5026.14	5381.49	5474.75	5411.79	5438.88	5084.99	
G9	4946.52	4854.15	4993.86	4886.63	5271.0	5375.96	5307.72	5329.52	4946.52	
G10	4794.54	4699.16	4849.67	4742.16	5151.64	5266.18	5189.21	5212.94	4794.54	
G11	4641.34	4547.14	4699.87	4589.57	5026.85	5146.59	5062.15	5086.46	4641.34	
G12	4484.7	4387.24	4554.6	4439.34	4888.18	5018.16	4926.93	4957.56	4484.7	
G13	4331.64	4233.04	4404.65	4283.17	4749.24	4879.59	4781.85	4816.68	4331.64	
G14	4171.07	4072.39	4250.74	4127.18	4606.32	4739.61	4630.63	4670.56	4171.07	
G15	4007.02	3906.3	4089.99	3963.17	4461.15	4595.23	4477.66	4521.79	4007.02	
G16	3842.35	3727.42	3924.71	3797.32	4313.28	4446.09	4323.14	4372.46	3842.35	
G17	3661.96	3548.64	3751.92	3637.56	4172.87	4294.35	4169.89	4223.51	3661.96	
G18	3488.7	3368.21	3583.66	3460.67	4015.94	4149.13	4013.2	4061.06	3488.7	
G19	3317.9	3172.43	3403.23	3288.63	3866.13	3988.47	3852.92	3903.37	3317.9	
G20	3136.28	2972.98	3213.35	3094.23	3689.85	3827.43	3681.45	3737.15	3136.28	
G21	2940.46	2760.36	3009.04	2899.87	3528.39	3669.51	3516.5	3579.89	2940.46	
G22	2729.44	2535.09	2796.84	2681.49	3355.56	3502.34	3336.54	3406.53	2729.44	
G23	2497.09	2299.39	2580.59	2453.58	3177.81	3325.64	3153.6	3224.4	2497.09	
G24	2254.78	2059.48	2340.12	2210.66	2992.09	3149.4	2956.41	3032.54	2254.78	
G25	2002.42	1821.61	2103.57	1966.18	2787.92	2957.22	2745.07	2834.17	2002.42	
G26	1752.47	1587.94	1863.66	1719.29	2563.83	2741.67	2522.49	2618.86	1752.47	
G27	1507.04	1372.86	1633.25	1486.99	2311.61	2516.63	2285.42	2388.49	1507.04	
G28	1285.74	1179.64	1421.15	1275.17	2060.85	2276.5	2042.35	2142.79	1285.74	
G29	1088.22	1008.83	1230.28	1093.32	1812.74	2033.29	1798.44	1897.65	1088.22	
G30	917.98	862.76	1063.3	934.78	1570.62	1787.58	1570.52	1655.05	917.98	
G31	778.8	738.91	917.79	800.51	1343.46	1551.55	1359.74	1421.52	778.8	
G32	670.67	639.75	791.26	691.48	1138.96	1336.71	1174.83	1216.69	670.67	
G33	579.34	555.7	688.51	603.37	969.52	1147.45	1010.63	1039.84	579.34	
G34	505.9	486.74	601.15	527.33	830.19	984.86	871.44	889.85	505.9	
G35	443.7	428.26	529.64	465.79	715.93	846.52	759.21	768.6	443.7	
G36	392.68	380.31	468.95	411.98	623.33	732.21	661.75	667.79	392.68	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	349.12	338.92	418.12	367.52	544.09	637.96	581.23	585.15	349.12	
G38	312.49	304.28	373.47	328.21	478.48	561.27	513.03	516.38	312.49	
G39	281.48	274.26	336.99	294.98	424.63	493.68	453.85	458.8	281.48	
G40	254.16	248.59	304.23	266.57	380.5	438.18	405.0	407.73	254.16	
G41	230.75	226.36	276.43	242.54	340.62	391.5	361.95	365.35	230.75	
G42	210.97	207.81	252.08	221.54	307.44	351.71	325.42	328.68	210.97	
G43	194.59	190.72	230.65	203.75	278.46	316.64	294.37	297.43	194.59	
G44	180.76	176.8	211.44	187.28	254.58	287.48	267.32	270.16	180.76	
G45	168.12	164.2	195.4	174.44	232.78	262.27	244.34	247.31	168.12	
G46	157.87	154.1	181.09	162.59	214.56	240.61	222.91	227.06	157.87	
G47	149.24	145.46	169.34	152.78	199.08	221.5	204.79	209.65	149.24	
G48	142.49	137.91	159.43	144.8	186.14	204.79	188.27	194.36	142.49	
G49	135.69	131.54	151.08	137.58	174.11	190.35	174.96	181.9	135.69	
G50	130.31	125.92	143.71	131.11	164.72	178.59	162.83	170.1	130.31	
G51	125.45	120.78	137.2	125.59	156.36	167.74	152.68	160.85	125.45	
G52	120.64	116.15	131.4	120.35	149.47	158.77	143.71	152.35	120.64	
G53	115.96	111.76	125.97	115.77	143.15	150.89	136.82	145.37	115.96	
G54	111.43	108.03	121.06	111.43	137.53	144.33	130.22	138.66	111.43	
G55	107.23	103.64	116.67	107.09	131.92	137.72	124.36	132.95	107.23	
G56	103.64	99.49	111.67	102.65	127.01	132.29	119.03	127.71	103.64	
G57	99.35	95.2	107.14	98.69	122.43	127.2	114.45	123.28	99.35	
G58	95.1	91.47	102.61	94.54	117.9	122.52	109.83	118.23	95.1	
G59	91.28	87.17	98.88	90.43	113.08	117.43	105.49	113.46	91.28	
G60	86.94	82.55	94.06	86.28	109.07	112.75	101.24	108.93	86.94	
G61	82.03	77.83	89.25	81.13	104.26	108.22	96.8	104.68	82.03	
G62	77.78	75.09	84.72	77.17	99.87	104.16	92.79	100.34	77.78	
G63	74.9	72.21	81.79	74.38	95.29	99.4	88.45	96.0	74.9	
G64	72.64	69.95	79.01	71.93	90.24	94.77	83.44	90.85	72.64	
G65	69.9	67.35	76.32	69.38	85.95	89.25	78.87	86.18	69.9	
G66	67.4	64.9	73.58	66.83	82.64	85.38	75.75	82.92	67.4	
G67	64.9	62.21	70.84	64.33	79.86	82.5	73.44	80.23	64.9	
G68	62.49	59.52	67.82	61.5	77.12	79.43	70.8	77.36	62.49	
G69	59.7	56.83	64.99	59.18	74.34	76.55	68.25	74.71	59.7	
G70	57.11	54.42	62.11	56.16	71.5	73.91	65.46	71.83	57.11	
G71	54.23	51.59	59.28	53.43	68.58	70.94	62.91	69.0	54.23	
G72	51.4	48.33	56.49	50.6	65.89	68.06	60.08	66.03	51.4	
G73	48.28	45.59	53.66	47.39	62.87	65.27	57.44	63.62	48.28	

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Test Date: 2025/5/13 9:48:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:48:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: