

Report No.:

Test Time: 2025/8/1 11:27:37

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-EB-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.2070 A
Power(W): 43.25 W
Power Factor: 0.9480
Lamp Luminous Flux: 2956.97

Photometric Results

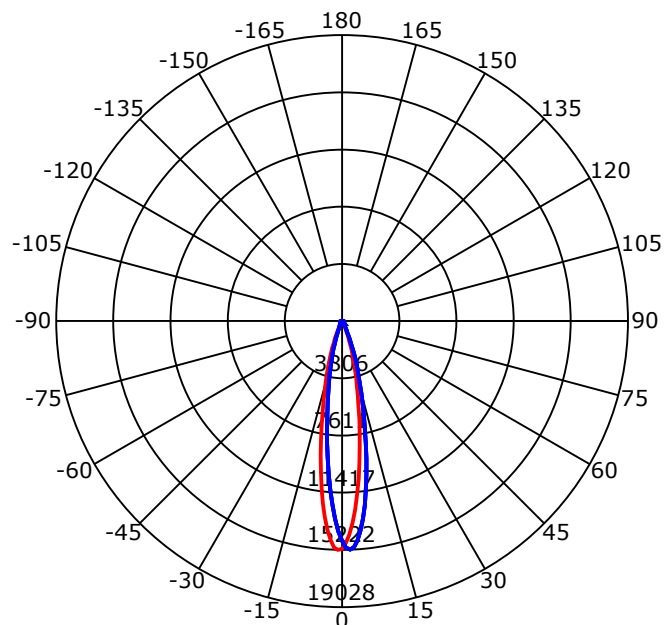
CIE Class: Direct
Luminaire Luminous Flux: 2956.973 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.36 lm/W
Beam Angle(50%) C0-180,C90-270: 19.4,19.3
Field Angle(10%) C0-180,C90-270: 40.8,40.6
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 15222.42 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 15149.69 cd
Effective Luminous Flux: 2083.88 lm
ERP(ϕ use)(120deg): 2802.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 19.4 deg,19.3 deg

C0-180 — C90-270 —

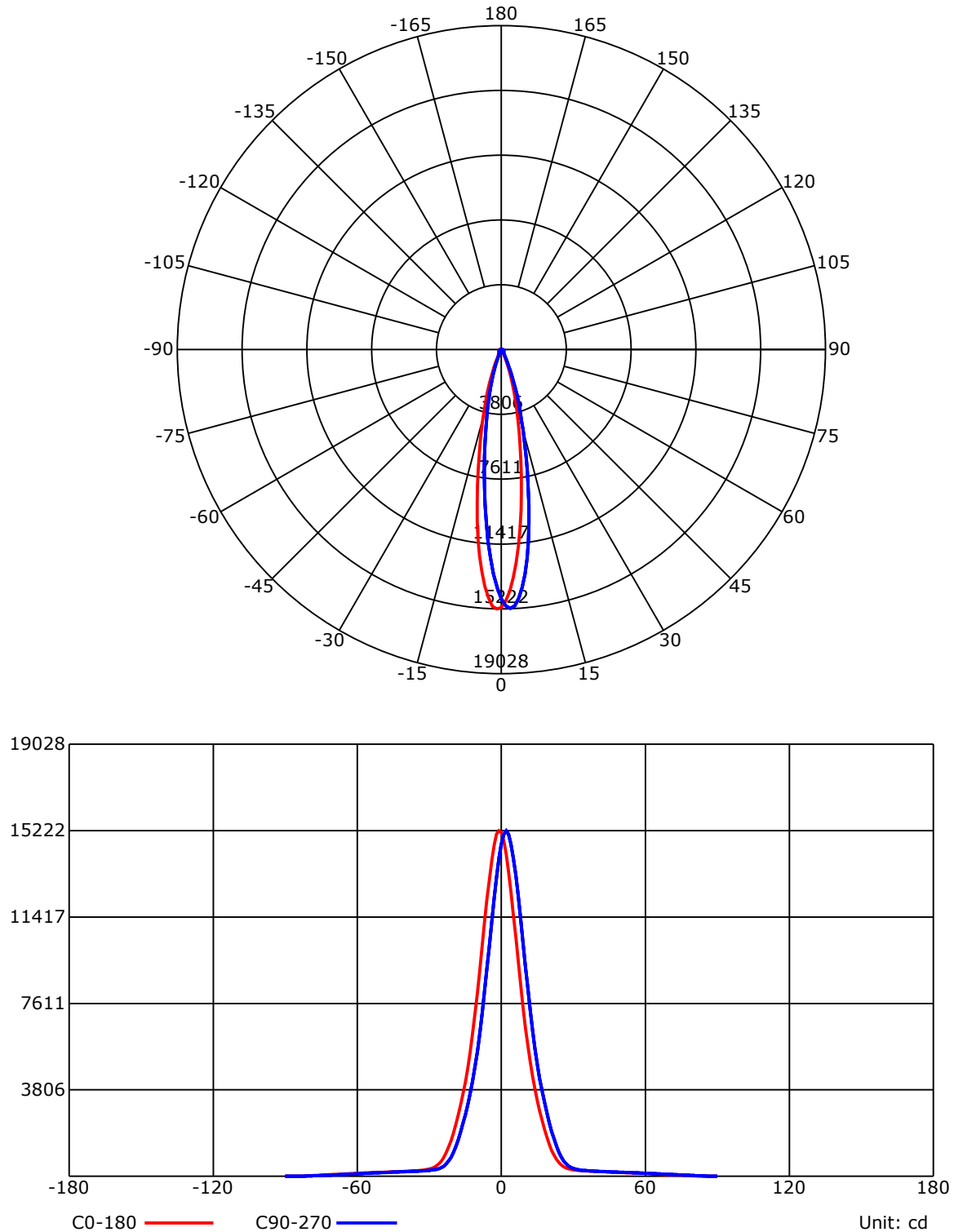
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:27:37

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.:

Test Time: 2025/8/1 11:27:37

Luminous Intensity Distribution Curve



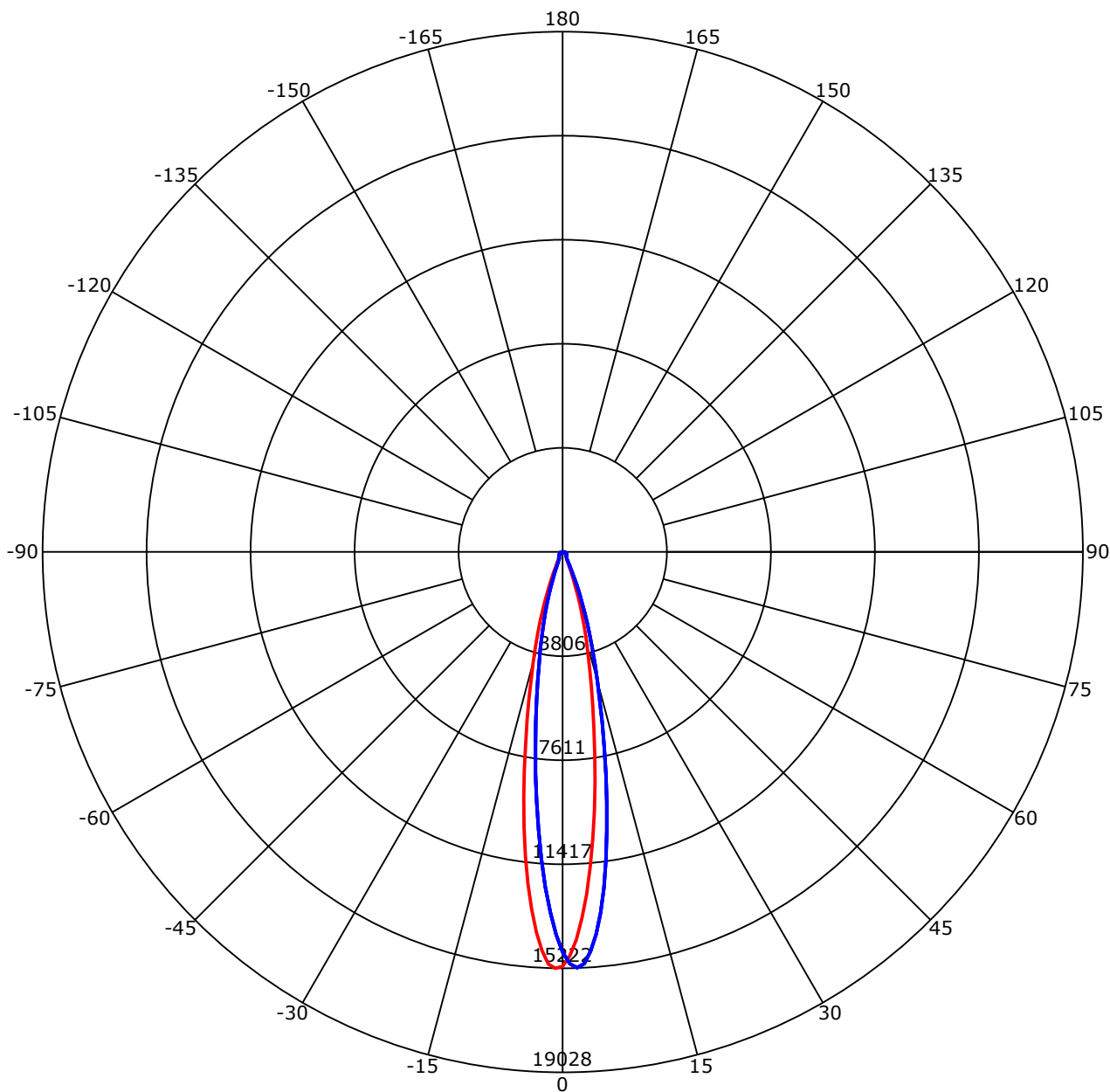
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Temperature: 25
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/8/1 11:27:37

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

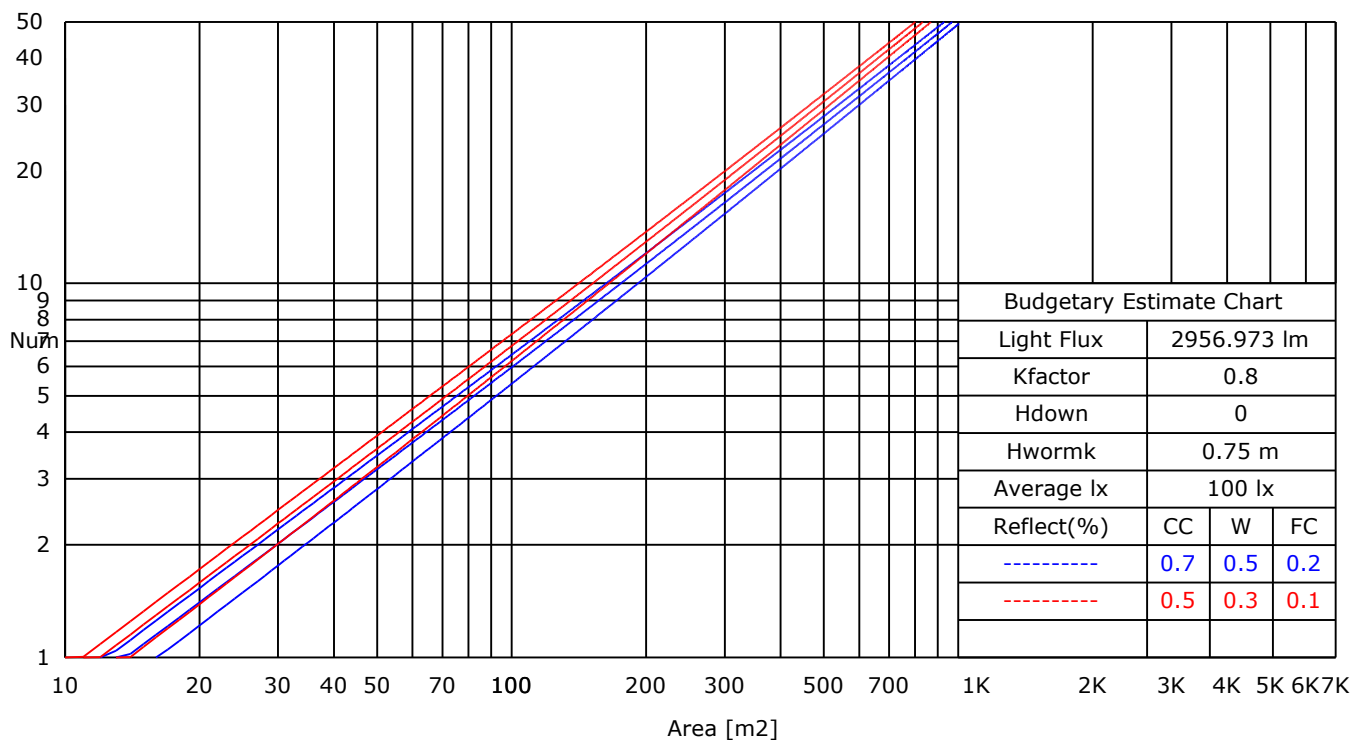
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UTILIZATION FACTORS TABLE

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	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.77	0.73	0.78	0.73	0.69	0.74	0.69	0.64	0.59
2	0.78	0.75	0.73	0.78	0.74	0.71	0.77	0.72	0.69	0.74	0.70	0.65	0.71	0.66	0.61	0.56
3	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.69	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
4	0.71	0.68	0.66	0.71	0.67	0.65	0.70	0.66	0.62	0.68	0.63	0.59	0.66	0.60	0.56	0.52
5	0.68	0.66	0.64	0.68	0.65	0.63	0.67	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
6	0.66	0.63	0.62	0.66	0.63	0.61	0.65	0.61	0.58	0.64	0.59	0.55	0.62	0.56	0.52	0.48
7	0.64	0.62	0.60	0.64	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.54	0.60	0.55	0.51	0.47
8	0.62	0.60	0.59	0.62	0.59	0.57	0.61	0.57	0.55	0.60	0.56	0.52	0.59	0.53	0.49	0.46
9	0.60	0.59	0.57	0.60	0.58	0.56	0.60	0.56	0.54	0.59	0.54	0.51	0.57	0.52	0.48	0.45
10	0.59	0.57	0.56	0.59	0.57	0.55	0.58	0.55	0.53	0.57	0.53	0.50	0.56	0.51	0.47	0.44

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



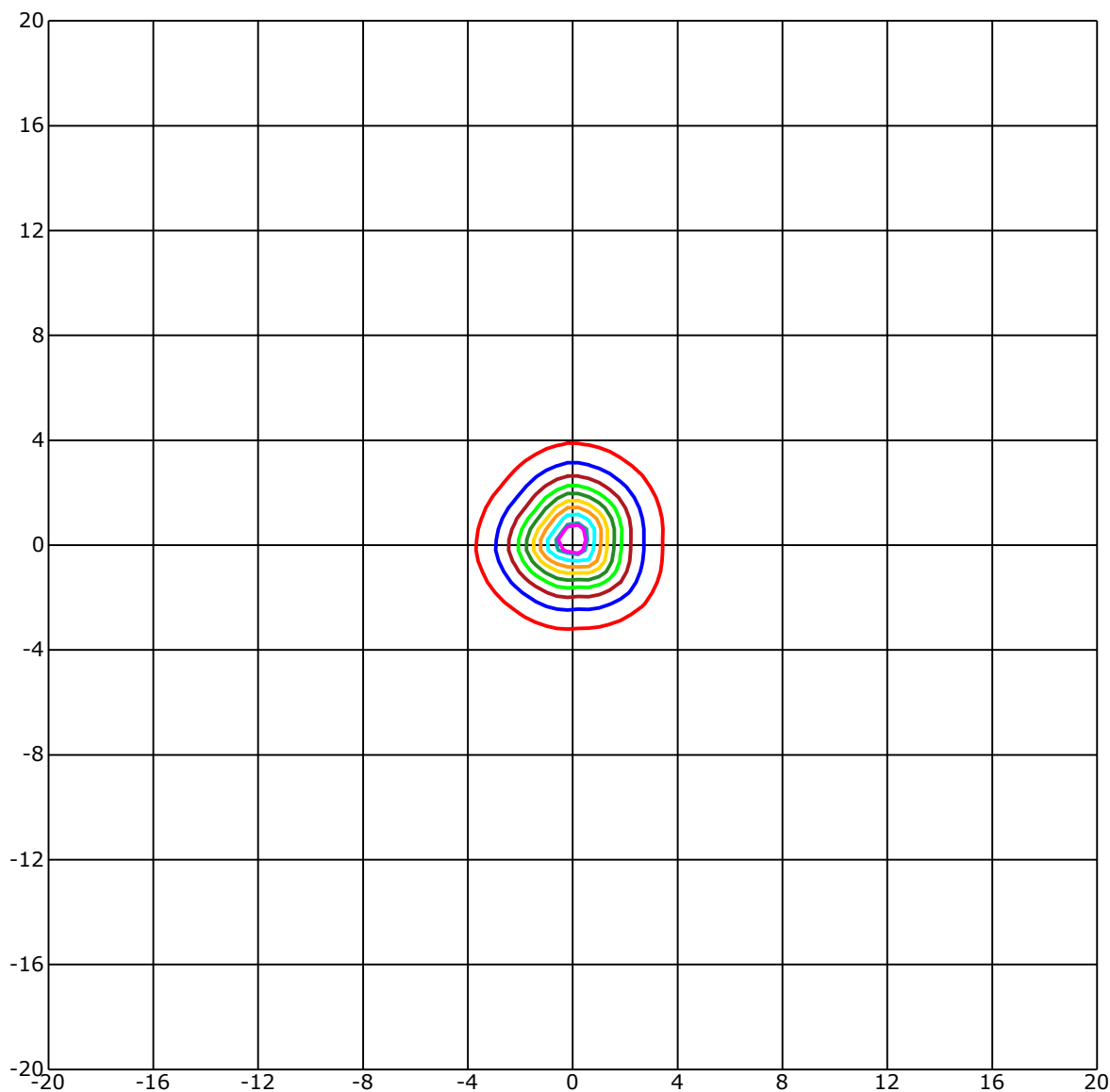
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

139.982(92%Emax)	76.077(50%Emax)
136.939(90%Emax)	60.862(40%Emax)
121.724(80%Emax)	45.646(30%Emax)
106.508(70%Emax)	30.431(20%Emax)
91.293(60%Emax)	15.215(10%Emax)

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Test Date: 2025/8/1 11:27:37

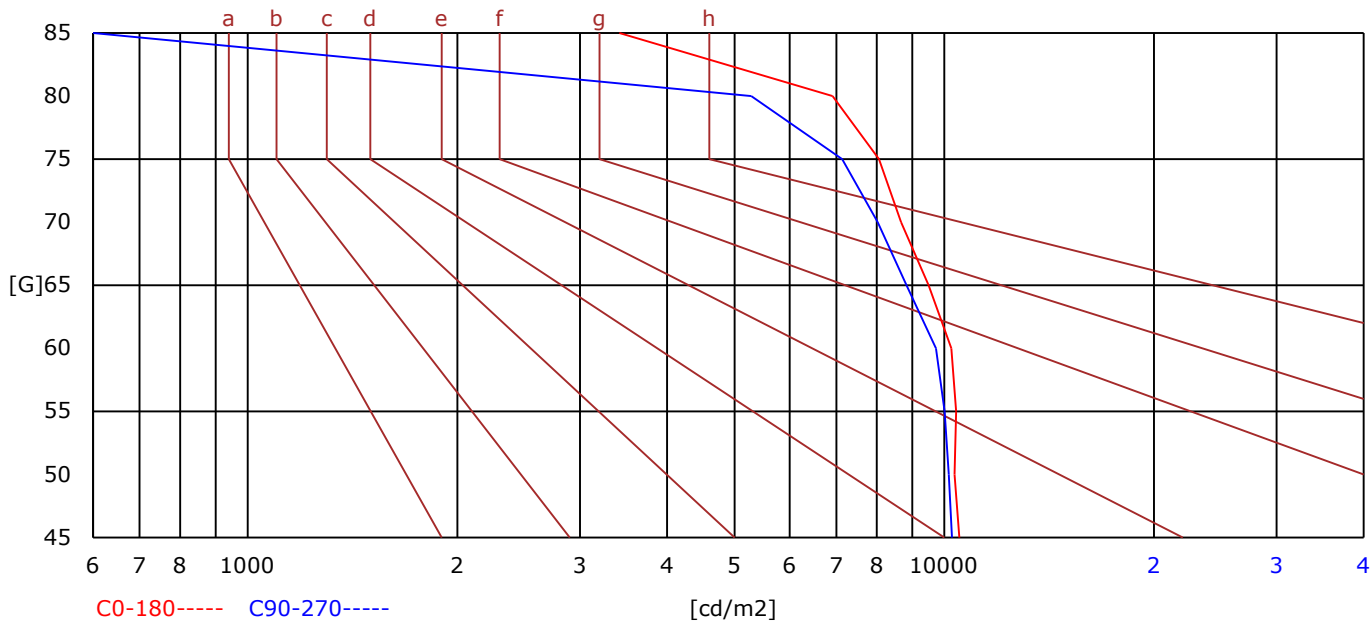
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10515	10341	10400	10241	9497	8674	8061	6914	3417
C90	10258	10146	10008	9728	8823	8028	7135	5285	0
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



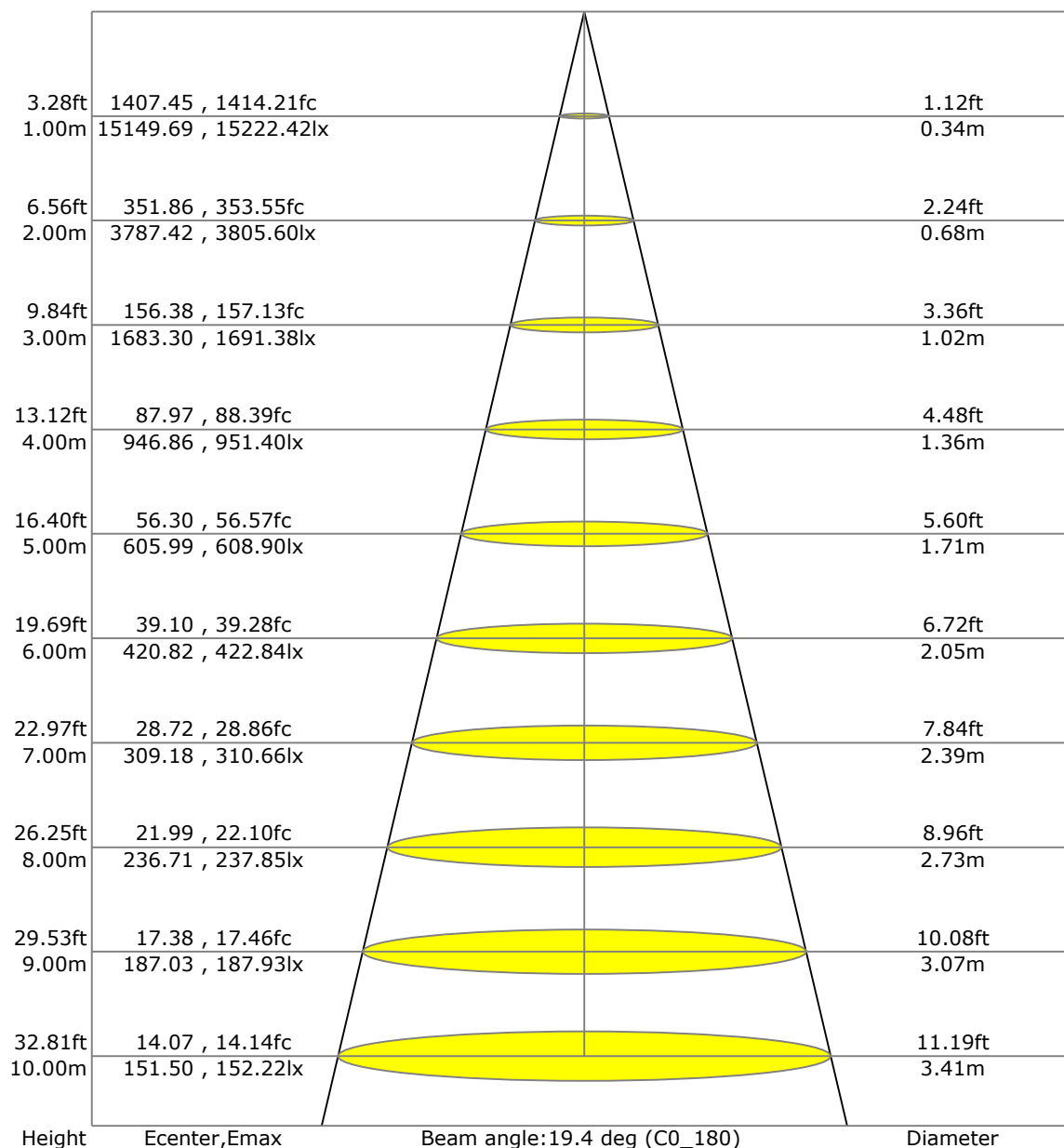
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/8/1 11:27:37

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	9.32	9.39	9.52	9.58	9.82	9.44	9.51	9.64	9.70	9.94
3H	9.49	9.56	9.70	9.76	10.00	9.59	9.66	9.80	9.85	10.10
4H	9.52	9.59	9.73	9.79	10.03	9.60	9.67	9.81	9.87	10.12
6H	9.51	9.58	9.73	9.78	10.04	9.59	9.66	9.81	9.86	10.12
8H	9.50	9.57	9.72	9.78	10.03	9.58	9.65	9.80	9.86	10.11
12H	9.49	9.56	9.71	9.77	10.02	9.57	9.64	9.79	9.85	10.10
4H 2H	11.25	11.32	11.46	11.52	11.77	11.67	11.74	11.88	11.93	12.18
3H	11.59	11.66	11.82	11.87	12.13	11.97	12.04	12.20	12.25	12.51
4H	11.67	11.74	11.90	11.96	12.22	12.03	12.11	12.26	12.32	12.58
6H	11.69	11.76	11.93	11.99	12.25	12.04	12.11	12.28	12.33	12.60
8H	11.69	11.76	11.93	11.98	12.25	12.03	12.10	12.27	12.33	12.59
12H	11.67	11.74	11.93	11.98	12.25	12.01	12.08	12.27	12.32	12.59
8H 4H	11.53	11.60	11.75	11.80	12.06	12.17	12.24	12.39	12.44	12.70
6H	12.14	12.20	12.39	12.44	12.72	12.76	12.82	13.01	13.06	13.34
8H	12.14	12.21	12.41	12.45	12.73	12.75	12.82	13.02	13.06	13.34
12H	12.13	12.19	12.40	12.45	12.73	12.74	12.80	13.01	13.05	13.34
12H 4H	12.06	12.13	12.31	12.36	12.63	12.79	12.86	13.04	13.09	13.36
6H	12.13	12.20	12.40	12.44	12.72	12.85	12.92	13.12	13.16	13.44

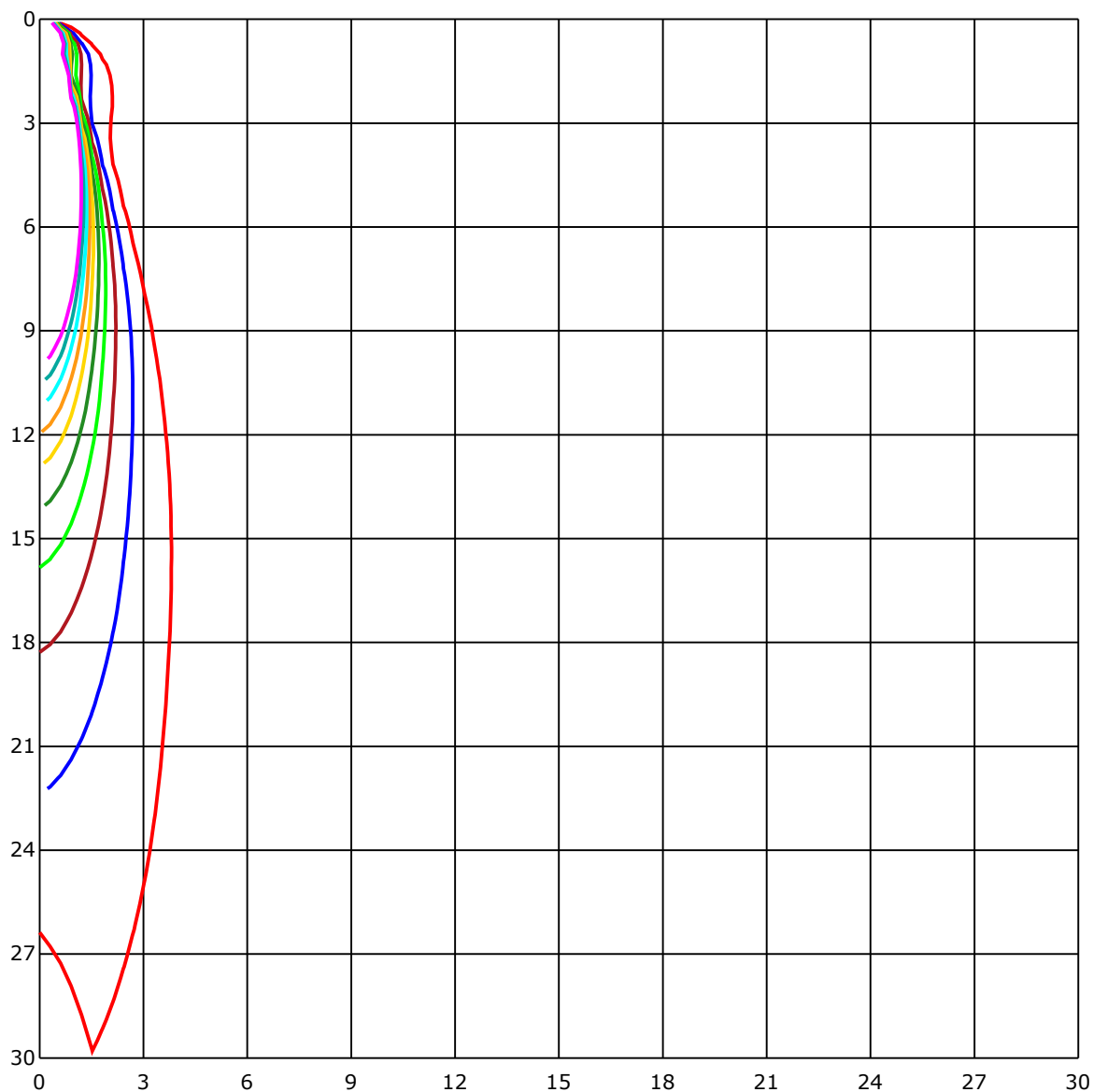
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

151.049	75.524
135.944	60.419
120.839	45.315
105.734	30.21
90.629	15.105

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G Interval: 1.0 Deg
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	15149.69	14983.88	14625.38	15181.78	15149.69	14983.88	14625.38	15181.78	15149.69	
G1	14763.0	15194.66	15065.01	15090.55	15222.42	14487.23	13995.63	15014.7	14763.0	
G2	14184.18	15082.67	15213.35	14682.67	15075.96	13786.26	13172.47	14607.68	14184.18	
G3	13409.21	14732.04	15067.66	14041.88	14589.93	12979.19	12258.4	13943.05	13409.21	
G4	12539.7	14160.2	14636.42	13274.13	13921.95	12048.33	11246.74	13138.25	12539.7	
G5	11538.23	13413.03	14023.52	12378.8	13094.17	11055.73	10200.0	12231.31	11538.23	
G6	10531.7	12550.03	13257.61	11376.95	12195.25	10013.15	9148.46	11258.49	10531.7	
G7	9498.66	11583.11	12356.76	10333.24	11206.05	8992.33	8154.49	10222.8	9498.66	
G8	8480.72	10549.21	11364.73	9312.8	10146.01	7984.06	7185.26	9178.05	8480.72	
G9	7478.73	9517.73	10319.41	8239.78	9089.04	7052.87	6295.69	8189.75	7478.73	
G10	6579.96	8470.85	9286.18	7269.69	8092.33	6178.36	5503.68	7215.56	6579.96	
G11	5754.15	7502.28	8273.24	6384.56	7124.37	5412.59	4800.11	6344.11	5754.15	
G12	5044.69	6586.61	7310.75	5581.41	6267.37	4727.05	4177.68	5590.71	5044.69	
G13	4403.33	5772.51	6419.82	4854.3	5465.68	4125.91	3645.02	4893.14	4403.33	
G14	3843.81	5032.42	5619.74	4237.62	4767.83	3597.91	3158.28	4284.58	3843.81	
G15	3327.66	4383.32	4926.46	3676.36	4154.55	3115.37	2718.97	3739.46	3327.66	
G16	2871.37	3818.42	4285.57	3183.81	3604.76	2670.45	2312.13	3245.21	2871.37	
G17	2440.41	3308.93	3732.85	2739.83	3119.15	2257.29	1932.01	2782.54	2440.41	
G18	2055.0	2843.14	3243.51	2330.21	2682.34	1879.85	1592.9	2367.96	2055.0	
G19	1711.83	2418.94	2790.56	1951.55	2279.28	1542.21	1299.52	1976.46	1711.83	
G20	1405.0	2033.95	2354.89	1615.46	1901.66	1256.9	1044.75	1637.87	1405.0	
G21	1135.79	1681.48	1963.25	1309.15	1565.57	1008.08	833.45	1338.32	1135.79	
G22	917.37	1368.57	1620.22	1051.69	1279.27	807.63	667.27	1079.82	917.37	
G23	735.61	1102.52	1313.44	841.24	1033.85	653.3	543.05	873.52	735.61	
G24	596.52	876.35	1051.55	671.8	832.98	537.43	445.73	709.23	596.52	
G25	494.48	699.36	837.7	541.02	671.33	449.79	383.66	586.28	494.48	
G26	416.04	562.92	669.96	442.99	552.2	390.18	338.97	495.19	416.04	
G27	363.94	460.55	547.96	375.92	459.04	348.12	306.64	423.88	363.94	
G28	326.79	388.43	450.73	329.39	396.69	317.92	286.82	377.58	326.79	
G29	300.36	338.17	387.86	299.32	351.81	297.15	273.51	341.38	300.36	
G30	284.27	303.71	342.56	277.33	320.99	281.39	261.66	315.51	284.27	
G31	268.41	280.59	311.36	261.66	297.39	270.67	251.7	297.91	268.41	
G32	258.07	264.3	287.95	253.45	281.67	261.14	244.86	284.79	258.07	
G33	249.25	252.31	271.52	241.22	268.03	251.65	238.63	272.47	249.25	
G34	241.7	242.78	260.72	234.99	258.36	244.86	231.74	264.11	241.7	
G35	235.23	235.47	250.9	230.08	249.67	238.39	226.73	255.71	235.23	
G36	229.38	228.62	242.4	225.7	243.39	232.82	220.98	249.25	229.38	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	223.43	223.38	236.65	217.77	236.13	226.83	219.18	241.7	223.43	
G38	218.66	217.2	229.42	213.71	230.46	221.45	211.06	235.42	218.66	
G39	213.99	213.24	224.66	208.28	225.18	218.1	207.34	230.18	213.99	
G40	209.46	208.42	219.56	205.35	220.65	212.29	203.04	225.6	209.46	
G41	205.02	204.41	213.71	200.4	215.03	207.29	199.88	218.71	205.02	
G42	200.21	200.63	208.66	196.67	211.68	204.03	193.88	213.38	200.21	
G43	195.4	194.92	204.79	191.19	207.1	200.54	189.35	208.66	195.4	
G44	190.77	190.77	201.58	189.07	202.38	194.17	185.11	206.91	190.77	
G45	187.51	187.37	197.14	182.79	198.79	192.75	183.17	201.86	187.51	
G46	183.12	182.94	191.53	179.49	193.51	185.67	176.75	196.06	183.12	
G47	178.26	179.07	186.66	175.19	188.88	183.6	173.59	191.62	178.26	
G48	174.96	175.15	183.03	172.88	185.63	178.5	168.73	187.94	174.96	
G49	171.04	172.32	180.29	168.12	181.0	173.83	165.33	183.08	171.04	
G50	167.45	167.5	175.9	164.34	177.89	169.11	160.85	179.54	167.45	
G51	162.88	165.61	172.46	160.23	172.79	166.61	156.32	173.35	162.88	
G52	158.35	159.86	167.08	157.5	170.85	161.32	151.93	170.14	158.35	
G53	154.29	156.69	163.87	151.88	164.91	156.88	148.43	165.33	154.29	
G54	151.27	152.4	160.0	148.67	161.89	153.39	144.56	161.08	151.27	
G55	146.4	150.32	155.7	144.66	156.32	150.27	139.61	155.84	146.4	
G56	142.63	144.8	151.08	141.4	153.11	144.19	135.31	152.92	142.63	
G57	137.39	141.64	147.44	136.87	148.58	138.43	130.97	147.49	137.39	
G58	133.24	136.87	143.15	132.48	144.38	132.58	122.66	142.58	133.24	
G59	126.25	133.71	141.87	128.05	138.99	126.68	117.66	136.21	126.25	
G60	120.07	129.04	135.03	122.57	133.43	120.73	110.96	130.45	120.07	
G61	115.21	123.0	129.93	116.34	127.76	115.4	105.53	123.56	115.21	
G62	110.77	116.34	124.27	109.87	121.58	109.36	100.72	118.18	110.77	
G63	103.6	111.43	120.54	104.82	117.0	104.26	95.57	112.38	103.6	
G64	97.89	105.44	113.7	99.02	111.01	99.16	88.35	107.18	97.89	
G65	92.41	101.14	108.03	93.97	104.73	94.58	83.63	100.95	92.41	
G66	87.93	94.54	102.7	88.82	99.54	88.35	78.39	96.09	87.93	
G67	81.27	89.77	98.5	83.63	94.54	84.67	73.44	89.39	81.27	
G68	75.89	84.81	91.51	79.53	88.31	77.59	67.87	85.33	75.89	
G69	71.03	80.52	86.84	73.44	83.21	72.31	64.52	79.53	71.03	
G70	66.83	74.76	81.51	69.19	78.16	67.21	58.52	75.0	66.83	
G71	62.3	70.61	77.87	64.05	73.53	62.39	54.04	68.72	62.3	
G72	57.34	65.7	71.93	59.56	69.24	58.38	49.32	64.61	57.34	
G73	52.58	61.97	67.4	54.89	63.86	53.8	45.36	59.99	52.58	

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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:

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: 2025/8/1 11:27:37

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