

Report No.:

Test Time: 2025/5/8 17:17:46

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H68-15°-15W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

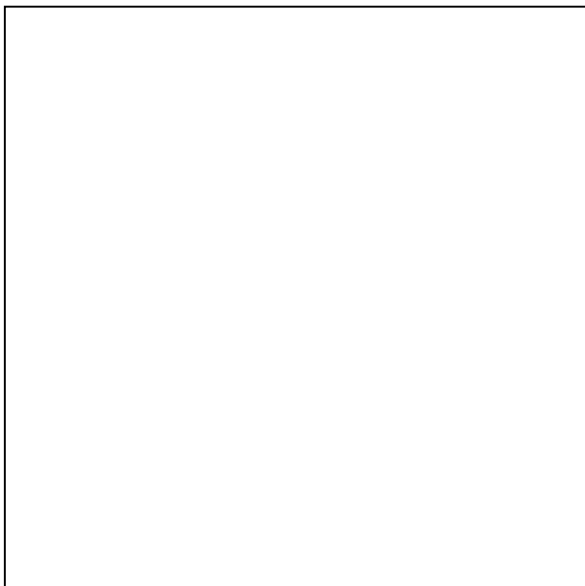
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.49 W
Power Factor: 0.9520
Lamp Luminous Flux: 1448.75

Photometric Results

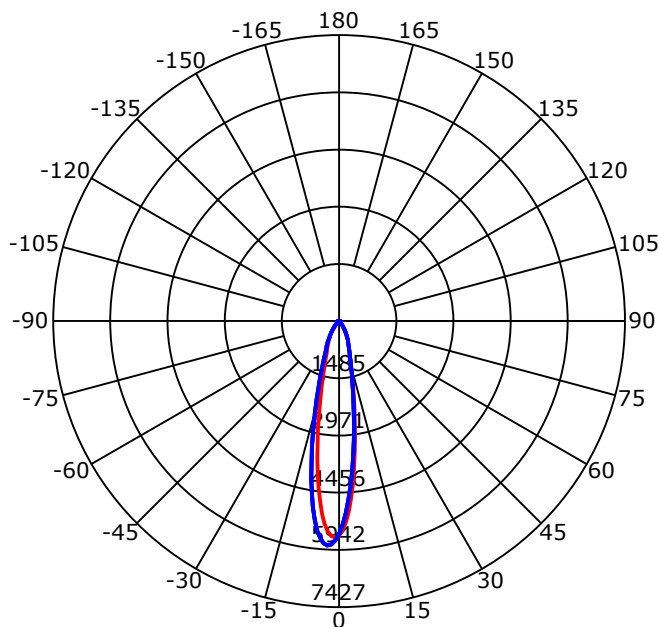
CIE Class: Direct
Luminaire Luminous Flux: 1448.749 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.53 lm/W
Beam Angle(50%) C0-180,C90-270: 19.6,20.9
Field Angle(10%) C0-180,C90-270: 52.8,52.5
S/MH C0-180,C90-270: 0.353,0.389

Max. Intensity: 5942.00 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5570.37 cd
Effective Luminous Flux: 1058.15 lm
ERP(ϕ use)(120deg): 1411.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 19.6 deg,20.9 deg

C0-180 — C90-270 —

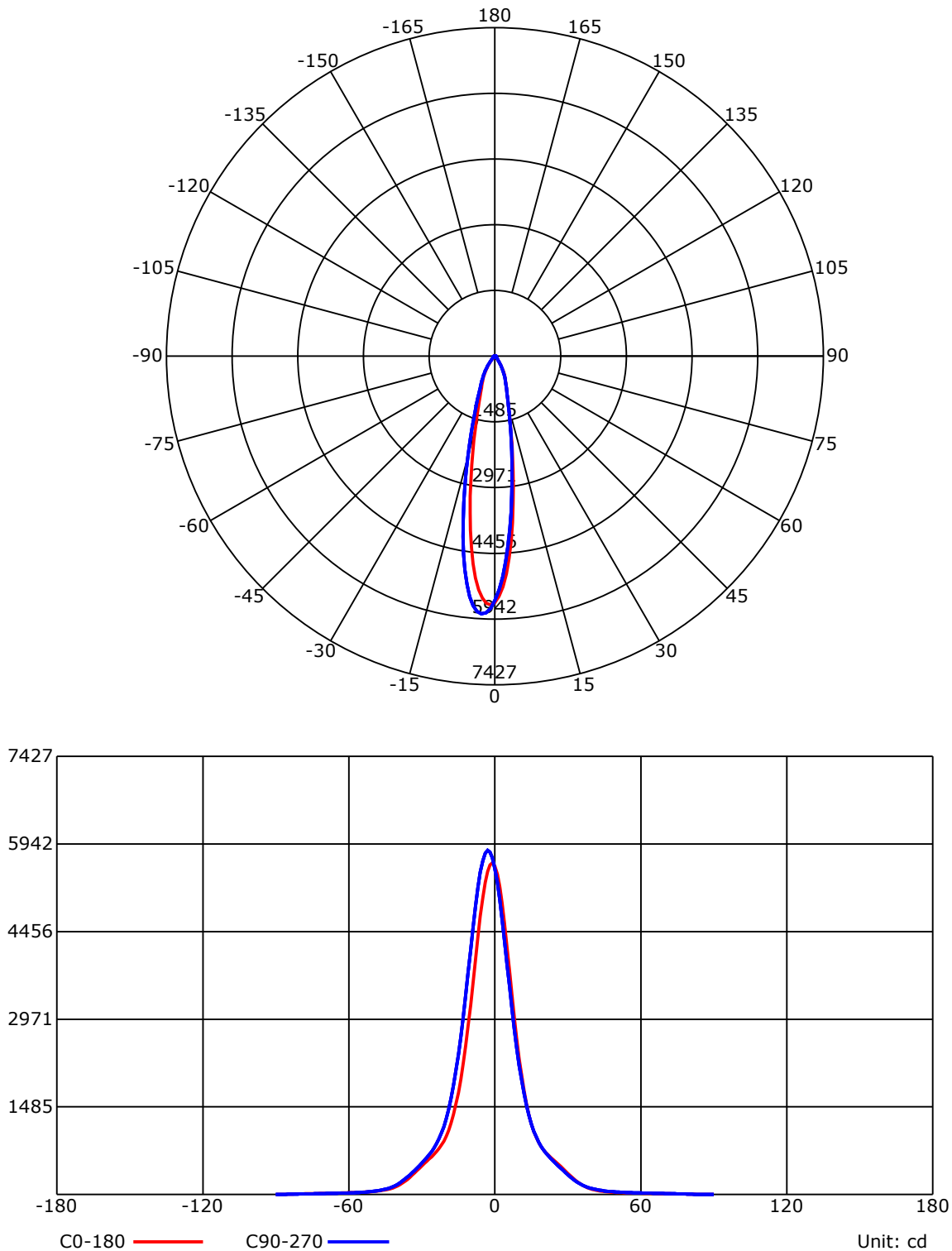
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:17:46

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: 2025/5/8 17:17:46

Luminous Intensity Distribution Curve



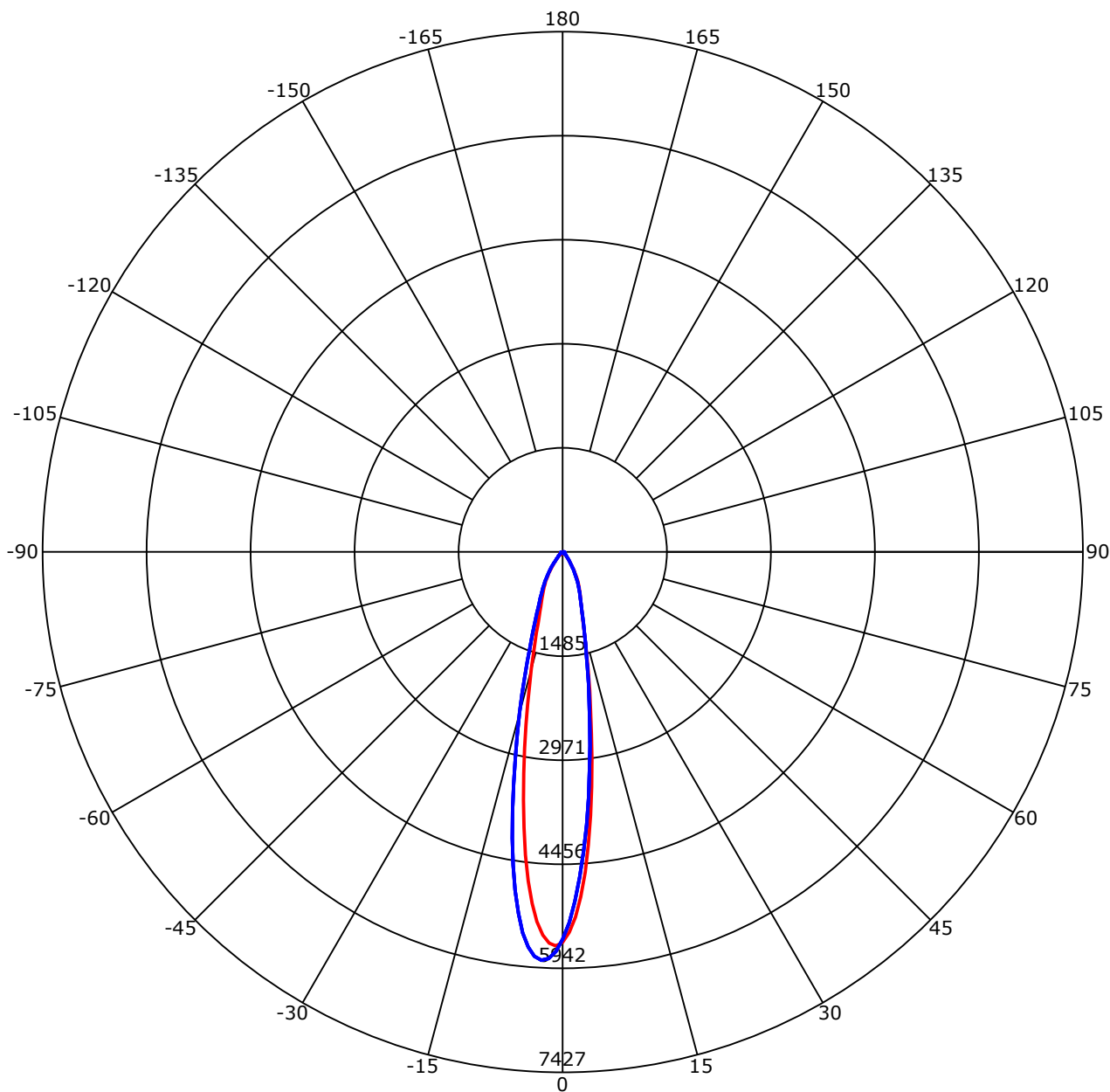
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Luminous Intensity Distribution Curve



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: 2025/5/8 17:17:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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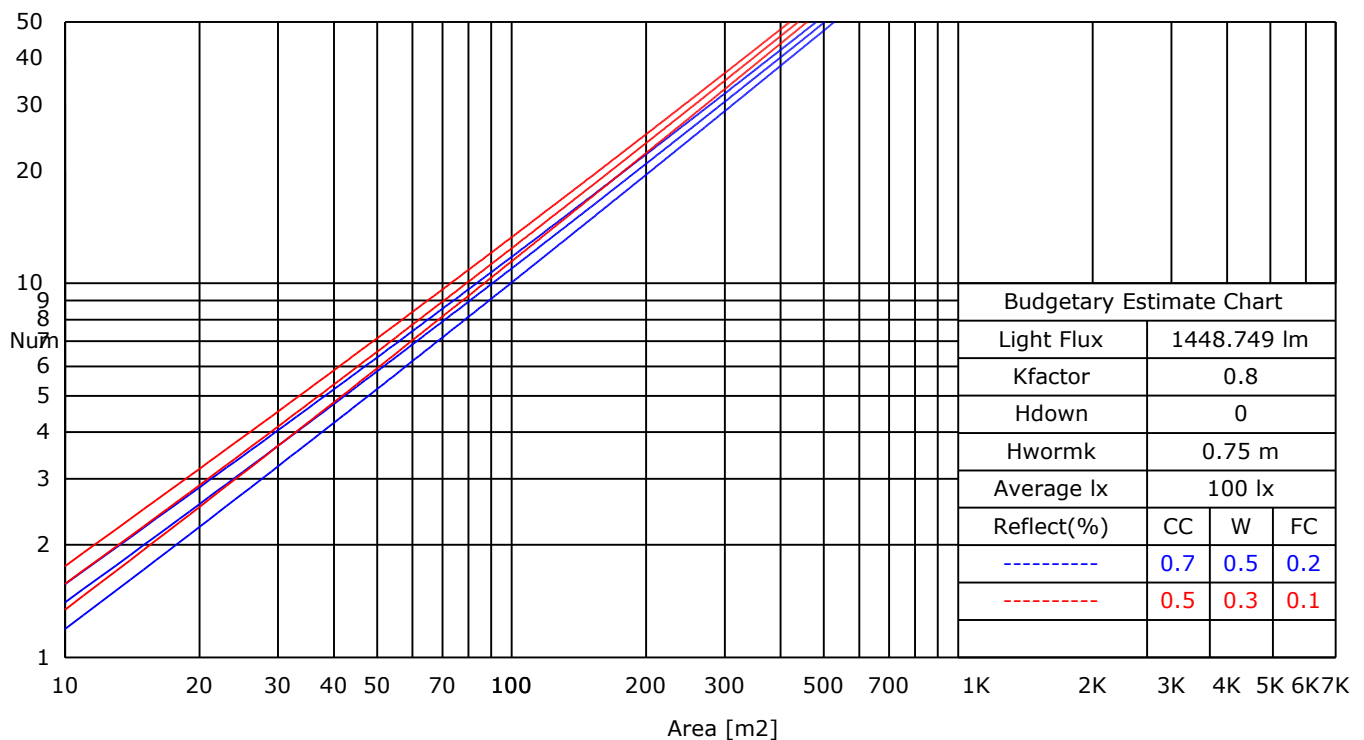
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UTILIZATION FACTORS TABLE

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	1.19	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	0.91	0.88	0.86	0.90	0.87	0.84	0.88	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.71	0.66
2	0.86	0.84	0.82	0.86	0.83	0.80	0.84	0.80	0.77	0.81	0.76	0.73	0.76	0.72	0.68	0.63
3	0.82	0.80	0.78	0.82	0.79	0.77	0.80	0.76	0.73	0.78	0.73	0.70	0.74	0.69	0.65	0.61
4	0.79	0.77	0.75	0.79	0.76	0.74	0.77	0.73	0.71	0.75	0.70	0.67	0.72	0.67	0.63	0.59
5	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.73	0.71	0.69	0.72	0.68	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.55
7	0.71	0.70	0.69	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.54
8	0.69	0.68	0.67	0.69	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
9	0.68	0.66	0.65	0.67	0.65	0.64	0.66	0.63	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.51
10	0.66	0.64	0.64	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



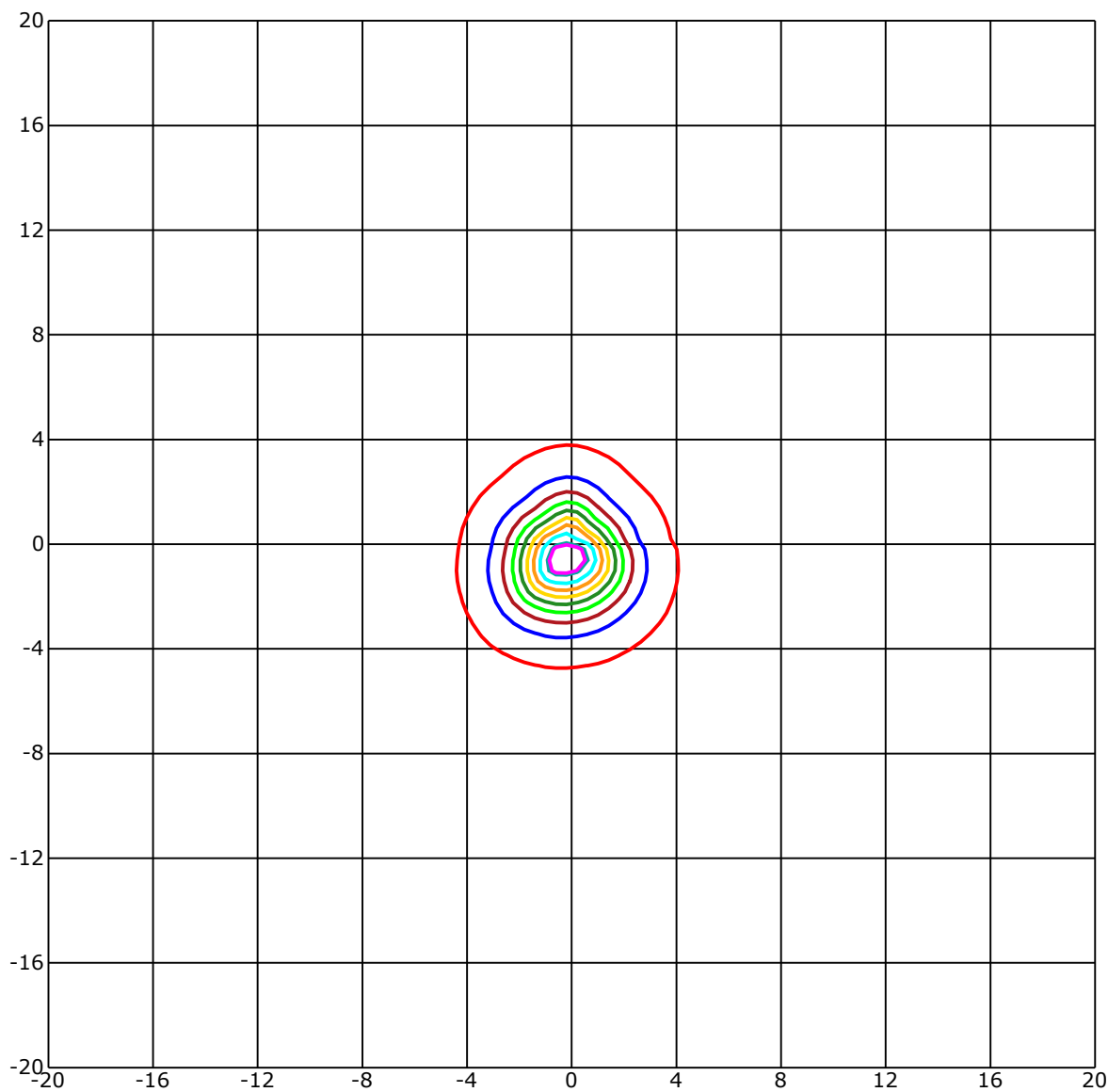
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:17:46

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:17:46

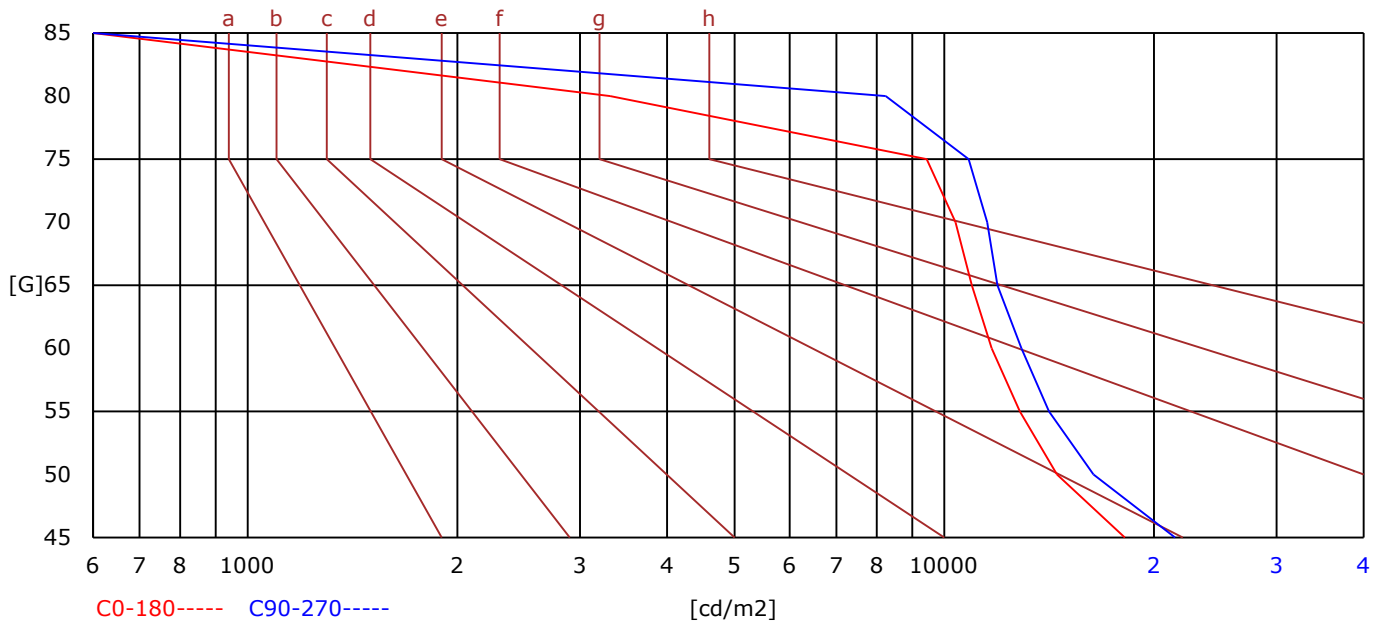
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18155	14515	12842	11701	10955	10378	9432	3313	0
C90	21449	16370	14138	12908	11918	11527	10842	8241	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



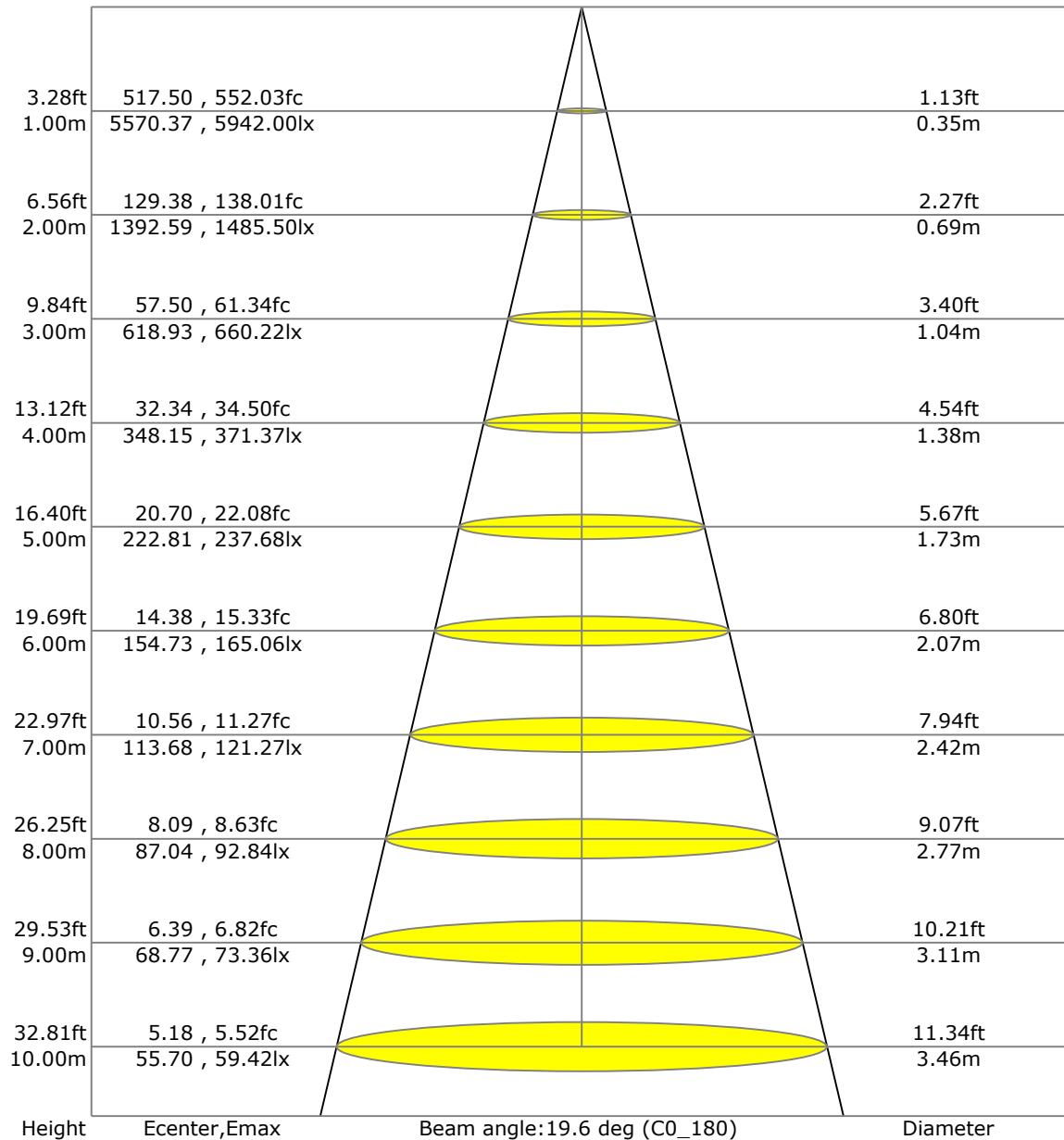
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:17:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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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	10.63	10.69	10.83	10.88	11.12	10.86	10.92	11.06	11.11	11.35
3H	10.72	10.78	10.92	10.97	11.22	10.93	10.99	11.14	11.18	11.43
4H	10.73	10.79	10.94	10.99	11.23	10.94	11.00	11.15	11.19	11.44
6H	10.72	10.78	10.93	10.98	11.23	10.92	10.99	11.14	11.19	11.44
8H	10.71	10.77	10.93	10.97	11.23	10.91	10.98	11.13	11.18	11.43
12H	10.70	10.76	10.92	10.97	11.22	10.90	10.97	11.13	11.17	11.43
4H 2H	12.01	12.07	12.22	12.27	12.52	12.39	12.45	12.60	12.65	12.90
3H	12.22	12.28	12.44	12.49	12.74	12.57	12.64	12.80	12.84	13.10
4H	12.26	12.32	12.49	12.53	12.79	12.60	12.67	12.83	12.88	13.14
6H	12.25	12.31	12.49	12.54	12.80	12.60	12.66	12.83	12.88	13.14
8H	12.24	12.30	12.49	12.53	12.79	12.58	12.64	12.83	12.87	13.14
12H	12.23	12.29	12.48	12.52	12.79	12.57	12.63	12.82	12.86	13.13
8H 4H	12.34	12.40	12.56	12.61	12.86	12.72	12.78	12.94	12.99	13.24
6H	12.63	12.69	12.88	12.92	13.20	12.97	13.03	13.22	13.26	13.54
8H	12.61	12.67	12.88	12.91	13.19	12.95	13.01	13.22	13.25	13.53
12H	12.60	12.65	12.87	12.90	13.19	12.94	12.99	13.21	13.24	13.53
12H 4H	12.63	12.69	12.88	12.92	13.19	12.97	13.03	13.22	13.26	13.53
6H	12.62	12.67	12.88	12.92	13.20	12.96	13.01	13.22	13.26	13.54

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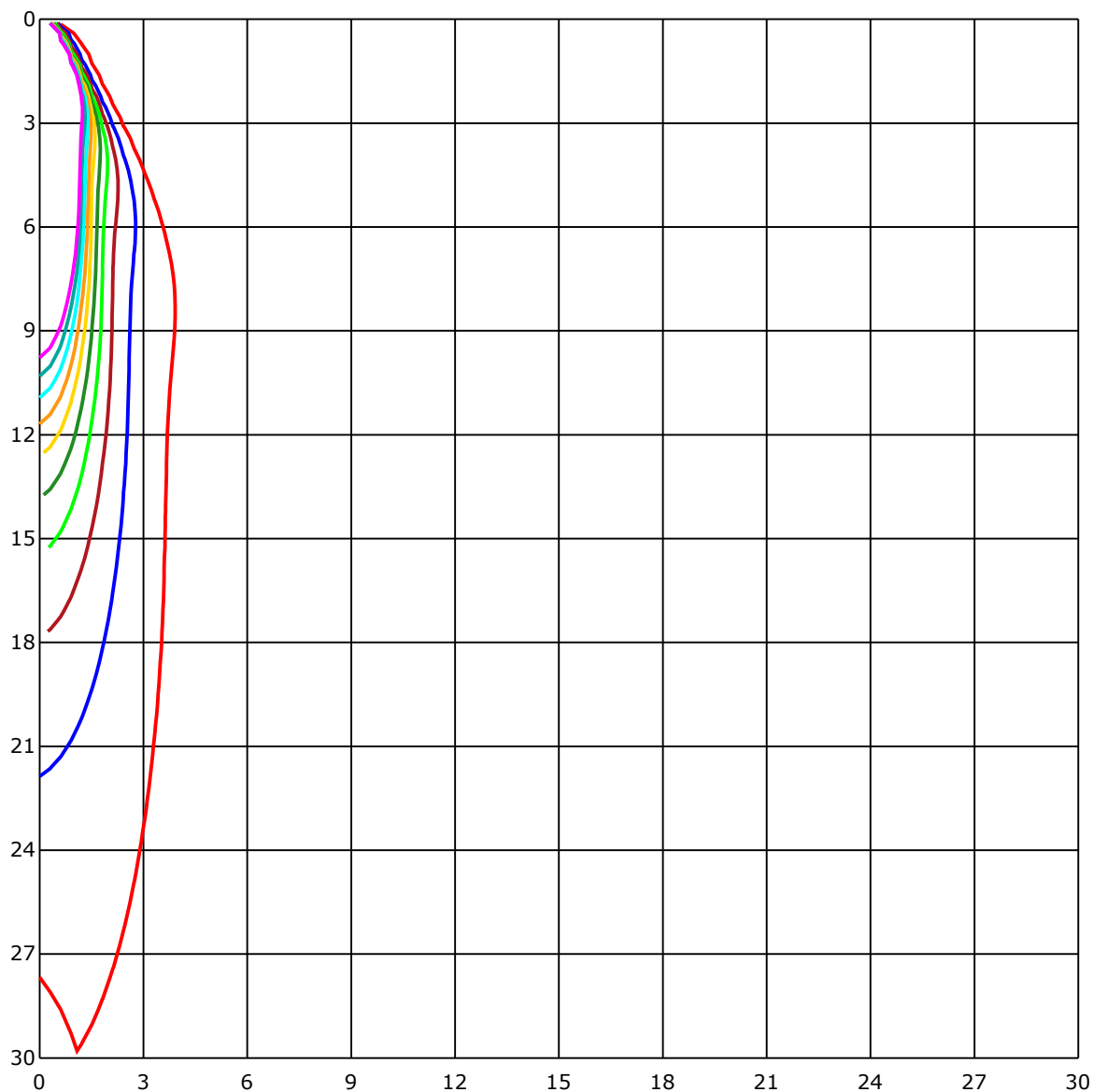
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

58.266
52.439
46.613
40.786
34.96

29.133
23.306
17.48
11.653
5.827

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5570.37	5236.26	5525.34	5378.09	5570.37	5236.26	5525.34	5378.09	5570.37	
G1	5429.39	4883.7	5287.89	5167.92	5622.57	5521.24	5704.17	5510.1	5429.39	
G2	5215.49	4498.1	4988.57	4892.95	5587.64	5739.66	5803.85	5559.65	5215.49	
G3	4925.61	4102.5	4645.97	4572.34	5473.94	5876.11	5832.31	5539.45	4925.61	
G4	4580.13	3677.11	4283.5	4220.49	5289.45	5942.0	5783.65	5427.74	4580.13	
G5	4197.55	3266.07	3904.08	3822.01	5035.2	5924.44	5659.95	5245.09	4197.55	
G6	3784.48	2881.47	3521.27	3436.64	4720.63	5838.02	5464.27	4990.03	3784.48	
G7	3379.53	2531.93	3139.21	3052.51	4357.5	5663.49	5195.01	4682.78	3379.53	
G8	2986.38	2220.94	2790.19	2703.82	3971.29	5419.38	4877.04	4328.81	2986.38	
G9	2627.97	1948.57	2470.95	2385.99	3587.86	5118.79	4525.71	3960.48	2627.97	
G10	2299.1	1708.2	2182.34	2100.17	3207.79	4767.6	4146.96	3588.9	2299.1	
G11	2009.93	1504.68	1926.15	1843.65	2852.25	4378.27	3759.61	3212.08	2009.93	
G12	1752.0	1324.91	1703.86	1624.28	2519.18	3982.52	3377.32	2850.5	1752.0	
G13	1532.48	1171.0	1507.56	1433.7	2226.89	3583.76	3013.66	2528.81	1532.48	
G14	1348.84	1046.36	1337.28	1268.42	1956.22	3197.64	2676.73	2234.68	1348.84	
G15	1196.44	943.61	1196.49	1134.71	1727.36	2846.49	2374.9	1968.54	1196.44	
G16	1070.05	860.54	1075.48	1023.42	1531.73	2524.75	2099.74	1738.36	1070.05	
G17	965.22	790.55	974.33	925.48	1358.52	2234.11	1851.16	1533.85	965.22	
G18	881.78	731.08	887.44	847.28	1213.9	1969.81	1635.23	1362.57	881.78	
G19	811.46	680.82	815.47	782.71	1089.82	1741.28	1445.78	1211.36	811.46	
G20	754.96	634.33	754.16	728.86	987.78	1536.97	1288.52	1087.79	754.96	
G21	708.8	591.66	700.45	681.19	904.86	1369.28	1152.88	989.01	708.8	
G22	665.57	551.87	651.88	639.61	836.19	1219.66	1039.61	904.39	665.57	
G23	627.53	512.04	608.27	599.12	778.98	1096.9	943.37	834.63	627.53	
G24	589.11	472.49	567.68	561.22	728.53	993.31	862.66	776.72	589.11	
G25	552.39	433.69	526.29	521.57	682.84	908.07	790.93	725.09	552.39	
G26	515.86	394.9	484.81	484.48	640.27	836.23	730.8	679.73	515.86	
G27	478.39	357.75	446.86	445.77	601.71	775.07	676.33	637.82	478.39	
G28	438.46	320.89	408.16	407.88	564.43	720.93	626.59	598.41	438.46	
G29	397.63	285.73	370.45	369.6	526.67	669.72	578.35	556.97	397.63	
G30	357.99	250.43	332.31	332.03	487.07	622.67	533.56	517.47	357.99	
G31	318.2	219.09	296.35	295.36	446.48	578.4	489.1	476.97	318.2	
G32	280.21	191.43	263.03	260.62	406.22	533.28	447.66	436.71	280.21	
G33	245.75	166.94	231.22	227.68	366.39	489.29	407.59	396.27	245.75	
G34	213.42	145.41	203.42	197.8	327.07	447.38	368.23	356.48	213.42	
G35	183.78	127.15	178.59	170.99	290.26	406.27	330.9	317.92	183.78	
G36	157.5	111.2	157.35	148.15	254.63	366.11	295.55	280.68	157.5	

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C Interval: 45.0 Deg

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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	134.7	97.65	138.99	128.14	221.54	328.11	260.05	245.28	134.7	
G38	115.68	86.65	123.51	111.29	192.14	292.29	228.53	214.04	115.68	
G39	100.67	77.78	109.97	97.46	166.27	258.03	199.36	185.77	100.67	
G40	87.79	70.04	99.02	86.13	144.0	226.83	173.12	161.6	87.79	
G41	77.45	63.1	89.01	76.27	125.36	198.75	151.08	140.17	77.45	
G42	68.81	57.2	80.33	68.29	109.45	173.87	131.96	122.76	68.81	
G43	61.21	51.82	73.16	61.45	96.94	152.59	115.25	107.42	61.21	
G44	54.8	46.82	67.07	56.07	86.56	133.76	101.8	95.01	54.8	
G45	49.37	43.19	61.36	51.02	78.11	118.18	90.33	84.29	49.37	
G46	45.21	39.98	56.68	46.44	70.89	105.06	80.14	75.94	45.21	
G47	41.86	37.33	52.53	42.9	64.85	93.83	71.83	68.86	41.86	
G48	39.08	35.02	48.66	40.07	59.42	84.15	65.18	62.72	39.08	
G49	36.81	32.94	45.55	37.43	54.7	76.41	58.85	57.34	36.81	
G50	34.55	31.39	43.09	35.4	50.88	69.43	53.66	52.86	34.55	
G51	32.85	29.97	40.54	33.27	47.39	63.67	48.52	48.8	32.85	
G52	31.2	28.65	38.42	31.62	44.84	58.48	44.41	45.83	31.2	
G53	29.88	27.23	36.44	30.11	42.29	53.8	40.73	42.85	29.88	
G54	28.84	25.86	34.55	28.74	40.12	49.04	37.8	40.54	28.84	
G55	27.7	24.78	32.94	27.28	38.14	45.92	35.35	38.37	27.7	
G56	26.62	23.46	31.53	26.05	36.29	42.9	33.18	36.67	26.62	
G57	25.49	22.51	30.02	24.78	34.97	40.64	31.24	35.26	25.49	
G58	24.45	21.47	28.55	23.74	33.37	38.42	29.59	33.65	24.45	
G59	23.5	20.77	27.19	22.61	31.81	36.53	27.99	32.19	23.5	
G60	22.23	19.68	26.1	21.71	30.49	34.78	26.76	30.91	22.23	
G61	21.33	18.88	24.87	20.58	29.12	33.46	25.3	29.45	21.33	
G62	20.34	18.03	23.98	19.68	27.75	31.72	24.21	28.27	20.34	
G63	19.54	17.23	22.89	18.74	26.38	30.21	22.94	27.0	19.54	
G64	18.55	16.24	21.85	17.93	25.2	28.74	21.8	25.86	18.55	
G65	17.98	15.57	20.91	16.94	24.21	27.56	20.67	24.78	17.98	
G66	17.04	14.73	20.01	16.19	23.03	26.1	19.63	23.69	17.04	
G67	16.28	14.02	19.02	15.43	22.18	25.06	18.74	22.7	16.28	
G68	15.53	13.26	18.27	14.68	21.05	23.88	17.89	21.57	15.53	
G69	14.82	12.79	17.42	13.88	20.15	22.8	16.94	20.67	14.82	
G70	14.11	11.94	16.52	13.26	19.21	21.66	16.14	19.82	14.11	
G71	13.59	11.19	15.48	12.6	18.5	20.67	15.39	18.88	13.59	
G72	12.79	10.48	14.68	11.66	17.51	19.78	14.58	18.22	12.79	
G73	12.04	9.82	13.92	10.95	16.8	18.88	13.78	17.27	12.04	

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G Range: 0 - 90 Deg
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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: 2025/5/8 17:17:46

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