

Report No.:

Test Time: 2025/8/1 11:52:51

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-EB-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

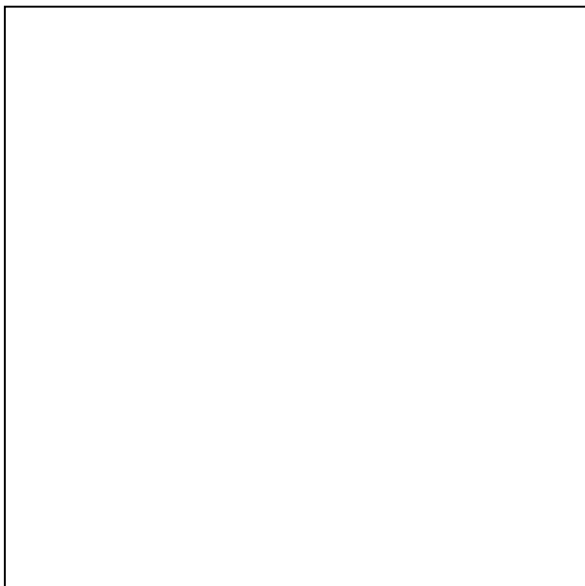
Voltage(V): 219.90 V
Current(A): 0.3410 A
Power(W): 72.46 W
Power Factor: 0.9650
Lamp Luminous Flux: 4747.89

Photometric Results

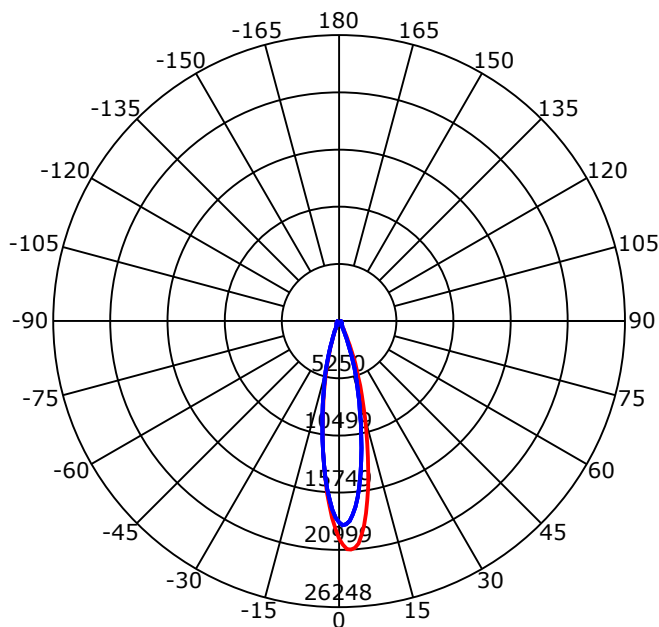
CIE Class: Direct
Luminaire Luminous Flux: 4747.886 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.53 lm/W
Beam Angle(50%) C0-180,C90-270: 22.1,21.6
Field Angle(10%) C0-180,C90-270: 43.7,43.0
S/MH C0-180,C90-270: 0.425,0.353

Max. Intensity: 20998.80 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 19956.22 cd
Effective Luminous Flux: 3384.03 lm
ERP(ϕ use)(120deg): 4484.52 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.1 deg,21.6 deg

C0-180 — C90-270 —

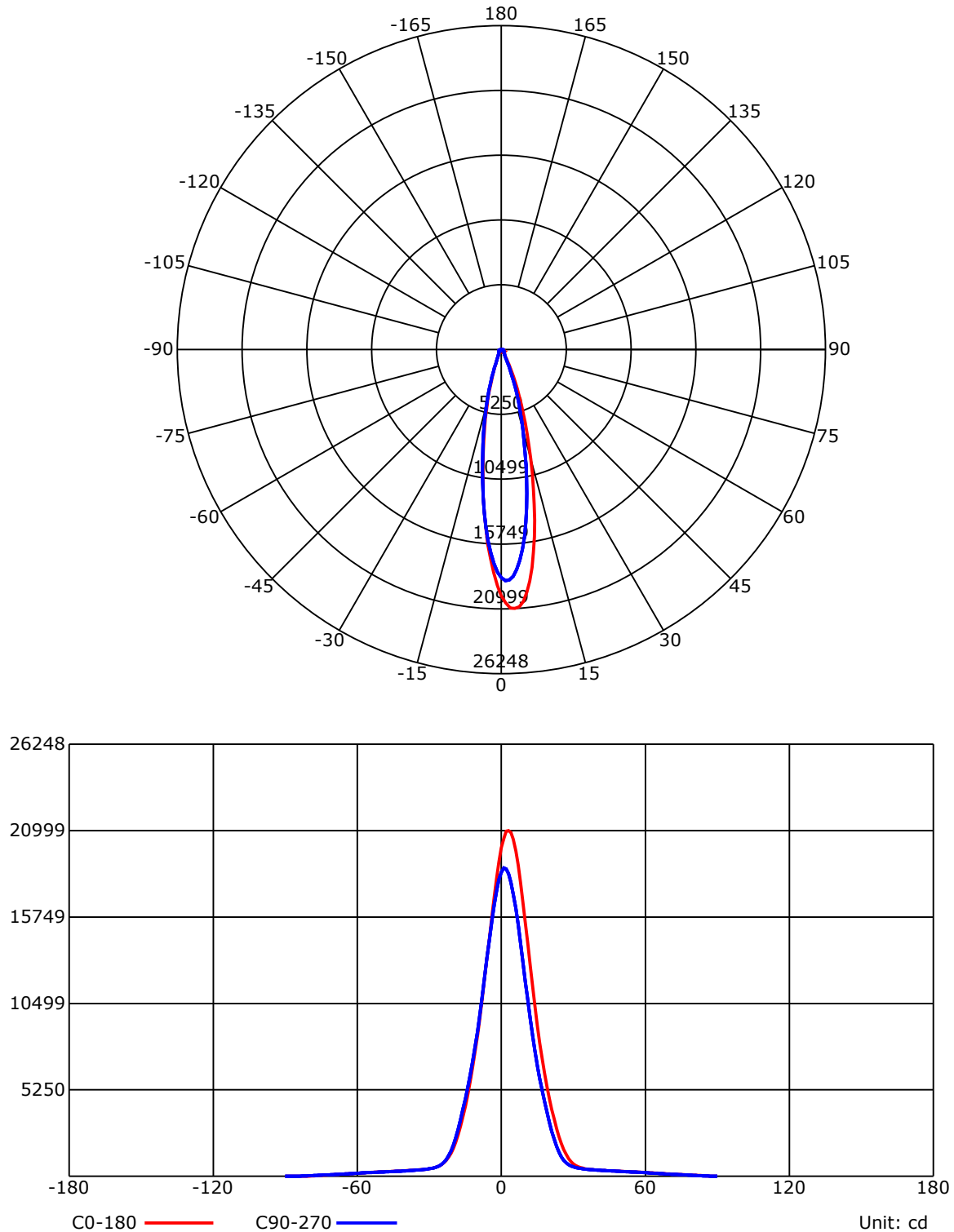
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:52:51

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 11:52:51

Luminous Intensity Distribution Curve



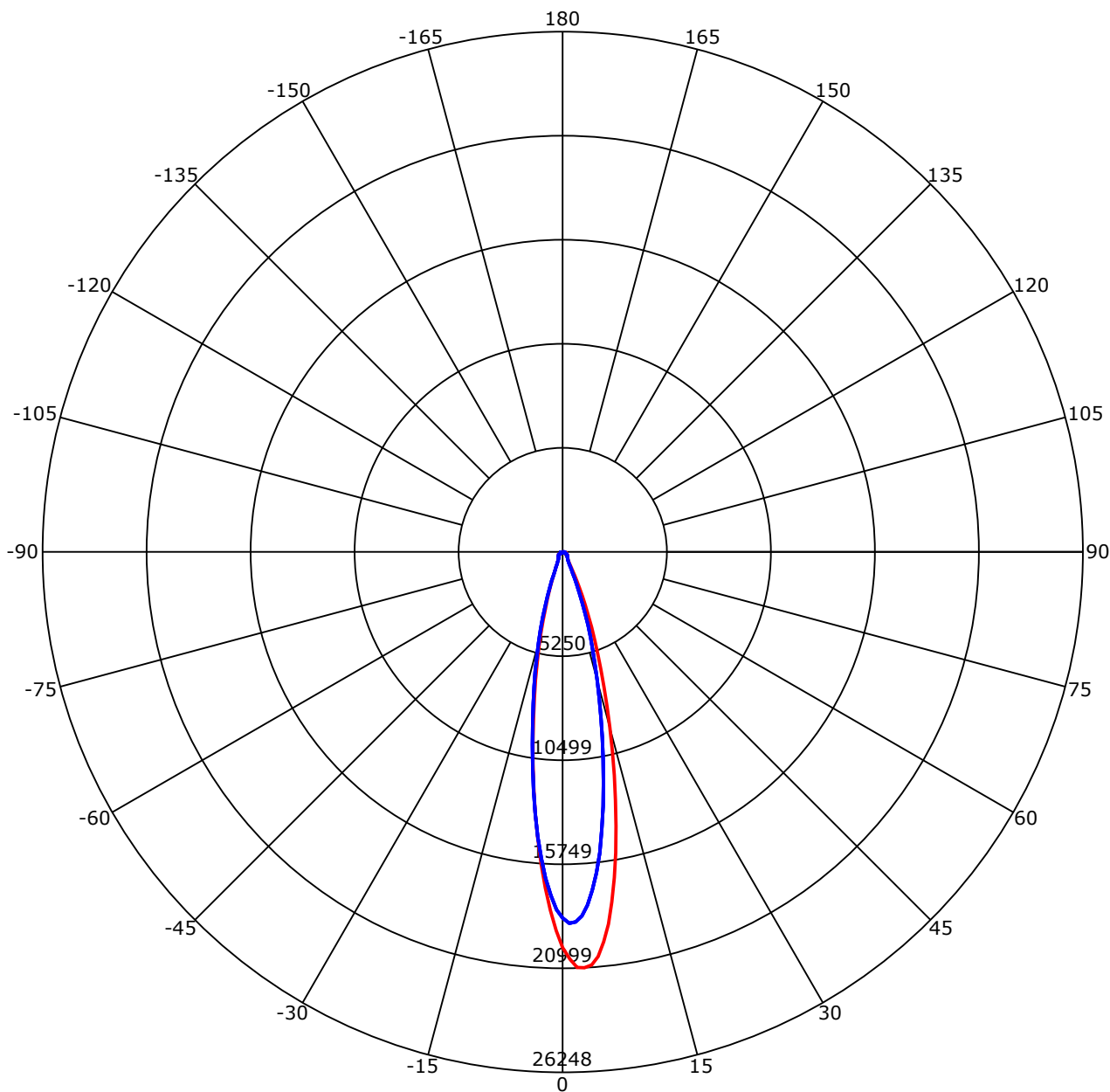
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:52:51

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 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 11:52:51

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

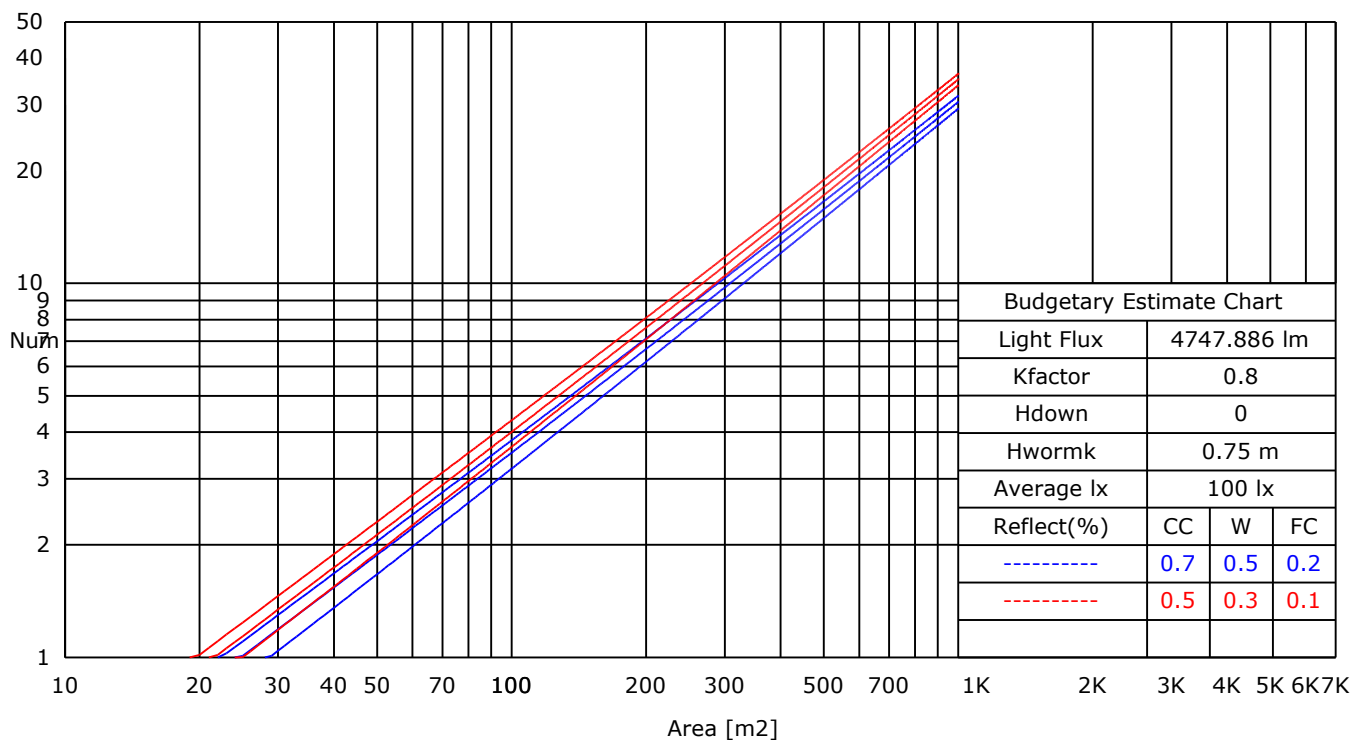
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UTILIZATION FACTORS TABLE

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	0.88	0.85	0.82	0.88	0.84	0.81	0.85	0.81	0.77	0.82	0.77	0.74	0.77	0.72	0.68	0.63
2	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.78	0.76	0.74	0.78	0.75	0.72	0.77	0.73	0.69	0.74	0.70	0.66	0.71	0.66	0.62	0.57
4	0.75	0.72	0.71	0.75	0.72	0.69	0.74	0.69	0.66	0.72	0.67	0.63	0.69	0.64	0.59	0.55
5	0.72	0.70	0.68	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.64	0.61	0.67	0.61	0.57	0.53
6	0.69	0.67	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.67	0.62	0.59	0.65	0.59	0.55	0.52
7	0.67	0.65	0.64	0.67	0.64	0.63	0.66	0.62	0.60	0.65	0.60	0.57	0.63	0.58	0.54	0.50
8	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.61	0.58	0.63	0.59	0.55	0.61	0.56	0.52	0.49
9	0.64	0.62	0.61	0.64	0.61	0.60	0.63	0.59	0.57	0.61	0.57	0.54	0.60	0.55	0.51	0.48
10	0.62	0.61	0.60	0.62	0.60	0.59	0.61	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.50	0.47

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



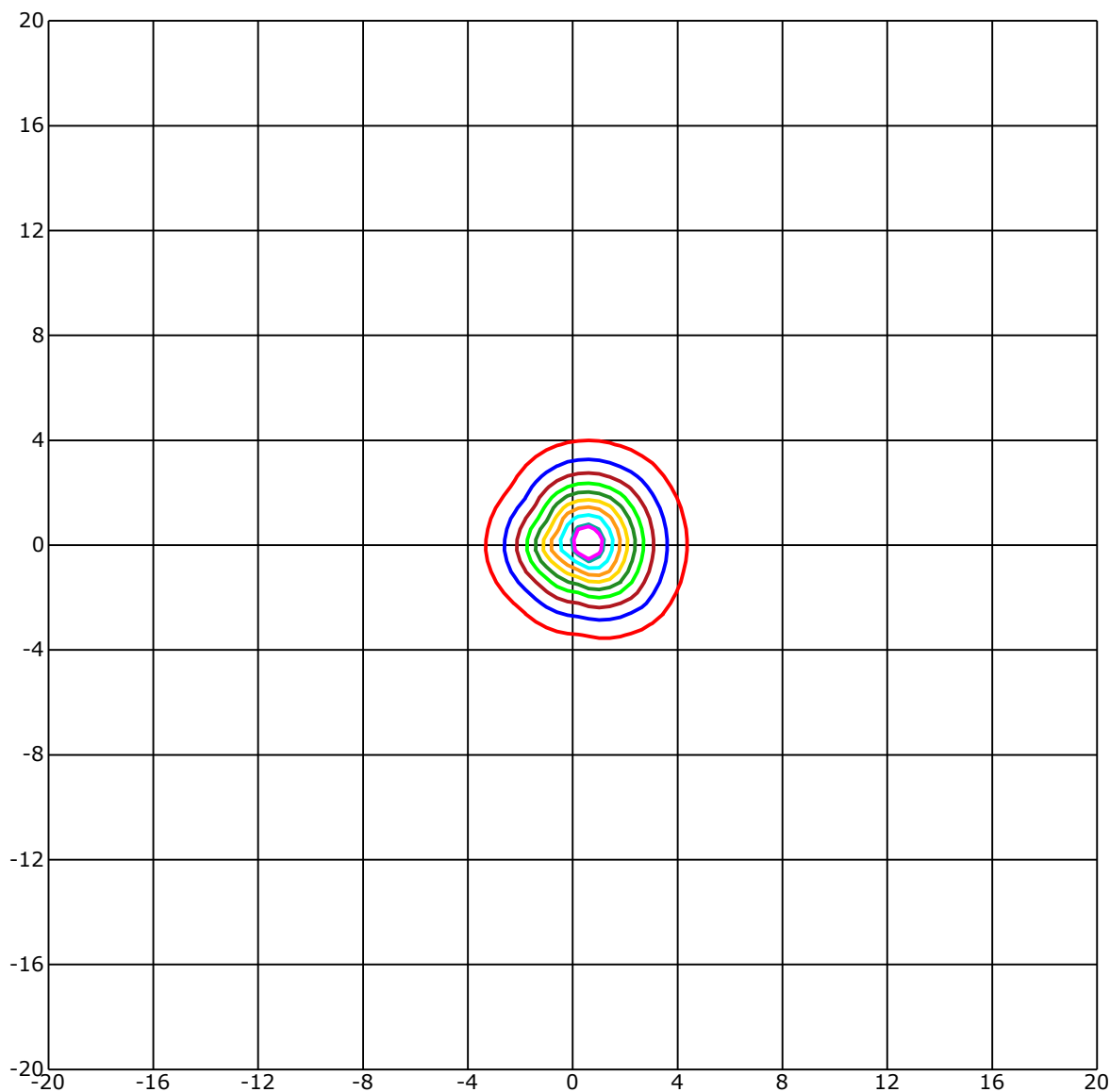
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:52:51

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: 2025/8/1 11:52:51

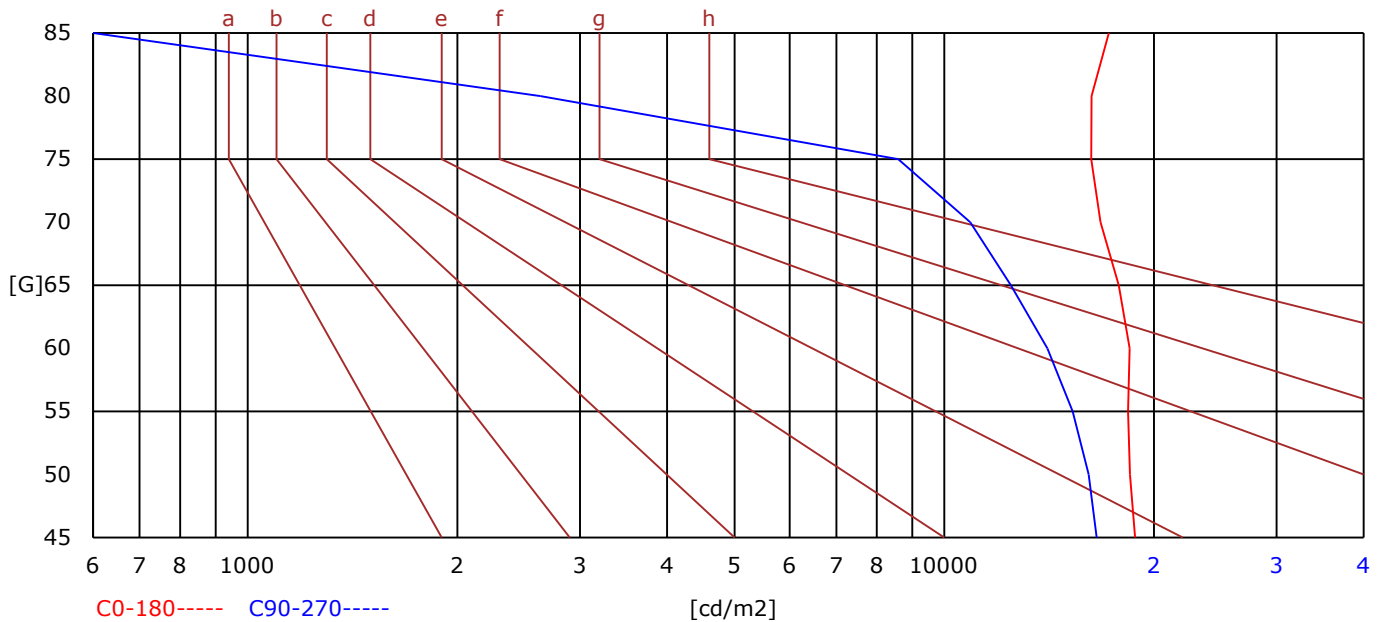
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18784	18482	18364	18448	17797	16767	16253	16265	17234
C90	16541	16119	15282	14058	12462	10897	8589	2632	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



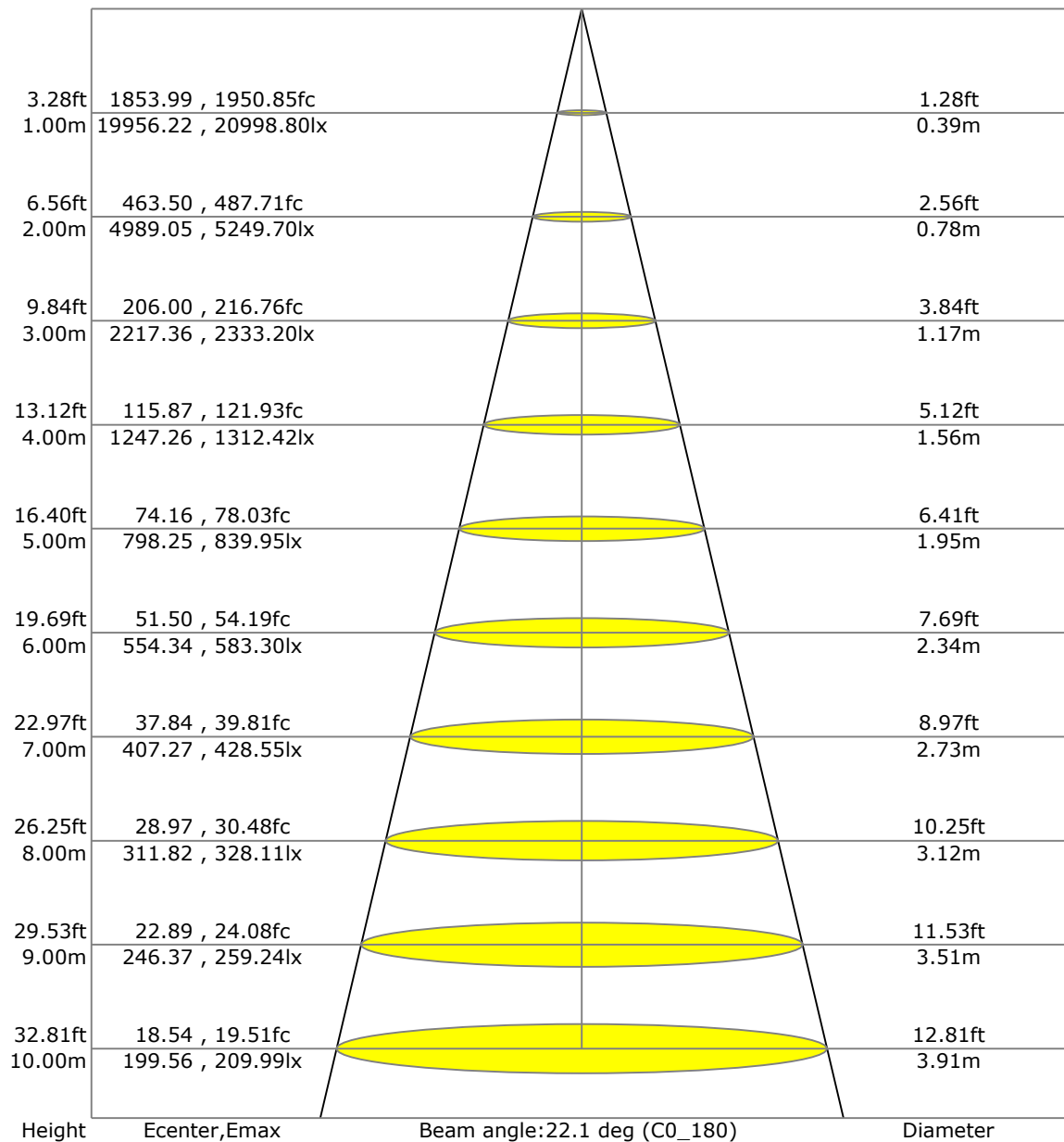
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 11:52:51

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 11:52:51

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

UGR(Unified Glare Rating) TABLE

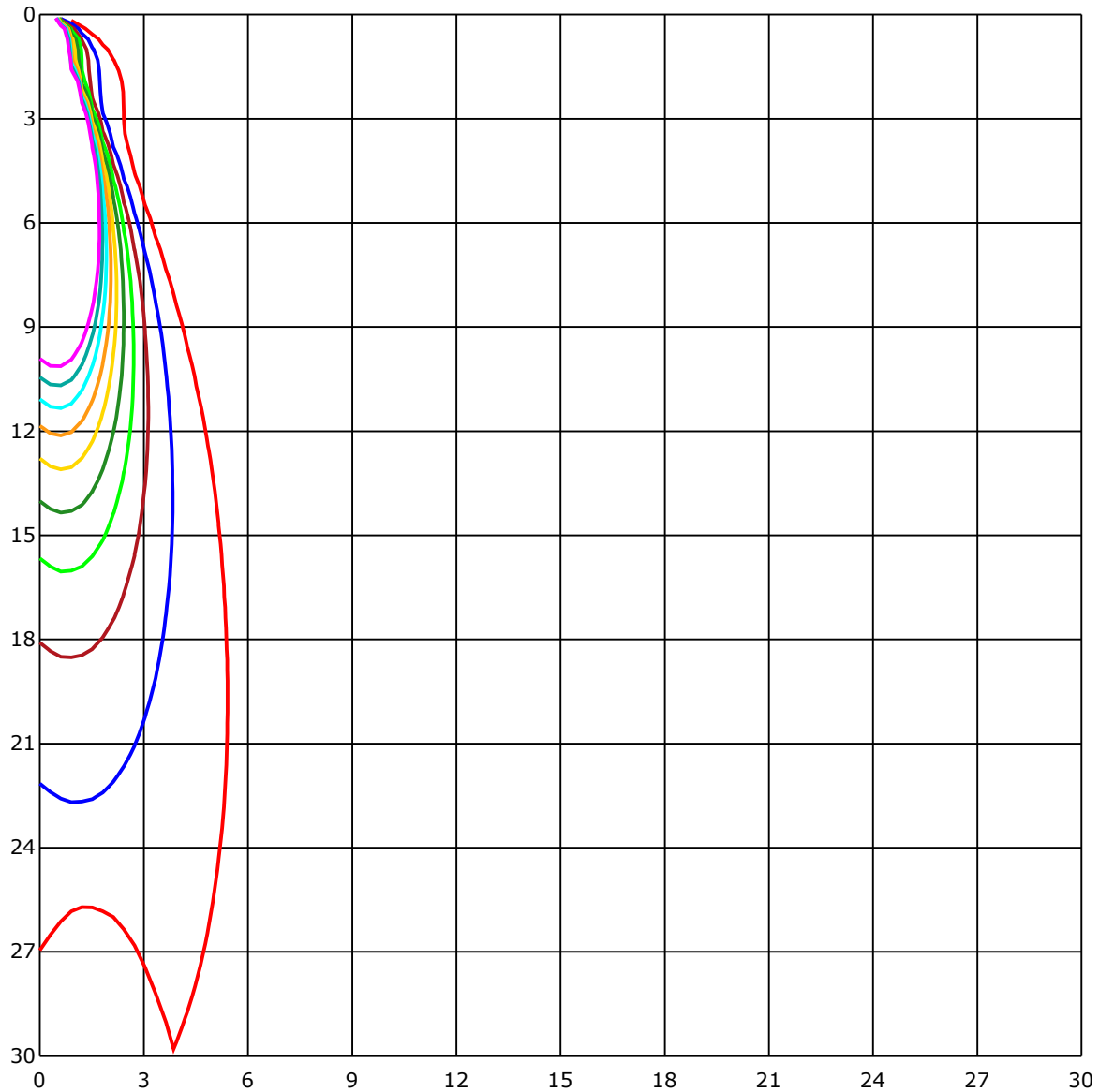
RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H 2H		10.39	10.45	10.59	10.64	10.88	10.34	10.40	10.54	10.59	10.83
3H		10.56	10.62	10.76	10.82	11.06	10.52	10.59	10.73	10.78	11.03
4H		10.58	10.65	10.79	10.84	11.09	10.55	10.62	10.76	10.81	11.06
6H		10.57	10.64	10.79	10.84	11.09	10.54	10.61	10.76	10.81	11.06
8H		10.56	10.63	10.78	10.83	11.09	10.53	10.60	10.75	10.81	11.06
12H		10.55	10.62	10.78	10.83	11.08	10.52	10.59	10.75	10.80	11.05
4H 2H		12.69	12.76	12.90	12.95	13.20	12.48	12.55	12.69	12.75	13.00
3H		13.05	13.11	13.27	13.32	13.58	12.86	12.93	13.08	13.13	13.39
4H		13.13	13.20	13.37	13.41	13.67	12.96	13.03	13.19	13.24	13.50
6H		13.16	13.23	13.40	13.45	13.71	12.99	13.06	13.23	13.28	13.55
8H		13.16	13.22	13.40	13.45	13.72	12.99	13.06	13.24	13.28	13.55
12H		13.15	13.21	13.40	13.44	13.71	12.98	13.04	13.23	13.28	13.55
8H 4H		13.27	13.34	13.49	13.55	13.80	12.97	13.04	13.19	13.24	13.50
6H		14.07	14.13	14.32	14.37	14.64	13.79	13.85	14.05	14.09	14.37
8H		14.09	14.15	14.36	14.40	14.68	13.82	13.88	14.09	14.13	14.41
12H		14.09	14.15	14.37	14.41	14.69	13.83	13.89	14.10	14.14	14.43
12H 4H		14.11	14.17	14.36	14.40	14.67	13.78	13.84	14.03	14.07	14.34
6H		14.27	14.32	14.53	14.57	14.85	13.94	14.00	14.20	14.25	14.52

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

203.322	101.661
182.99	81.329
162.658	60.997
142.326	40.664
121.993	20.332

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	19956.22	18527.19	18465.22	18835.38	19956.22	18527.19	18465.22	18835.38	19956.22	
G1	20530.41	19267.62	18724.43	18017.89	19099.26	17640.13	18039.36	19407.18	20530.41	
G2	20964.01	19680.02	18673.26	17092.69	18077.88	16631.76	17325.51	19739.11	20964.01	
G3	20998.8	19857.15	18382.72	15952.98	16955.34	15506.68	16478.89	19802.87	20998.8	
G4	20881.65	19749.68	17852.94	14787.68	15766.41	14300.8	15494.22	19633.2	20881.65	
G5	20477.65	19456.36	17133.37	13596.86	14481.9	13097.28	14404.16	19178.41	20477.65	
G6	19768.0	18901.04	16275.99	12347.51	13243.78	11836.37	13254.4	18549.14	19768.0	
G7	18904.39	18157.97	15290.66	11117.51	11997.26	10666.97	12083.07	17737.26	18904.39	
G8	17823.39	17222.05	14150.86	9964.07	10769.34	9545.67	10920.8	16764.1	17823.39	
G9	16637.85	16192.03	12994.39	8850.5	9593.19	8490.58	9818.18	15661.82	16637.85	
G10	15409.5	15021.31	11824.66	7838.23	8519.42	7494.44	8765.6	14531.45	15409.5	
G11	14089.83	13825.48	10674.05	6890.04	7518.14	6604.07	7802.21	13311.32	14089.83	
G12	12799.42	12570.09	9574.46	6038.99	6597.23	5781.48	6946.96	12100.25	12799.42	
G13	11560.17	11372.42	8550.66	5266.89	5744.05	5023.07	6146.78	10932.78	11560.17	
G14	10338.58	10212.65	7608.57	4546.19	4965.96	4317.9	5410.42	9857.73	10338.58	
G15	9166.44	9093.57	6731.69	3885.67	4253.95	3681.59	4724.22	8811.24	9166.44	
G16	8111.59	8077.23	5934.02	3302.13	3610.42	3088.19	4059.74	7853.19	8111.59	
G17	7116.82	7147.17	5201.15	2763.47	3031.74	2553.35	3425.13	6966.07	7116.82	
G18	6241.74	6287.48	4532.79	2279.61	2528.2	2087.8	2856.45	6153.67	6241.74	
G19	5448.08	5496.08	3905.31	1863.62	2091.06	1699.99	2354.75	5379.74	5448.08	
G20	4736.96	4770.95	3283.68	1511.91	1707.35	1385.09	1913.74	4668.81	4736.96	
G21	4073.33	4101.46	2741.62	1223.44	1398.92	1133.91	1540.6	3996.3	4073.33	
G22	3463.07	3483.04	2243.46	1002.56	1152.41	935.16	1238.87	3385.25	3463.07	
G23	2898.65	2913.56	1819.3	832.84	958.71	790.45	1007.8	2823.98	2898.65	
G24	2406.81	2404.3	1461.88	710.6	809.71	683.22	838.41	2341.58	2406.81	
G25	1986.19	1965.8	1186.15	625.36	701.02	608.98	717.2	1920.4	1986.19	
G26	1622.63	1586.05	972.07	563.39	621.77	552.58	628.9	1573.4	1622.63	
G27	1314.95	1278.61	818.44	516.0	563.15	513.31	564.52	1289.94	1314.95	
G28	1074.58	1039.84	706.07	486.32	517.61	483.49	519.87	1066.41	1074.58	
G29	887.82	862.76	627.39	456.39	486.6	456.49	486.84	894.76	887.82	
G30	750.34	730.28	572.78	437.37	459.13	434.78	456.87	767.52	750.34	
G31	652.5	635.13	532.95	420.52	439.69	419.2	435.77	669.87	652.5	
G32	579.53	569.29	502.32	406.03	422.84	406.03	419.44	600.91	579.53	
G33	528.42	523.46	478.06	393.91	407.92	394.14	404.95	547.48	528.42	
G34	488.68	489.24	453.99	383.1	396.88	380.17	389.52	509.21	488.68	
G35	456.39	460.55	437.23	372.62	384.61	369.83	379.09	479.19	456.39	
G36	434.45	439.21	421.47	364.45	375.59	359.03	366.2	452.48	434.45	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 11:52:51

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 11:52:51

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	417.27	422.46	408.77	355.39	365.92	352.09	356.76	432.28	417.27	
G38	401.08	407.21	396.64	348.22	357.19	341.71	346.57	417.08	401.08	
G39	387.39	393.95	387.01	338.64	348.83	334.25	338.31	401.69	387.39	
G40	377.67	381.4	374.41	331.32	342.6	327.36	329.34	390.32	377.67	
G41	365.82	371.25	366.53	324.57	332.79	319.81	321.84	377.67	365.82	
G42	358.27	361.48	356.34	316.31	326.41	311.69	313.15	368.94	358.27	
G43	348.03	352.47	349.02	308.76	318.34	304.23	306.59	358.08	348.03	
G44	340.86	344.82	338.35	301.73	311.31	296.63	299.28	348.83	340.86	
G45	333.97	334.72	332.6	294.74	303.57	291.44	292.01	339.96	333.97	
G46	326.46	327.22	323.25	288.7	297.34	283.84	284.64	333.92	326.46	
G47	318.91	320.28	316.12	281.67	289.27	276.62	278.6	324.38	318.91	
G48	315.32	313.01	308.81	274.73	283.18	269.82	271.43	317.4	315.32	
G49	304.84	305.46	302.2	267.23	275.35	262.27	265.81	311.03	304.84	
G50	298.61	299.37	293.19	261.09	270.25	254.91	258.17	303.19	298.61	
G51	291.96	294.04	286.77	252.31	260.76	249.95	251.7	296.4	291.96	
G52	286.2	286.01	279.97	245.71	254.2	242.73	245.14	290.07	286.2	
G53	279.03	279.45	274.45	239.01	247.17	235.37	238.34	282.05	279.03	
G54	272.61	273.08	265.34	232.49	240.0	227.35	231.69	275.72	272.61	
G55	265.48	265.44	258.64	220.88	230.13	218.66	225.74	269.4	265.48	
G56	260.01	258.78	251.7	211.44	220.27	209.08	218.52	261.9	260.01	
G57	252.31	251.94	245.61	205.12	211.3	200.96	211.16	255.29	252.31	
G58	246.51	245.94	238.67	195.16	202.24	190.77	202.9	249.48	246.51	
G59	237.97	238.82	230.56	185.44	193.88	181.57	192.47	240.7	237.97	
G60	232.07	232.44	220.46	177.13	184.4	173.68	182.94	233.62	232.07	
G61	222.39	225.32	211.44	166.37	174.86	164.06	173.68	225.88	222.39	
G62	215.45	216.3	202.43	157.35	165.57	155.66	165.43	218.76	215.45	
G63	207.34	207.48	192.04	148.58	156.93	148.43	157.4	208.94	207.34	
G64	198.46	198.13	181.71	141.26	148.81	140.32	148.67	199.88	198.46	
G65	188.65	189.54	173.78	132.72	140.74	132.25	140.88	191.19	188.65	
G66	178.88	178.88	163.73	124.79	133.9	124.46	133.43	182.37	178.88	
G67	169.67	170.0	155.8	116.53	124.36	117.33	126.06	172.22	169.67	
G68	162.97	161.79	147.68	109.02	116.39	109.4	118.32	163.87	162.97	
G69	152.12	152.49	138.85	101.8	107.61	102.32	110.44	155.56	152.12	
G70	144.85	144.52	130.55	93.92	100.44	94.49	103.36	147.54	144.85	
G71	135.83	136.49	122.66	86.7	90.85	88.54	97.6	138.71	135.83	
G72	127.62	128.05	115.07	79.39	84.72	81.56	89.39	131.3	127.62	
G73	122.29	120.82	109.12	72.45	73.49	73.91	83.68	123.33	122.29	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 11:52:51

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 11:52:51

G Range: 0 - 90 Deg
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