

Report No.:

Test Time: 2025/5/13 10:05:37

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095H135-24°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

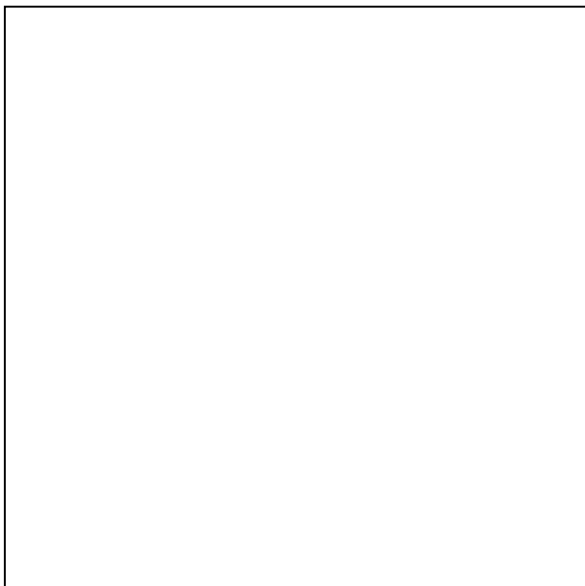
Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.63 W
Power Factor: 0.9730
Lamp Luminous Flux: 3548.60

Photometric Results

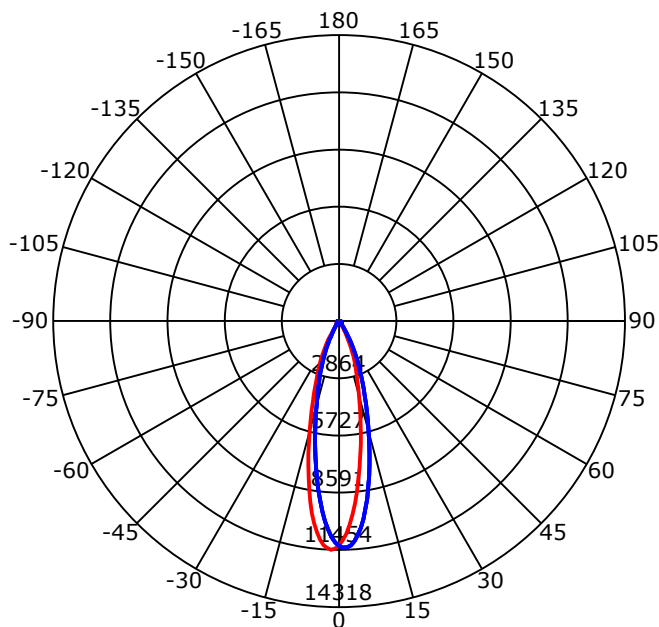
CIE Class: Direct
Luminaire Luminous Flux: 3548.599 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.55 lm/W
Beam Angle(50%) C0-180,C90-270: 25.9,27.3
Field Angle(10%) C0-180,C90-270: 55.2,56.0
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 11454.03 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11223.99 cd
Effective Luminous Flux: 2925.57 lm
ERP(ϕ use)(120deg): 3445.37 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.9 deg,27.3 deg

C0-180 — C90-270 —

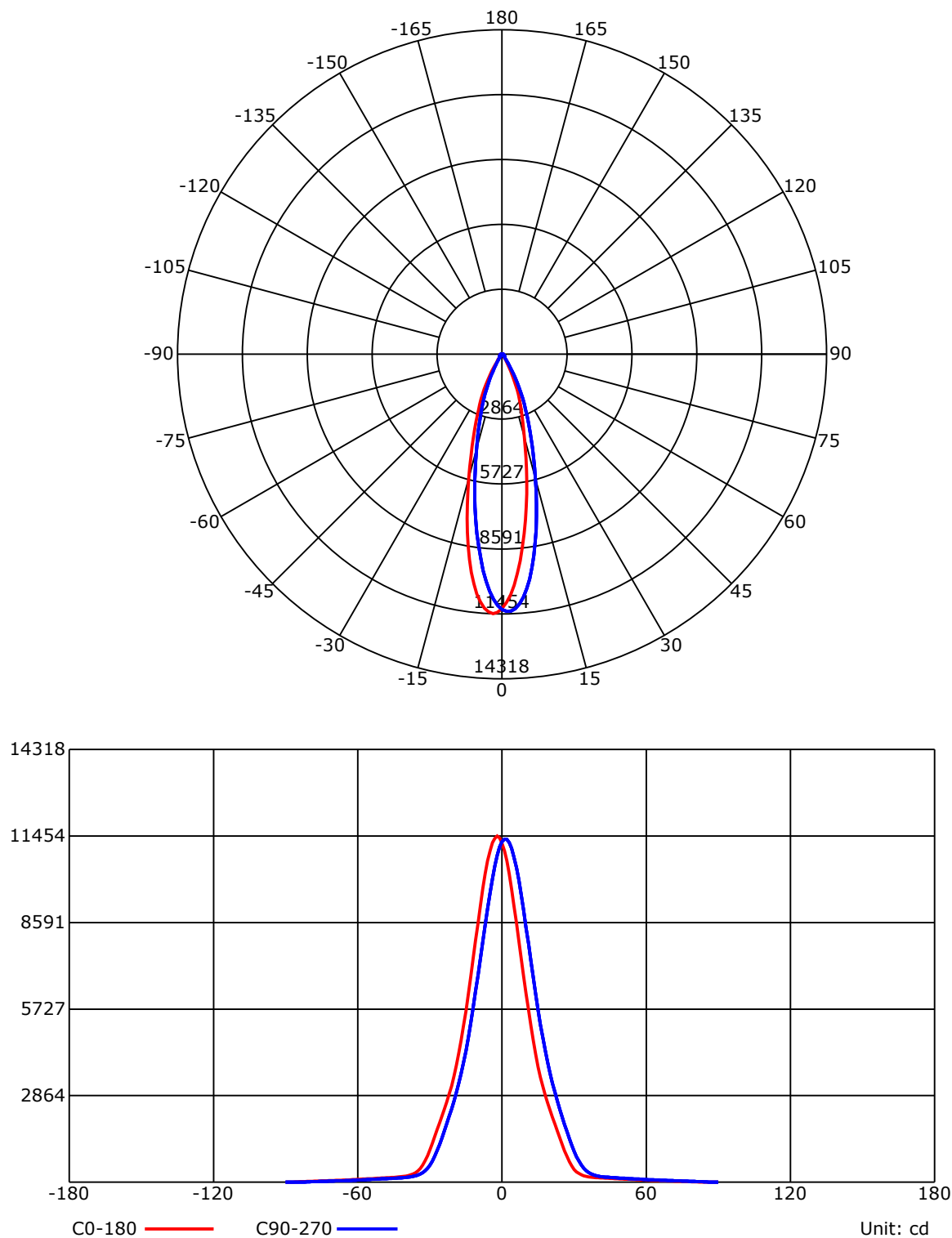
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:05:37

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: 2025/5/13 10:05:37

Luminous Intensity Distribution Curve



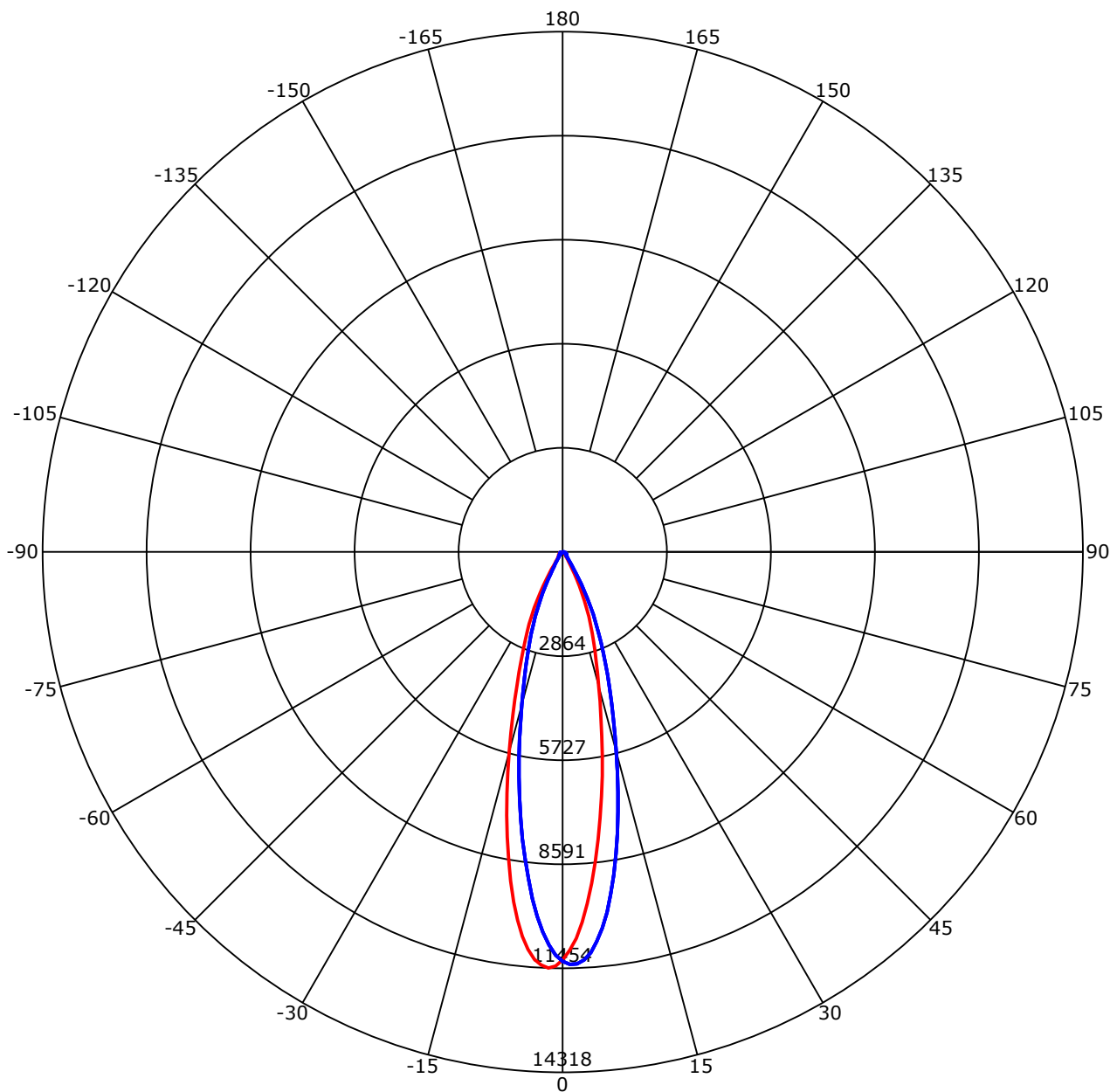
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:05:37

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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: 2025/5/13 10:05:37

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

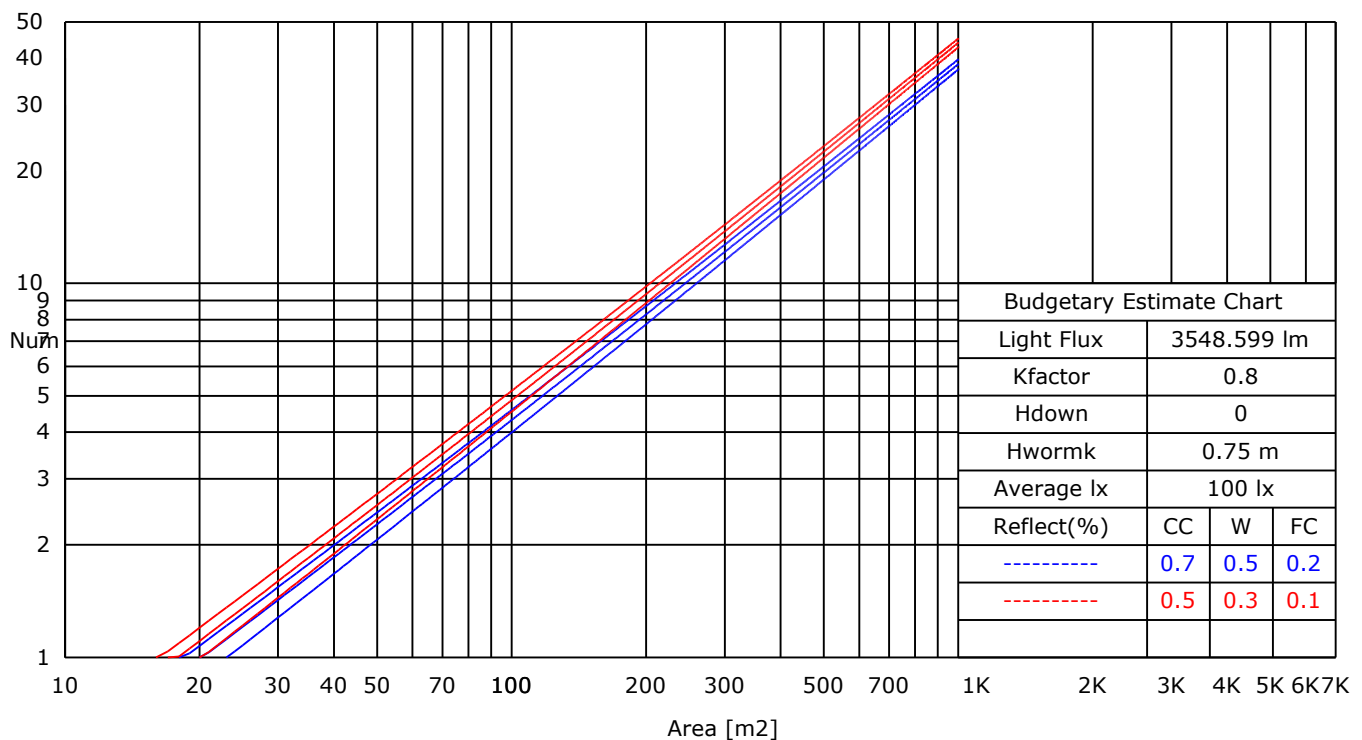
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UTILIZATION FACTORS TABLE

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	0.93	0.90	0.88	0.92	0.89	0.87	0.90	0.86	0.83	0.86	0.82	0.79	0.80	0.77	0.73	0.68
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.64
4	0.82	0.80	0.79	0.82	0.79	0.77	0.80	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
5	0.80	0.78	0.76	0.79	0.77	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.77	0.76	0.75	0.77	0.74	0.73	0.75	0.72	0.69	0.73	0.69	0.66	0.70	0.66	0.62	0.58
7	0.75	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
8	0.74	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.71	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.71	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.64	0.67	0.63	0.60	0.64	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



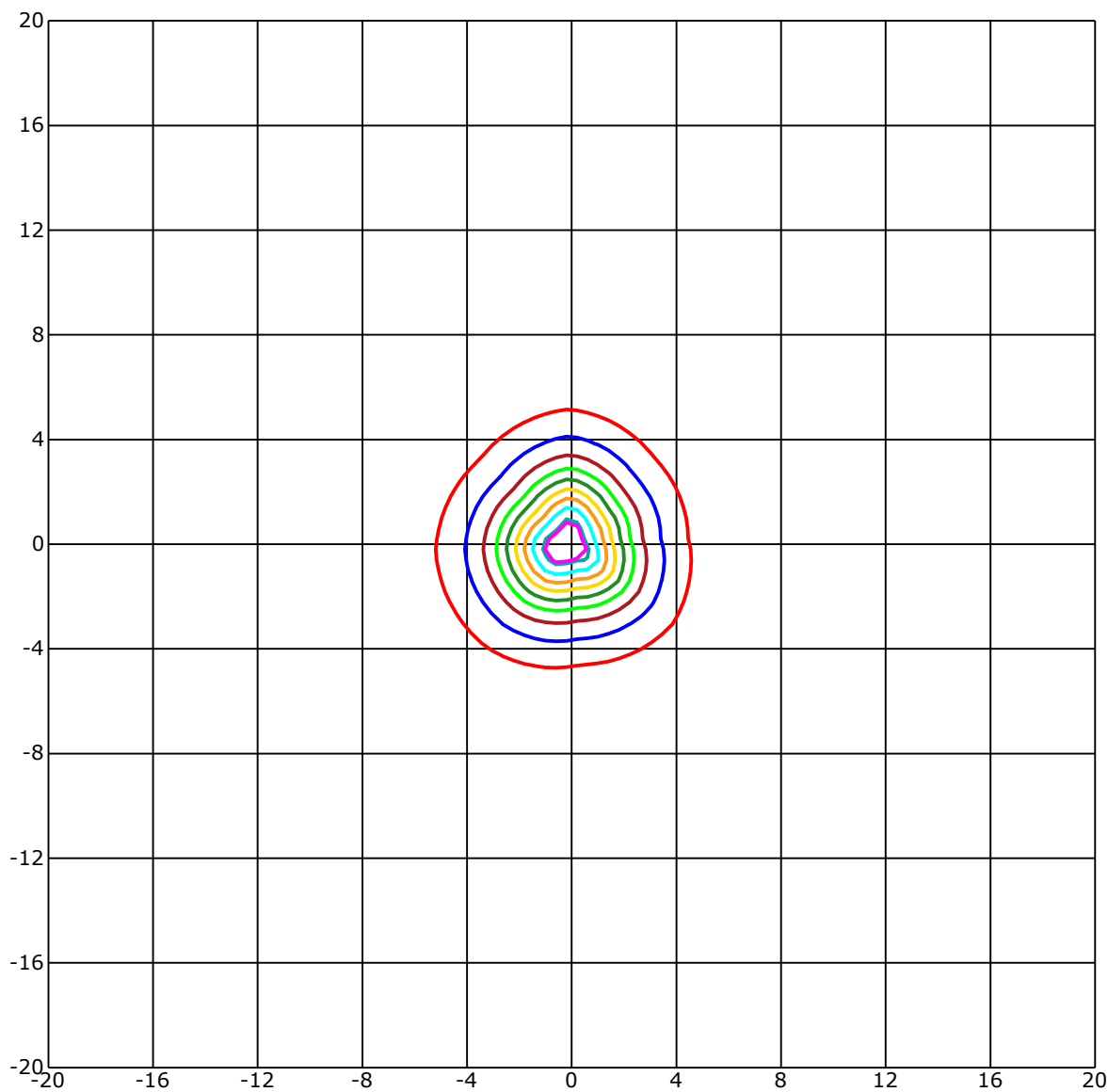
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:05:37

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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ISOLX DIAGRAM



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

105.185(92%Emax)	57.166(50%Emax)
102.898(90%Emax)	45.732(40%Emax)
91.465(80%Emax)	34.299(30%Emax)
80.032(70%Emax)	22.866(20%Emax)
68.599(60%Emax)	11.433(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:05:37

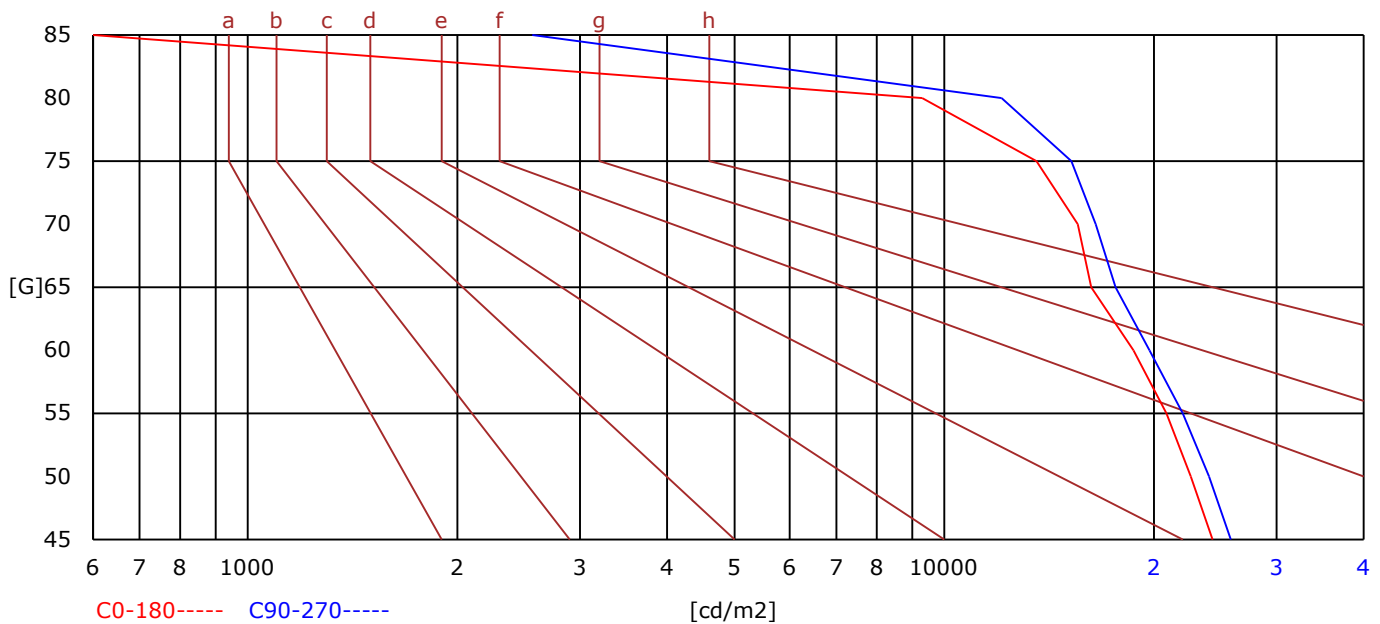
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	24267	22595	20849	18698	16247	15542	13561	9298	0
C90	25774	23995	22007	19706	17606	16494	15213	12090	2563
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



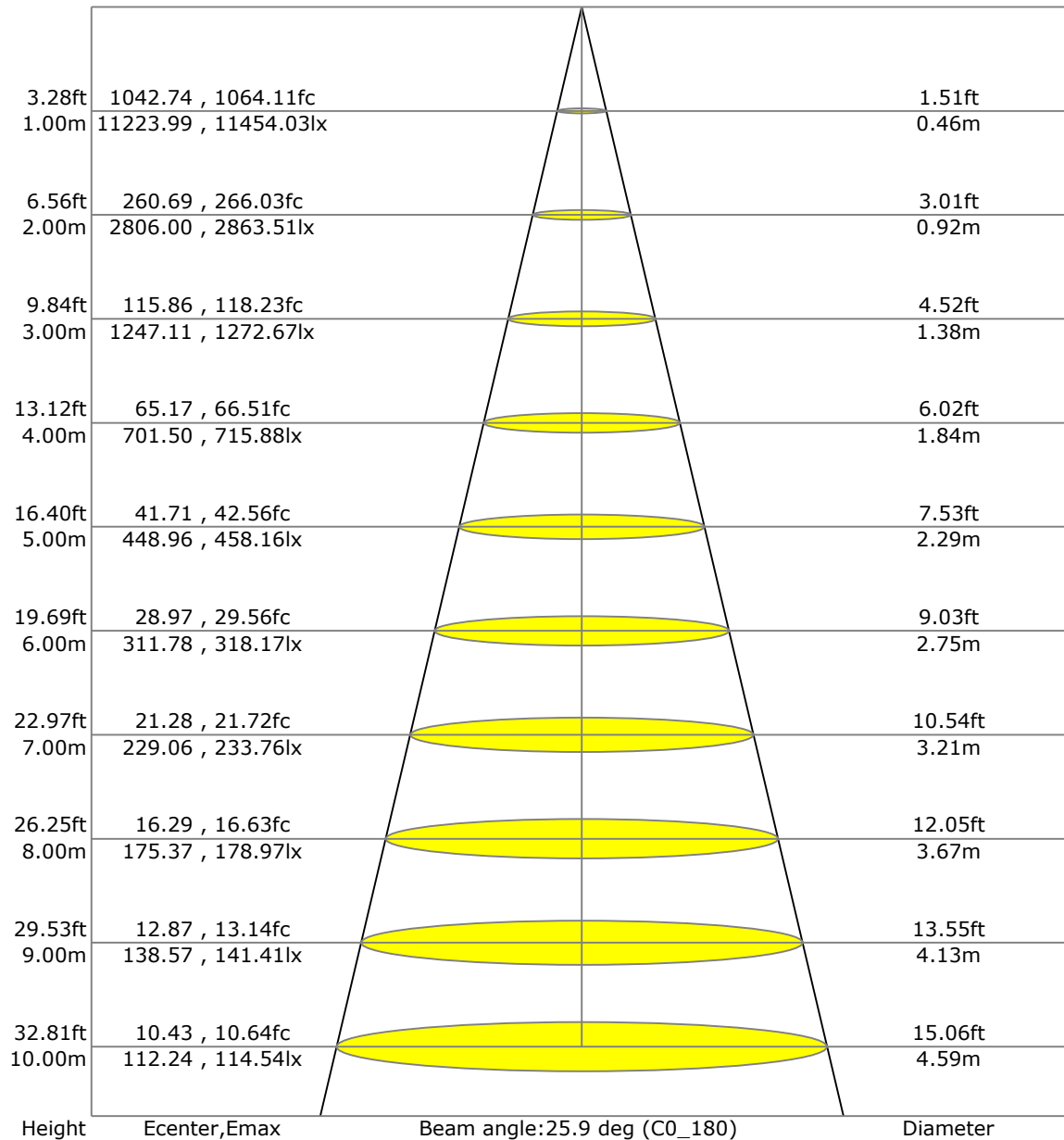
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:05:37

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.:

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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 10:05:37

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.:

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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	8.97	9.03	9.17	9.22	9.46	9.41	9.47	9.61	9.66	9.90
3H	9.12	9.18	9.32	9.37	9.61	9.51	9.57	9.71	9.76	10.00
4H	9.14	9.20	9.35	9.40	9.64	9.51	9.57	9.72	9.77	10.02
6H	9.14	9.19	9.35	9.40	9.65	9.50	9.56	9.72	9.76	10.01
8H	9.13	9.19	9.35	9.39	9.64	9.49	9.55	9.71	9.76	10.01
12H	9.12	9.18	9.34	9.38	9.64	9.48	9.54	9.71	9.75	10.00
4H 2H	10.54	10.60	10.75	10.80	11.04	11.39	11.45	11.60	11.64	11.89
3H	10.82	10.88	11.04	11.09	11.34	11.61	11.67	11.83	11.87	12.13
4H	10.88	10.94	11.11	11.16	11.42	11.64	11.70	11.87	11.92	12.18
6H	10.90	10.96	11.14	11.18	11.44	11.64	11.70	11.88	11.92	12.18
8H	10.89	10.95	11.14	11.18	11.44	11.63	11.69	11.87	11.91	12.18
12H	10.88	10.94	11.13	11.17	11.44	11.61	11.67	11.86	11.90	12.17
8H 4H	10.77	10.83	10.99	11.03	11.29	11.94	11.99	12.15	12.20	12.45
6H	11.21	11.26	11.46	11.50	11.78	12.33	12.38	12.58	12.62	12.89
8H	11.20	11.26	11.47	11.50	11.78	12.31	12.36	12.58	12.61	12.89
12H	11.19	11.24	11.46	11.50	11.78	12.30	12.35	12.57	12.60	12.88
12H 4H	11.17	11.23	11.42	11.46	11.73	12.44	12.50	12.69	12.73	13.00
6H	11.20	11.25	11.46	11.50	11.77	12.46	12.51	12.72	12.76	13.03

C Range: 0 - 360 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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ZONAL LUMINOUS FLUX TABLE

[illegible]

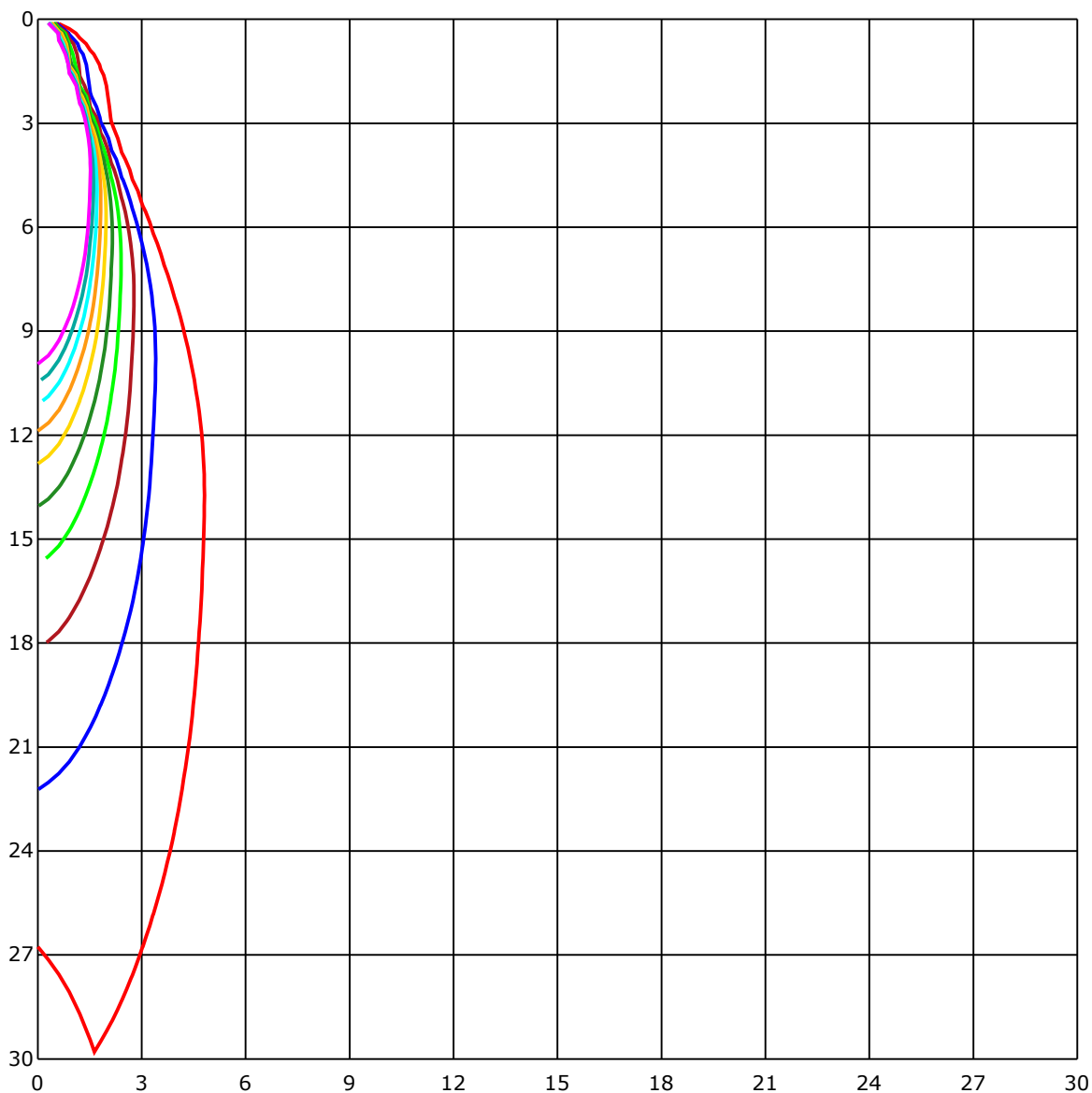
C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

113.543

102.189

90.834

79.48

68.126

56.772

45.417

34.063

22.709

11.354

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:05:37

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11223.99	11279.68	11260.47	11380.4	11223.99	11279.68	11260.47	11380.4	11223.99	
G1	10960.06	11065.69	11348.59	11312.48	11390.92	11375.73	11091.46	11372.09	10960.06	
G2	10635.92	10780.48	11340.09	11112.7	11454.03	11354.3	10813.66	11248.11	10635.92	
G3	10201.09	10422.77	11239.94	10857.55	11375.63	11255.89	10464.54	11040.96	10201.09	
G4	9696.7	9986.06	11048.75	10488.66	11236.5	11049.55	10045.86	10726.82	9696.7	
G5	9146.19	9479.4	10757.54	10073.71	10972.15	10742.72	9580.97	10352.26	9146.19	
G6	8559.82	8929.13	10399.74	9581.06	10634.12	10408.76	9042.36	9881.43	8559.82	
G7	7968.58	8358.19	9992.29	9048.07	10206.0	9925.51	8510.45	9384.87	7968.58	
G8	7386.55	7782.91	9498.09	8473.78	9722.51	9429.85	7968.49	8831.39	7386.55	
G9	6809.95	7196.54	8993.42	7908.41	9164.22	8874.72	7413.83	8279.09	6809.95	
G10	6251.7	6627.58	8425.5	7332.04	8583.04	8314.06	6855.44	7706.88	6251.7	
G11	5689.63	6079.06	7891.94	6769.88	7994.35	7727.22	6308.53	7125.84	5689.63	
G12	5173.02	5558.57	7309.76	6206.2	7404.58	7149.34	5774.59	6552.96	5173.02	
G13	4683.73	5053.66	6768.22	5691.8	6809.57	6579.91	5275.72	6014.35	4683.73	
G14	4233.14	4592.16	6229.71	5164.9	6243.35	6050.17	4799.12	5489.09	4233.14	
G15	3822.81	4163.66	5706.44	4700.76	5680.62	5527.42	4357.03	5005.85	3822.81	
G16	3471.05	3791.99	5213.18	4274.29	5171.22	5031.0	3951.84	4551.76	3471.05	
G17	3151.29	3431.45	4763.21	3882.79	4691.8	4574.94	3595.37	4137.75	3151.29	
G18	2869.48	3115.04	4348.2	3523.06	4270.42	4151.82	3271.6	3751.21	2869.48	
G19	2614.52	2826.81	3960.34	3195.66	3874.82	3763.48	2972.7	3409.98	2614.52	
G20	2381.23	2561.99	3600.94	2899.49	3514.28	3421.45	2689.04	3094.18	2381.23	
G21	2146.66	2311.52	3272.68	2646.24	3189.38	3112.16	2428.23	2821.9	2146.66	
G22	1915.91	2081.38	2967.93	2386.65	2911.44	2840.12	2171.91	2563.22	1915.91	
G23	1692.95	1851.91	2687.49	2151.71	2651.76	2572.89	1930.21	2314.25	1692.95	
G24	1473.44	1625.65	2420.68	1911.76	2417.43	2330.77	1697.34	2071.61	1473.44	
G25	1256.67	1399.91	2166.53	1677.99	2190.13	2088.75	1468.34	1837.56	1256.67	
G26	1044.0	1184.36	1915.77	1442.38	1964.48	1858.66	1248.17	1610.03	1044.0	
G27	849.21	989.06	1672.56	1223.77	1734.77	1618.9	1044.0	1381.03	849.21	
G28	679.73	814.0	1437.05	1021.91	1507.09	1396.75	856.95	1158.31	679.73	
G29	535.21	659.81	1219.47	837.04	1279.7	1175.58	696.86	958.52	535.21	
G30	420.48	529.22	1021.58	673.45	1072.74	972.78	564.0	778.37	420.48	
G31	341.19	421.23	845.53	542.86	876.97	792.29	458.38	630.36	341.19	
G32	285.35	344.54	692.8	434.64	705.97	643.25	377.91	511.43	285.35	
G33	243.39	287.95	562.78	357.89	564.71	525.02	316.17	419.34	243.39	
G34	213.8	247.03	457.9	297.39	450.64	427.08	267.98	347.23	213.8	
G35	192.99	216.68	381.54	254.58	371.25	356.67	232.21	296.44	192.99	
G36	179.16	193.84	323.53	222.49	313.91	302.58	207.38	258.5	179.16	

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	167.17	178.17	278.65	201.2	272.33	264.92	189.54	231.5	167.17	
G38	161.13	165.94	243.82	182.89	240.47	234.9	175.34	211.25	161.13	
G39	153.39	157.87	218.9	172.22	217.86	213.9	165.57	197.0	153.39	
G40	148.62	151.27	201.72	163.07	203.94	201.11	157.07	184.73	148.62	
G41	142.16	145.22	187.23	155.51	191.53	187.89	150.61	176.56	142.16	
G42	137.72	140.17	177.74	149.0	181.47	178.07	144.52	168.21	137.72	
G43	132.76	134.98	170.38	143.95	174.16	170.9	139.94	162.45	132.76	
G44	128.66	131.3	162.88	138.71	168.26	164.81	135.83	155.94	128.66	
G45	124.46	126.91	156.27	134.79	162.45	157.97	131.02	150.84	124.46	
G46	121.01	123.47	150.51	129.89	156.55	153.15	126.35	146.59	121.01	
G47	116.77	118.7	146.22	126.25	150.89	147.82	122.29	142.11	116.77	
G48	114.59	116.67	141.4	121.63	147.02	143.62	118.04	136.49	114.59	
G49	109.07	111.29	136.26	118.37	141.69	138.66	115.11	132.01	109.07	
G50	105.34	107.42	131.68	114.07	137.34	135.41	111.15	127.76	105.34	
G51	101.57	103.27	128.38	110.2	132.15	129.51	107.23	124.93	101.57	
G52	97.98	100.34	122.85	105.3	128.71	126.58	102.28	119.27	97.98	
G53	93.69	96.42	119.08	102.09	123.75	120.92	99.02	115.44	93.69	
G54	89.96	92.46	115.35	97.98	119.03	116.62	94.58	110.68	89.96	
G55	85.8	88.45	110.25	93.36	115.82	112.23	90.43	107.66	85.8	
G56	83.11	85.71	105.96	90.05	110.77	109.64	86.23	102.18	83.11	
G57	78.06	80.23	102.04	86.51	106.19	103.64	82.92	98.45	78.06	
G58	74.71	76.03	97.93	81.93	102.51	99.59	77.97	93.92	74.71	
G59	69.1	71.98	93.03	77.87	97.79	94.77	73.44	91.14	69.1	
G60	65.37	69.14	88.82	72.87	94.49	91.51	68.91	85.76	65.37	
G61	60.74	63.24	84.29	68.81	88.73	85.76	65.6	80.66	60.74	
G62	58.34	59.75	80.66	64.75	84.62	81.18	60.13	76.51	58.34	
G63	56.07	55.5	76.27	60.46	80.8	76.55	57.2	72.31	56.07	
G64	53.76	54.37	71.5	57.3	75.75	72.54	54.89	67.16	53.76	
G65	50.55	50.78	67.59	55.03	70.09	68.34	52.2	64.38	50.55	
G66	48.0	49.42	64.9	52.25	67.35	66.26	49.75	62.21	48.0	
G67	45.21	46.82	63.01	50.12	64.05	61.88	47.48	60.18	45.21	
G68	43.19	44.41	59.04	47.2	61.83	60.27	44.46	56.54	43.19	
G69	40.92	41.58	56.73	46.02	58.71	57.25	42.57	54.04	40.92	
G70	37.9	39.32	53.29	41.72	56.12	54.37	39.41	51.02	37.9	
G71	35.92	36.25	50.97	39.27	53.62	51.3	37.62	49.46	35.92	
G72	32.47	34.6	47.86	36.77	51.16	48.66	34.41	45.73	32.47	
G73	29.88	31.01	46.3	34.22	47.67	46.16	32.14	43.47	29.88	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:05:37

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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 10:05:37

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