

Report No.:

Test Time: 2025/8/1 17:05:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-EB-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

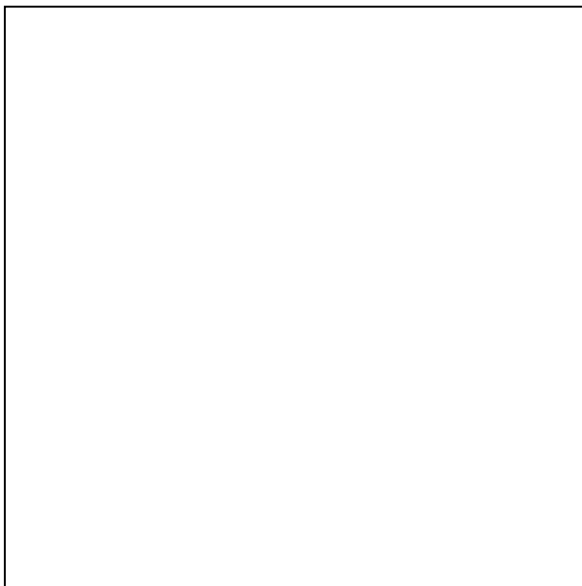
Voltage(V): 219.70 V
Current(A): 0.2270 A
Power(W): 48.24 W
Power Factor: 0.9660
Lamp Luminous Flux: 3321.81

Photometric Results

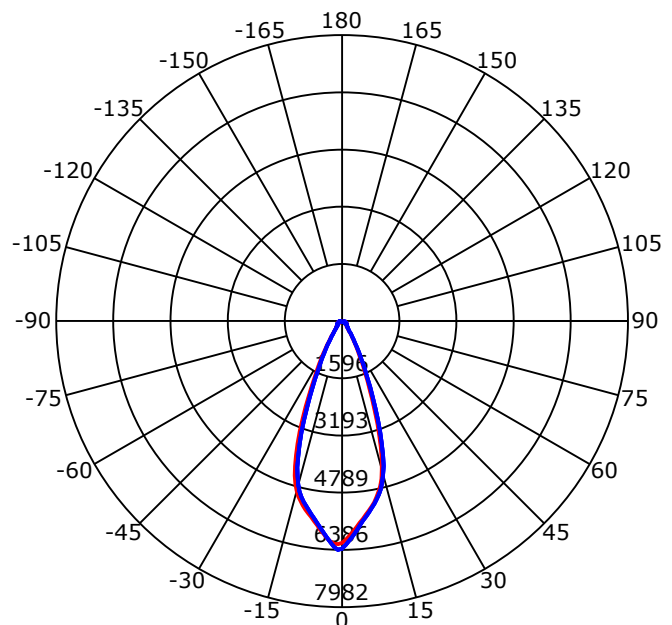
CIE Class: Direct
Luminaire Luminous Flux: 3321.814 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.86 lm/W
Beam Angle(50%) C0-180,C90-270: 40.2,39.6
Field Angle(10%) C0-180,C90-270: 64.4,64.2
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 6385.74 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6185.44 cd
Effective Luminous Flux: 2650.35 lm
ERP(ϕ use)(120deg): 3145.55 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 40.2 deg,39.6 deg

C0-180 — C90-270

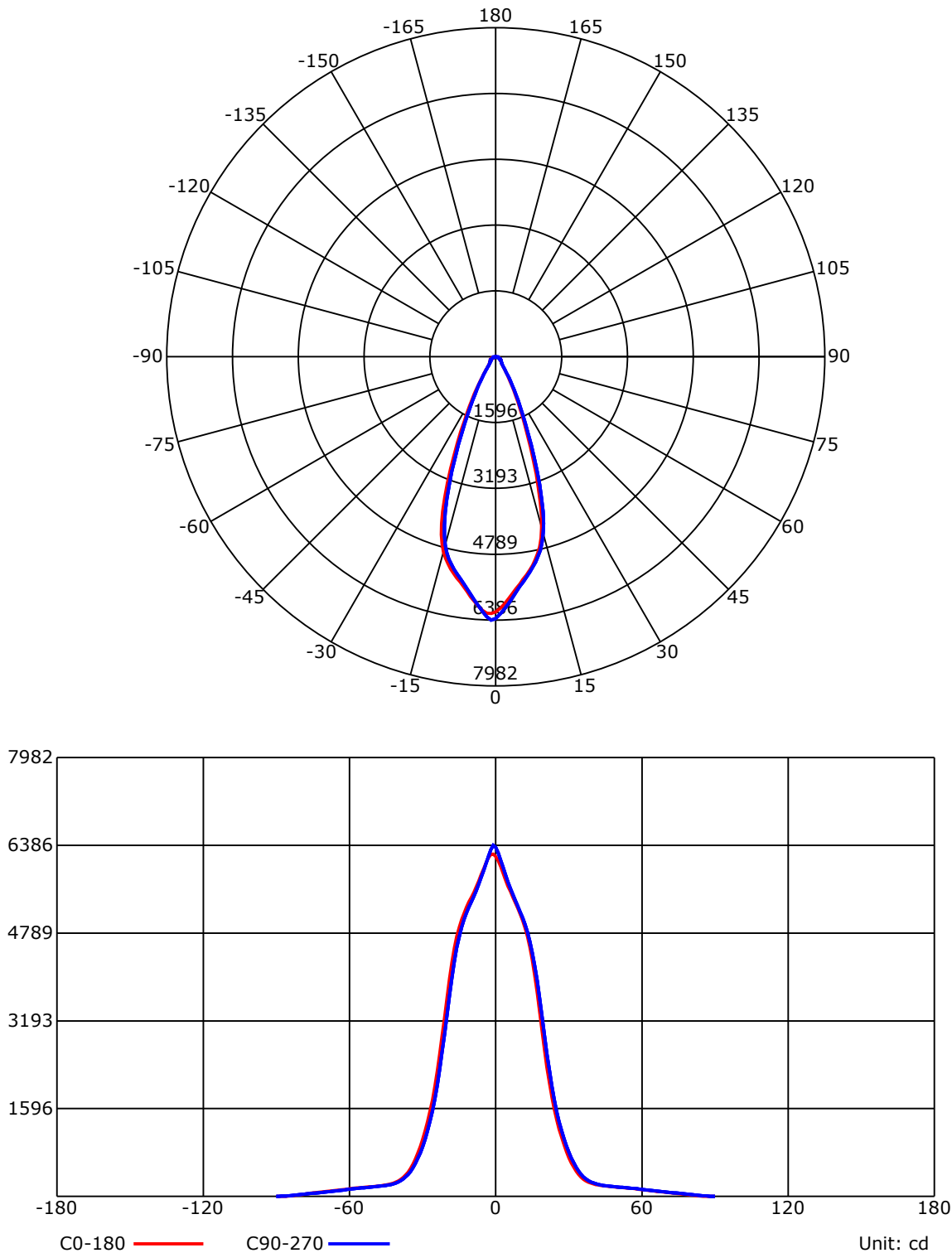
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:05:44

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 17:05:44

Luminous Intensity Distribution Curve



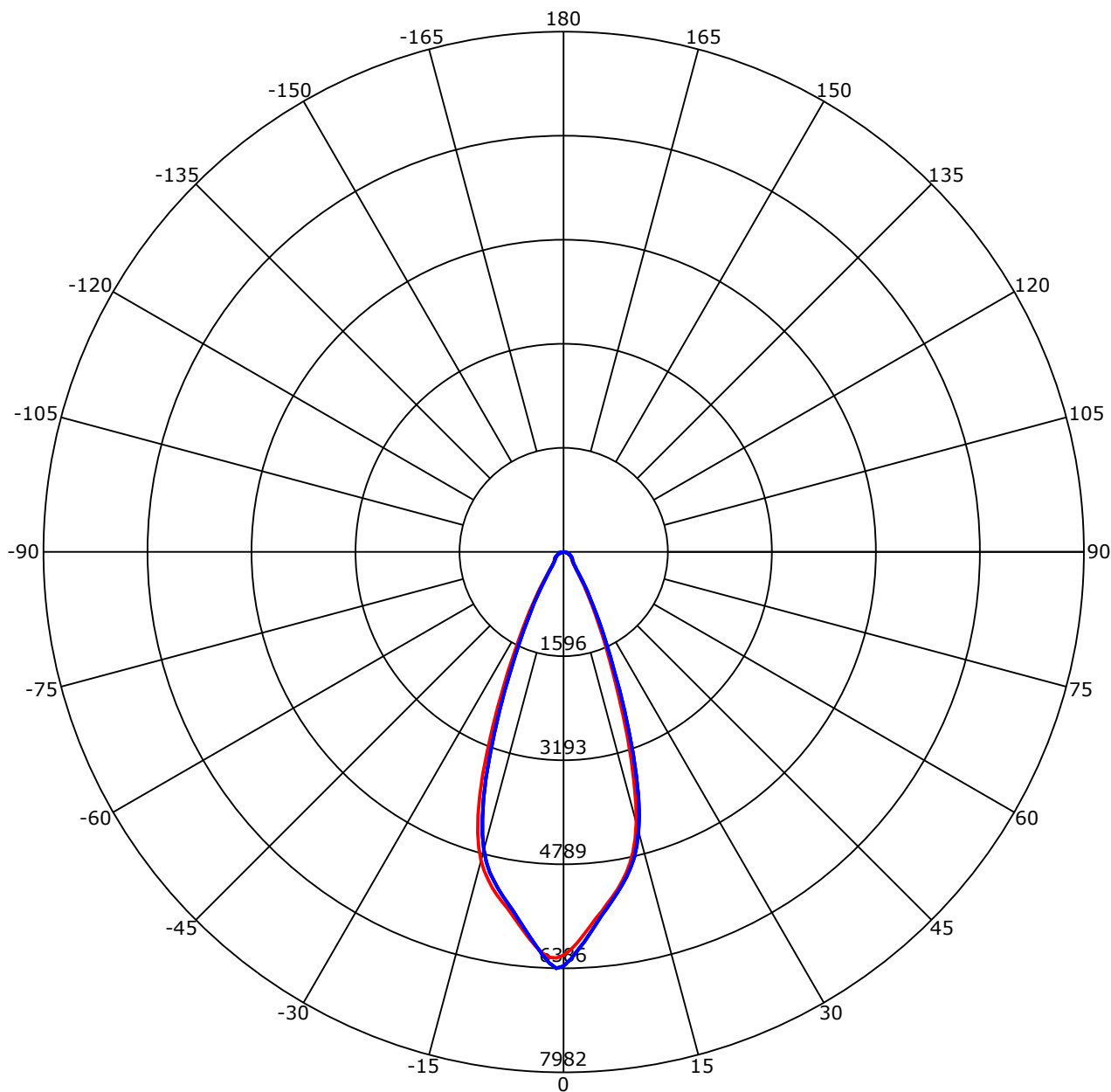
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:05:44

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 17:05:44

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

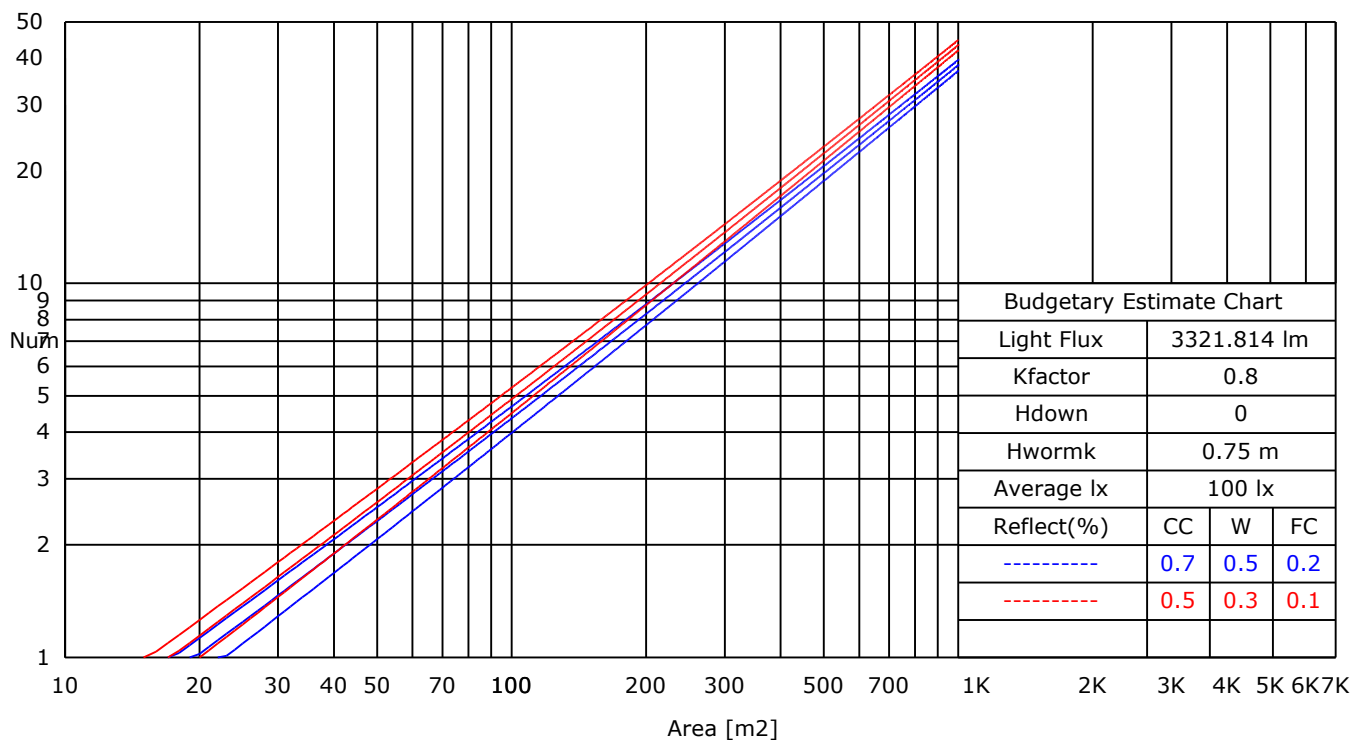
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.78	0.75	0.77	0.73	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.67	0.64
6	0.81	0.79	0.78	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
7	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
9	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.59	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



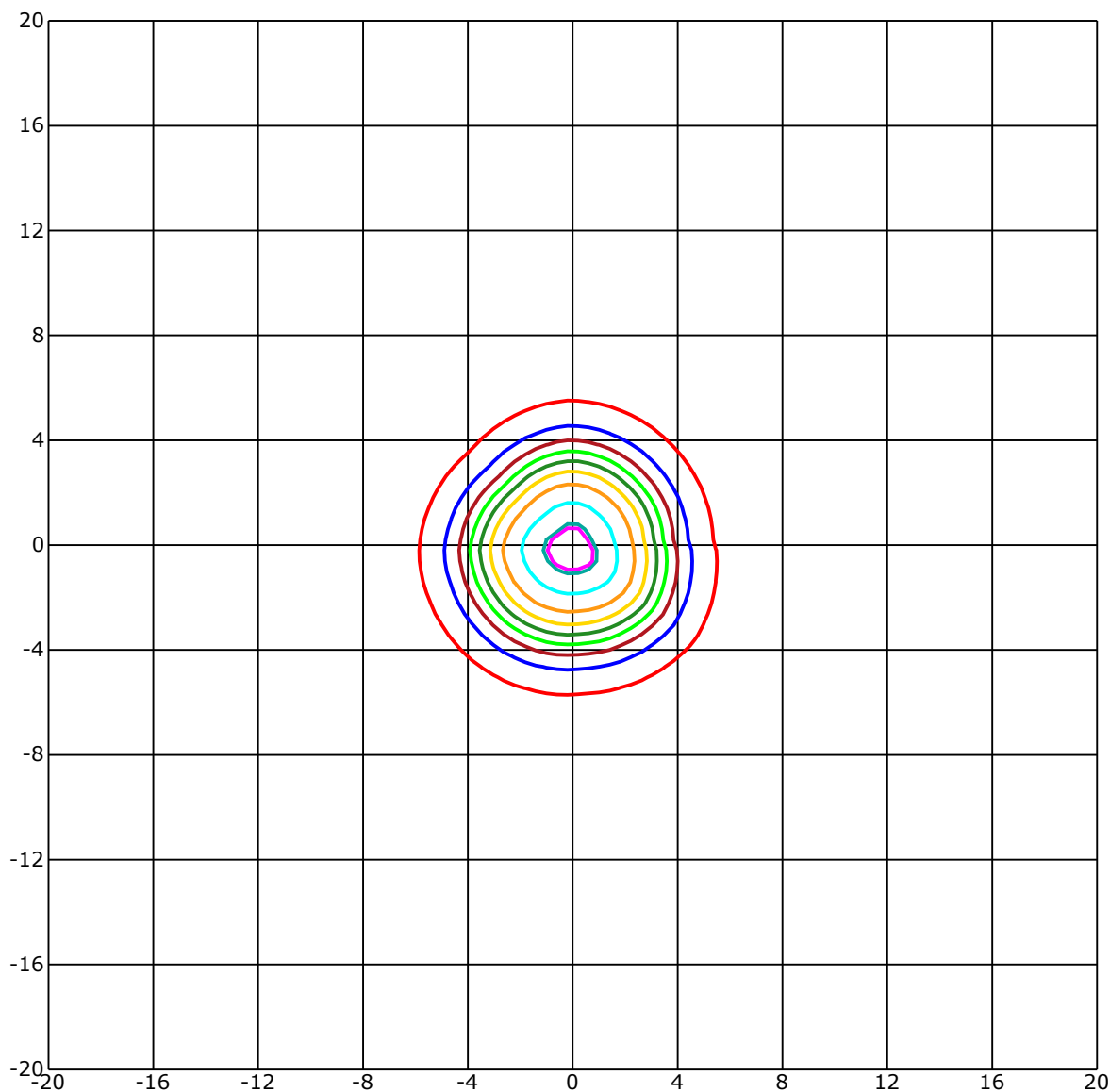
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:05:44

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



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

58.722(92%Emax)	31.914(50%Emax)
57.445(90%Emax)	25.531(40%Emax)
51.063(80%Emax)	19.148(30%Emax)
44.68(70%Emax)	12.766(20%Emax)
38.297(60%Emax)	6.383(10%Emax)

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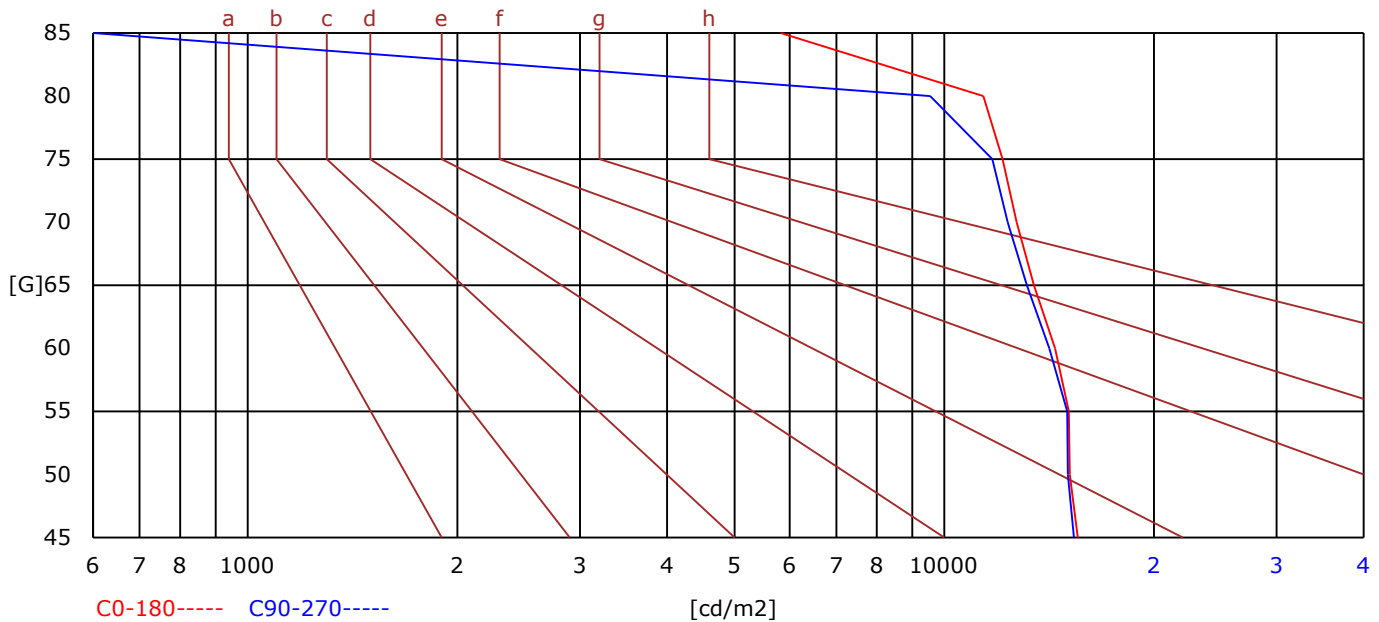
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15546	15148	15093	14417	13455	12697	12124	11378	5822
C90	15354	15042	15009	14156	13146	12332	11719	9550	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



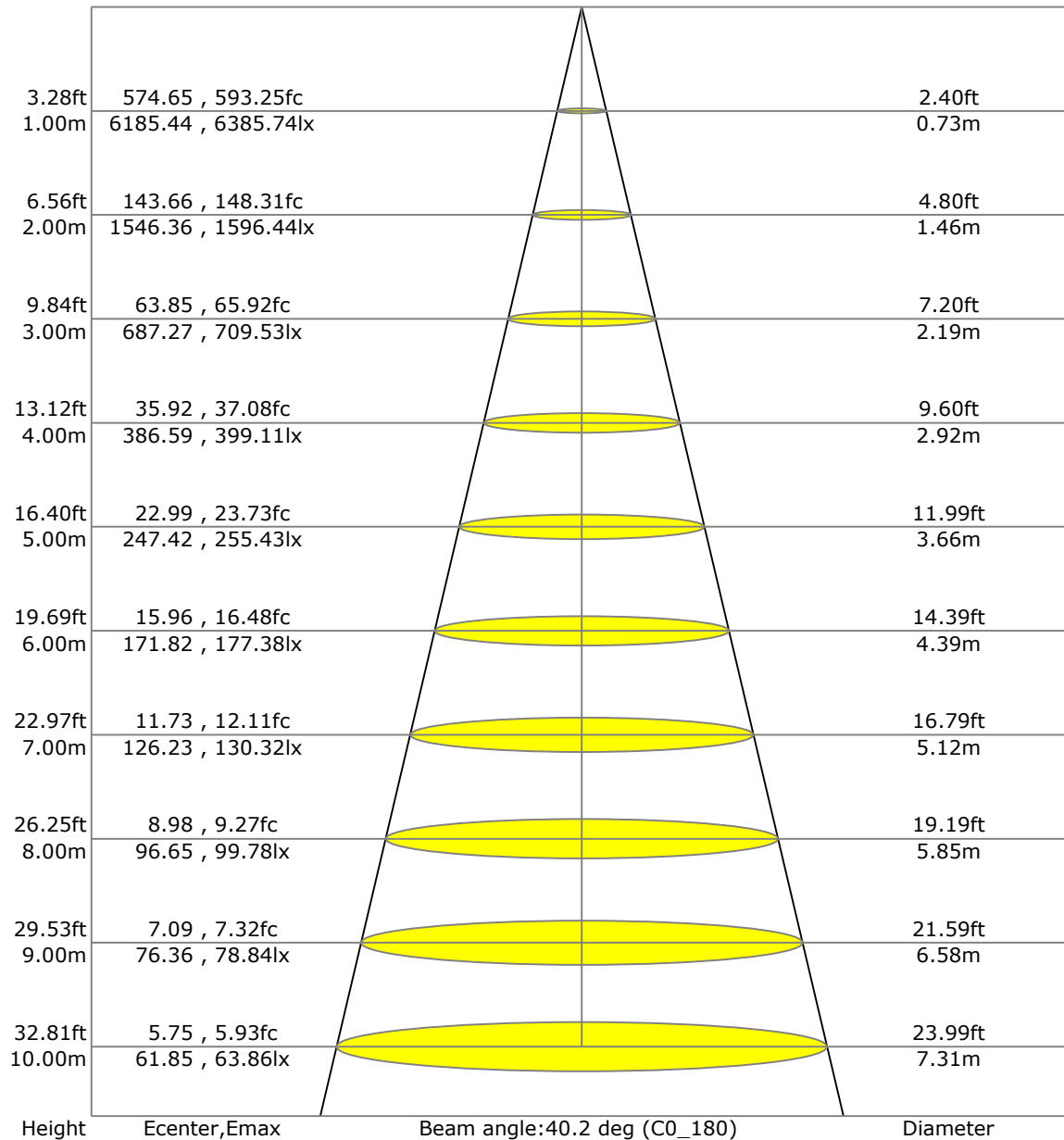
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:05:44

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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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 17:05:44

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	10.07	10.12	10.27	10.31	10.55	10.13	10.18	10.33	10.37	10.61
3H	10.22	10.28	10.43	10.47	10.71	10.27	10.32	10.48	10.52	10.76
4H	10.24	10.30	10.45	10.49	10.74	10.29	10.34	10.50	10.54	10.79
6H	10.24	10.29	10.45	10.49	10.74	10.28	10.33	10.49	10.53	10.78
8H	10.23	10.28	10.44	10.48	10.74	10.27	10.32	10.49	10.53	10.78
12H	10.22	10.27	10.44	10.48	10.73	10.26	10.31	10.48	10.52	10.77
4H 2H	12.01	12.07	12.22	12.27	12.51	12.19	12.25	12.40	12.44	12.69
3H	12.34	12.39	12.56	12.60	12.85	12.50	12.56	12.72	12.76	13.02
4H	12.41	12.47	12.64	12.68	12.94	12.57	12.63	12.80	12.84	13.10
6H	12.44	12.49	12.68	12.71	12.98	12.59	12.64	12.83	12.86	13.12
8H	12.43	12.49	12.68	12.71	12.98	12.58	12.63	12.82	12.86	13.12
12H	12.42	12.47	12.67	12.70	12.97	12.57	12.62	12.81	12.85	13.12
8H 4H	12.40	12.46	12.62	12.66	12.91	12.71	12.77	12.93	12.97	13.23
6H	13.04	13.09	13.29	13.32	13.60	13.35	13.40	13.60	13.64	13.91
8H	13.05	13.09	13.31	13.34	13.62	13.35	13.40	13.62	13.65	13.92
12H	13.04	13.08	13.31	13.34	13.62	13.34	13.38	13.61	13.64	13.92
12H 4H	12.97	13.02	13.22	13.25	13.52	13.37	13.42	13.61	13.65	13.92
6H	13.06	13.10	13.32	13.35	13.63	13.45	13.50	13.71	13.75	14.02

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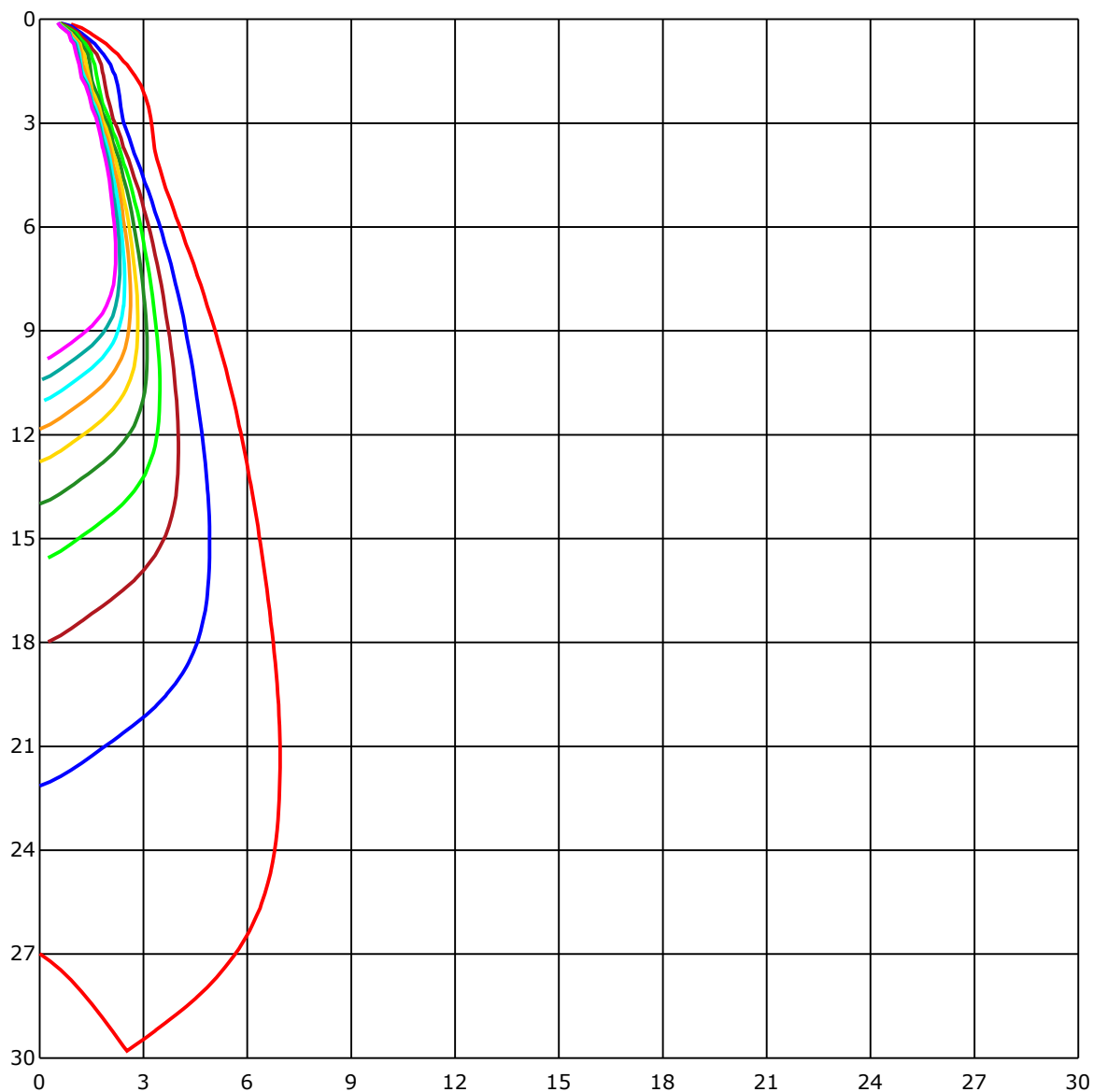
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

63.108
56.797
50.486
44.175
37.865

31.554
25.243
18.932
12.622
6.311

C Range: 0 - 360 Deg
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Test Date: 2025/8/1 17:05:44

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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6185.44	6281.77	6351.33	6212.34	6185.44	6281.77	6351.33	6212.34	6185.44	
G1	6102.61	6158.96	6243.91	6121.11	6226.64	6348.03	6385.74	6265.77	6102.61	
G2	5999.58	6026.67	6116.34	6013.55	6222.68	6316.08	6306.64	6253.31	5999.58	
G3	5880.26	5892.06	5990.8	5884.56	6160.71	6218.71	6186.19	6188.6	5880.26	
G4	5761.04	5764.58	5856.76	5768.26	6070.8	6097.79	6057.34	6085.99	5761.04	
G5	5643.76	5636.58	5723.62	5649.23	5962.81	5973.15	5927.03	5975.22	5643.76	
G6	5545.49	5515.34	5599.49	5539.83	5851.71	5843.07	5798.14	5852.79	5545.49	
G7	5439.49	5404.85	5494.47	5426.98	5736.64	5712.67	5675.66	5731.31	5439.49	
G8	5345.0	5298.14	5389.13	5332.31	5631.91	5595.76	5560.31	5627.19	5345.0	
G9	5245.94	5194.11	5287.56	5233.62	5531.24	5500.0	5459.31	5533.74	5245.94	
G10	5139.08	5086.5	5180.8	5133.56	5447.23	5400.65	5362.23	5436.89	5139.08	
G11	5014.29	4975.54	5070.17	5020.15	5360.06	5303.37	5261.27	5345.47	5014.29	
G12	4882.57	4842.26	4948.22	4890.21	5262.97	5208.32	5154.23	5255.23	4882.57	
G13	4724.27	4678.91	4810.26	4723.99	5151.4	5108.22	5041.29	5151.59	4724.27	
G14	4533.5	4483.28	4638.23	4528.73	5040.16	4989.89	4901.35	5034.73	4533.5	
G15	4300.68	4260.37	4438.77	4284.58	4898.66	4845.33	4726.44	4891.72	4300.68	
G16	4026.56	3991.16	4206.42	4002.53	4723.7	4661.45	4517.69	4721.67	4026.56	
G17	3691.46	3678.15	3918.71	3688.01	4511.6	4446.94	4264.24	4508.25	3691.46	
G18	3351.31	3353.48	3602.82	3342.86	4256.22	4186.08	3970.63	4258.44	3351.31	
G19	3010.12	3008.38	3272.35	2988.93	3962.75	3883.03	3649.64	3954.68	3010.12	
G20	2668.32	2681.63	2933.33	2642.93	3627.08	3551.57	3309.35	3619.91	2668.32	
G21	2344.46	2355.6	2601.07	2320.96	3277.54	3209.3	2965.62	3274.14	2344.46	
G22	2056.13	2071.43	2294.81	2030.46	2926.87	2863.72	2625.94	2929.51	2056.13	
G23	1804.86	1821.8	2009.08	1776.44	2595.22	2537.12	2306.18	2595.64	1804.86	
G24	1586.05	1600.35	1762.9	1555.7	2283.67	2235.76	2019.74	2289.47	1586.05	
G25	1395.52	1403.54	1547.35	1364.51	2009.88	1964.43	1772.43	2018.52	1395.52	
G26	1223.06	1234.15	1361.73	1193.09	1759.69	1726.13	1554.71	1776.82	1223.06	
G27	1074.39	1082.93	1192.43	1040.79	1547.73	1516.39	1356.39	1566.56	1074.39	
G28	937.28	950.55	1047.06	908.16	1359.46	1325.81	1187.47	1375.93	937.28	
G29	813.72	826.75	920.1	791.92	1192.62	1158.68	1032.1	1209.42	813.72	
G30	701.82	719.89	805.37	683.32	1043.38	1012.52	901.37	1057.12	701.82	
G31	608.6	622.48	700.5	587.6	907.31	881.59	787.43	923.78	608.6	
G32	525.07	539.6	607.61	505.81	783.66	768.22	685.35	802.63	525.07	
G33	454.03	468.85	528.37	437.56	678.03	664.67	595.96	695.92	454.03	
G34	396.36	408.68	460.41	382.06	584.96	575.94	518.22	601.19	396.36	
G35	348.79	359.31	401.5	336.28	507.08	501.33	452.24	522.75	348.79	
G36	311.12	318.67	355.96	299.28	441.2	437.85	397.02	455.26	311.12	

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	281.77	285.54	318.67	271.29	388.1	385.69	351.48	400.09	281.77	
G38	258.26	260.48	287.9	249.15	342.79	343.97	314.19	356.01	258.26	
G39	240.85	240.85	263.74	232.11	308.71	309.56	284.13	319.85	240.85	
G40	226.4	225.65	245.24	218.0	280.49	282.24	260.67	291.16	226.4	
G41	215.74	212.91	230.56	207.52	259.49	260.76	241.79	268.74	215.74	
G42	206.58	203.32	218.76	199.22	243.16	243.82	227.16	250.95	206.58	
G43	199.41	195.02	209.08	191.86	229.75	230.18	215.5	236.5	199.41	
G44	193.79	188.79	201.39	186.29	218.62	219.61	206.72	225.51	193.79	
G45	187.89	183.03	194.59	180.76	210.12	210.59	199.08	216.68	187.89	
G46	183.31	178.31	189.17	176.42	202.33	202.99	192.66	208.7	183.31	
G47	179.49	174.02	184.02	172.74	196.39	196.91	188.27	202.76	179.49	
G48	175.05	170.14	179.68	168.49	190.72	191.81	182.37	196.81	175.05	
G49	170.95	165.85	174.82	164.43	186.71	186.95	178.22	192.09	170.95	
G50	167.27	162.12	170.85	160.99	181.28	181.99	173.54	187.04	167.27	
G51	163.68	158.3	166.75	157.59	177.27	177.37	169.48	182.79	163.68	
G52	159.67	155.04	163.02	153.96	172.93	173.17	165.52	178.07	159.67	
G53	155.84	151.27	159.24	150.27	168.96	168.96	161.56	173.78	155.84	
G54	151.69	147.77	155.56	146.45	165.38	164.67	157.59	169.86	151.69	
G55	148.43	144.14	151.83	143.34	161.13	160.61	153.67	165.38	148.43	
G56	143.95	140.65	148.25	139.28	157.17	156.84	149.76	161.22	143.95	
G57	139.61	136.26	144.14	134.98	153.67	152.97	145.37	156.98	139.61	
G58	133.76	131.4	139.75	129.41	149.28	148.76	141.31	152.73	133.76	
G59	127.71	125.36	133.38	123.75	144.85	143.86	136.35	148.48	127.71	
G60	121.86	120.02	128.0	117.85	139.28	138.33	130.5	142.63	121.86	
G61	116.48	114.41	122.52	112.38	133.61	131.73	124.41	136.73	116.48	
G62	110.77	109.59	117.1	107.04	127.1	126.25	118.75	130.55	110.77	
G63	105.63	104.12	111.76	102.13	121.63	120.97	113.32	124.93	105.63	
G64	100.58	99.63	106.9	97.32	116.29	115.49	108.27	119.13	100.58	
G65	95.48	94.68	101.85	92.51	110.91	110.25	102.65	113.89	95.48	
G66	90.48	89.96	97.23	87.83	105.86	104.78	97.56	108.51	90.48	
G67	86.18	85.62	92.27	83.16	100.77	99.92	92.88	103.41	86.18	
G68	81.75	81.04	87.69	78.72	95.86	94.91	88.07	98.22	81.75	
G69	77.03	76.55	83.11	74.52	91.18	90.05	83.4	93.36	77.03	
G70	72.49	72.31	78.82	70.23	86.37	85.57	78.82	88.4	72.49	
G71	68.34	68.44	74.38	66.22	81.93	81.04	74.24	84.06	68.34	
G72	64.05	64.23	70.37	62.16	77.64	76.55	69.99	79.2	64.05	
G73	60.22	60.08	65.89	58.19	73.06	72.07	65.6	74.95	60.22	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 17:05:44

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 17:05:44

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