

Report No.:

Test Time: 2025/5/13 10:56:06

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095H135-45°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

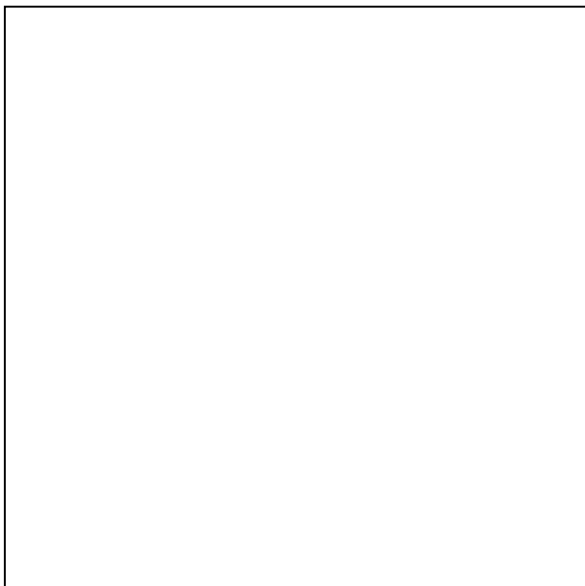
Voltage(V): 219.80 V
Current(A): 0.1840 A
Power(W): 39.57 W
Power Factor: 0.9730
Lamp Luminous Flux: 3838.47

Photometric Results

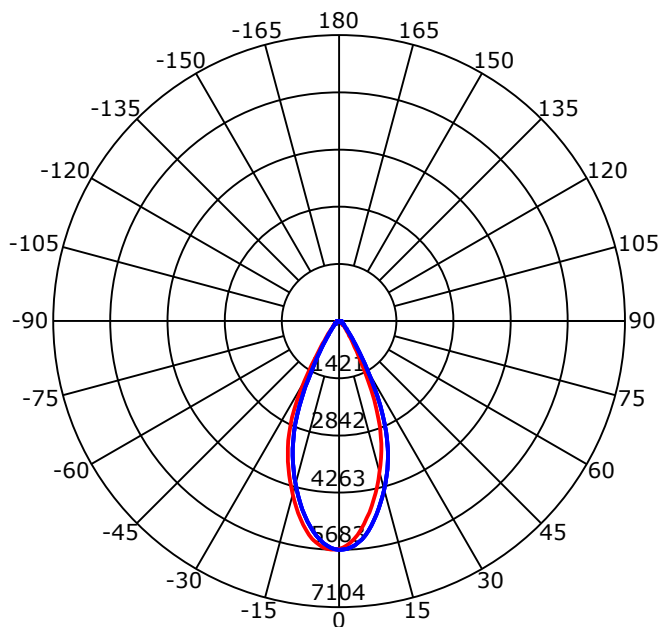
CIE Class: Direct
Luminaire Luminous Flux: 3838.465 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.01 lm/W
Beam Angle(50%) C0-180,C90-270: 46.1,46.4
Field Angle(10%) C0-180,C90-270: 70.5,72.2
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 5683.36 cd
Max.Intensity Angle: C=270 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5663.01 cd
Effective Luminous Flux: 3296.29 lm
ERP(ϕ use)(120deg): 3685.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.1 deg,46.4 deg

C0-180 — C90-270 —

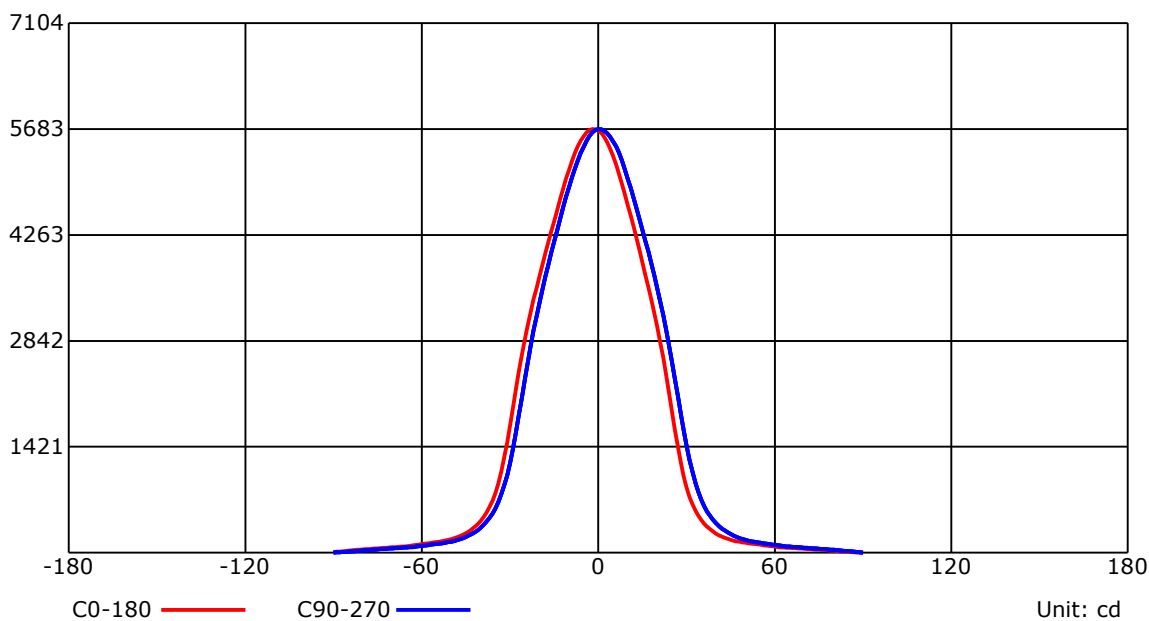
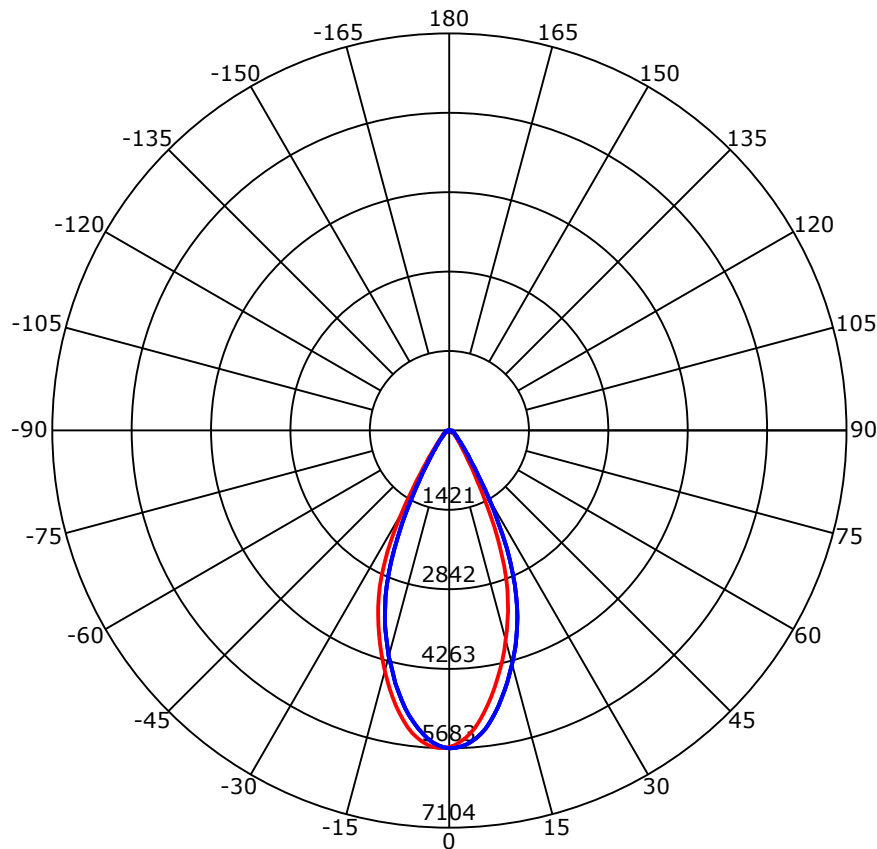
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:56:06

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 Intensity Distribution Curve



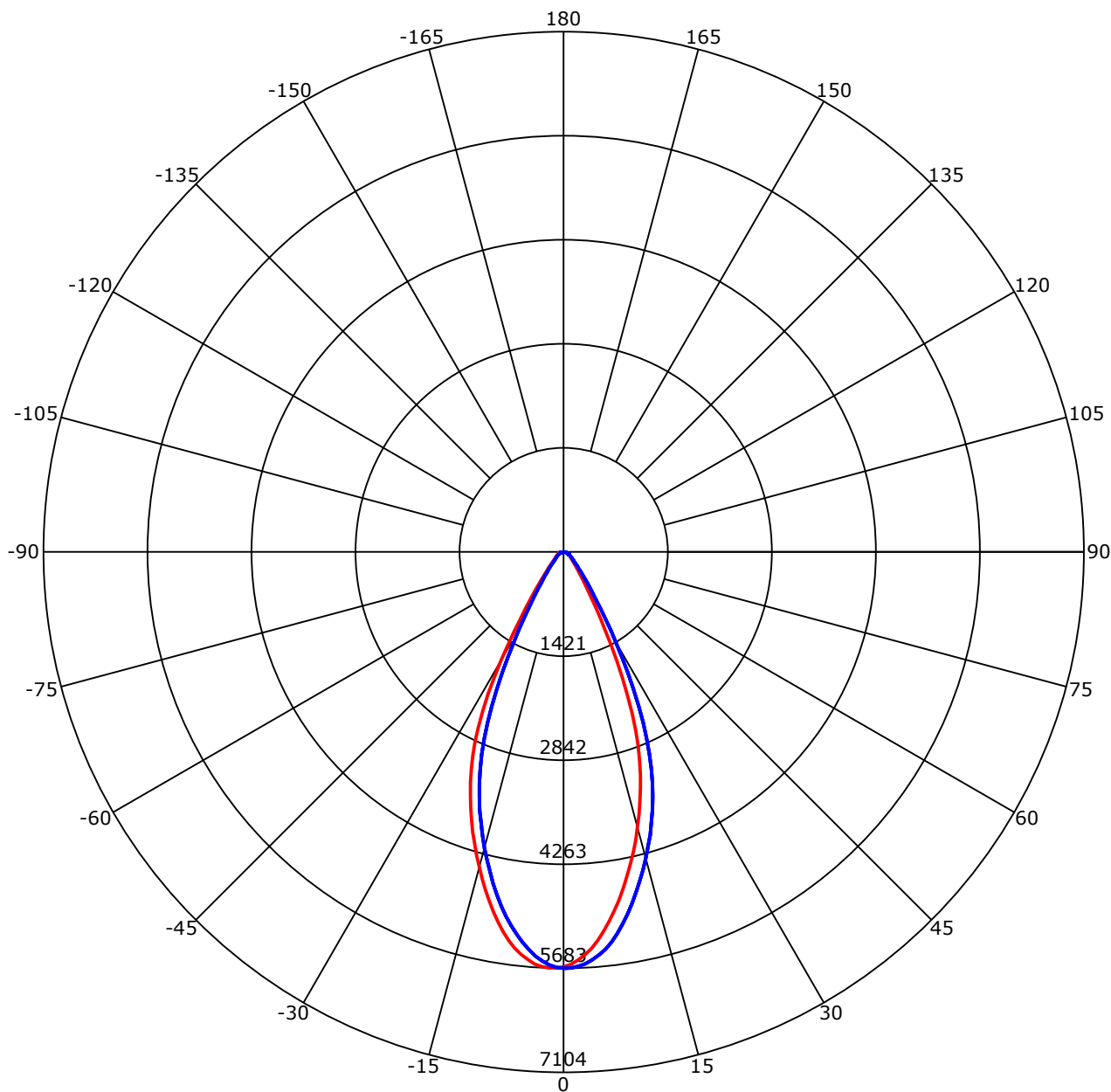
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Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous 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 10:56:06

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

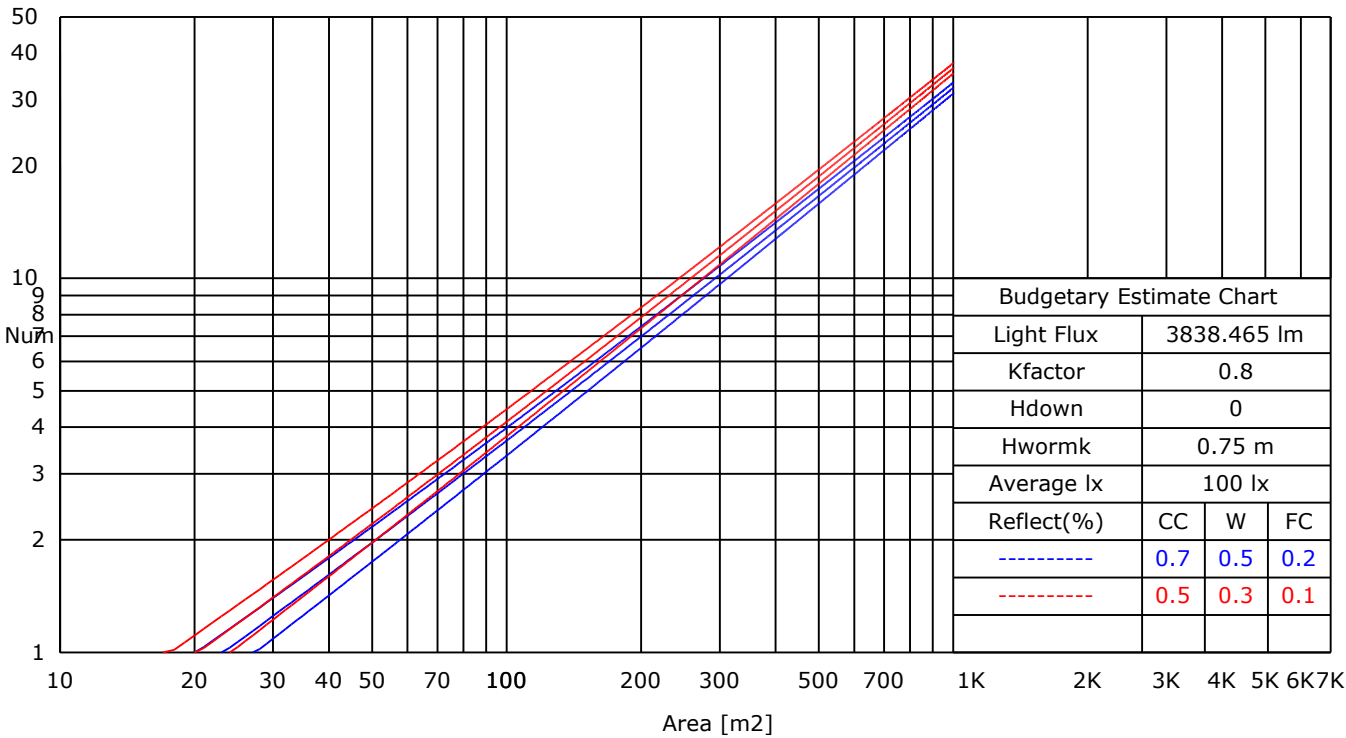
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	1.03	1.02	1.00	1.02	1.00	0.98	0.99	0.96	0.94	0.94	0.91	0.89	0.88	0.85	0.83	0.78
2	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.85	0.81	0.79	0.74
3	0.93	0.92	0.90	0.92	0.90	0.88	0.90	0.87	0.85	0.86	0.83	0.80	0.82	0.78	0.75	0.71
4	0.89	0.88	0.86	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.71	0.74	0.70	0.67	0.63
7	0.80	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.61
8	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	0.59
9	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.64	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



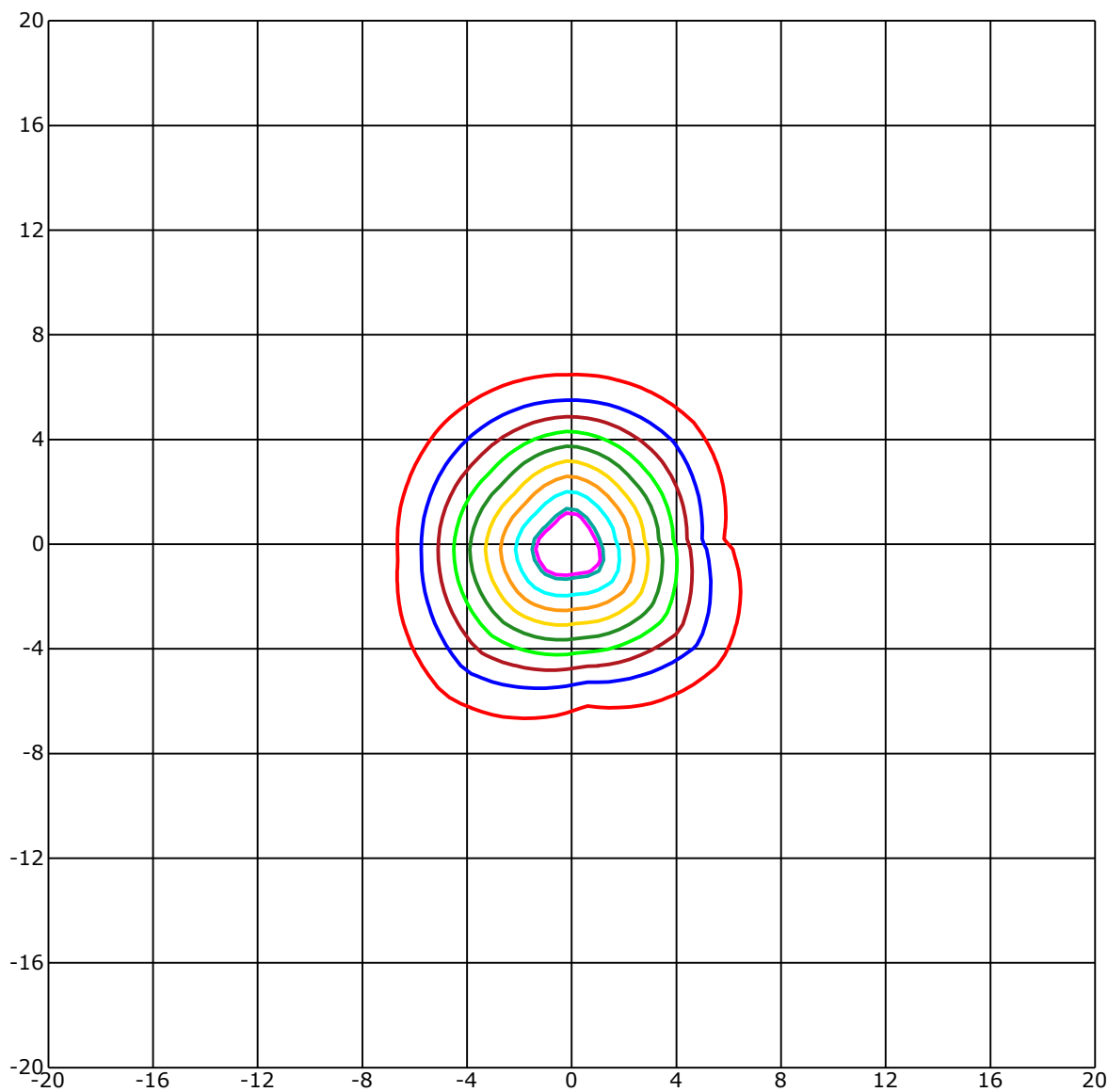
C Range: 0 - 360 Deg
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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ISOLX DIAGRAM



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

52.287(92%Emax)	28.417(50%Emax)
51.15(90%Emax)	22.733(40%Emax)
45.467(80%Emax)	17.05(30%Emax)
39.783(70%Emax)	11.367(20%Emax)
34.1(60%Emax)	5.683(10%Emax)

C Range: 0 - 360 Deg
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Test Speed: High
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Test Date: 2025/5/13 10:56:06

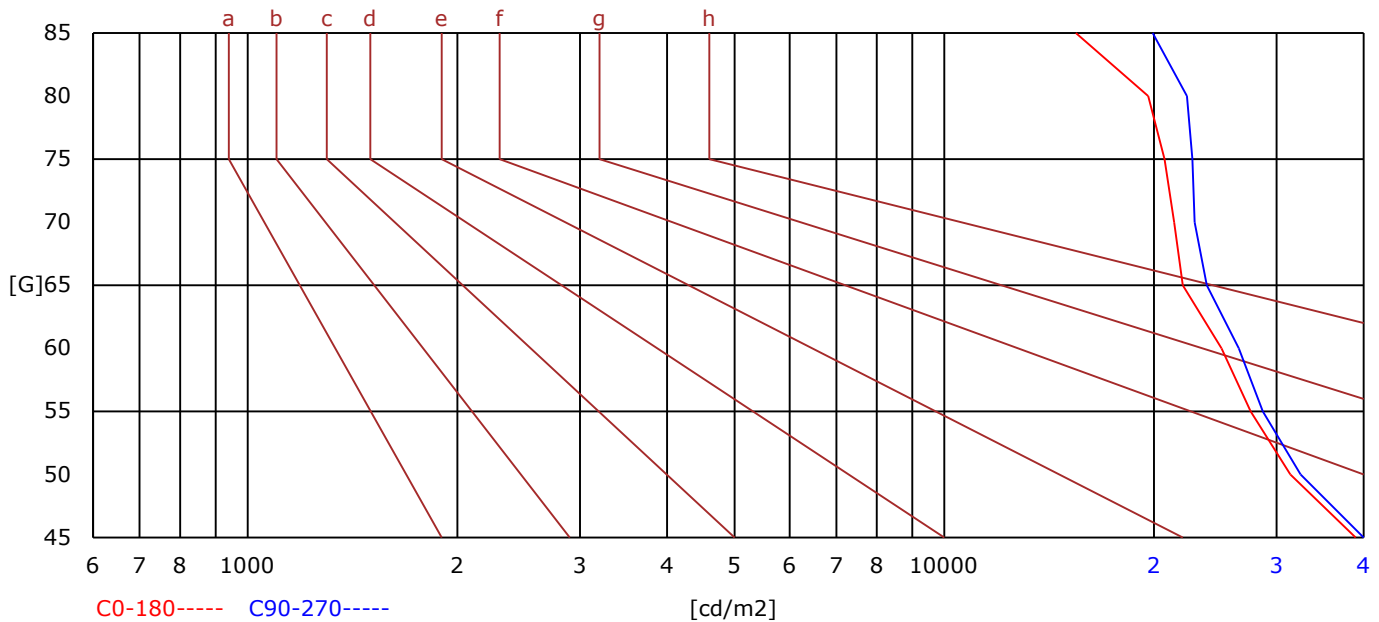
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	38941	31391	27514	25002	21985	21382	20711	19624	15449
C90	40458	32464	28649	26483	23812	22875	22708	22307	19915
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



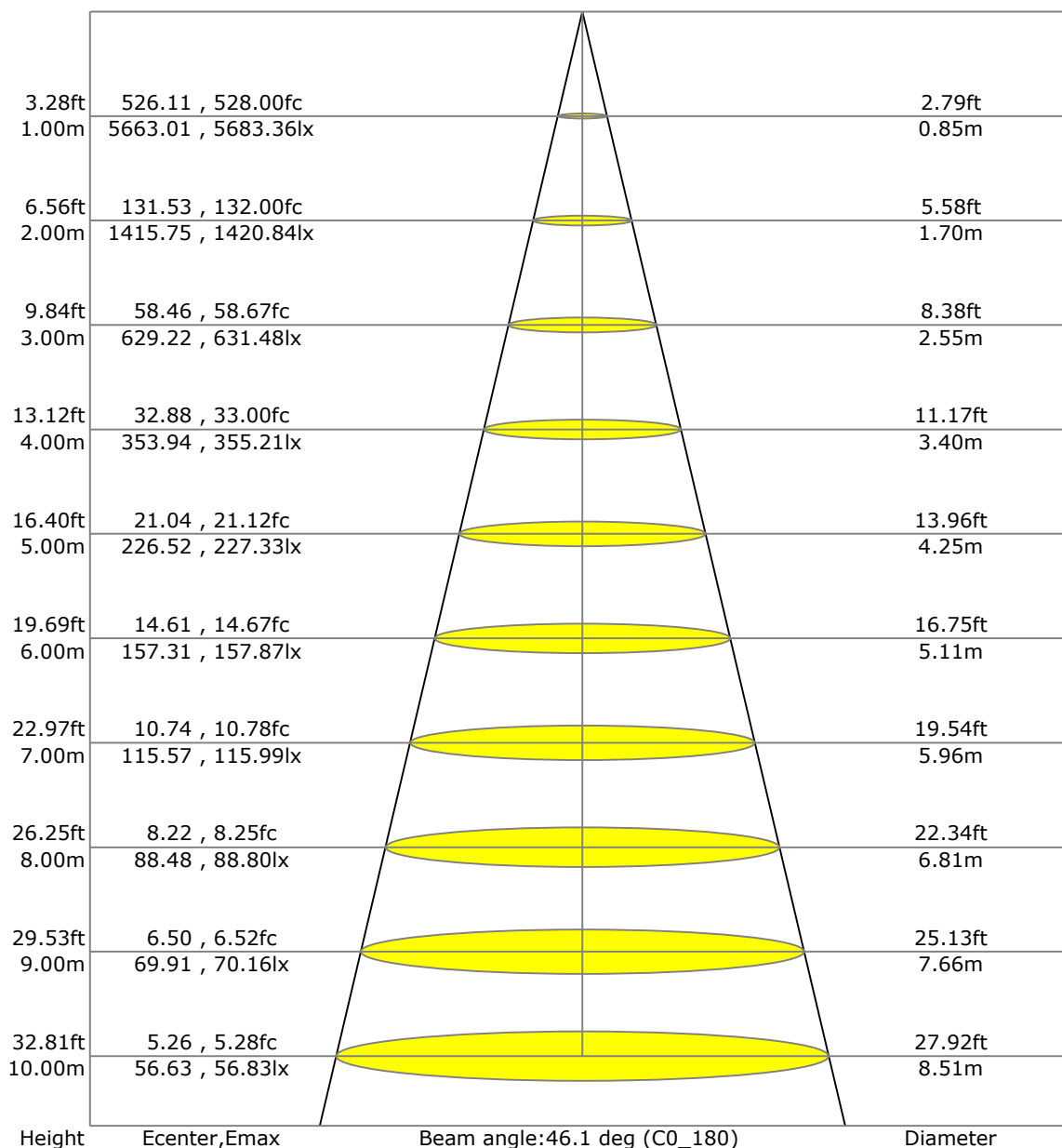
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:56:06

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 10:56:06

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 10:56:06

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	12.72	12.78	12.92	12.96	13.21	12.95	13.00	13.15	13.19	13.43
3H	12.78	12.83	12.98	13.02	13.27	12.98	13.04	13.19	13.23	13.48
4H	12.78	12.84	12.99	13.03	13.28	12.98	13.04	13.19	13.23	13.48
6H	12.77	12.83	12.99	13.03	13.28	12.97	13.02	13.19	13.22	13.48
8H	12.76	12.82	12.98	13.02	13.27	12.96	13.01	13.18	13.22	13.47
12H	12.75	12.81	12.97	13.01	13.27	12.95	13.00	13.17	13.21	13.46
4H 2H	13.65	13.70	13.86	13.90	14.15	14.09	14.14	14.30	14.34	14.59
3H	13.84	13.89	14.06	14.10	14.35	14.26	14.31	14.48	14.52	14.77
4H	13.89	13.94	14.12	14.15	14.41	14.29	14.34	14.52	14.56	14.81
6H	13.90	13.95	14.14	14.17	14.44	14.29	14.34	14.53	14.57	14.83
8H	13.90	13.95	14.14	14.17	14.44	14.29	14.34	14.53	14.56	14.83
12H	13.89	13.94	14.14	14.17	14.44	14.27	14.32	14.52	14.55	14.82
8H 4H	13.95	14.00	14.16	14.20	14.46	14.57	14.62	14.79	14.83	15.08
6H	14.38	14.43	14.64	14.67	14.94	15.00	15.04	15.25	15.28	15.55
8H	14.39	14.44	14.65	14.68	14.96	15.00	15.04	15.26	15.29	15.56
12H	14.39	14.43	14.66	14.69	14.97	14.99	15.03	15.26	15.28	15.56
12H 4H	14.40	14.45	14.65	14.68	14.95	15.15	15.19	15.39	15.43	15.70
6H	14.48	14.52	14.74	14.77	15.04	15.22	15.27	15.48	15.51	15.79

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ZONAL LUMINOUS FLUX TABLE

[illegible]

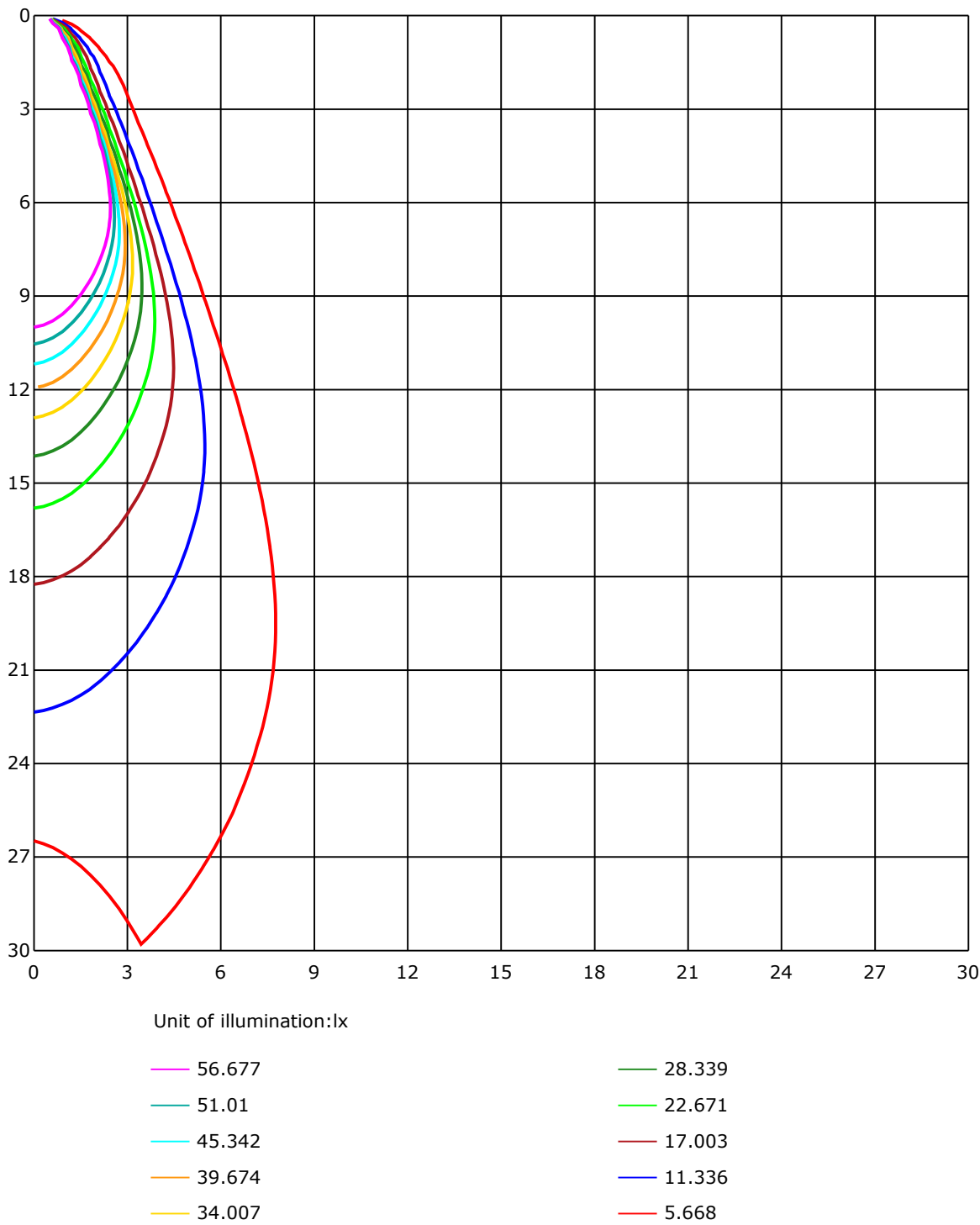
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C Interval: 45.0 Deg
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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5663.01	5646.59	5683.36	5661.32	5663.01	5646.59	5683.36	5661.32	5663.01	
G1	5630.4	5608.17	5678.78	5635.36	5678.21	5670.38	5671.7	5672.31	5630.4	
G2	5575.23	5552.2	5659.62	5591.75	5681.71	5673.78	5639.65	5681.71	5575.23	
G3	5508.21	5484.47	5629.22	5526.85	5668.82	5661.83	5591.61	5663.53	5508.21	
G4	5423.63	5400.36	5582.36	5453.89	5638.85	5634.79	5528.5	5625.35	5423.63	
G5	5326.97	5302.71	5521.8	5365.39	5587.83	5589.2	5449.12	5570.98	5326.97	
G6	5207.05	5193.83	5453.22	5266.66	5526.33	5529.87	5360.72	5503.77	5207.05	
G7	5079.66	5072.02	5364.16	5148.0	5451.24	5457.57	5259.53	5414.24	5079.66	
G8	4947.56	4940.71	5260.66	5030.91	5360.62	5367.66	5152.53	5315.74	4947.56	
G9	4813.19	4805.87	5143.75	4900.83	5254.34	5272.55	5036.71	5209.17	4813.19	
G10	4667.77	4661.97	5016.75	4765.9	5138.28	5163.2	4907.77	5096.89	4667.77	
G11	4516.51	4516.22	4887.62	4625.58	5011.79	5044.26	4770.43	4970.73	4516.51	
G12	4368.03	4364.82	4751.64	4479.08	4877.89	4909.66	4628.88	4833.81	4368.03	
G13	4216.24	4215.82	4613.54	4326.59	4741.17	4784.63	4477.71	4699.92	4216.24	
G14	4060.82	4056.48	4474.36	4171.92	4596.74	4642.9	4325.36	4561.44	4060.82	
G15	3890.44	3896.2	4330.83	4018.63	4454.25	4503.2	4183.16	4419.9	3890.44	
G16	3728.32	3745.88	4183.34	3870.52	4308.32	4356.94	4023.25	4279.44	3728.32	
G17	3558.27	3586.68	4038.64	3716.9	4163.99	4214.16	3858.39	4132.18	3558.27	
G18	3395.77	3430.79	3878.74	3557.89	4020.56	4070.36	3706.18	3975.3	3395.77	
G19	3218.59	3266.92	3724.07	3412.76	3867.27	3923.53	3536.23	3822.43	3218.59	
G20	3036.46	3110.13	3554.78	3259.32	3716.14	3776.74	3361.36	3673.29	3036.46	
G21	2835.92	2957.88	3381.75	3107.44	3556.71	3626.0	3181.35	3522.87	2835.92	
G22	2624.01	2798.45	3194.24	2953.49	3401.01	3480.58	2986.43	3369.39	2624.01	
G23	2388.54	2639.53	2995.82	2806.56	3227.89	3329.55	2777.44	3218.4	2388.54	
G24	2149.49	2485.39	2786.41	2650.34	3057.09	3185.74	2554.53	3065.91	2149.49	
G25	1902.22	2323.13	2570.82	2487.89	2866.55	3028.15	2327.66	2915.78	1902.22	
G26	1657.74	2160.86	2342.24	2318.55	2663.79	2882.17	2087.52	2762.67	1657.74	
G27	1423.08	1997.47	2101.77	2155.34	2434.27	2724.02	1846.11	2605.18	1423.08	
G28	1211.83	1835.58	1865.03	1989.73	2196.45	2571.57	1614.28	2442.06	1211.83	
G29	1024.88	1669.69	1642.83	1816.66	1951.26	2410.06	1399.48	2287.59	1024.88	
G30	871.87	1503.88	1433.94	1639.34	1713.3	2248.84	1206.68	2112.06	871.87	
G31	747.36	1337.56	1246.75	1469.85	1481.23	2082.47	1040.5	1938.24	747.36	
G32	647.02	1180.35	1079.54	1297.96	1272.48	1918.88	899.53	1761.77	647.02	
G33	565.14	1023.65	935.35	1136.97	1085.53	1752.42	782.95	1594.17	565.14	
G34	495.71	876.21	811.74	978.53	928.6	1590.49	680.01	1417.23	495.71	
G35	437.42	745.43	709.09	830.05	799.42	1425.54	595.86	1243.97	437.42	
G36	388.86	629.89	623.85	697.52	696.3	1262.66	524.92	1069.44	388.86	

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	347.75	533.28	552.58	585.43	609.08	1099.12	466.12	908.87	347.75	
G38	313.48	456.68	492.12	494.2	537.86	942.66	416.42	763.88	313.48	
G39	282.85	393.76	440.44	424.11	476.12	802.82	373.8	642.44	282.85	
G40	256.23	343.59	395.27	365.07	426.0	682.75	335.95	541.77	256.23	
G41	233.77	302.58	357.61	318.44	383.05	579.25	303.38	462.34	233.77	
G42	214.98	269.35	324.48	281.72	346.94	496.84	275.49	395.89	214.98	
G43	198.37	242.5	295.88	253.07	314.14	429.59	252.22	345.01	198.37	
G44	184.45	221.26	270.72	230.04	286.77	376.02	231.22	305.03	184.45	
G45	172.03	203.65	248.3	211.58	262.13	333.3	212.57	275.06	172.03	
G46	161.6	190.01	227.96	196.67	241.27	298.47	195.63	249.58	161.6	
G47	152.59	177.79	210.5	184.07	223.1	270.25	181.28	229.75	152.59	
G48	145.18	167.36	195.35	172.79	207.67	247.93	168.54	213.14	145.18	
G49	138.33	158.35	182.84	163.35	193.93	229.71	157.87	199.78	138.33	
G50	132.72	149.24	171.8	154.33	182.13	213.94	148.81	187.94	132.72	
G51	126.96	141.69	162.03	147.07	171.94	200.07	141.12	177.74	126.96	
G52	121.63	135.08	153.3	139.42	163.54	188.36	133.94	168.59	121.63	
G53	116.72	128.19	146.26	133.05	155.99	177.6	127.81	160.47	116.72	
G54	111.62	122.33	139.28	127.01	149.0	167.97	122.19	152.54	111.62	
G55	106.57	116.72	133.14	121.53	142.68	159.24	116.81	145.7	106.57	
G56	101.76	111.72	127.15	116.43	136.97	152.12	111.43	139.42	101.76	
G57	96.66	106.62	121.53	111.67	131.07	144.47	106.48	133.71	96.66	
G58	91.66	101.95	116.01	106.85	125.64	138.15	101.47	128.05	91.66	
G59	86.46	97.32	110.39	102.42	120.21	132.2	96.38	122.95	86.46	
G60	81.23	92.46	105.01	97.93	115.44	127.01	91.33	117.57	81.23	
G61	75.37	87.74	99.96	93.21	109.59	121.34	86.32	112.8	75.37	
G62	71.98	82.88	94.49	88.4	104.26	115.96	80.9	107.94	71.98	
G63	69.71	78.02	87.93	83.87	99.07	110.68	75.61	103.13	69.71	
G64	67.54	73.44	83.49	79.05	93.12	105.39	72.73	97.84	67.54	
G65	65.08	68.72	80.8	74.43	87.36	100.34	70.56	93.26	65.08	
G66	62.63	64.8	78.35	69.85	84.06	94.96	68.25	88.12	62.63	
G67	60.03	61.92	75.56	66.08	81.18	89.72	65.93	82.97	60.03	
G68	57.58	59.37	72.64	63.2	78.58	84.77	63.15	77.97	57.58	
G69	55.13	56.45	70.09	60.7	75.75	79.72	60.7	74.76	55.13	
G70	52.58	54.09	67.11	57.86	72.97	76.22	58.1	71.64	52.58	
G71	49.93	51.26	64.38	54.98	70.23	72.97	55.69	68.67	49.93	
G72	47.1	48.09	61.64	52.25	67.63	70.04	52.86	65.56	47.1	
G73	44.27	45.12	58.9	48.94	64.75	66.78	50.22	62.72	44.27	

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Test Date: 2025/5/13 10:56:06

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

Test Time: 2025/5/13 10:56:06

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: