

Report No.:

Test Time: 2025/5/13 11:03:31

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095H135-60°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

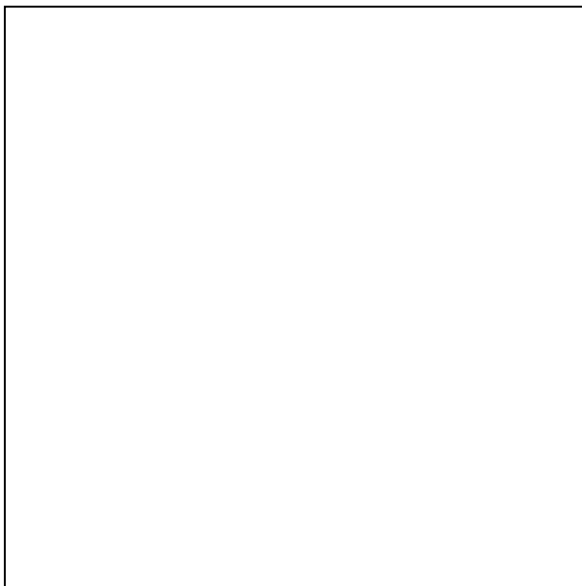
Voltage(V): 219.80 V
Current(A): 0.1840 A
Power(W): 39.57 W
Power Factor: 0.9730
Lamp Luminous Flux: 3842.24

Photometric Results

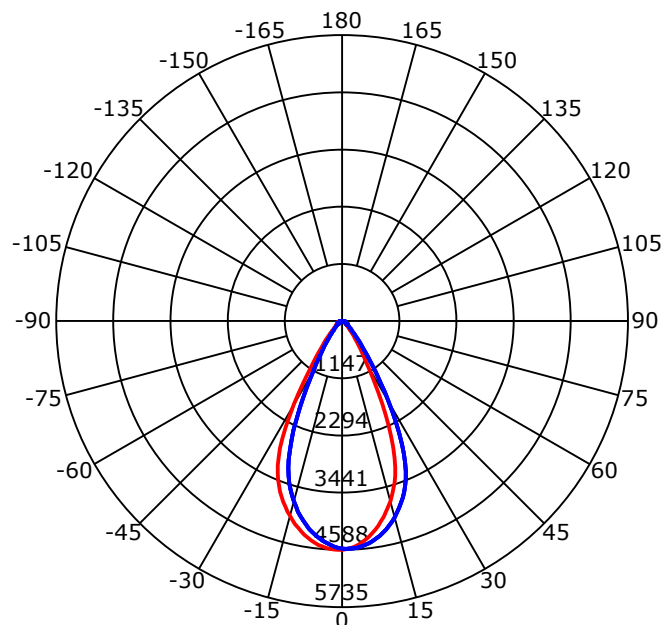
CIE Class: Direct
Luminaire Luminous Flux: 3842.24 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.10 lm/W
Beam Angle(50%) C0-180,C90-270: 52.5,52.6
Field Angle(10%) C0-180,C90-270: 77.6,79.1
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 4587.77 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4587.77 cd
Effective Luminous Flux: 3363.63 lm
ERP(ϕ use)(120deg): 3686.66 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.5 deg,52.6 deg

C0-180 — C90-270 —

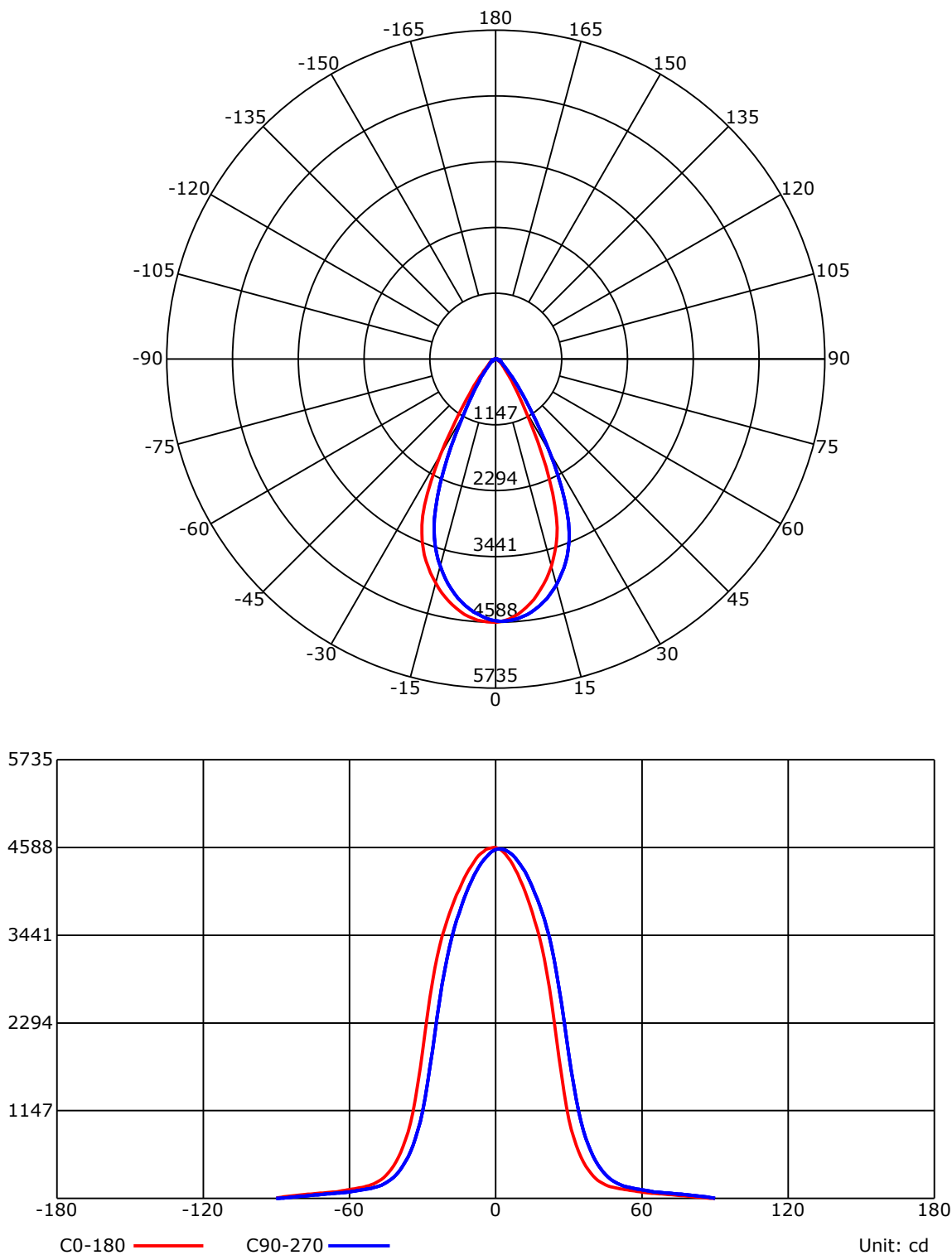
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 11:03:31

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



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 11:03:31

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

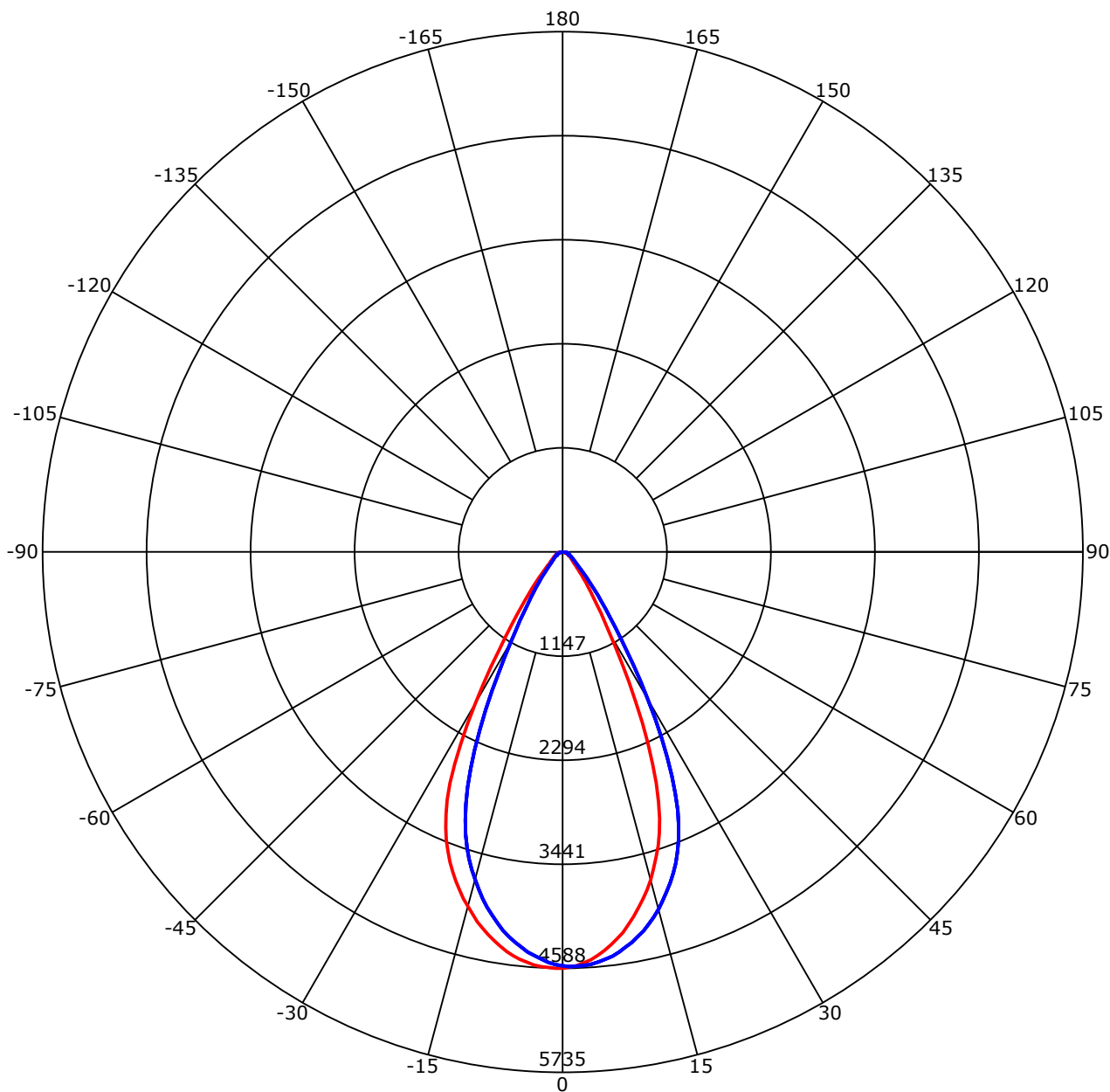
Test Distance: 6.87 m

Remarks:

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Test Time: 2025/5/13 11:03:31

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 11:03:31

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

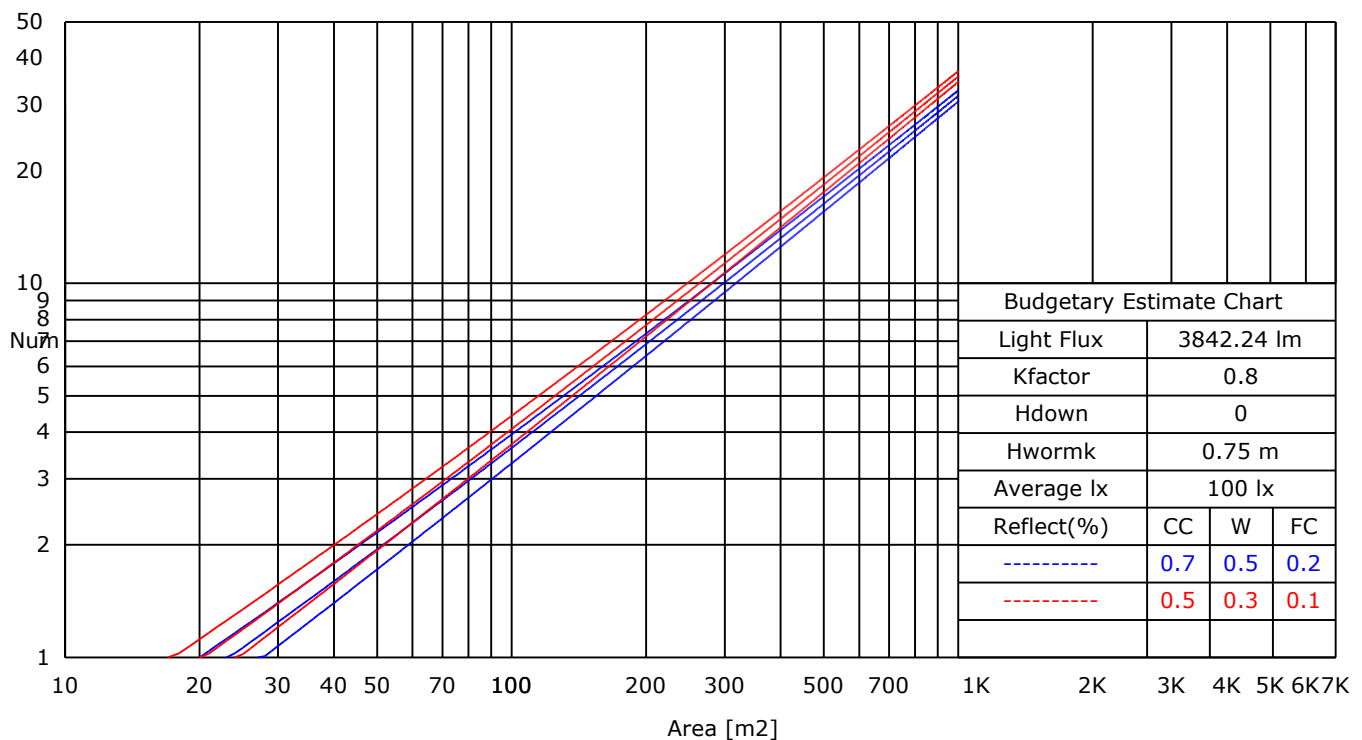
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UTILIZATION FACTORS TABLE

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	1.05	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.85	0.79
2	1.00	0.98	0.97	0.99	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.79	0.76	0.72
4	0.91	0.89	0.88	0.90	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
7	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
8	0.77	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.59
9	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.67	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



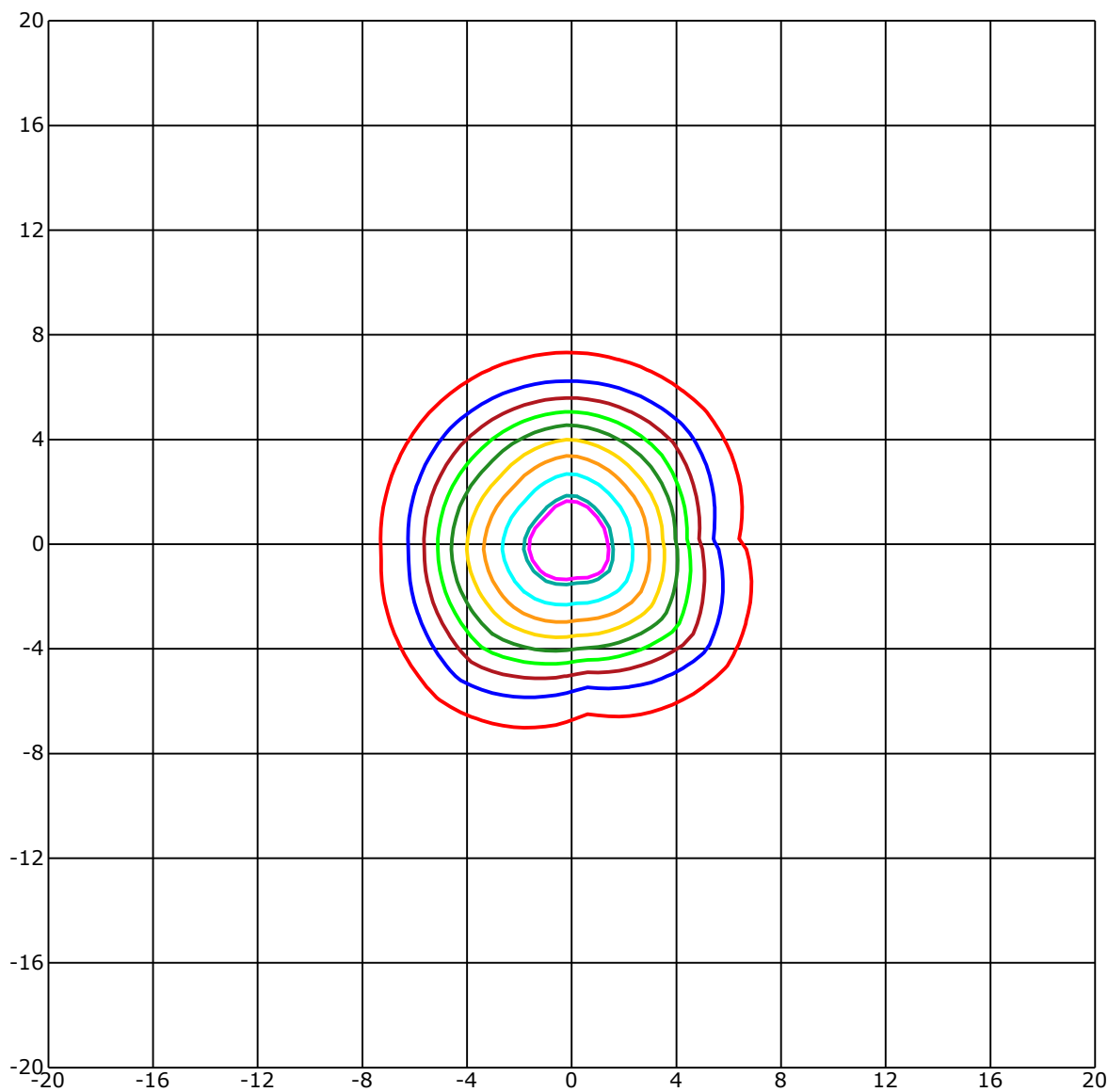
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 11:03:31

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)

42.208(92%Emax)	22.939(50%Emax)
41.29(90%Emax)	18.351(40%Emax)
36.702(80%Emax)	13.763(30%Emax)
32.114(70%Emax)	9.176(20%Emax)
27.527(60%Emax)	4.588(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 11:03:31

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

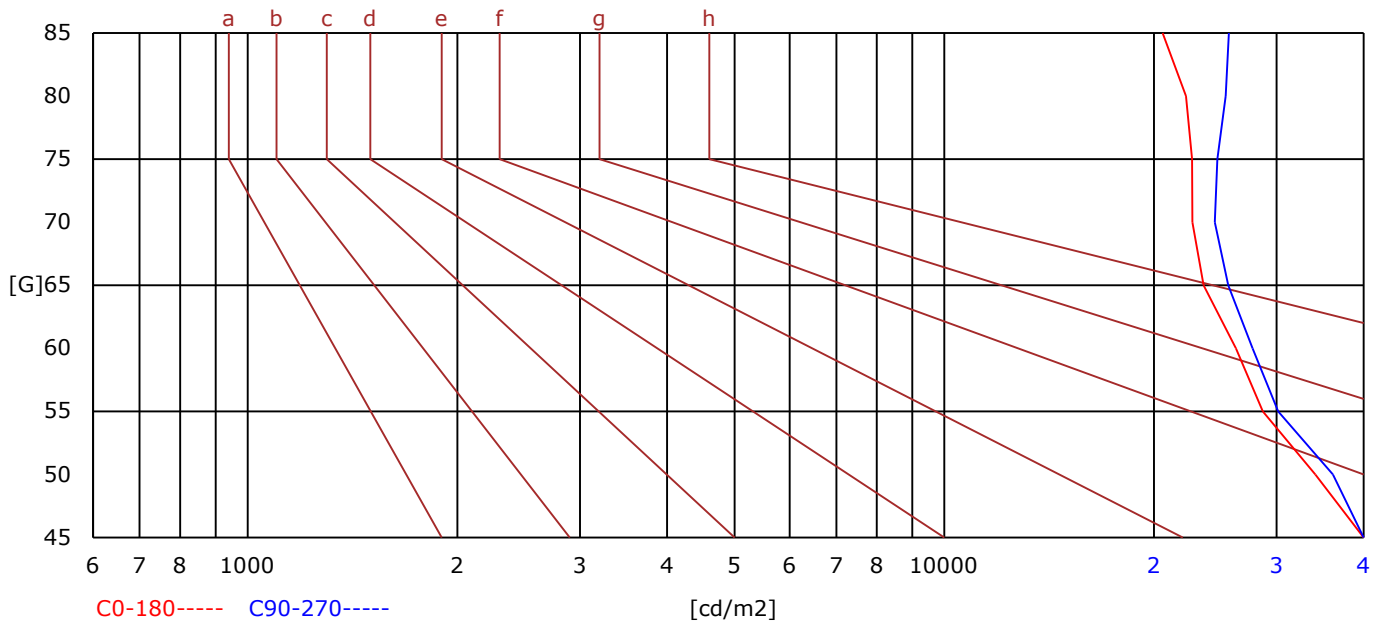
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	46161	34072	28660	26228	23556	22707	22683	22233	20574
C90	49383	36127	30150	27695	25564	24442	24656	25357	25626
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



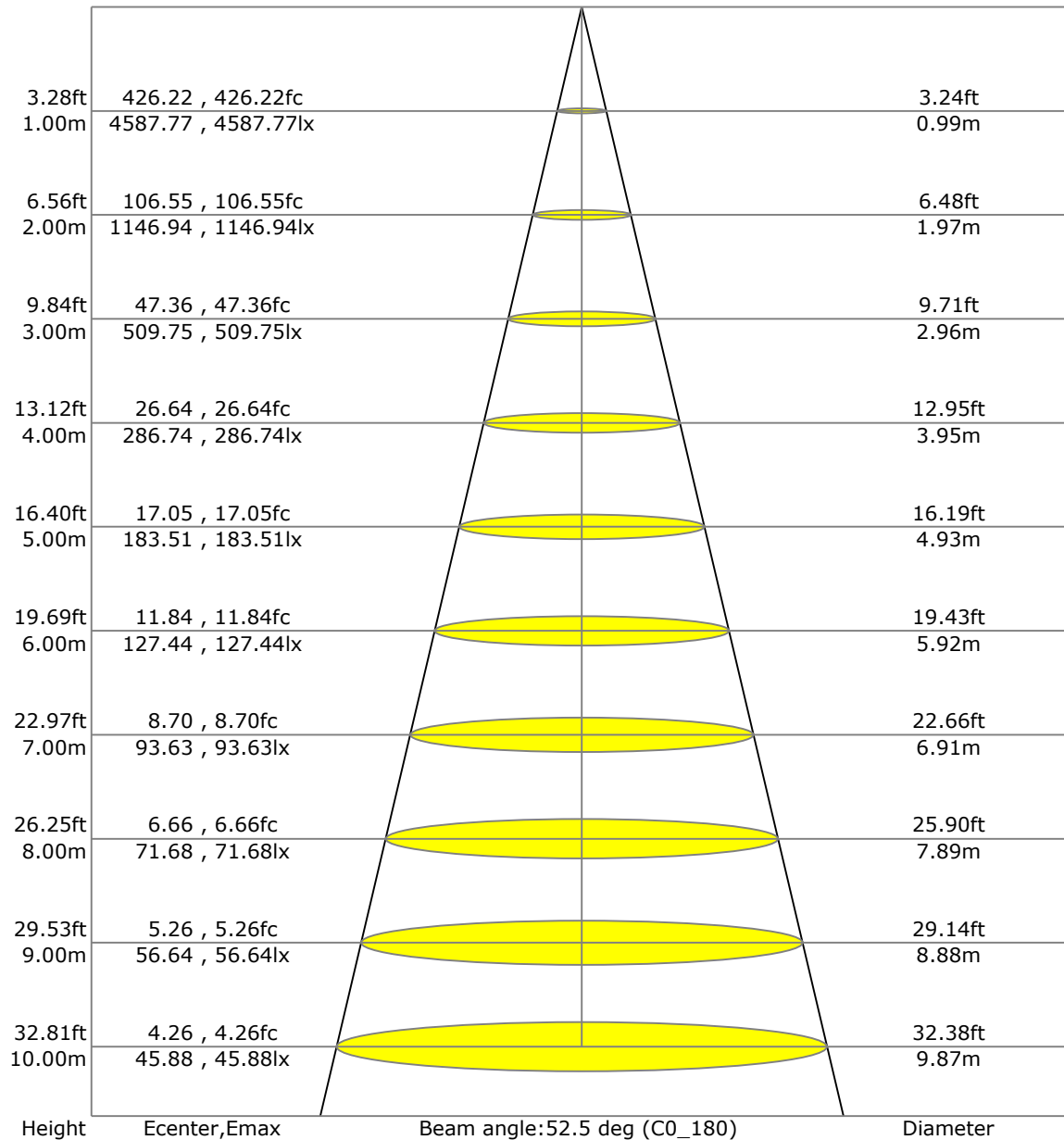
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 11:03:31

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: 2025/5/13 11:03:31

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	14.02	14.07	14.22	14.26	14.50	14.26	14.31	14.46	14.50	14.74
3H	14.05	14.11	14.26	14.30	14.55	14.28	14.33	14.49	14.53	14.77
4H	14.05	14.11	14.27	14.30	14.55	14.28	14.33	14.49	14.52	14.77
6H	14.04	14.10	14.26	14.30	14.55	14.26	14.31	14.48	14.51	14.77
8H	14.03	14.09	14.25	14.29	14.54	14.25	14.30	14.47	14.51	14.76
12H	14.02	14.08	14.24	14.28	14.54	14.24	14.29	14.46	14.50	14.75
4H 2H	14.72	14.77	14.93	14.97	15.22	15.18	15.23	15.39	15.43	15.68
3H	14.87	14.93	15.10	15.13	15.39	15.32	15.37	15.54	15.58	15.83
4H	14.92	14.97	15.14	15.18	15.44	15.35	15.40	15.57	15.61	15.87
6H	14.93	14.98	15.17	15.20	15.46	15.34	15.39	15.58	15.62	15.88
8H	14.92	14.97	15.17	15.20	15.46	15.34	15.38	15.58	15.61	15.88
12H	14.91	14.96	15.16	15.19	15.46	15.32	15.37	15.57	15.60	15.87
8H 4H	14.95	15.01	15.17	15.21	15.46	15.63	15.68	15.84	15.88	16.13
6H	15.34	15.38	15.59	15.62	15.89	16.01	16.06	16.27	16.30	16.57
8H	15.35	15.39	15.61	15.64	15.92	16.01	16.06	16.28	16.30	16.58
12H	15.35	15.39	15.62	15.65	15.93	16.00	16.04	16.27	16.30	16.58
12H 4H	15.35	15.39	15.59	15.62	15.89	16.18	16.23	16.43	16.46	16.73
6H	15.42	15.46	15.68	15.71	15.99	16.26	16.31	16.52	16.55	16.83

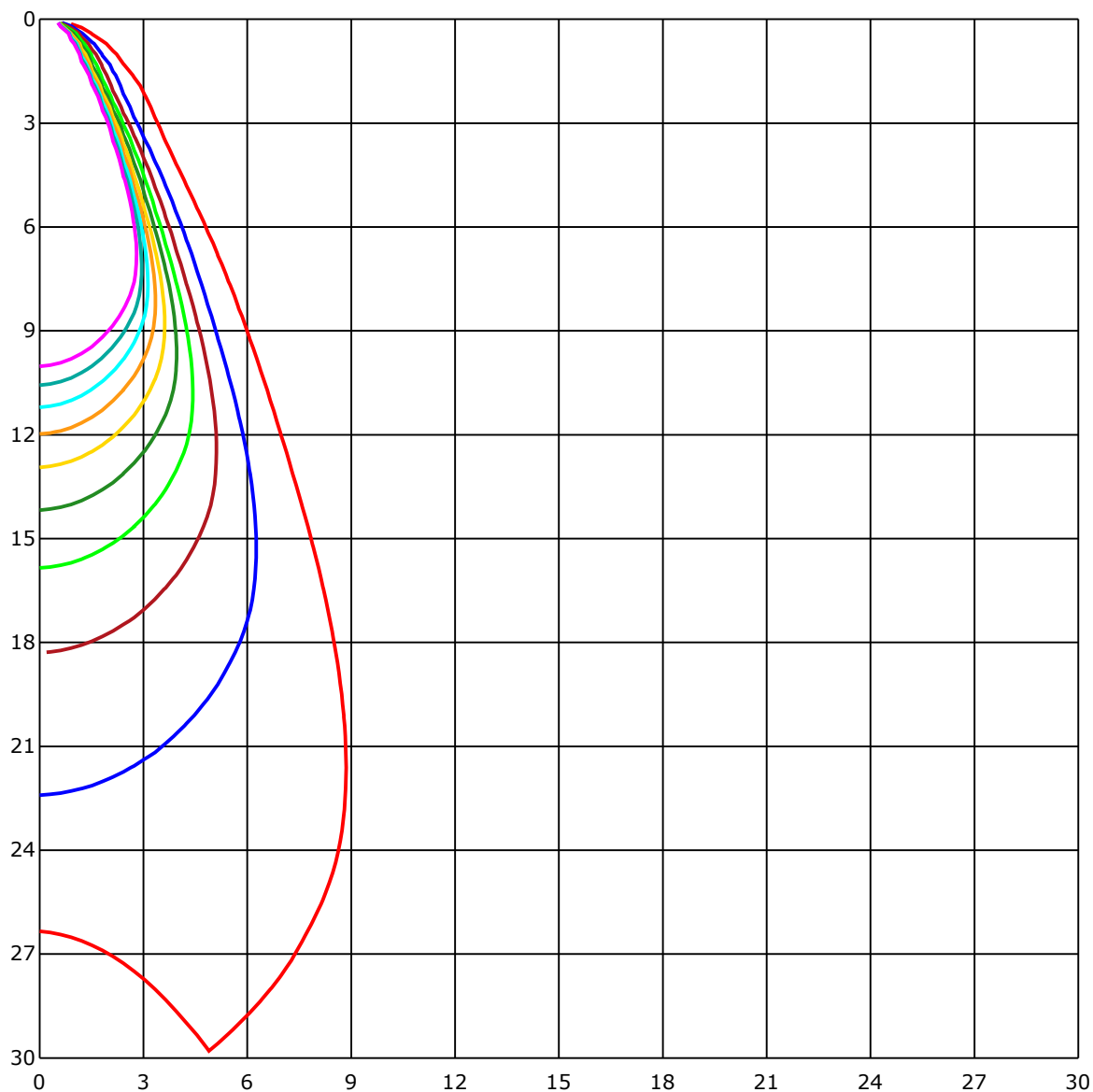
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

45.674	22.837
41.106	18.27
36.539	13.702
31.972	9.135
27.404	4.567

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 11:03:31

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	4587.77	4562.05	4561.11	4573.76	4587.77	4562.05	4561.11	4573.76	4587.77	
G1	4576.78	4553.13	4569.51	4562.62	4587.35	4558.98	4547.14	4581.36	4576.78	
G2	4559.27	4542.65	4566.91	4551.15	4582.06	4551.62	4524.25	4577.96	4559.27	
G3	4533.36	4523.68	4563.61	4532.84	4574.7	4535.43	4492.96	4570.12	4533.36	
G4	4501.88	4499.8	4552.61	4505.13	4562.95	4520.85	4458.83	4547.99	4501.88	
G5	4461.1	4469.5	4535.2	4476.39	4537.32	4496.64	4424.24	4526.42	4461.1	
G6	4414.19	4429.71	4512.07	4437.31	4513.2	4468.74	4378.83	4492.25	4414.19	
G7	4360.95	4380.82	4487.29	4393.23	4482.9	4434.86	4331.35	4453.22	4360.95	
G8	4301.34	4326.63	4452.23	4341.64	4444.49	4396.25	4277.22	4407.53	4301.34	
G9	4244.89	4280.43	4411.59	4289.87	4397.57	4350.37	4219.92	4365.38	4244.89	
G10	4169.0	4197.83	4369.06	4235.78	4349.71	4298.5	4151.91	4310.12	4169.0	
G11	4091.45	4133.46	4319.27	4173.1	4297.23	4247.34	4078.24	4253.62	4091.45	
G12	4010.93	4053.6	4271.04	4104.53	4240.55	4178.2	4003.76	4186.22	4010.93	
G13	3927.25	3980.26	4209.35	4027.93	4181.6	4115.48	3921.12	4116.56	3927.25	
G14	3837.16	3896.62	4145.78	3956.89	4113.3	4045.67	3830.55	4043.55	3837.16	
G15	3740.45	3808.51	4075.69	3876.47	4039.58	3982.24	3733.61	3963.64	3740.45	
G16	3629.49	3719.02	3995.93	3793.59	3972.94	3896.43	3641.05	3891.48	3629.49	
G17	3520.18	3618.63	3914.65	3699.86	3893.08	3822.29	3533.21	3791.99	3520.18	
G18	3405.35	3520.65	3833.47	3607.26	3811.62	3738.33	3417.53	3704.53	3405.35	
G19	3275.23	3407.81	3741.82	3502.44	3727.33	3645.87	3289.34	3604.66	3275.23	
G20	3125.38	3291.61	3646.9	3409.41	3635.53	3547.84	3142.32	3504.7	3125.38	
G21	2947.49	3180.46	3534.67	3296.14	3533.63	3447.78	2981.0	3394.87	2947.49	
G22	2749.03	3047.17	3413.56	3180.03	3425.79	3348.72	2797.36	3288.68	2749.03	
G23	2539.43	2920.21	3271.31	3061.66	3300.24	3234.69	2595.12	3165.4	2539.43	
G24	2306.94	2776.45	3115.18	2940.98	3166.49	3111.17	2389.91	3044.25	2306.94	
G25	2071.61	2635.0	2938.01	2800.43	3013.48	2985.91	2161.24	2909.74	2071.61	
G26	1834.36	2480.06	2748.04	2660.16	2834.55	2860.27	1933.7	2773.9	1834.36	
G27	1602.76	2323.79	2538.82	2506.86	2624.24	2724.39	1712.16	2628.87	1602.76	
G28	1386.69	2160.53	2319.4	2351.87	2402.09	2574.17	1501.76	2473.59	1386.69	
G29	1196.3	1992.75	2098.28	2186.21	2173.75	2424.41	1312.73	2312.41	1196.3	
G30	1033.71	1823.12	1878.2	2011.96	1934.32	2260.02	1144.15	2141.42	1033.71	
G31	902.36	1645.76	1670.53	1830.39	1708.06	2099.98	1003.6	1962.4	902.36	
G32	791.92	1470.84	1472.69	1654.44	1489.87	1928.09	884.52	1784.04	791.92	
G33	695.07	1302.07	1294.28	1476.41	1295.32	1762.52	780.31	1603.28	695.07	
G34	611.2	1135.18	1137.78	1301.22	1125.6	1592.33	688.04	1421.67	611.2	
G35	538.89	974.47	1002.04	1126.59	985.28	1427.9	609.5	1236.04	538.89	
G36	474.9	831.14	884.33	961.4	867.24	1247.23	541.4	1059.05	474.9	

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	420.15	708.61	783.8	811.27	767.47	1082.79	482.31	900.23	420.15	
G38	371.86	603.13	694.83	684.12	679.16	929.73	429.44	764.02	371.86	
G39	329.1	517.66	617.95	581.04	602.14	795.46	381.87	646.27	329.1	
G40	291.68	447.52	548.9	497.69	534.17	678.27	341.23	551.64	291.68	
G41	260.2	388.48	488.35	427.18	475.6	584.06	305.18	472.49	260.2	
G42	233.96	339.77	436.38	370.02	422.65	503.17	274.12	409.15	233.96	
G43	212.57	299.79	389.89	325.05	376.58	438.6	247.78	357.71	212.57	
G44	193.7	267.56	348.55	288.51	336.42	384.04	225.37	317.26	193.7	
G45	178.22	241.41	311.88	258.26	302.01	341.52	205.21	284.64	178.22	
G46	165.57	220.46	280.63	234.71	271.15	305.69	187.99	258.26	165.57	
G47	154.95	202.99	253.31	214.79	246.04	276.05	172.55	235.84	154.95	
G48	145.98	187.04	230.51	198.27	225.32	250.62	160.42	217.2	145.98	
G49	138.62	174.02	211.21	183.64	207.67	230.79	150.27	201.96	138.62	
G50	131.82	161.98	194.5	171.75	192.28	213.8	141.54	188.6	131.82	
G51	126.06	151.93	180.62	160.19	179.77	199.45	134.04	176.8	126.06	
G52	120.64	142.87	168.87	151.17	169.06	185.53	127.24	166.61	120.64	
G53	115.73	135.03	158.44	142.11	159.48	173.83	121.01	157.31	115.73	
G54	110.58	127.62	149.94	134.75	151.17	164.01	115.87	149.24	110.58	
G55	106.1	121.58	142.16	127.9	144.56	154.43	110.3	142.06	106.1	
G56	101.1	115.73	135.36	122.1	138.1	146.26	105.53	135.64	101.1	
G57	96.52	110.68	129.04	116.81	131.77	139.28	100.29	129.7	96.52	
G58	91.47	105.77	122.9	111.81	125.97	132.95	95.48	124.69	91.47	
G59	86.61	101.19	117.1	107.18	120.68	127.34	90.62	119.13	86.61	
G60	81.51	96.99	111.9	102.42	115.63	121.82	85.85	114.17	81.51	
G61	75.99	92.03	106.81	97.84	110.35	116.62	80.28	109.31	75.99	
G62	72.54	87.41	101.76	93.36	105.2	111.48	75.89	104.87	72.54	
G63	70.75	82.78	96.38	88.82	100.15	106.62	73.44	99.73	70.75	
G64	68.2	78.25	90.33	84.39	94.68	101.47	71.27	94.91	68.2	
G65	66.03	73.63	85.71	79.9	88.92	96.56	68.67	89.86	66.03	
G66	63.57	69.1	82.69	75.33	85.71	91.61	66.12	85.28	63.57	
G67	60.98	65.56	80.05	70.75	82.45	86.61	63.62	80.05	60.98	
G68	58.38	62.91	77.26	67.21	79.76	81.75	61.17	76.65	58.38	
G69	56.12	60.32	74.52	64.47	77.21	78.21	58.52	73.63	56.12	
G70	53.52	57.44	71.88	61.83	74.24	74.95	56.16	70.65	53.52	
G71	50.97	55.27	69.19	59.09	71.69	72.07	53.52	67.54	50.97	
G72	47.76	52.2	66.45	56.4	68.86	68.62	50.88	64.52	47.76	
G73	45.21	48.99	63.57	53.33	66.22	65.79	47.53	61.4	45.21	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 11:03:31

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 Interval: 45.0 Deg

Temperature: 25

Test Date: 2025/

G Interval: 1.0 Deg

Humidity: 60

Remarks: