

Report No.:

Test Time: 2025/2/11 18:38:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT120H140-24°-40W
Lamp Type:
Luminous Width: 111 mm
Luminous Length: 111 mm
Luminous Height: 105 mm

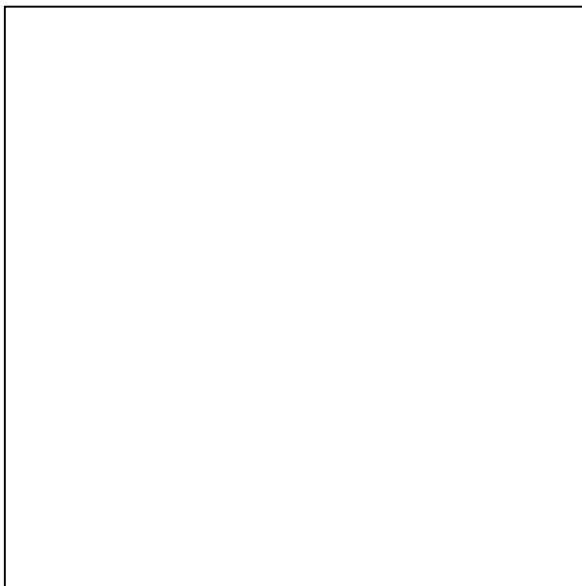
Voltage(V): 219.10 V
Current(A): 0.1820 A
Power(W): 38.97 W
Power Factor: 0.9730
Lamp Luminous Flux: 3328.65

Photometric Results

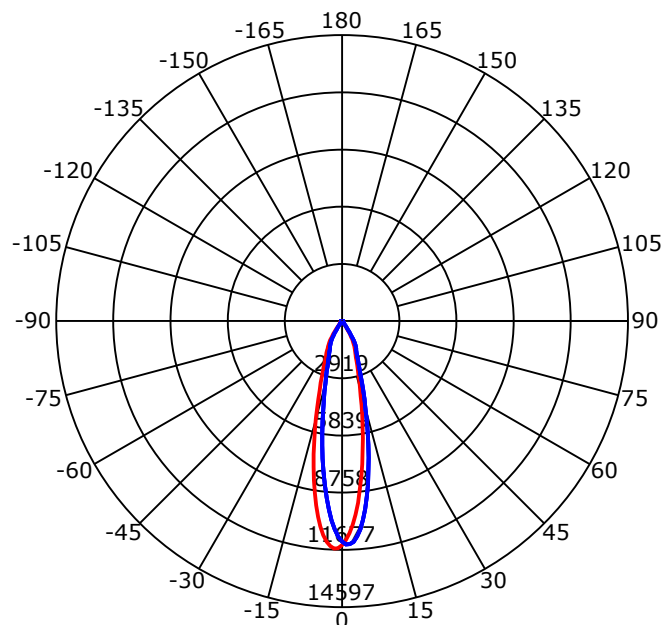
CIE Class: Direct
Luminaire Luminous Flux: 3328.654 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.41 lm/W
Beam Angle(50%) C0-180,C90-270: 24.3,23.3
Field Angle(10%) C0-180,C90-270: 60.1,60.0
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 11677.32 cd
Max.Intensity Angle: C=315 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11429.96 cd
Effective Luminous Flux: 2788.54 lm
ERP(ϕ use)(120deg): 3305.57 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.3 deg,23.3 deg

C0-180 — C90-270 —

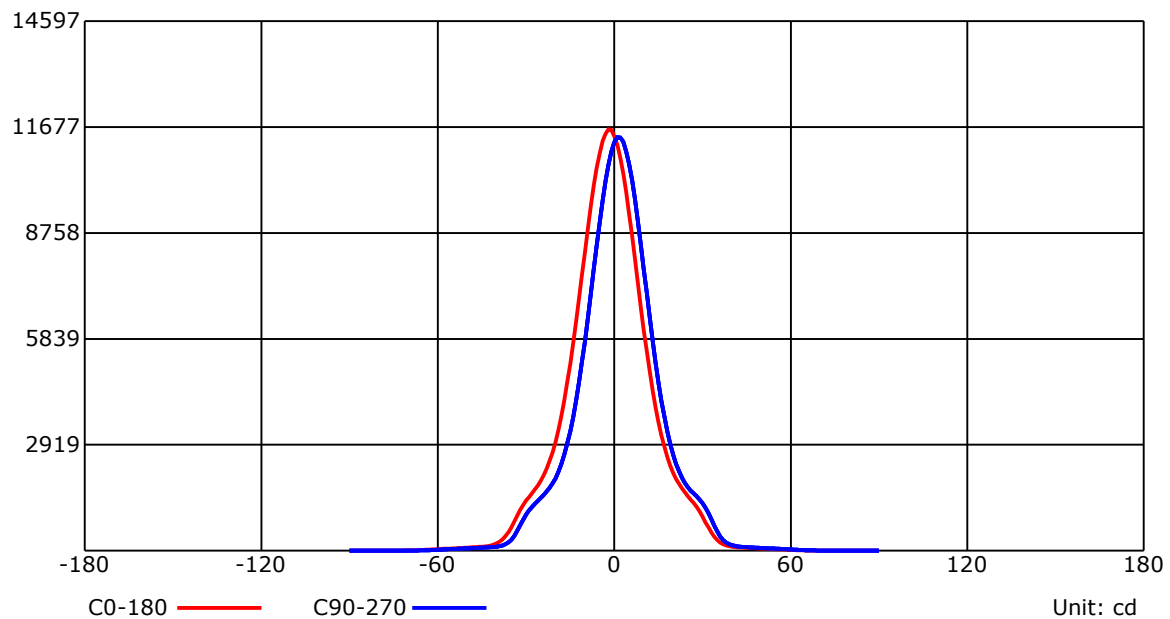
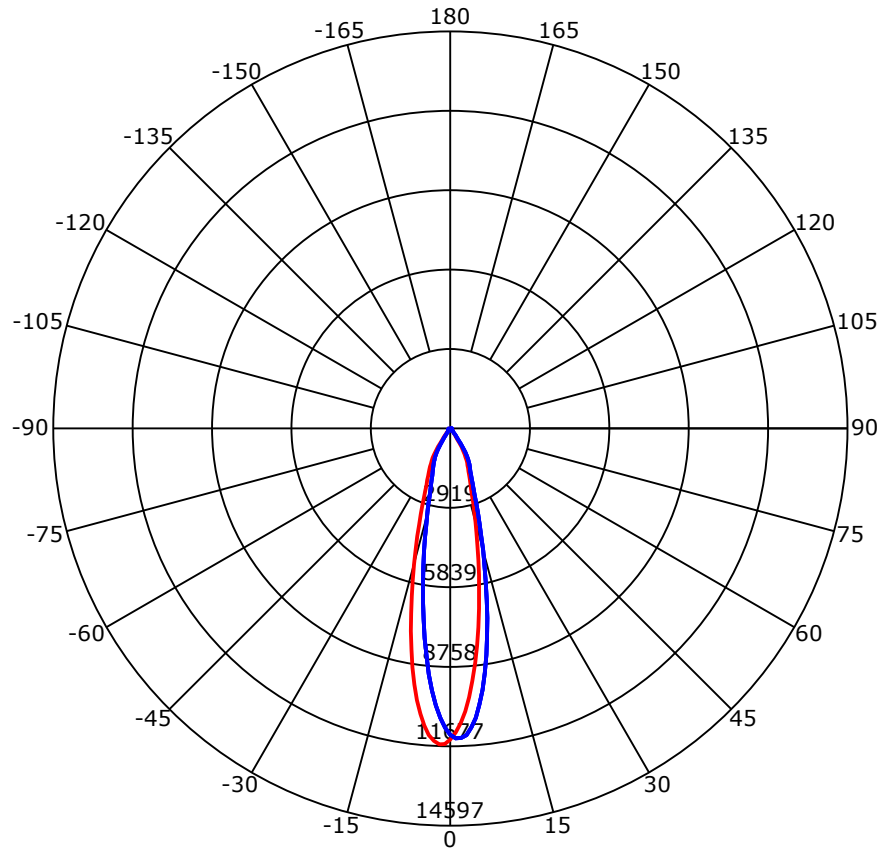
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:38:25

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



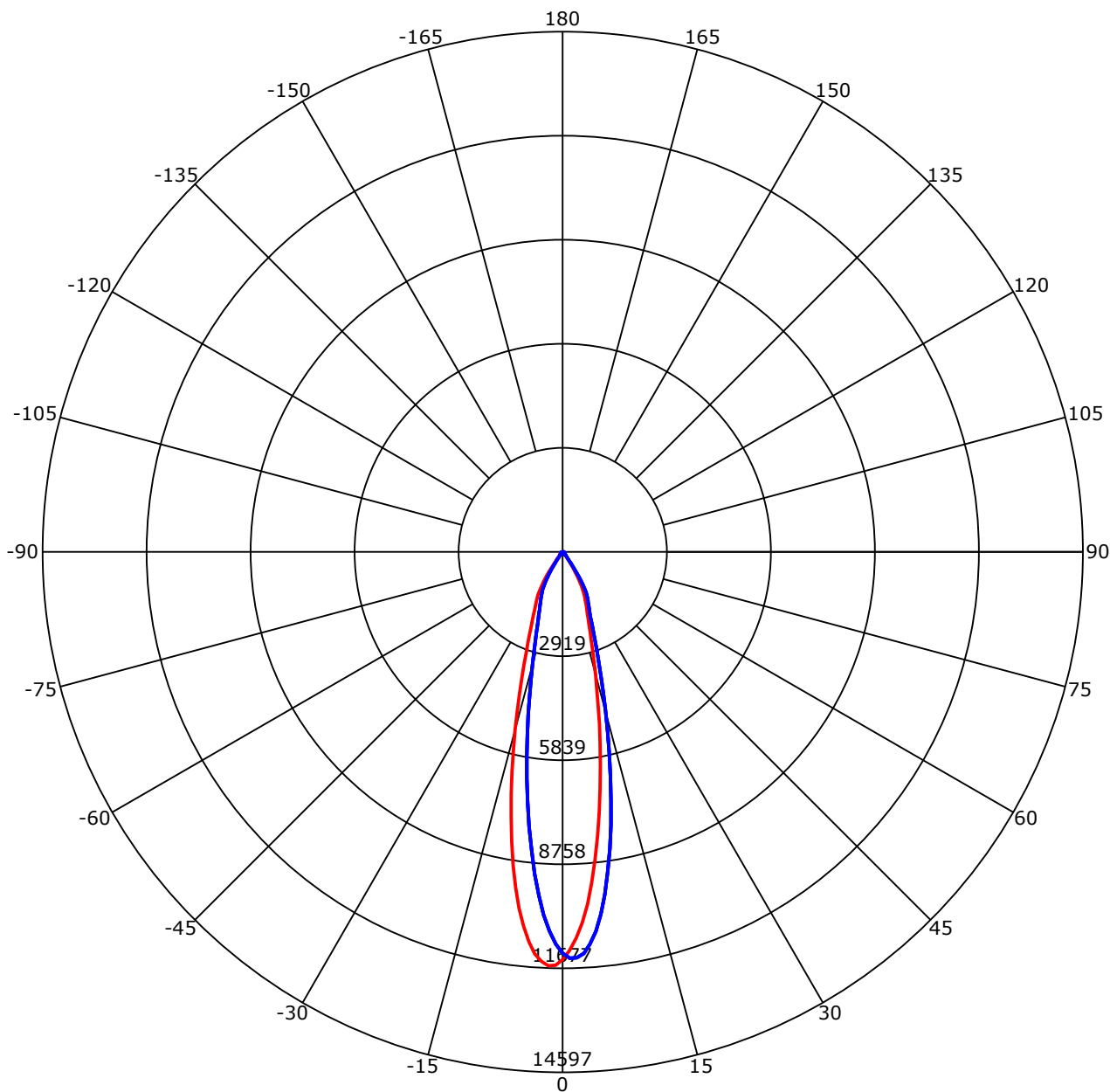
C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:38:25

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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: 2025/2/11 18:38:25

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

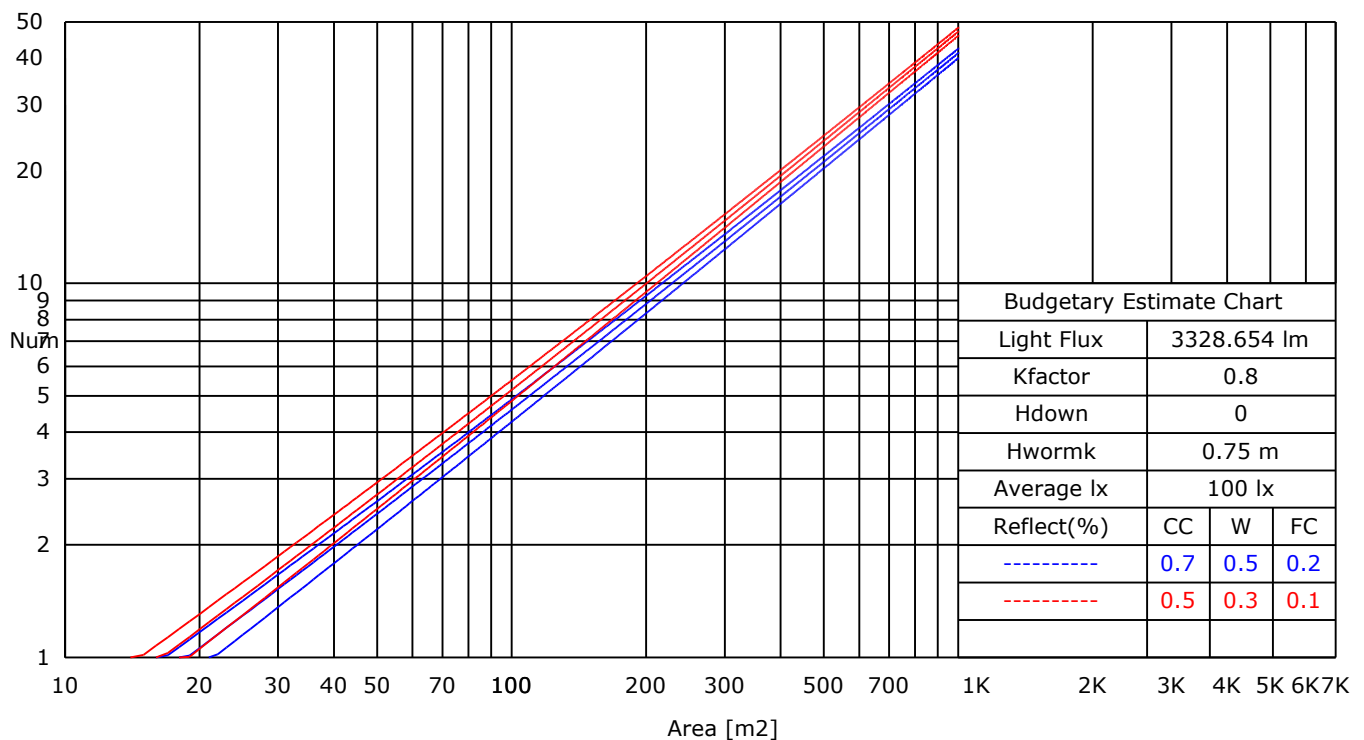
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UTILIZATION FACTORS TABLE

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	0.86	0.89	0.86	0.83	0.85	0.82	0.78	0.80	0.76	0.73	0.68
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.82	0.79	0.75	0.78	0.74	0.70	0.65
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	0.63
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	0.70	0.66	0.62
5	0.80	0.78	0.77	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	0.74	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	0.72	0.75	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.57
8	0.73	0.72	0.71	0.73	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
9	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.68	0.64	0.61	0.65	0.61	0.58	0.54
10	0.70	0.68	0.68	0.69	0.67	0.66	0.68	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



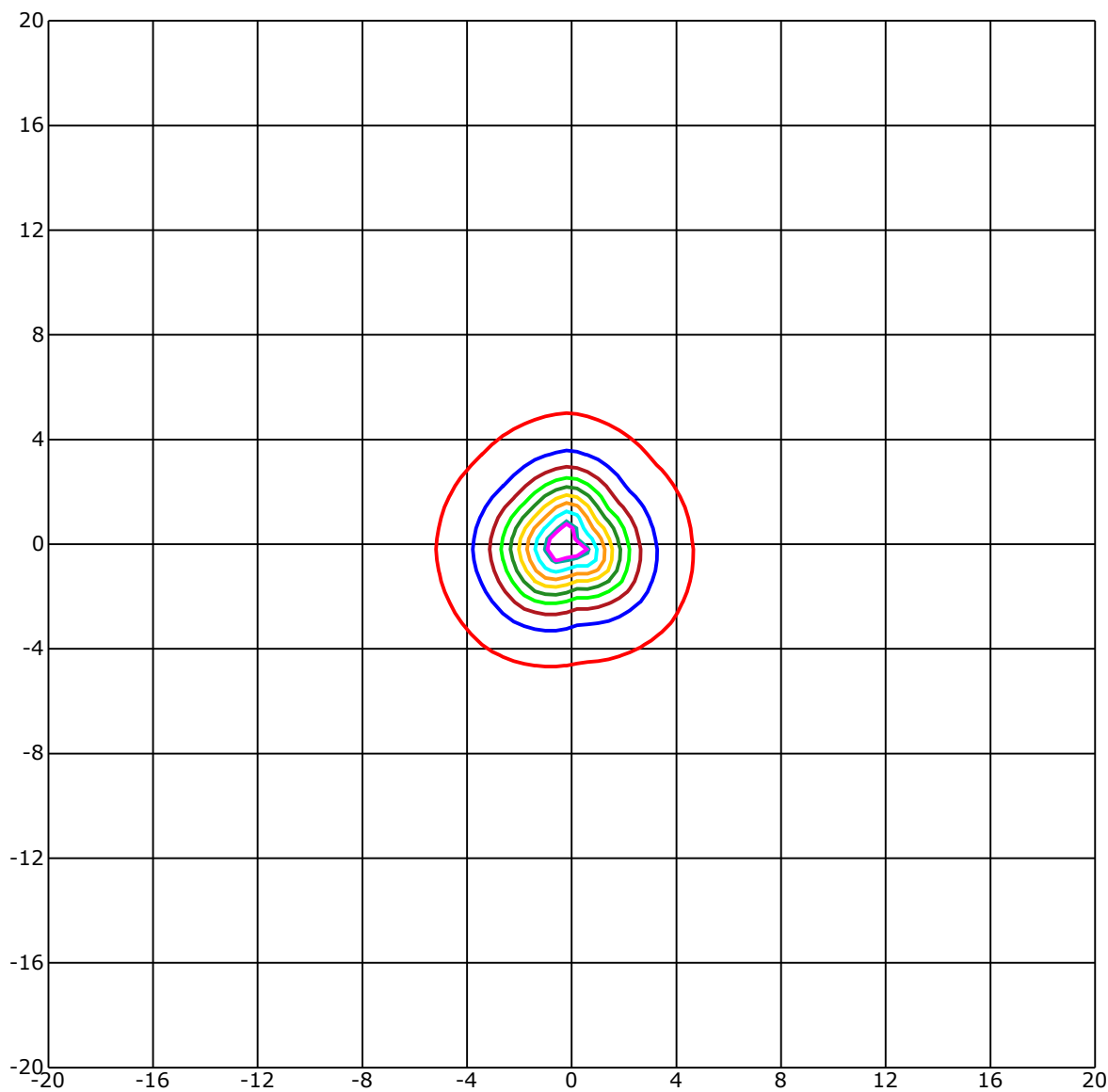
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:38:25

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



107.431(92%Emax)	58.387(50%Emax)
105.096(90%Emax)	46.709(40%Emax)
93.419(80%Emax)	35.032(30%Emax)
81.741(70%Emax)	23.355(20%Emax)
70.064(60%Emax)	11.677(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:38:25

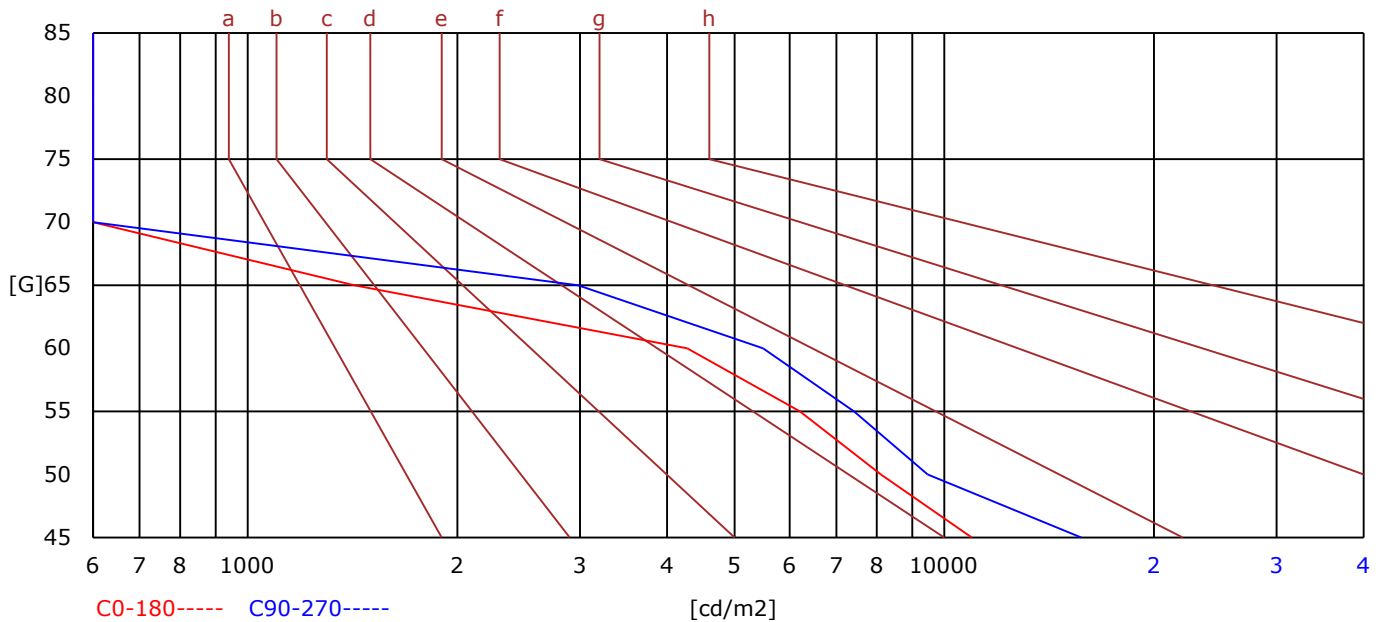
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10959	8111	6204	4275	1423	101	0	0	0
C90	15732	9463	7420	5493	2982	392	0	0	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



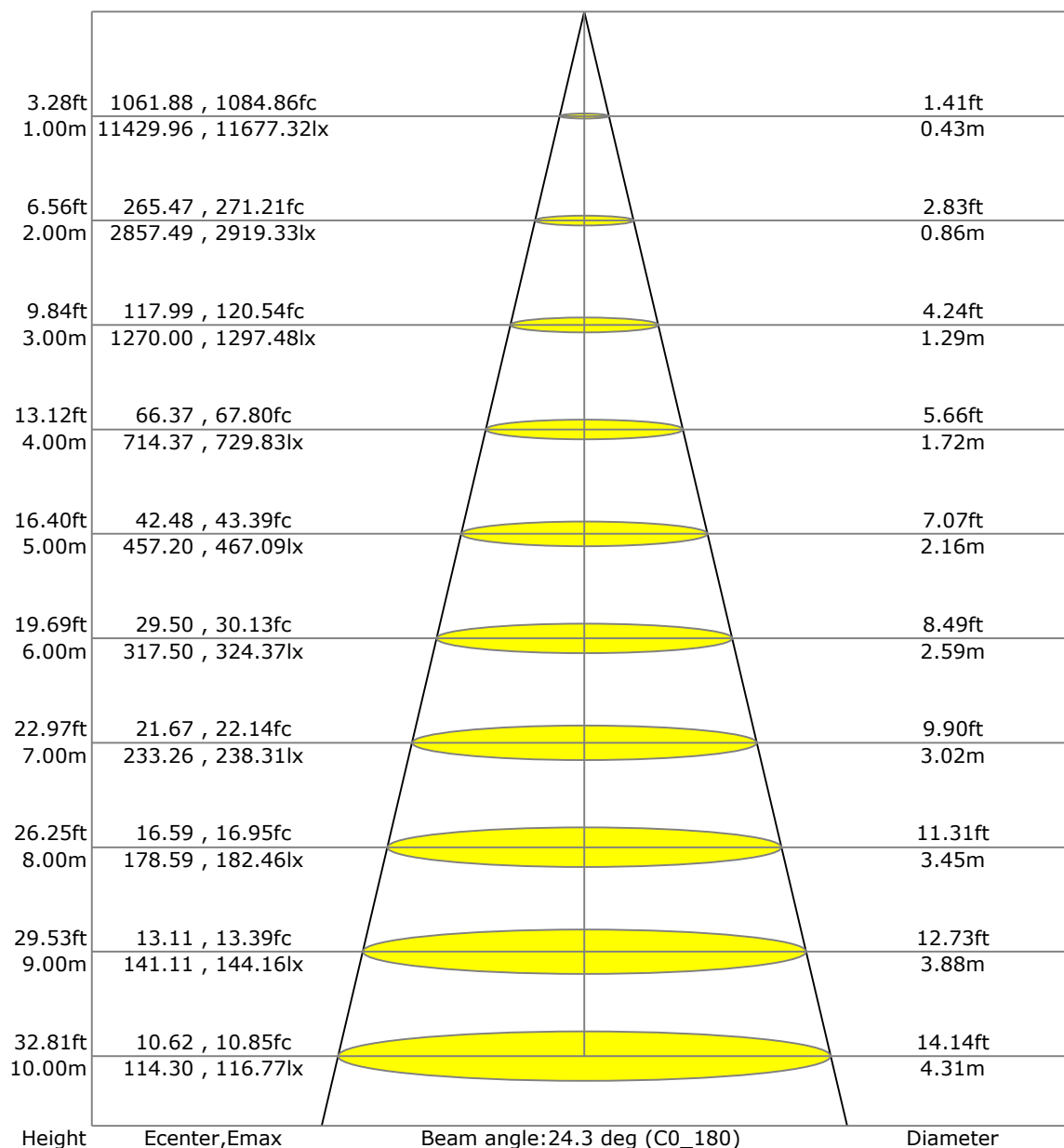
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:38:25

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: 2025/2/11 18:38:25

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	7.44	7.50	7.64	7.68	7.93	7.58	7.63	7.78	7.82	8.06
3H	7.41	7.47	7.62	7.67	7.91	7.55	7.61	7.76	7.80	8.05
4H	7.40	7.46	7.61	7.65	7.90	7.54	7.59	7.75	7.79	8.04
6H	7.38	7.44	7.60	7.64	7.89	7.52	7.58	7.74	7.78	8.03
8H	7.37	7.43	7.59	7.64	7.89	7.51	7.57	7.73	7.77	8.03
12H	7.37	7.42	7.59	7.63	7.89	7.50	7.56	7.72	7.77	8.02
4H 2H	7.41	7.47	7.62	7.67	7.92	7.58	7.64	7.79	7.84	8.09
3H	7.38	7.44	7.60	7.65	7.90	7.55	7.61	7.77	7.82	8.07
4H	7.36	7.42	7.59	7.63	7.89	7.53	7.59	7.76	7.80	8.06
6H	7.34	7.39	7.58	7.62	7.88	7.51	7.57	7.75	7.79	8.05
8H	7.32	7.38	7.57	7.61	7.87	7.49	7.55	7.74	7.78	8.05
12H	7.31	7.37	7.56	7.60	7.87	7.48	7.54	7.73	7.77	8.04
8H 4H	7.39	7.45	7.61	7.65	7.90	7.56	7.62	7.78	7.82	8.07
6H	7.30	7.35	7.55	7.59	7.86	7.47	7.52	7.72	7.76	8.03
8H	7.28	7.33	7.54	7.58	7.86	7.45	7.50	7.71	7.75	8.03
12H	7.26	7.32	7.54	7.57	7.85	7.44	7.49	7.71	7.74	8.02
12H 4H	7.31	7.37	7.56	7.60	7.87	7.48	7.54	7.73	7.77	8.04
6H	7.28	7.33	7.54	7.58	7.86	7.45	7.50	7.71	7.75	8.03

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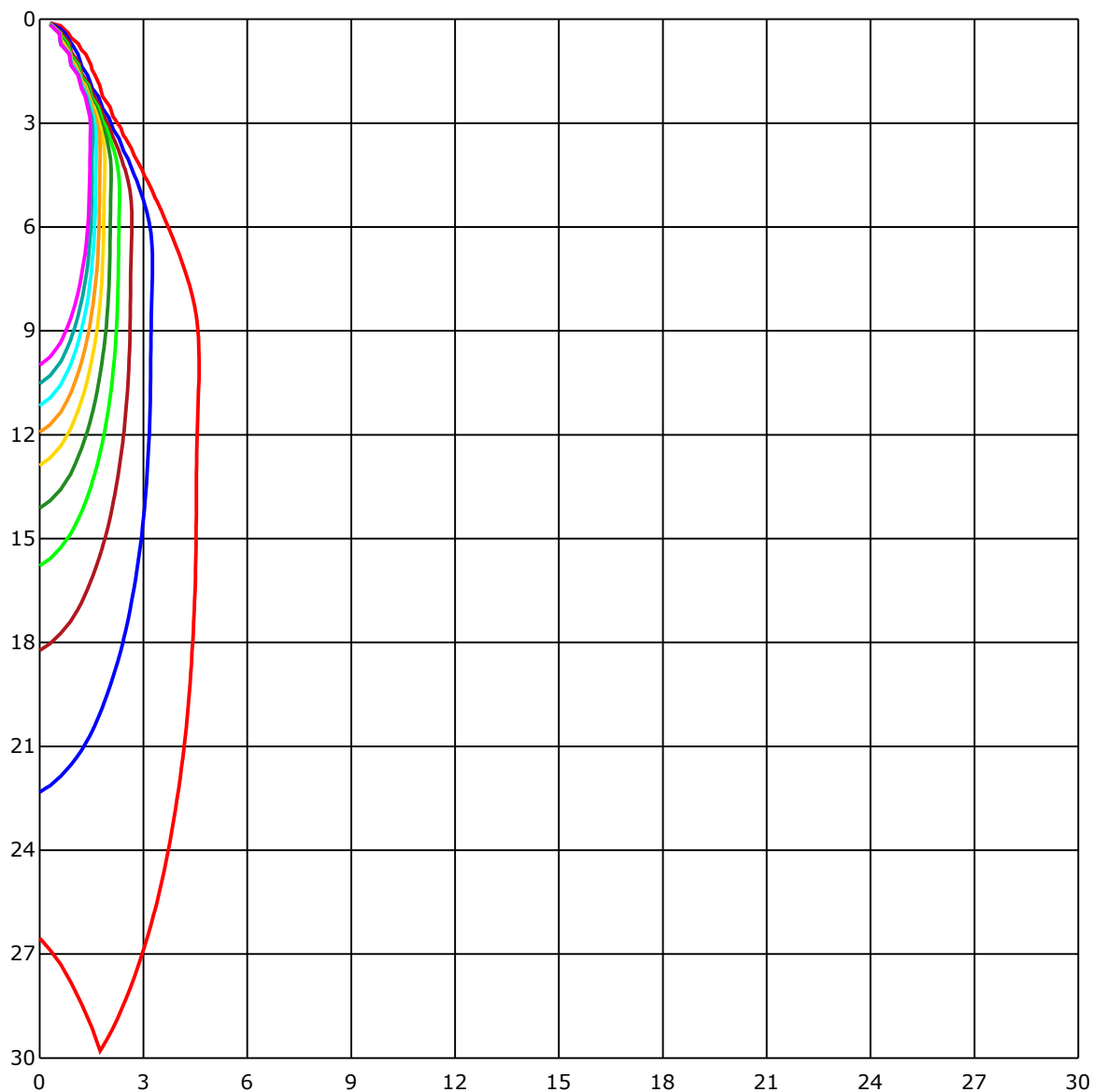
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

114.67	57.335
103.203	45.868
91.736	34.401
80.269	22.934
68.802	11.467

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:38:25

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	11429.96	10925.94	11251.98	11677.32	11429.96	10925.94	11251.98	11677.32	11429.96	
G1	11179.77	10588.25	11394.46	11608.13	11594.77	11062.62	11002.73	11607.61	11179.77	
G2	10829.71	10212.89	11387.67	11415.14	11616.67	11133.8	10636.34	11407.87	10829.71	
G3	10417.39	9708.31	11279.92	11110.1	11493.11	11107.13	10193.77	11136.06	10417.39	
G4	9910.31	9154.41	11019.67	10715.54	11298.56	10937.6	9656.11	10723.32	9910.31	
G5	9312.61	8565.44	10679.1	10222.8	10963.08	10661.68	9064.59	10242.01	9312.61	
G6	8674.65	7927.48	10210.72	9647.94	10545.39	10305.49	8397.56	9685.56	8674.65	
G7	8029.7	7271.67	9680.23	9035.99	10062.95	9829.98	7760.11	9082.76	8029.7	
G8	7373.05	6632.39	9076.25	8394.91	9502.58	9297.74	7091.71	8416.34	7373.05	
G9	6707.58	6017.6	8435.17	7754.4	8895.77	8723.4	6426.57	7757.42	6707.58	
G10	6083.54	5436.23	7771.63	7066.04	8253.04	8119.99	5792.38	7067.26	6083.54	
G11	5492.26	4859.49	7097.28	6411.04	7589.26	7469.62	5203.65	6425.76	5492.26	
G12	4943.83	4351.13	6435.68	5778.84	6950.55	6833.17	4646.02	5786.67	4943.83	
G13	4420.6	3893.08	5804.09	5196.14	6319.81	6198.56	4143.56	5204.35	4420.6	
G14	3954.02	3476.9	5191.09	4655.27	5727.96	5605.91	3685.75	4655.31	3954.02	
G15	3552.27	3111.5	4642.9	4162.01	5159.57	5041.05	3297.03	4166.64	3552.27	
G16	3186.03	2789.01	4137.14	3719.82	4633.65	4529.49	2948.72	3722.04	3186.03	
G17	2859.09	2510.73	3687.82	3318.56	4144.64	4053.03	2649.63	3332.05	2859.09	
G18	2583.28	2280.22	3288.35	2968.5	3720.2	3641.15	2391.66	2993.84	2583.28	
G19	2345.31	2084.88	2940.93	2677.91	3334.89	3247.34	2182.67	2692.91	2345.31	
G20	2145.85	1925.87	2646.52	2424.74	3000.59	2919.98	2001.05	2439.37	2145.85	
G21	1981.42	1797.82	2391.0	2218.73	2718.78	2626.13	1860.27	2225.66	1981.42	
G22	1837.66	1685.54	2180.69	2036.69	2471.18	2390.38	1736.14	2044.71	1837.66	
G23	1712.92	1582.61	2008.09	1891.94	2257.33	2188.9	1634.85	1902.22	1712.92	
G24	1608.0	1491.66	1867.63	1765.26	2086.48	2019.18	1540.04	1768.56	1608.0	
G25	1498.27	1406.23	1751.52	1660.91	1931.68	1880.94	1457.16	1657.65	1498.27	
G26	1402.98	1324.53	1653.4	1560.05	1804.2	1759.69	1375.13	1552.35	1402.98	
G27	1307.87	1239.63	1570.81	1473.06	1684.93	1655.62	1293.86	1457.44	1307.87	
G28	1203.38	1156.37	1489.63	1383.15	1578.45	1561.65	1206.07	1368.66	1203.38	
G29	1080.1	1065.38	1406.94	1298.29	1477.55	1473.58	1113.47	1279.79	1080.1	
G30	934.45	966.31	1308.3	1209.23	1383.62	1388.77	1003.31	1188.84	934.45	
G31	782.76	862.38	1181.95	1121.63	1262.9	1296.45	862.0	1094.45	782.76	
G32	634.8	759.02	1027.95	1021.72	1123.71	1205.41	702.43	987.08	634.8	
G33	494.62	655.0	858.13	920.1	965.37	1106.44	550.93	882.91	494.62	
G34	378.52	558.1	682.89	810.75	803.48	1001.14	409.39	774.45	378.52	
G35	290.73	464.04	527.94	707.06	649.76	892.82	304.33	675.72	290.73	
G36	226.31	387.72	393.29	609.26	515.34	779.5	229.09	580.85	226.31	

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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	179.21	322.54	295.45	517.8	399.9	669.87	181.09	492.41	179.21	
G38	146.74	268.36	226.12	431.14	313.67	571.41	145.79	413.78	146.74	
G39	124.08	225.55	180.72	360.68	249.62	481.88	124.69	351.99	124.08	
G40	110.77	192.14	149.28	301.26	201.63	403.49	110.35	299.04	110.77	
G41	99.59	161.79	130.69	254.44	168.73	338.12	103.36	256.89	99.59	
G42	93.87	140.79	118.13	214.84	145.37	286.34	96.19	221.02	93.87	
G43	88.02	120.97	109.26	183.36	130.03	244.39	92.08	194.26	88.02	
G44	83.49	107.04	102.18	159.53	121.3	209.93	86.28	170.0	83.49	
G45	77.92	95.48	97.13	137.06	112.14	182.89	82.88	151.03	77.92	
G46	74.38	86.89	91.89	119.13	105.39	162.55	78.16	135.36	74.38	
G47	70.37	79.48	87.88	104.78	99.3	144.14	75.61	124.6	70.37	
G48	66.83	73.01	82.97	92.88	95.57	130.83	71.13	113.41	66.83	
G49	62.54	68.91	79.34	84.2	89.49	120.35	67.73	104.59	62.54	
G50	59.42	64.23	75.28	74.95	84.72	111.67	64.28	97.74	59.42	
G51	55.65	59.04	71.5	69.0	80.33	104.12	61.4	92.88	55.65	
G52	52.2	55.6	67.44	64.42	75.7	97.79	57.25	86.75	52.2	
G53	48.99	51.07	64.75	59.89	71.17	91.23	53.95	82.92	48.99	
G54	45.92	47.76	59.75	55.98	68.25	86.37	49.46	77.17	45.92	
G55	41.63	43.85	56.4	52.44	63.57	81.46	46.72	72.02	41.63	
G56	38.56	41.11	51.87	48.19	59.14	76.98	43.04	67.77	38.56	
G57	34.41	36.34	48.61	44.98	54.61	71.6	38.84	64.33	34.41	
G58	30.91	33.37	44.27	41.25	50.93	67.26	35.07	59.56	30.91	
G59	26.76	29.36	40.31	38.42	47.24	62.39	32.42	56.31	26.76	
G60	22.65	26.34	36.11	33.84	43.23	59.85	27.61	52.11	22.65	
G61	17.89	22.18	32.19	30.39	38.65	54.04	23.98	48.66	17.89	
G62	13.45	18.93	27.14	26.81	34.5	50.26	19.68	43.85	13.45	
G63	9.53	15.43	22.51	23.22	29.92	46.82	15.43	41.11	9.53	
G64	7.17	12.13	17.13	18.97	25.53	43.14	10.57	36.29	7.17	
G65	5.19	7.41	13.36	15.53	19.73	39.03	9.06	32.75	5.19	
G66	4.58	4.72	10.67	11.42	16.75	35.68	6.84	28.22	4.58	
G67	2.31	2.45	9.16	7.74	13.73	31.39	6.14	24.45	2.31	
G68	2.17	1.27	7.88	4.34	12.84	27.28	3.87	20.96	2.17	
G69	0.33	0.52	6.37	2.88	10.05	24.16	3.07	17.42	0.33	
G70	0.0	0.42	4.15	1.65	9.77	21.29	2.31	15.15	0.0	
G71	0.0	0.0	3.68	0.19	7.32	16.8	1.13	13.12	0.0	
G72	0.0	0.0	3.26	0.0	6.32	14.21	1.11	11.61	0.0	
G73	0.0	0.0	2.83	0.0	6.04	12.27	1.09	10.9	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/2/11 18:38:25

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]

Remarks: