

Report No.:

Test Time: 2025/2/7 17:01:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H96-60°-25W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

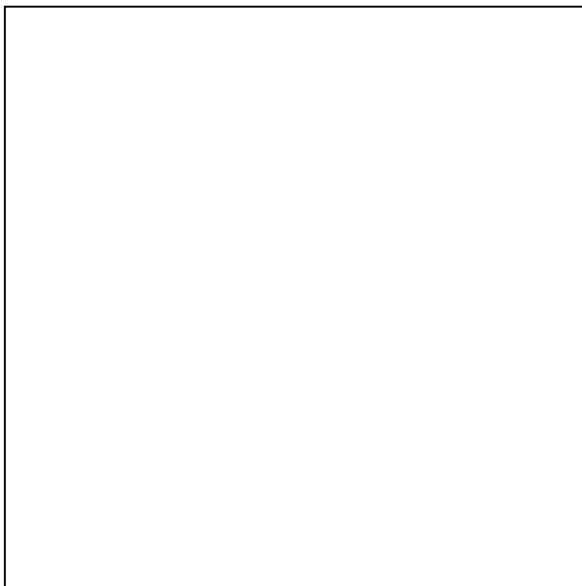
Voltage(V): 109.50 V
Current(A): 0.2280 A
Power(W): 24.83 W
Power Factor: 0.9930
Lamp Luminous Flux: 2286.45

Photometric Results

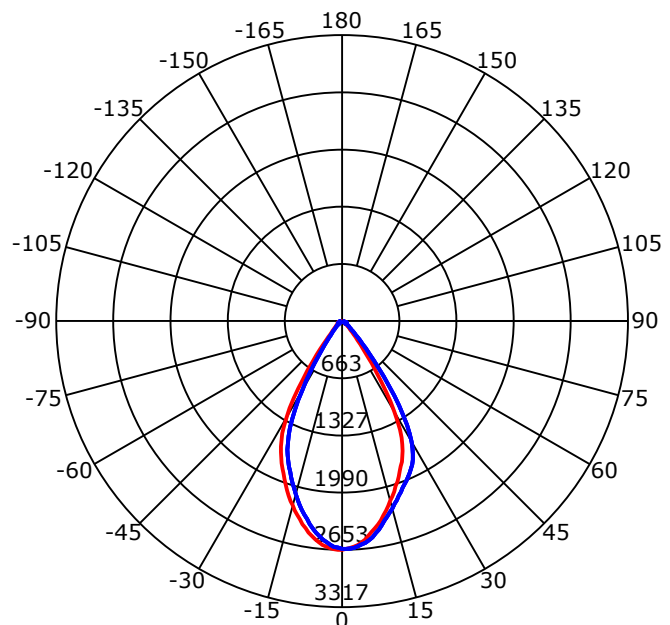
CIE Class: Direct
Luminaire Luminous Flux: 2286.449 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.07 lm/W
Beam Angle(50%) C0-180,C90-270: 58.6,59.4
Field Angle(10%) C0-180,C90-270: 79.9,81.4
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 2653.27 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2652.04 cd
Effective Luminous Flux: 2049.07 lm
ERP(ϕ use)(120deg): 2216.97 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 58.6 deg,59.4 deg

C0-180 — C90-270 —

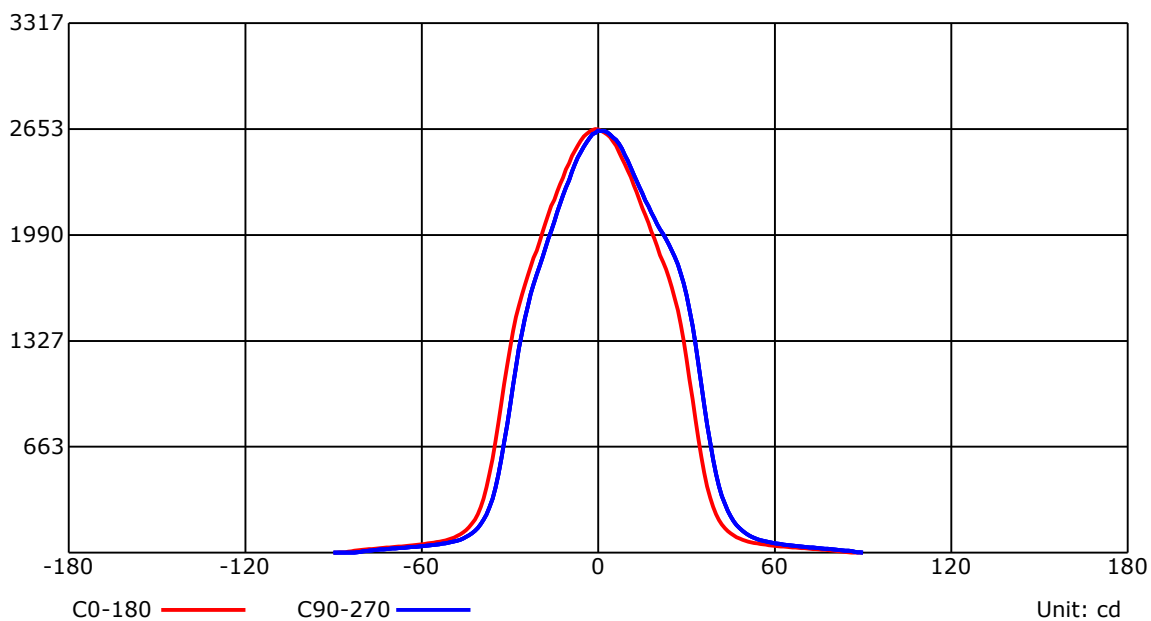
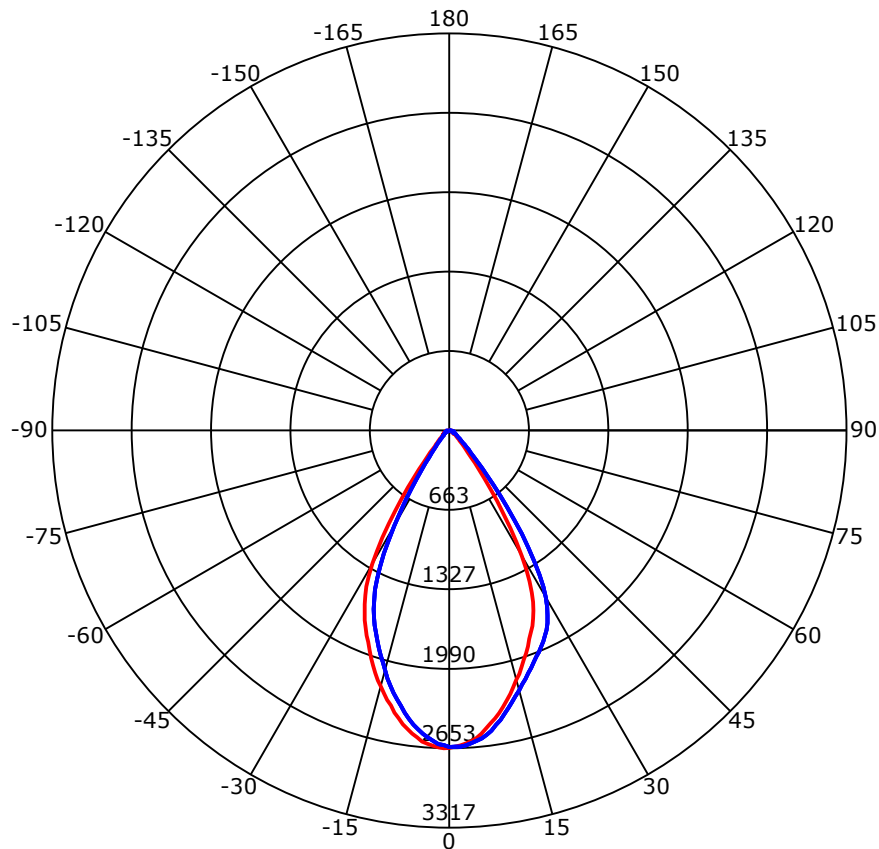
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 17:01:05

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



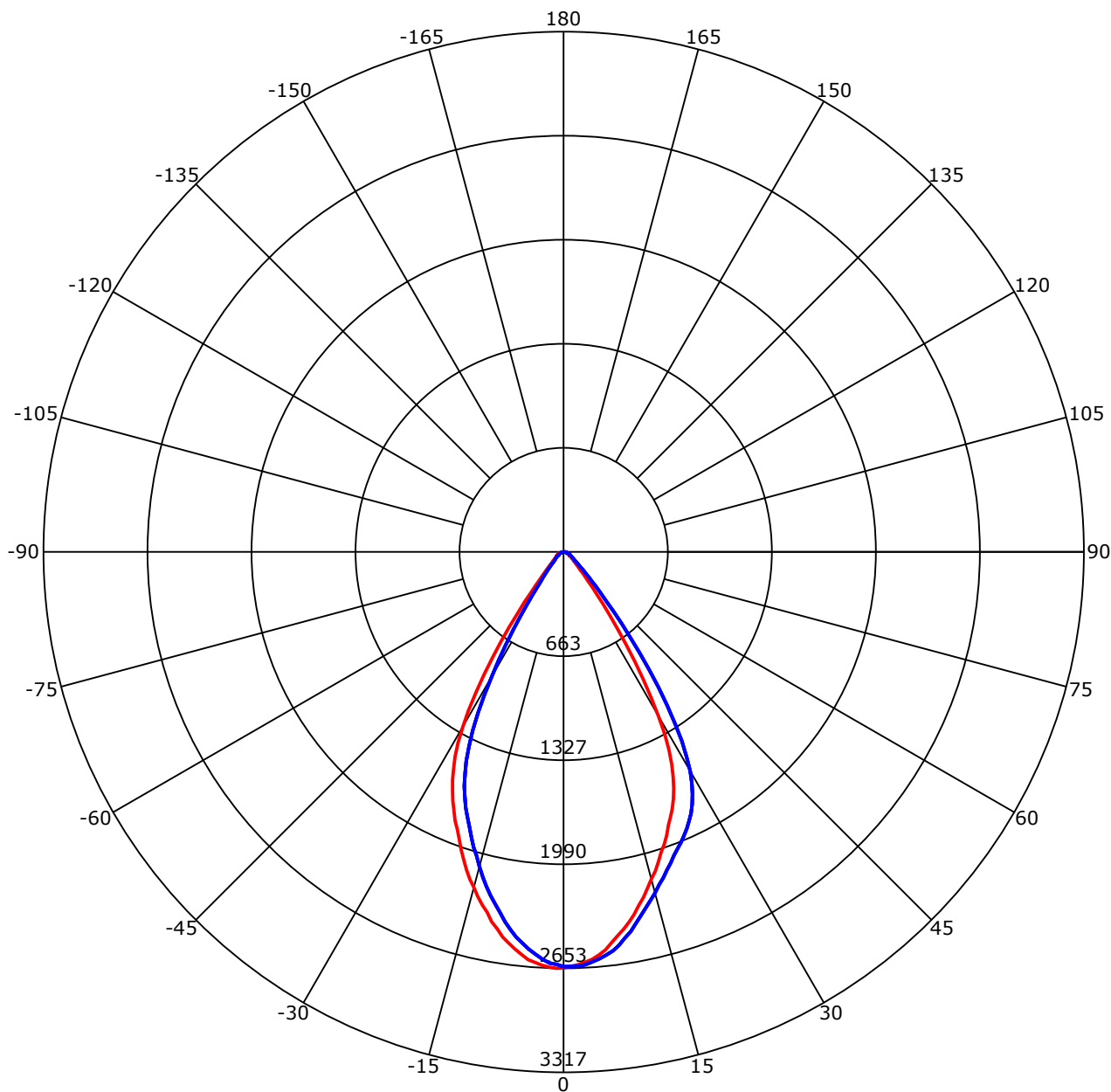
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 17:01:05

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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: 2025/2/7 17:01:05

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

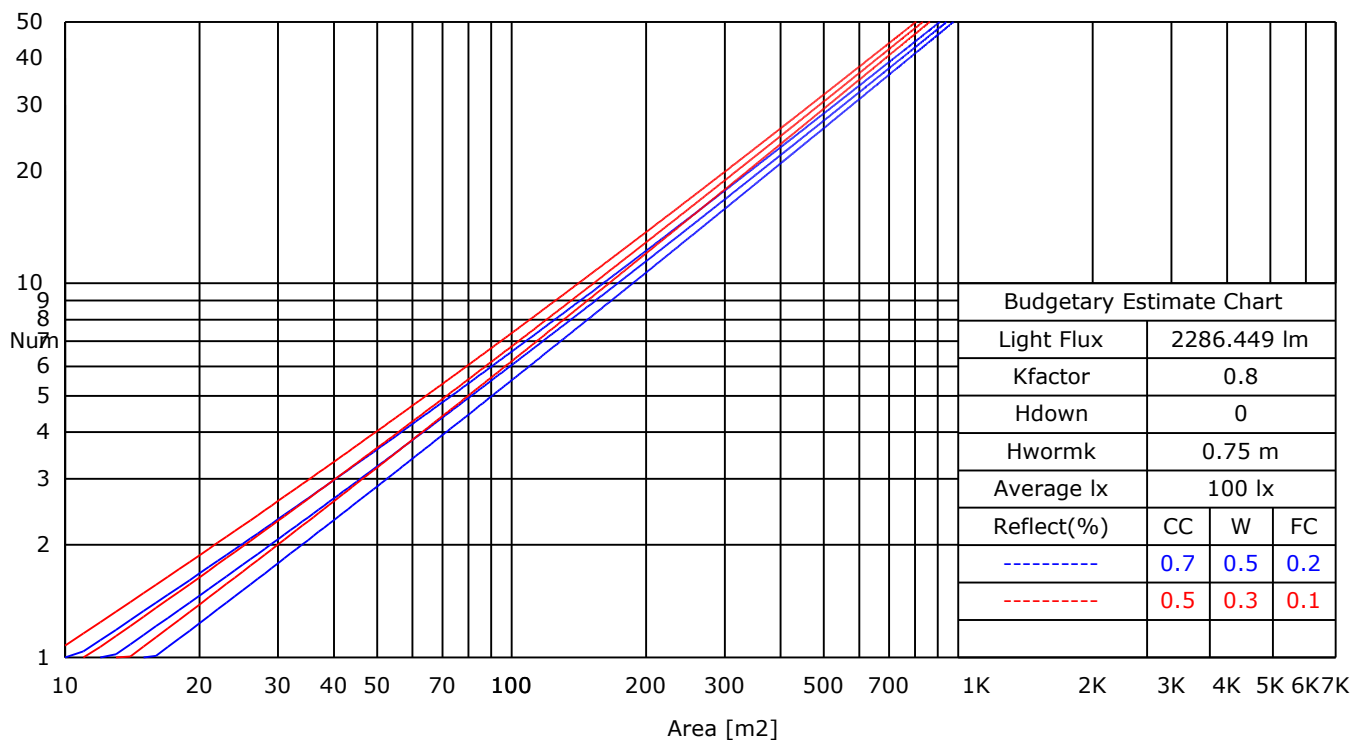
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.96	0.94	0.93	0.95	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.73
4	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.88	0.86	0.85	0.87	0.85	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
6	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.81	0.80	0.79	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
8	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.71	0.66	0.63	0.60
9	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.68	0.64	0.61	0.58
10	0.73	0.72	0.71	0.72	0.70	0.69	0.70	0.68	0.66	0.69	0.65	0.62	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



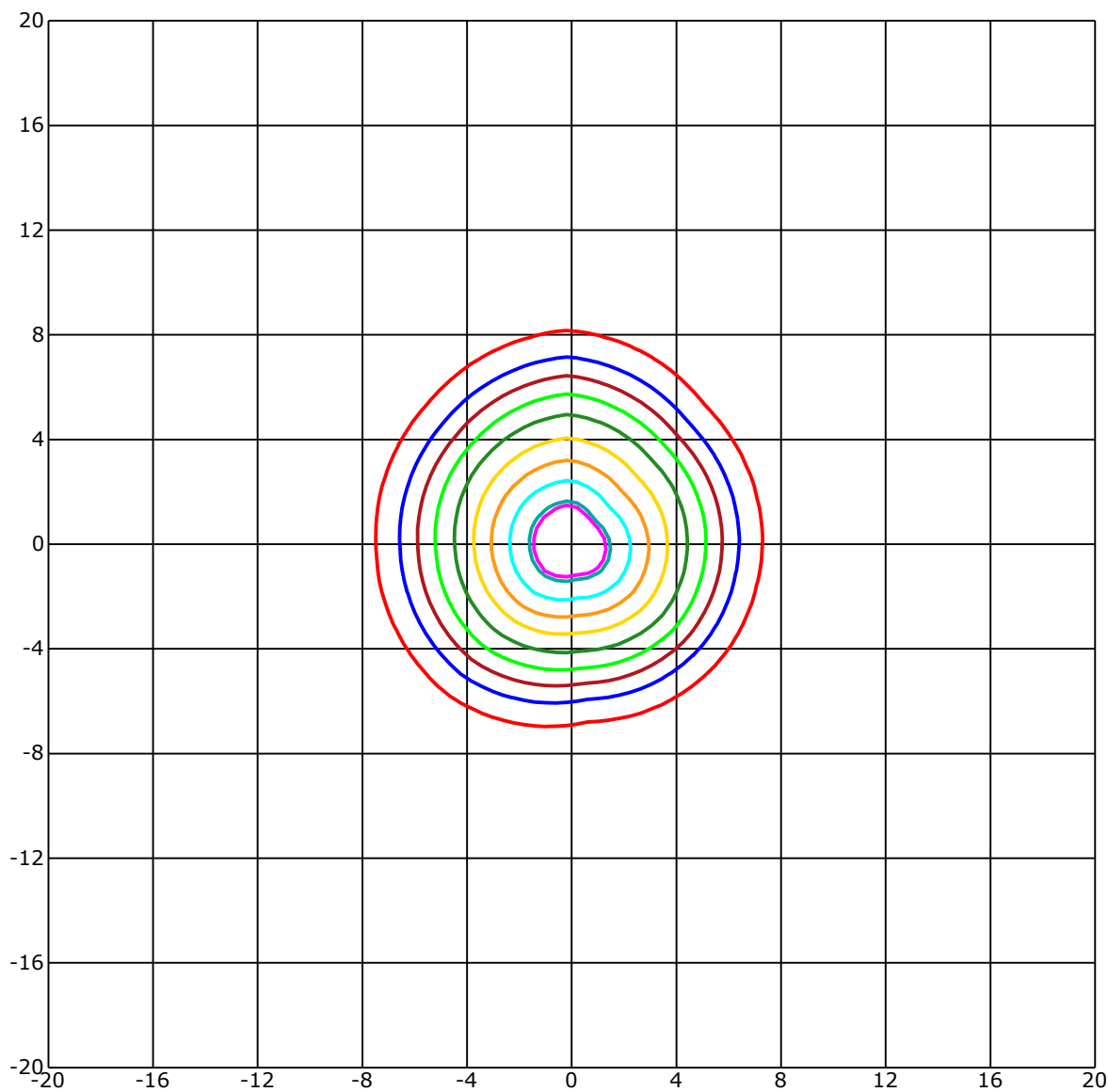
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 17:01:05

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)

24.399(92%Emax)	13.26(50%Emax)
23.869(90%Emax)	10.608(40%Emax)
21.216(80%Emax)	7.956(30%Emax)
18.564(70%Emax)	5.304(20%Emax)
15.912(60%Emax)	2.652(10%Emax)

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 17:01:05

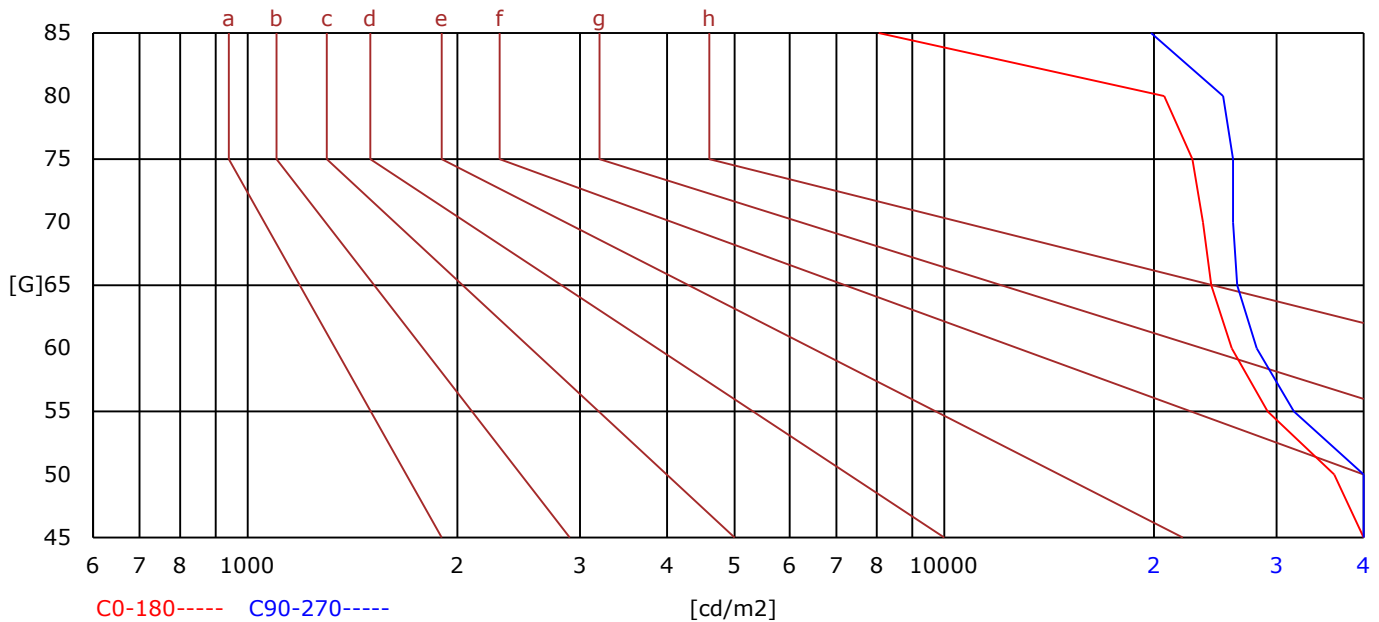
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	55020	36276	29108	25871	24168	23505	22713	20684	8049
C90	65219	41187	31750	28088	26326	25966	25966	25127	19800
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



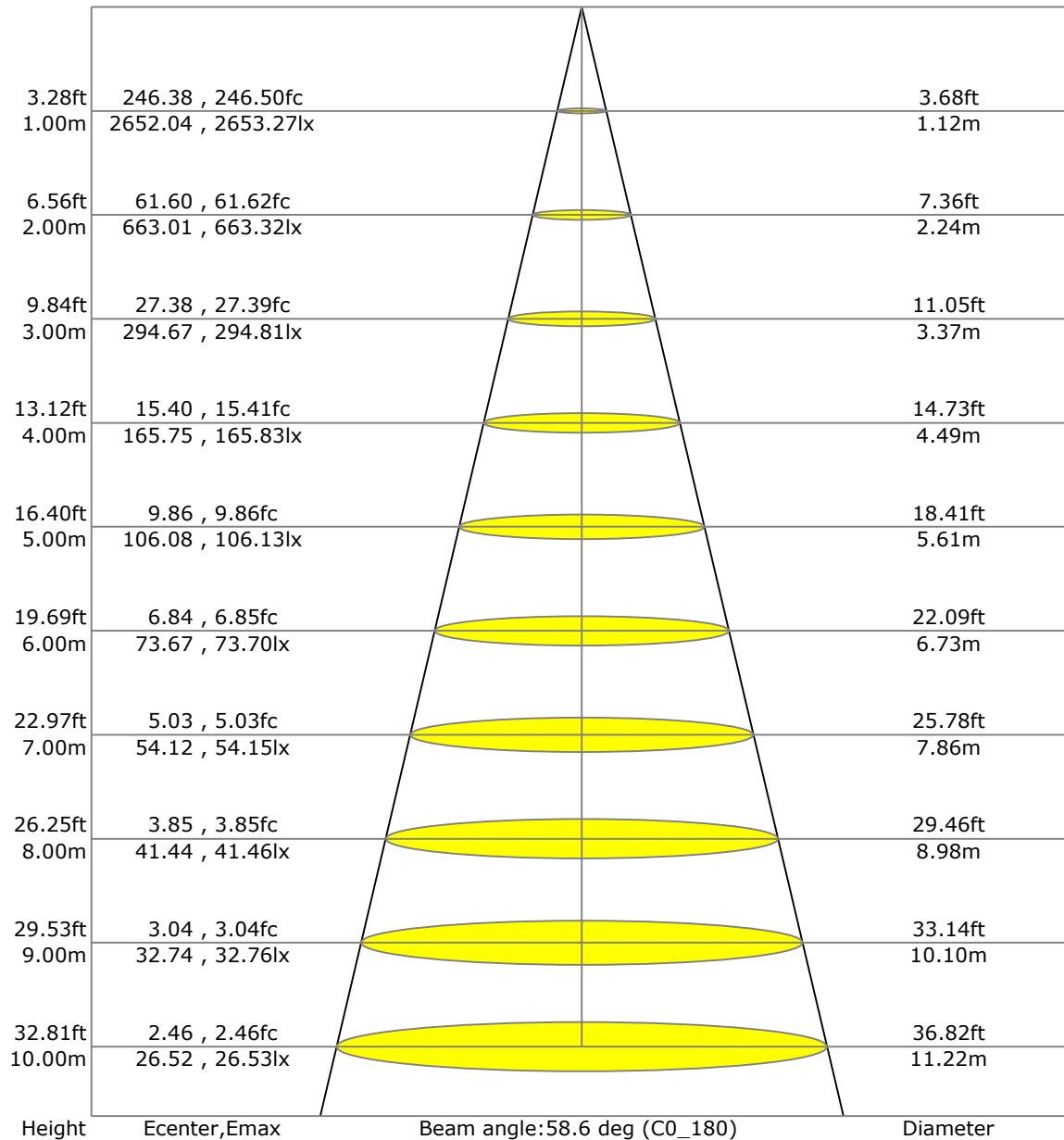
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 17:01:05

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: 2025/2/7 17:01:05

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	16.60	16.66	16.80	16.84	17.09	16.84	16.90	17.04	17.08	17.33
3H	16.62	16.67	16.82	16.86	17.11	16.85	16.90	17.05	17.09	17.34
4H	16.61	16.66	16.82	16.86	17.11	16.84	16.89	17.05	17.09	17.33
6H	16.60	16.65	16.81	16.85	17.10	16.82	16.87	17.04	17.07	17.33
8H	16.59	16.64	16.81	16.84	17.09	16.81	16.86	17.03	17.07	17.32
12H	16.58	16.63	16.80	16.83	17.09	16.80	16.85	17.02	17.06	17.31
4H 2H	17.09	17.14	17.30	17.33	17.58	17.49	17.54	17.70	17.74	17.99
3H	17.18	17.23	17.40	17.43	17.69	17.57	17.62	17.79	17.82	18.08
4H	17.19	17.24	17.42	17.46	17.72	17.58	17.63	17.81	17.84	18.10
6H	17.19	17.24	17.43	17.46	17.73	17.57	17.62	17.80	17.84	18.10
8H	17.18	17.23	17.43	17.46	17.72	17.56	17.60	17.80	17.83	18.10
12H	17.17	17.22	17.42	17.45	17.72	17.54	17.59	17.79	17.82	18.09
8H 4H	17.23	17.29	17.45	17.49	17.74	17.78	17.83	18.00	18.04	18.29
6H	17.44	17.48	17.69	17.72	17.99	18.00	18.04	18.25	18.28	18.55
8H	17.44	17.48	17.70	17.72	18.00	17.99	18.03	18.25	18.28	18.55
12H	17.43	17.46	17.69	17.72	18.00	17.97	18.01	18.24	18.27	18.55
12H 4H	17.43	17.48	17.68	17.71	17.98	18.11	18.15	18.36	18.39	18.65
6H	17.45	17.49	17.71	17.74	18.01	18.13	18.18	18.40	18.42	18.70

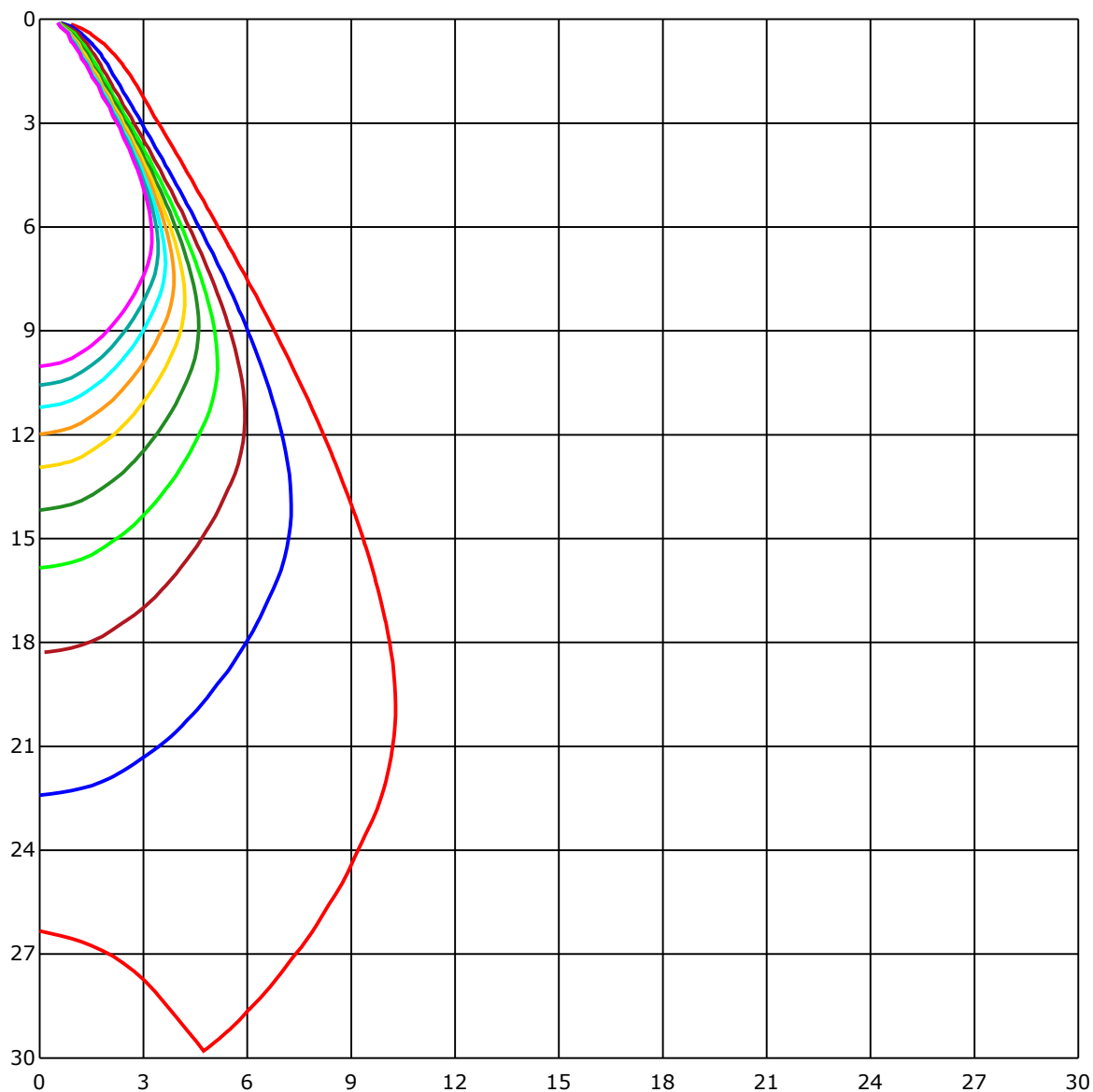
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SPACE ISOLX DIAGRAM



26.396

23.757

21.117

18.477

15.838

13.198

10.558

7.919

5.279

2.64

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/2/7 17:01:05

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	2652.04	2622.59	2642.93	2647.65	2652.04	2622.59	2642.93	2647.65	2652.04	
G1	2640.95	2607.58	2642.04	2650.06	2653.27	2630.61	2628.77	2647.65	2640.95	
G2	2631.65	2595.26	2641.61	2638.83	2647.94	2627.97	2621.46	2637.22	2631.65	
G3	2618.39	2580.11	2633.63	2630.61	2637.03	2629.34	2597.1	2629.25	2618.39	
G4	2602.3	2555.15	2618.48	2619.66	2622.64	2614.43	2570.44	2611.07	2602.3	
G5	2578.18	2522.72	2601.82	2599.46	2607.39	2593.0	2542.36	2585.97	2578.18	
G6	2548.87	2494.55	2584.31	2574.5	2578.56	2575.54	2506.58	2559.16	2548.87	
G7	2508.09	2444.28	2561.19	2552.98	2549.01	2544.34	2474.44	2531.64	2508.09	
G8	2470.19	2400.77	2531.31	2520.55	2516.78	2516.16	2432.25	2489.97	2470.19	
G9	2434.75	2349.98	2490.72	2496.15	2484.78	2471.75	2385.95	2450.09	2434.75	
G10	2395.24	2306.94	2457.31	2454.1	2438.71	2433.94	2333.56	2413.65	2395.24	
G11	2353.62	2264.84	2411.01	2419.5	2401.33	2391.61	2286.64	2372.78	2353.62	
G12	2302.5	2212.54	2368.72	2374.05	2348.05	2353.52	2239.3	2326.05	2302.5	
G13	2258.7	2170.82	2328.22	2329.78	2308.59	2303.87	2186.77	2277.53	2258.7	
G14	2209.15	2134.76	2287.63	2277.82	2262.2	2251.01	2134.43	2223.64	2209.15	
G15	2157.75	2082.66	2250.49	2239.59	2211.13	2197.44	2074.59	2177.76	2157.75	
G16	2116.73	2041.41	2205.7	2192.25	2171.34	2163.18	2014.6	2127.64	2116.73	
G17	2066.19	1996.95	2170.96	2148.69	2118.72	2105.31	1964.81	2080.63	2066.19	
G18	2012.67	1953.06	2130.66	2103.38	2062.93	2046.6	1906.8	2027.11	2012.67	
G19	1970.14	1922.57	2096.68	2051.6	2008.65	1986.8	1848.37	1976.8	1970.14	
G20	1919.88	1892.03	2057.83	2005.44	1948.48	1928.51	1795.84	1925.4	1919.88	
G21	1863.81	1847.76	2025.36	1976.98	1892.27	1869.42	1743.31	1873.29	1863.81	
G22	1818.36	1811.94	1996.15	1923.09	1847.38	1815.71	1680.78	1814.86	1818.36	
G23	1774.13	1772.43	1962.78	1883.3	1791.12	1764.93	1620.27	1765.78	1774.13	
G24	1720.89	1726.79	1928.61	1831.52	1735.67	1709.19	1542.73	1709.0	1720.89	
G25	1660.06	1666.15	1890.99	1780.6	1676.25	1650.66	1469.33	1639.29	1660.06	
G26	1593.6	1608.47	1854.18	1719.15	1615.88	1594.41	1377.16	1568.83	1593.6	
G27	1519.03	1533.33	1804.86	1655.1	1545.51	1525.03	1277.62	1487.6	1519.03	
G28	1429.22	1443.85	1747.89	1582.42	1476.23	1449.23	1161.8	1390.09	1429.22	
G29	1328.4	1339.26	1687.29	1497.18	1387.59	1362.01	1047.25	1279.18	1328.4	
G30	1211.5	1226.22	1612.53	1401.37	1284.61	1261.95	923.03	1158.45	1211.5	
G31	1086.19	1102.47	1522.24	1294.28	1177.94	1152.69	804.24	1035.26	1086.19	
G32	961.5	979.95	1420.16	1173.69	1054.95	1033.14	691.2	905.43	961.5	
G33	832.98	857.57	1305.61	1052.44	930.58	912.84	584.3	783.8	832.98	
G34	713.0	739.15	1180.68	927.28	811.08	796.68	488.49	669.58	713.0	
G35	602.52	629.32	1054.47	804.42	696.91	681.71	406.22	560.79	602.52	
G36	502.22	529.74	926.1	685.2	588.55	577.93	337.41	466.82	502.22	

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C Interval: 45.0 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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	415.1	443.18	804.05	578.92	491.32	484.43	283.7	388.29	415.1	
G38	343.26	372.86	688.89	485.04	409.15	404.19	240.09	322.45	343.26	
G39	286.58	313.25	584.16	405.28	339.72	337.36	206.77	273.79	286.58	
G40	240.7	266.9	494.43	336.23	284.88	285.12	178.12	233.67	240.7	
G41	204.36	227.06	418.31	282.99	241.32	243.3	155.42	203.28	204.36	
G42	176.28	194.88	355.11	240.47	207.1	209.84	136.49	177.27	176.28	
G43	153.86	168.82	304.56	205.92	180.1	182.27	121.3	155.94	153.86	
G44	135.55	148.29	261.52	177.65	158.53	160.33	108.51	138.9	135.55	
G45	120.68	130.88	227.3	155.14	140.88	142.49	97.89	124.79	120.68	
G46	108.36	116.72	197.94	136.73	126.58	127.38	89.06	112.61	108.36	
G47	97.65	104.59	173.26	121.77	114.45	115.07	81.41	102.37	97.65	
G48	88.73	94.68	153.01	108.79	104.31	105.06	75.18	93.97	88.73	
G49	81.08	85.95	136.4	98.26	95.67	96.14	70.18	86.89	81.08	
G50	74.76	78.44	122.52	89.06	88.78	89.06	65.75	80.85	74.76	
G51	69.52	72.4	110.87	81.51	82.69	83.16	62.11	75.99	69.52	
G52	65.27	67.49	100.81	75.23	77.45	78.11	58.76	71.6	65.27	
G53	61.26	63.01	92.51	69.9	73.2	73.82	55.98	68.06	61.26	
G54	58.05	59.37	85.47	65.23	69.29	69.76	53.33	64.57	58.05	
G55	55.08	56.16	79.53	61.26	66.03	66.41	50.97	61.69	55.08	
G56	52.58	53.71	74.34	57.96	63.06	63.48	48.24	58.67	52.58	
G57	49.98	50.69	69.85	55.13	60.08	60.46	46.16	56.16	49.98	
G58	47.39	47.95	65.93	52.44	57.77	57.86	44.18	53.57	47.39	
G59	45.07	45.64	62.63	49.98	55.08	55.46	42.24	51.21	45.07	
G60	43.19	43.52	59.28	47.24	52.91	53.05	40.64	48.57	43.19	
G61	41.25	41.53	56.45	45.17	50.93	51.07	38.98	46.68	41.25	
G62	39.6	39.55	53.8	42.95	48.33	48.52	37.33	44.65	39.6	
G63	37.66	37.66	51.35	41.06	46.39	46.68	35.73	42.85	37.66	
G64	36.25	36.06	48.47	39.22	44.46	44.98	34.26	41.16	36.25	
G65	34.5	34.36	46.39	37.43	42.76	43.23	32.85	39.55	34.5	
G66	33.13	32.9	44.32	35.87	41.25	41.49	31.43	37.85	33.13	
G67	31.67	31.34	42.34	34.45	39.6	39.74	30.06	36.34	31.67	
G68	30.35	29.92	40.4	32.8	37.71	38.28	28.65	34.78	30.35	
G69	29.03	28.37	38.75	31.39	36.25	36.58	27.28	33.32	29.03	
G70	27.7	27.04	36.91	29.88	34.88	35.21	25.96	31.72	27.7	
G71	26.19	25.58	35.35	28.51	33.13	33.6	24.45	30.39	26.19	
G72	24.97	24.21	33.56	26.95	31.76	32.24	22.98	28.79	24.97	
G73	23.55	22.65	31.95	25.53	30.11	30.49	21.47	27.28	23.55	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 17:01:05

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: 2025/2/7 17:01:05

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