

Report No.:

Test Time: 2025/7/19 15:36:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT080-15°-8W
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 72 mm
Luminous Height: 68 mm

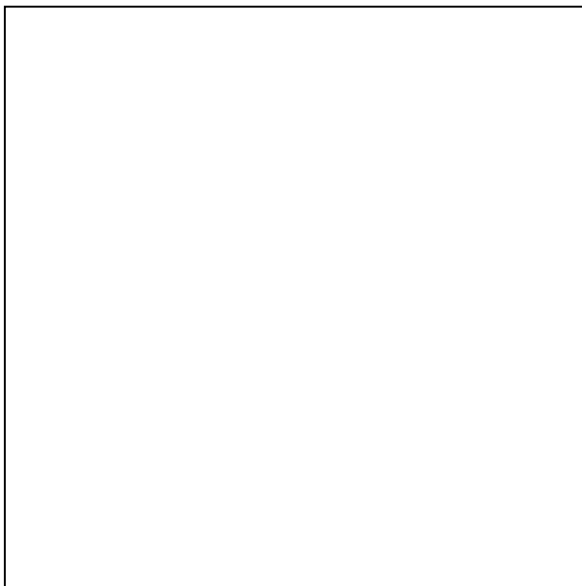
Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.66 W
Power Factor: 0.9320
Lamp Luminous Flux: 715.74

Photometric Results

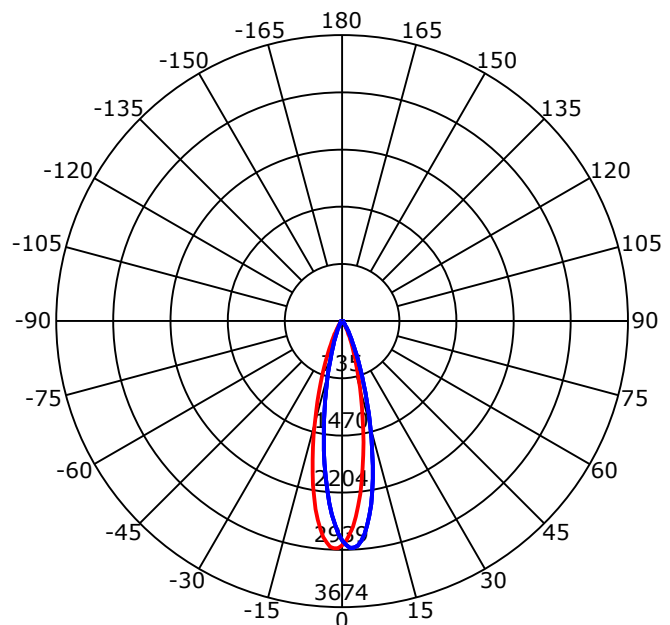
CIE Class: Direct
Luminaire Luminous Flux: 715.7445 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.61 lm/W
Beam Angle(50%) C0-180,C90-270: 25.1,23.9
Field Angle(10%) C0-180,C90-270: 49.9,47.3
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 2939.23 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2882.83 cd
Effective Luminous Flux: 591.06 lm
ERP(ϕ use)(120deg): 712.80 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.1 deg,23.9 deg

C0-180 — C90-270 —

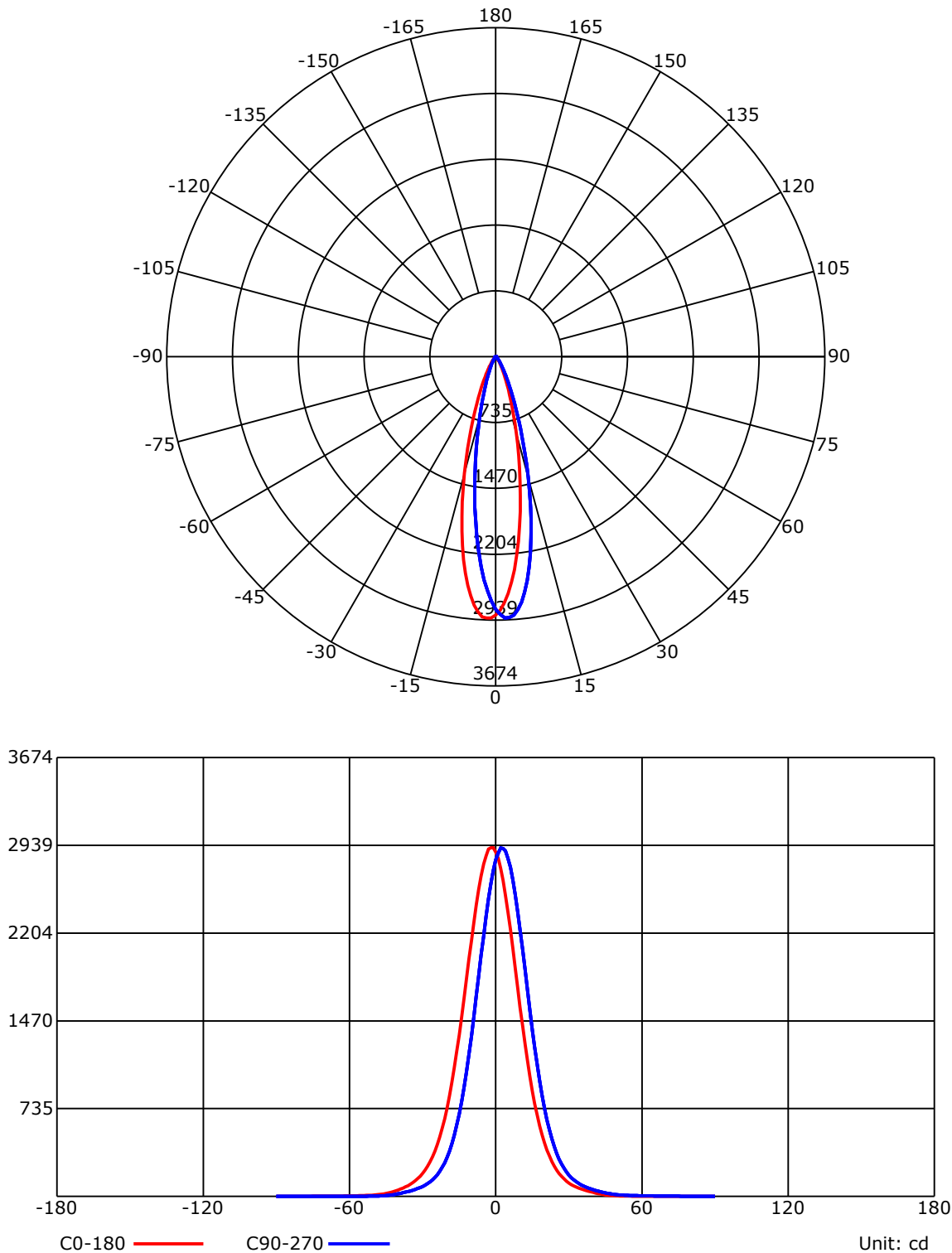
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 15:36:45

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



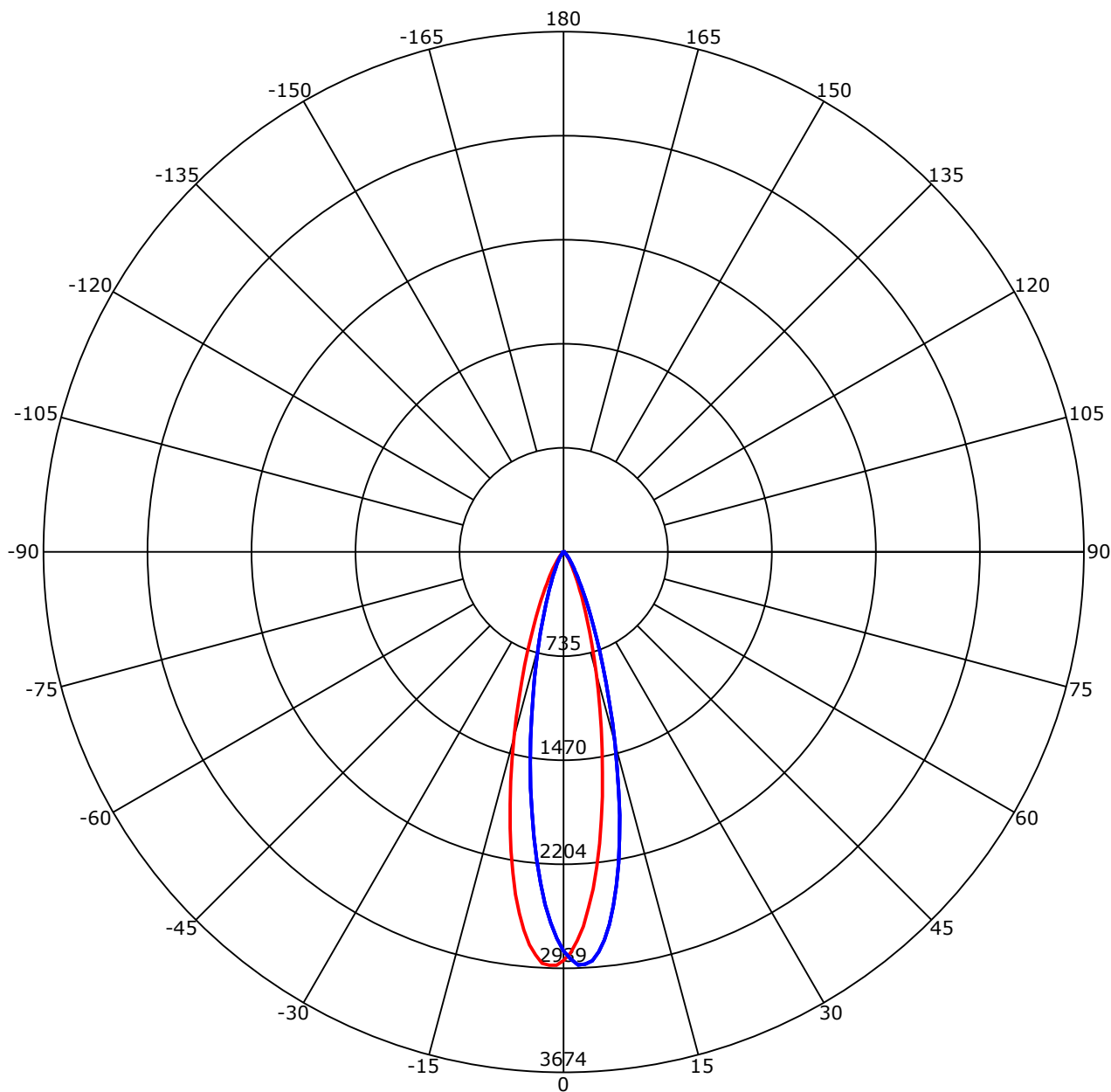
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Luminous Intensity Distribution Curve



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: 2025/7/19 15:36:45

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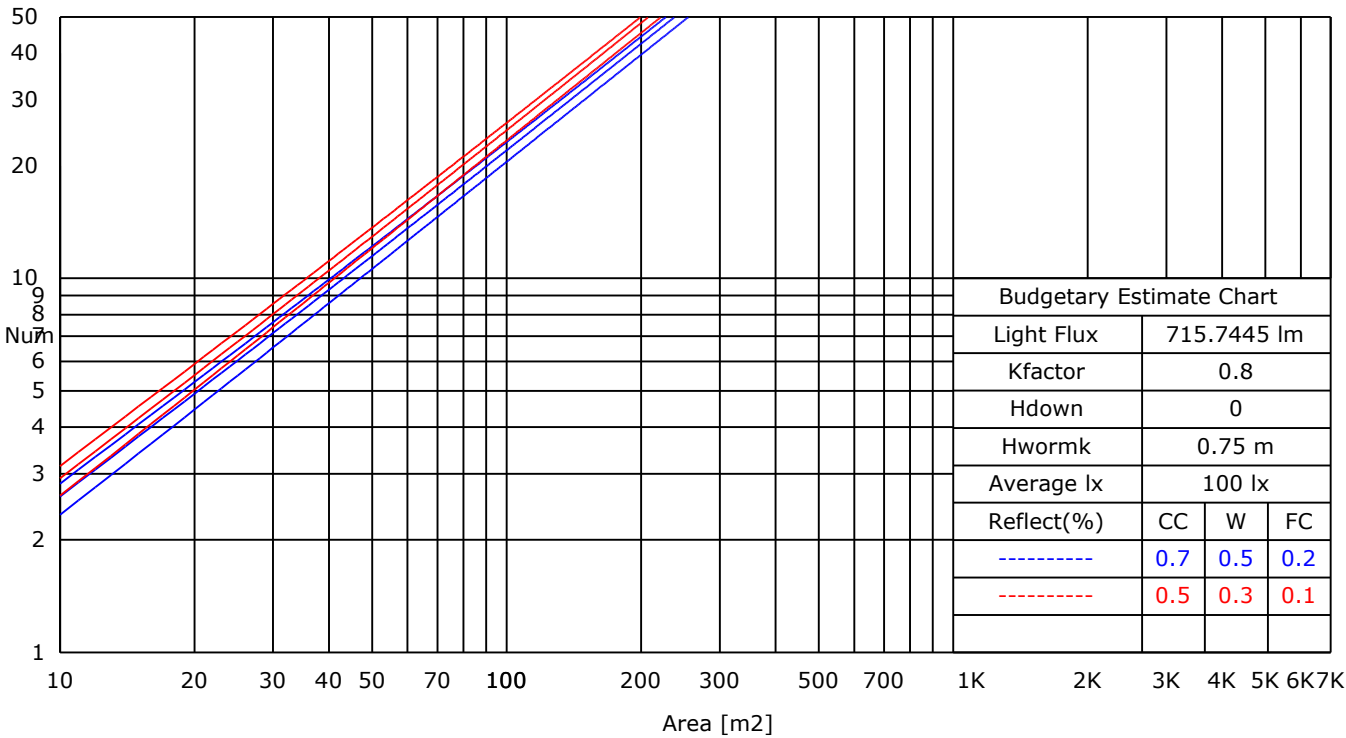
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.87	0.91	0.88	0.85	0.89	0.85	0.82	0.85	0.81	0.78	0.79	0.76	0.72	0.67
2	0.86	0.83	0.81	0.85	0.82	0.79	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.63
3	0.82	0.80	0.78	0.82	0.79	0.77	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.65	0.61
4	0.80	0.78	0.76	0.79	0.77	0.75	0.78	0.74	0.71	0.75	0.71	0.68	0.72	0.68	0.64	0.60
5	0.78	0.76	0.74	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
8	0.73	0.71	0.70	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.72	0.70	0.69	0.71	0.69	0.68	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
10	0.70	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



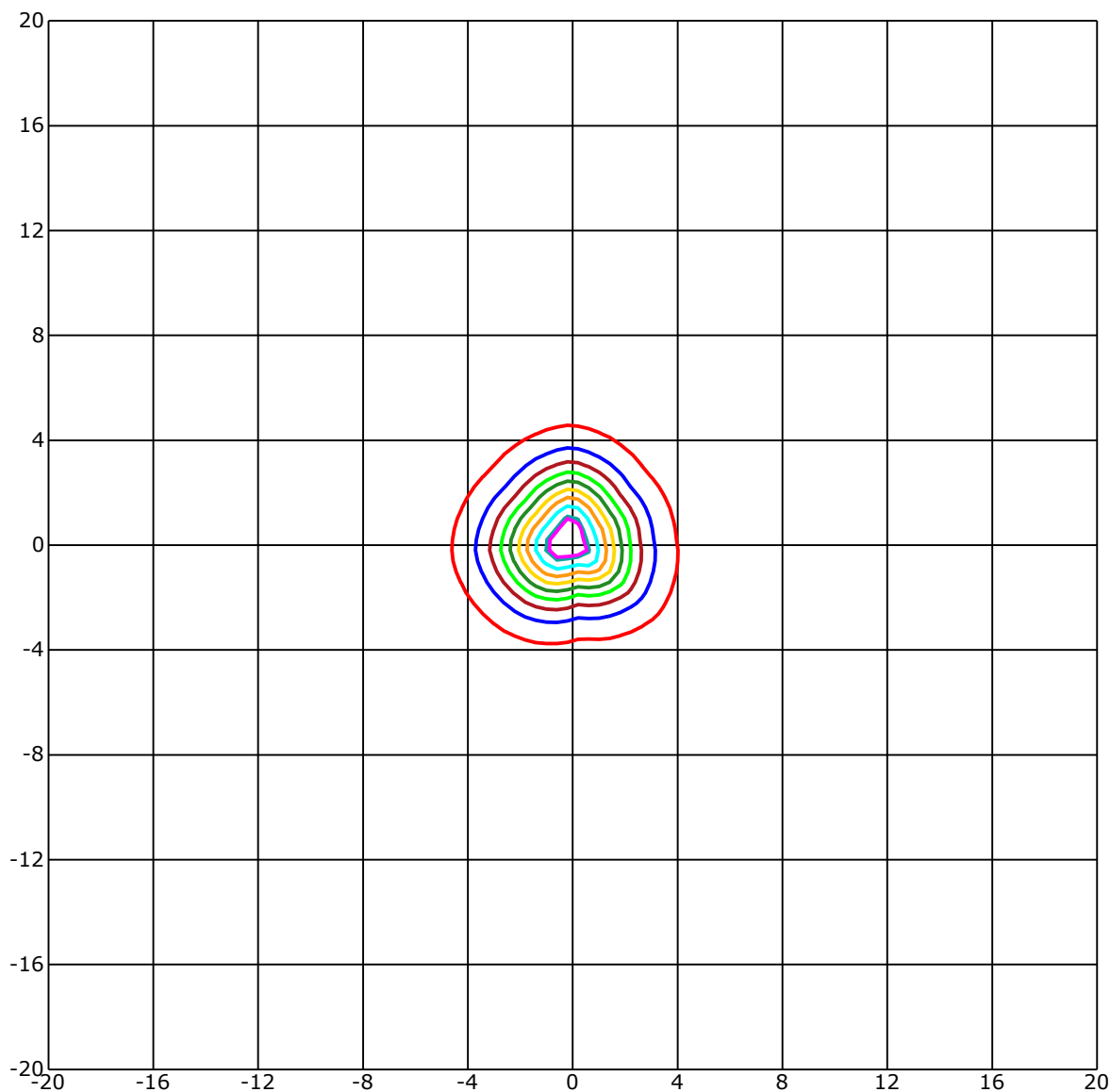
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

27.029(92%Emax)	14.69(50%Emax)
26.442(90%Emax)	11.752(40%Emax)
23.504(80%Emax)	8.814(30%Emax)
20.566(70%Emax)	5.876(20%Emax)
17.628(60%Emax)	2.938(10%Emax)

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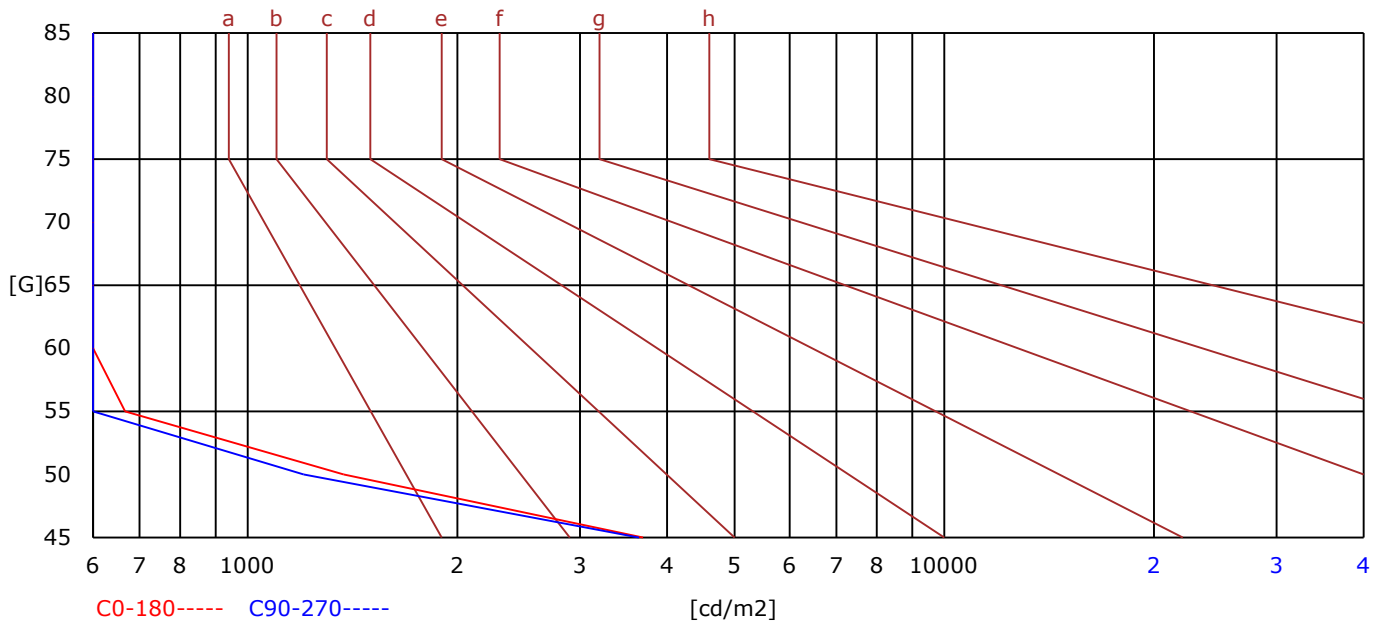
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3695	1374	667	255	0	0	0	0	0
C90	3644	1204	492	73	0	0	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



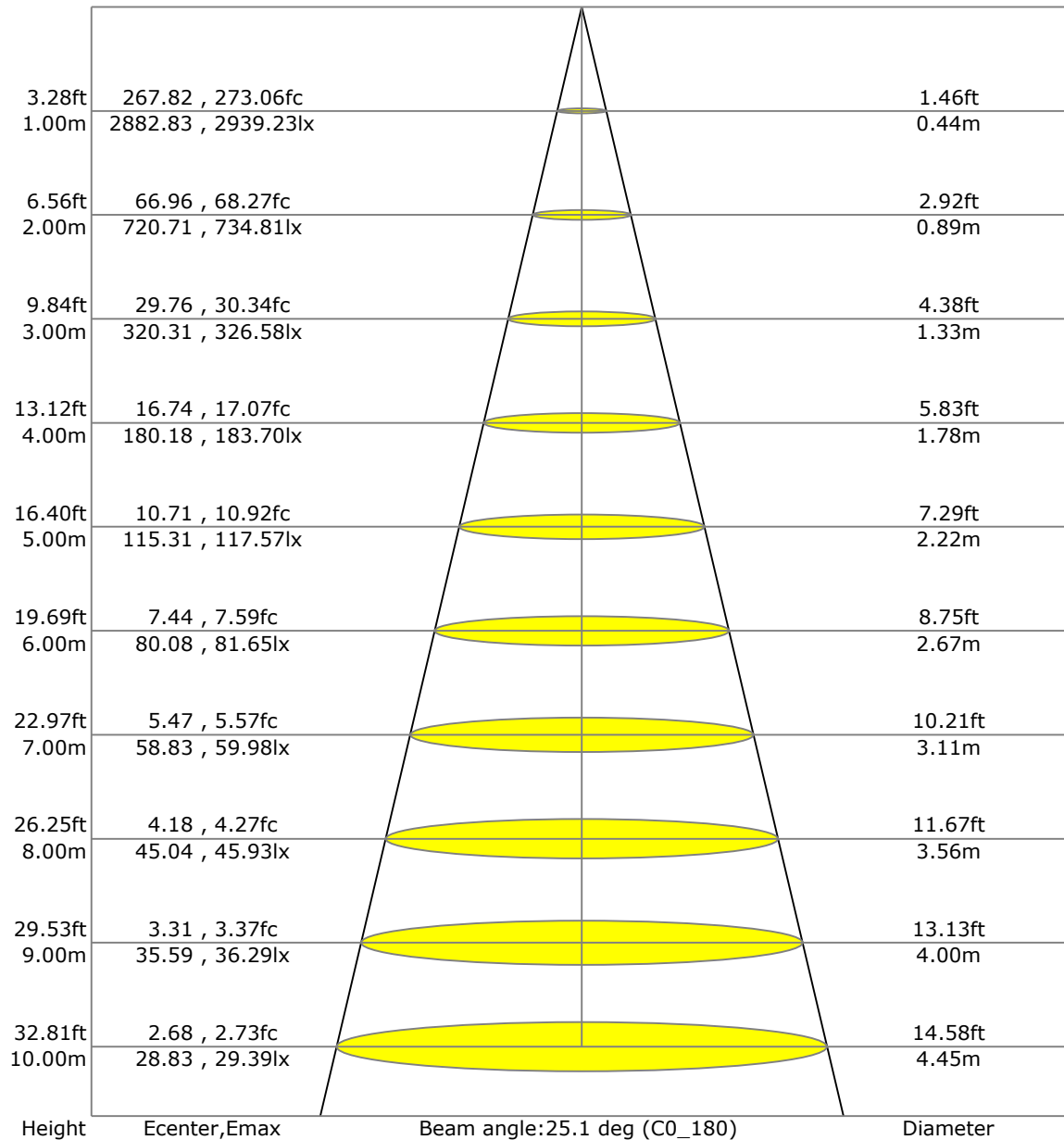
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LX-DISTANCE DIAGRAM



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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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	6.11	6.17	6.31	6.35	6.60	6.53	6.59	6.73	6.78	7.02
3H	6.09	6.15	6.30	6.34	6.59	6.51	6.57	6.72	6.76	7.01
4H	6.08	6.14	6.29	6.34	6.59	6.50	6.56	6.71	6.75	7.00
6H	6.07	6.13	6.28	6.33	6.58	6.48	6.54	6.70	6.74	7.00
8H	6.06	6.12	6.28	6.32	6.58	6.47	6.54	6.69	6.74	6.99
12H	6.05	6.11	6.27	6.32	6.57	6.47	6.53	6.69	6.73	6.99
4H 2H	6.07	6.13	6.28	6.33	6.58	6.71	6.77	6.92	6.97	7.22
3H	6.05	6.11	6.27	6.31	6.57	6.68	6.74	6.90	6.95	7.20
4H	6.03	6.09	6.26	6.30	6.56	6.66	6.72	6.89	6.94	7.20
6H	6.01	6.07	6.25	6.29	6.56	6.64	6.70	6.88	6.92	7.19
8H	6.00	6.06	6.24	6.29	6.55	6.63	6.69	6.87	6.92	7.18
12H	5.99	6.05	6.24	6.28	6.55	6.61	6.67	6.86	6.91	7.18
8H 4H	6.05	6.11	6.27	6.31	6.57	6.81	6.87	7.03	7.07	7.33
6H	5.97	6.03	6.23	6.27	6.54	6.75	6.81	7.01	7.05	7.32
8H	5.96	6.01	6.22	6.26	6.54	6.74	6.79	7.00	7.04	7.32
12H	5.94	5.99	6.21	6.25	6.53	6.72	6.77	6.99	7.03	7.31
12H 4H	5.98	6.04	6.23	6.27	6.54	6.83	6.89	7.08	7.12	7.39
6H	5.96	6.01	6.22	6.26	6.54	6.81	6.86	7.07	7.11	7.39

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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

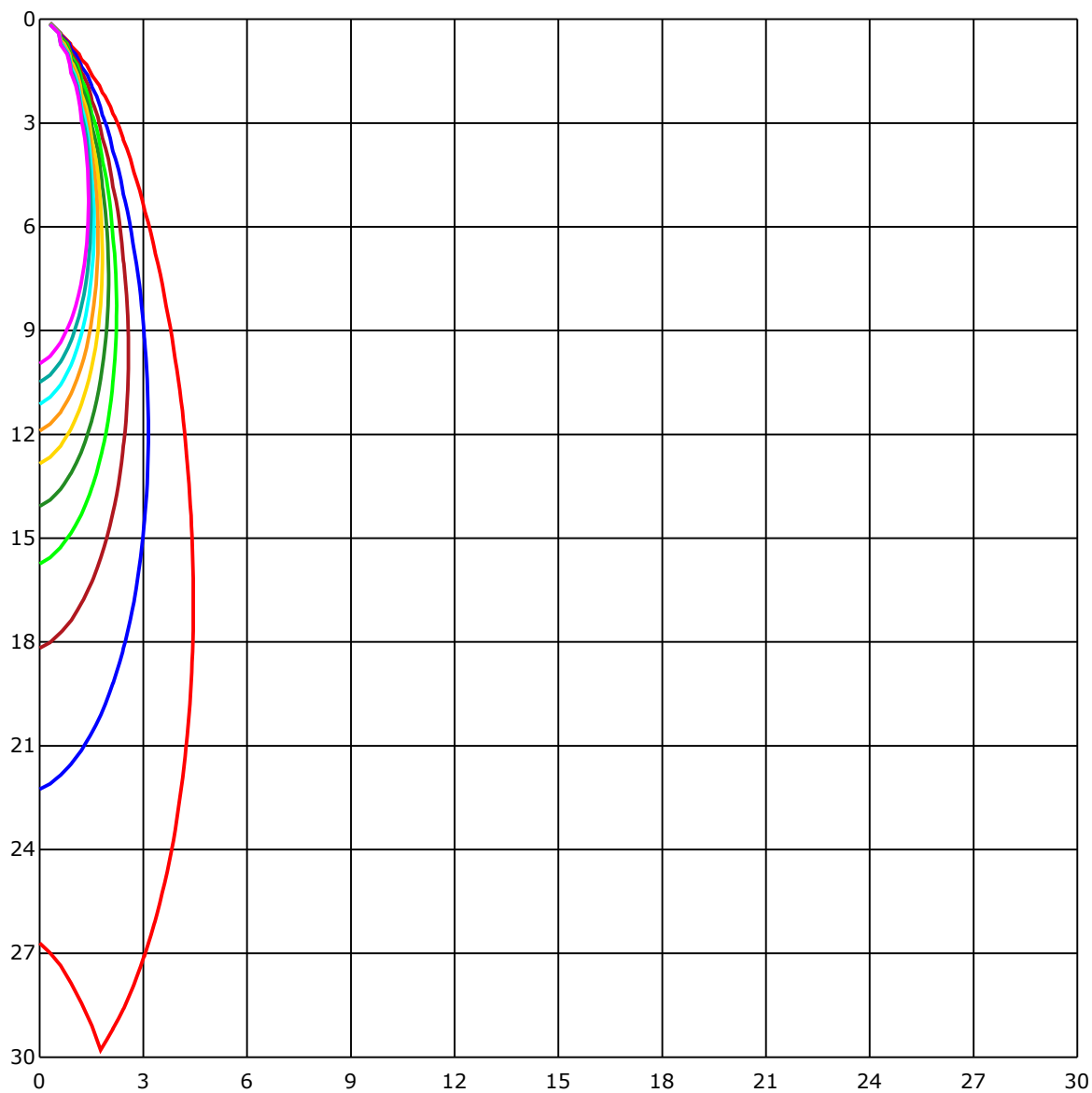
Remarks:

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SPACE ISOLX DIAGRAM



29.096

26.186

23.277

20.367

17.458

14.548

11.638

8.729

5.819

2.91

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C Interval: 45.0 Deg

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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	2882.83	2864.33	2817.66	2937.96	2882.83	2864.33	2817.66	2937.96	2882.83	
G1	2830.4	2828.7	2875.28	2939.23	2918.33	2862.68	2727.89	2917.1	2830.4	
G2	2745.3	2776.41	2917.81	2899.07	2919.22	2835.02	2617.87	2861.64	2745.3	
G3	2647.27	2691.03	2913.51	2843.28	2907.38	2783.15	2492.09	2790.38	2647.27	
G4	2518.57	2589.98	2892.46	2762.25	2851.31	2703.11	2345.5	2690.32	2518.57	
G5	2386.79	2461.22	2833.56	2656.95	2783.82	2602.72	2181.35	2574.02	2386.79	
G6	2232.46	2327.42	2754.74	2527.49	2682.81	2484.63	2019.93	2441.07	2232.46	
G7	2074.92	2166.15	2648.22	2386.56	2571.29	2340.68	1845.73	2293.86	2074.92	
G8	1909.02	2000.96	2523.76	2229.82	2440.84	2187.48	1681.44	2135.99	1909.02	
G9	1748.22	1836.24	2383.35	2069.35	2295.99	2026.73	1506.38	1977.22	1748.22	
G10	1580.72	1673.51	2230.48	1901.04	2141.56	1865.03	1341.38	1815.9	1580.72	
G11	1423.46	1503.93	2063.31	1736.28	1983.83	1697.44	1184.41	1647.97	1423.46	
G12	1274.69	1343.7	1899.68	1573.12	1821.05	1532.48	1041.59	1490.38	1274.69	
G13	1137.26	1190.73	1728.49	1410.29	1660.58	1375.7	912.84	1334.87	1137.26	
G14	1004.54	1055.65	1558.96	1259.12	1504.12	1226.88	795.27	1190.97	1004.54	
G15	885.7	923.69	1398.16	1119.42	1352.85	1088.41	690.77	1056.5	885.7	
G16	775.35	808.48	1249.59	988.11	1210.74	957.72	595.58	933.04	775.35	
G17	678.55	705.12	1100.63	866.72	1078.17	839.02	510.48	820.85	678.55	
G18	590.29	613.51	967.68	757.7	955.31	732.45	439.69	717.63	590.29	
G19	515.44	528.65	846.71	661.04	843.03	635.88	379.09	626.49	515.44	
G20	448.37	457.05	741.37	574.91	739.25	551.02	328.11	544.79	448.37	
G21	389.85	395.79	642.73	501.23	648.96	478.29	281.39	474.61	389.85	
G22	337.51	341.71	556.26	435.06	567.45	415.52	242.07	413.16	337.51	
G23	292.24	295.59	481.88	377.76	495.76	359.59	208.8	357.85	292.24	
G24	253.59	256.33	418.07	326.74	433.27	311.55	181.61	311.26	253.59	
G25	221.07	222.11	361.2	282.71	378.61	271.38	158.02	271.76	221.07	
G26	192.42	192.52	312.4	245.09	331.28	236.74	138.52	236.55	192.42	
G27	168.02	167.55	270.49	213.05	288.14	206.68	121.25	206.53	168.02	
G28	146.64	146.26	235.13	185.15	251.98	181.05	107.09	180.76	146.64	
G29	127.62	128.0	204.6	160.89	220.88	158.82	93.59	159.01	127.62	
G30	111.81	112.42	179.11	140.51	193.65	139.75	82.92	140.08	111.81	
G31	99.11	98.78	156.98	122.52	169.96	123.84	74.1	123.51	99.11	
G32	88.16	87.55	138.1	107.04	148.95	109.78	66.17	109.83	88.16	
G33	78.39	77.73	121.72	94.02	130.97	97.89	58.81	98.41	78.39	
G34	69.85	69.29	108.55	82.78	115.82	87.88	52.06	88.21	69.85	
G35	62.39	62.11	97.08	72.92	102.56	77.83	45.64	79.2	62.39	
G36	55.69	55.74	86.8	63.86	90.38	69.29	40.4	71.08	55.69	

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	49.27	49.18	77.69	55.83	79.76	61.69	35.3	63.81	49.27	
G38	43.56	43.7	69.52	48.57	69.95	55.13	30.63	57.2	43.56	
G39	38.28	38.7	62.21	41.96	61.69	48.42	26.05	51.49	38.28	
G40	33.13	33.84	55.93	35.96	54.13	42.76	21.95	45.4	33.13	
G41	28.32	29.17	49.89	30.3	47.1	37.14	17.93	39.98	28.32	
G42	23.83	24.78	44.22	25.44	40.78	32.28	14.35	34.93	23.83	
G43	19.73	20.58	38.89	20.86	34.97	27.47	11.42	30.25	19.73	
G44	16.05	16.85	33.93	16.85	29.64	23.32	9.06	26.01	16.05	
G45	12.74	13.55	29.5	13.36	25.11	19.73	7.08	22.09	12.74	
G46	10.19	10.81	25.44	10.48	21.14	16.71	5.71	18.78	10.19	
G47	8.12	8.64	21.71	8.4	18.22	14.4	4.53	16.05	8.12	
G48	6.42	6.94	18.55	6.51	15.57	12.55	3.78	13.97	6.42	
G49	5.24	5.57	16.0	5.1	13.26	10.95	3.16	12.22	5.24	
G50	4.29	4.58	13.88	4.01	11.56	9.96	2.83	10.81	4.29	
G51	3.54	3.54	12.04	3.45	10.24	8.97	2.36	9.72	3.54	
G52	3.07	3.11	10.9	2.78	9.25	8.26	1.94	8.87	3.07	
G53	2.6	2.78	9.77	2.22	8.4	7.55	1.51	8.31	2.6	
G54	2.22	2.45	8.97	1.75	7.79	7.08	1.23	7.65	2.22	
G55	1.89	1.98	8.17	1.46	7.22	6.61	0.94	7.13	1.89	
G56	1.46	1.65	7.5	1.13	6.51	5.95	0.9	6.61	1.46	
G57	1.23	1.37	6.84	0.99	6.14	5.47	0.57	6.18	1.23	
G58	0.9	0.99	6.61	0.71	5.71	4.96	0.24	5.66	0.9	
G59	0.71	0.85	5.9	0.47	5.24	4.63	0.09	5.29	0.71	
G60	0.42	0.66	5.52	0.19	4.77	4.34	0.05	4.77	0.42	
G61	0.38	0.38	5.05	0.05	4.44	3.92	0.0	4.58	0.38	
G62	0.24	0.28	4.72	0.0	4.15	3.78	0.0	4.15	0.24	
G63	0.09	0.05	4.44	0.0	3.87	3.45	0.0	3.82	0.09	
G64	0.0	0.05	4.06	0.0	3.63	3.26	0.0	3.63	0.0	
G65	0.0	0.0	3.78	0.0	3.45	2.93	0.0	3.35	0.0	
G66	0.0	0.0	3.59	0.0	3.26	2.83	0.0	3.16	0.0	
G67	0.0	0.0	3.35	0.0	3.02	2.5	0.0	3.02	0.0	
G68	0.0	0.0	3.11	0.0	2.83	2.45	0.0	2.88	0.0	
G69	0.0	0.0	2.88	0.0	2.6	2.22	0.0	2.83	0.0	
G70	0.0	0.0	2.69	0.0	2.5	2.12	0.0	2.5	0.0	
G71	0.0	0.0	2.55	0.0	2.36	1.98	0.0	2.41	0.0	
G72	0.0	0.0	2.45	0.0	2.22	1.84	0.0	2.36	0.0	
G73	0.0	0.0	2.27	0.0	2.17	1.65	0.0	2.22	0.0	

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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: 2025/7/19 15:36:45

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