

Report No.:

Test Time: 2025/8/1 18:22:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-2F-EB-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

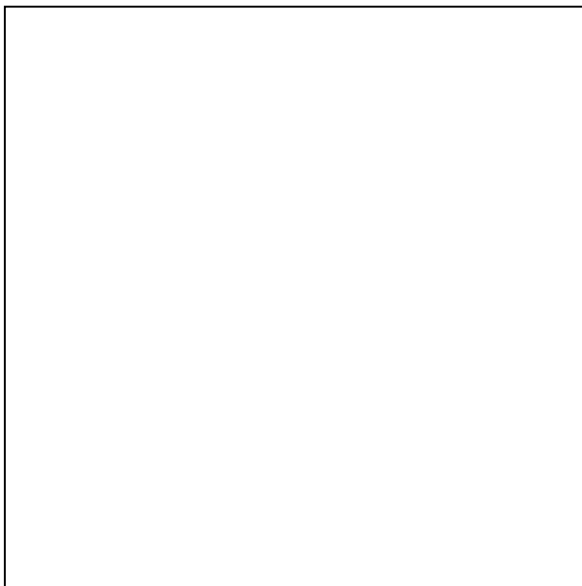
Voltage(V): 219.80 V
Current(A): 0.1370 A
Power(W): 28.64 W
Power Factor: 0.9470
Lamp Luminous Flux: 1874.23

Photometric Results

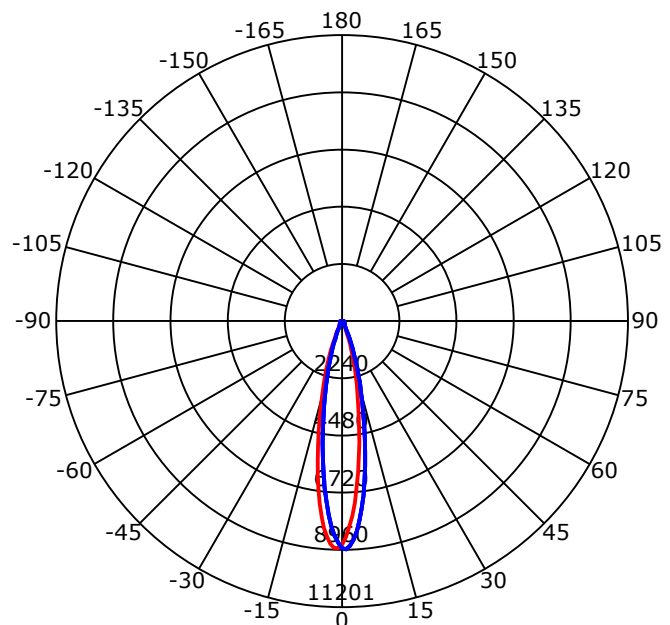
CIE Class: Direct
Luminaire Luminous Flux: 1874.231 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.44 lm/W
Beam Angle(50%) C0-180,C90-270: 20.6,21.1
Field Angle(10%) C0-180,C90-270: 41.9,42.4
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 8960.43 cd
Max.Intensity Angle: C=225 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8755.87 cd
Effective Luminous Flux: 1362.79 lm
ERP(ϕ use)(120deg): 1791.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.6 deg,21.1 deg

C0-180 — C90-270 —

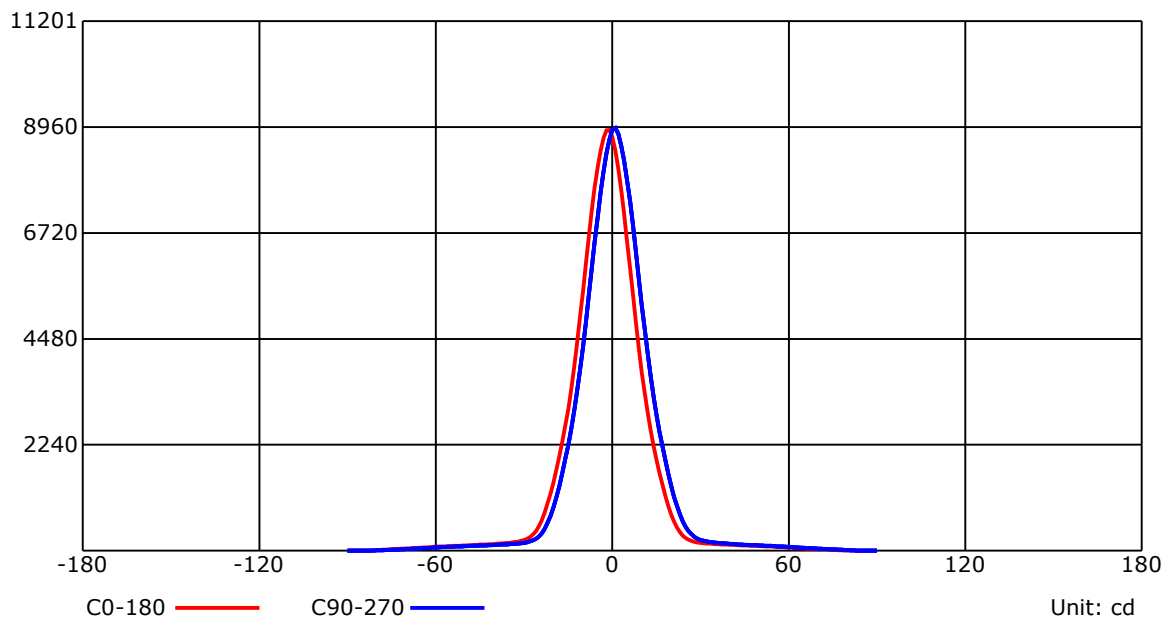
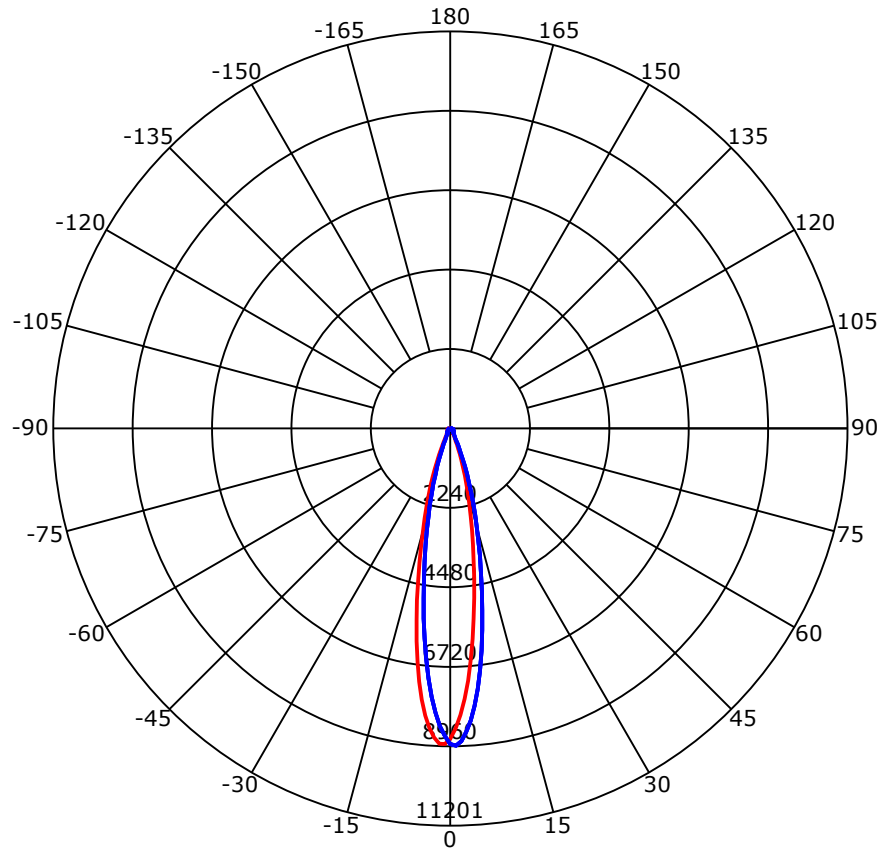
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:22:24

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



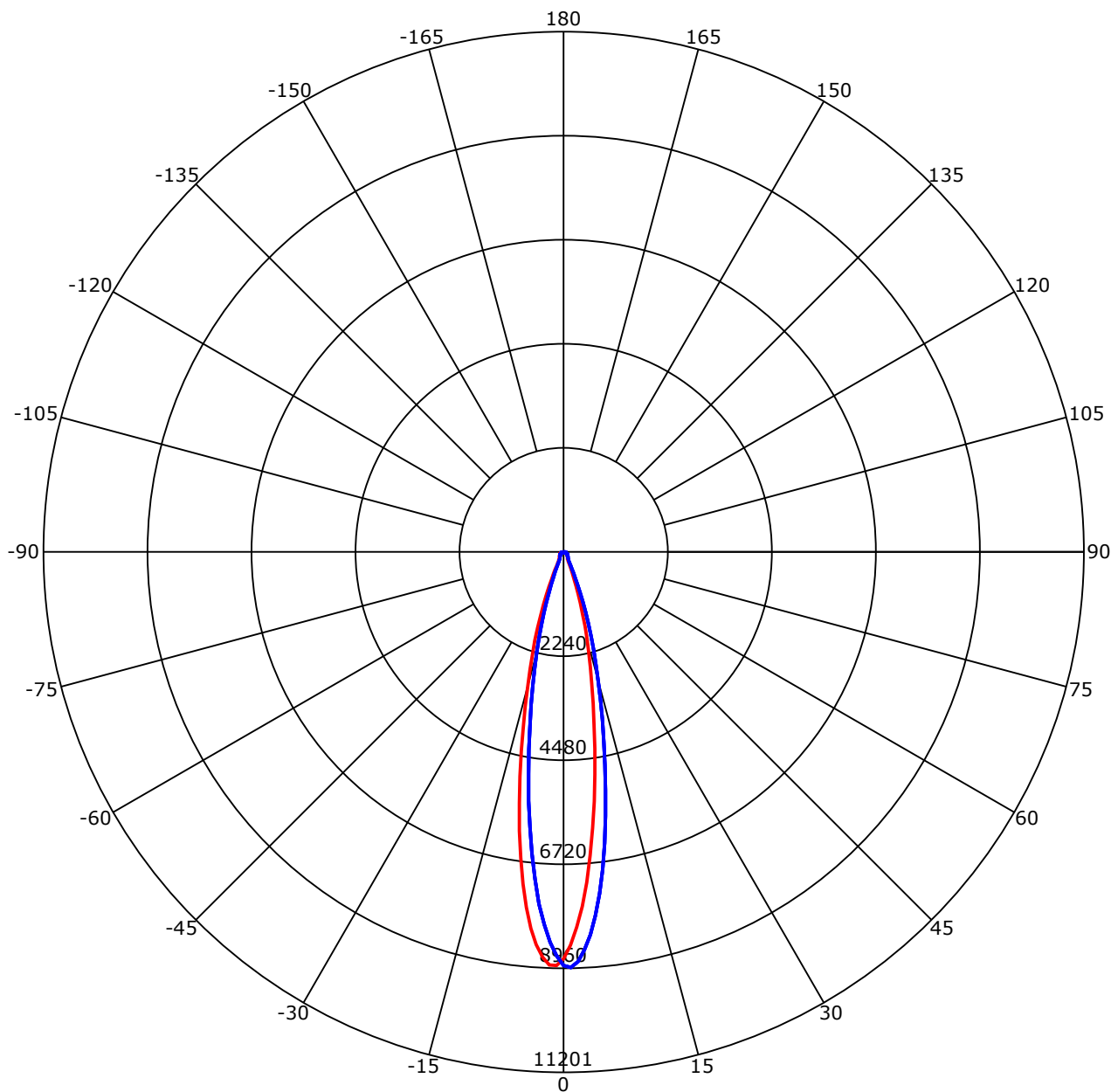
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Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Remarks:

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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: 2025/8/1 18:22:24

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

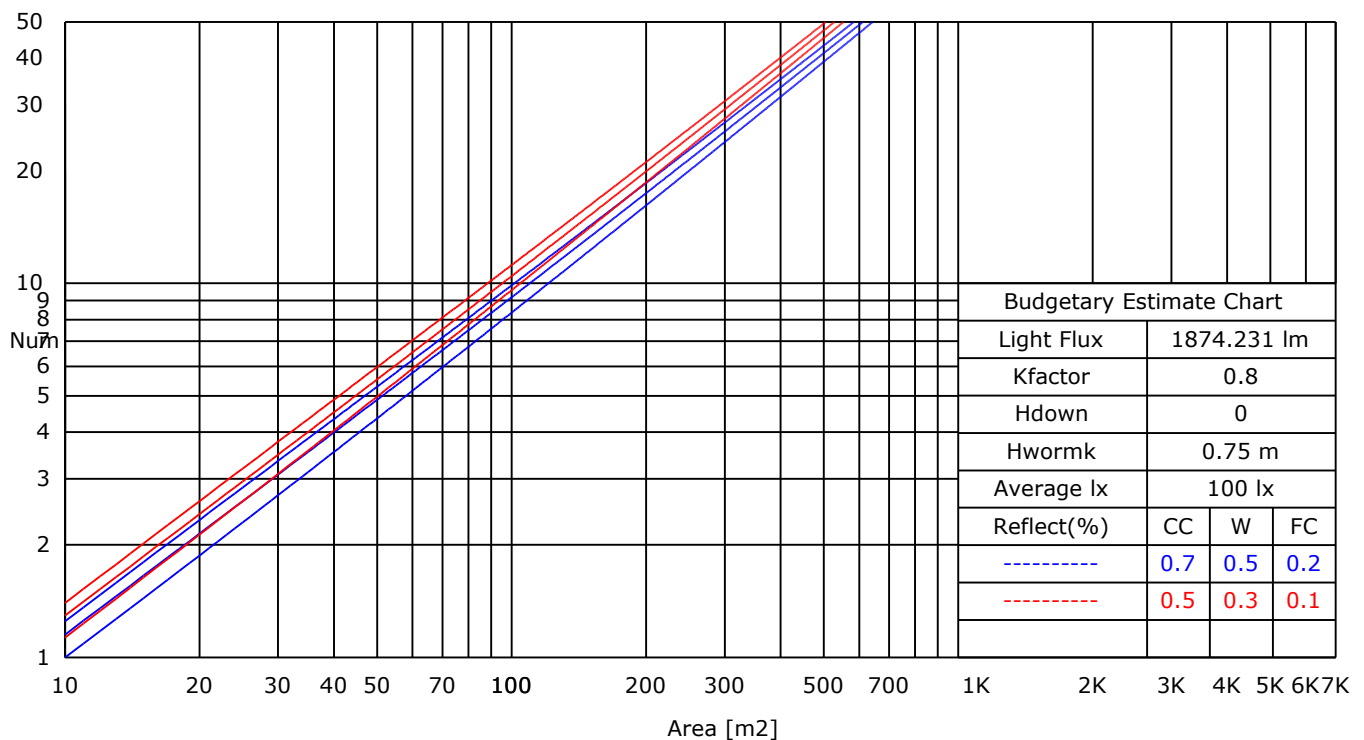
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UTILIZATION FACTORS TABLE

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	0.85	0.81	0.78	0.85	0.81	0.77	0.83	0.78	0.74	0.79	0.75	0.70	0.74	0.70	0.65	0.60
2	0.80	0.77	0.74	0.80	0.76	0.73	0.78	0.74	0.70	0.76	0.71	0.67	0.72	0.67	0.62	0.58
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.73	0.70	0.68	0.73	0.69	0.67	0.72	0.67	0.64	0.70	0.65	0.61	0.67	0.62	0.57	0.53
5	0.70	0.68	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.55	0.52
6	0.68	0.65	0.64	0.68	0.65	0.63	0.67	0.63	0.60	0.65	0.61	0.57	0.63	0.58	0.54	0.50
7	0.66	0.64	0.62	0.65	0.63	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.62	0.56	0.52	0.49
8	0.64	0.62	0.61	0.64	0.61	0.60	0.63	0.59	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.48
9	0.62	0.61	0.60	0.62	0.60	0.58	0.61	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.50	0.47
10	0.61	0.60	0.59	0.61	0.59	0.57	0.60	0.57	0.55	0.59	0.55	0.52	0.58	0.53	0.49	0.46

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



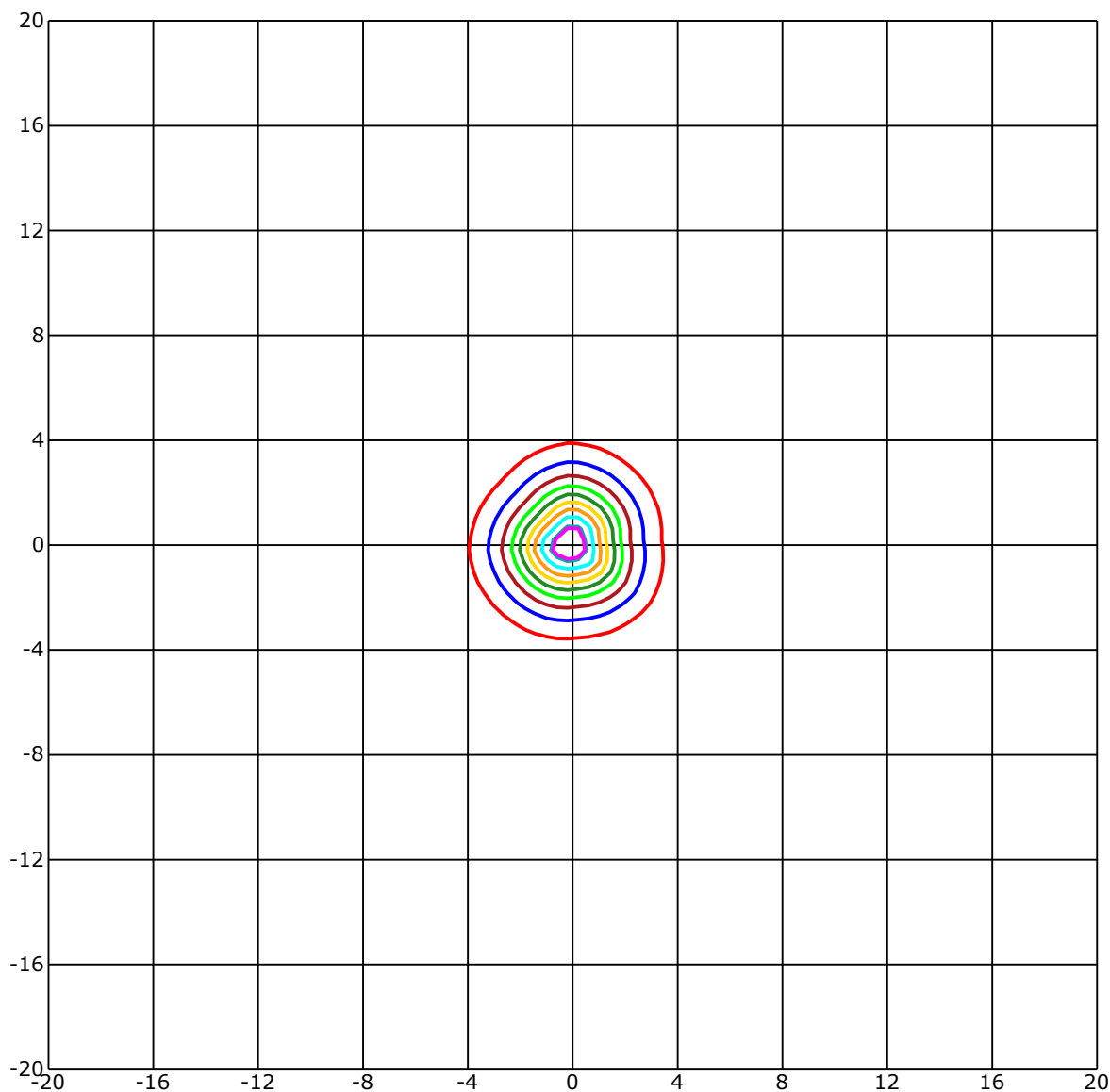
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:22:24

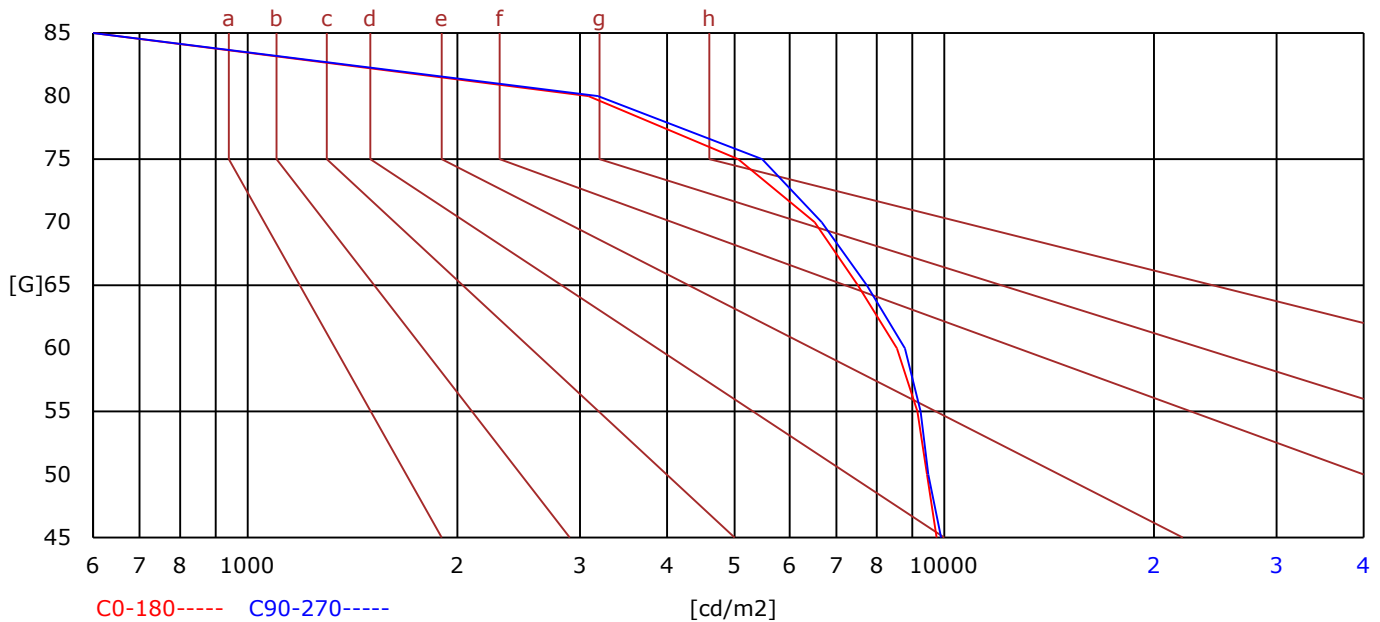
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9753	9442	9153	8549	7512	6514	5060	3085	0
C90	9894	9490	9247	8782	7740	6672	5476	3183	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



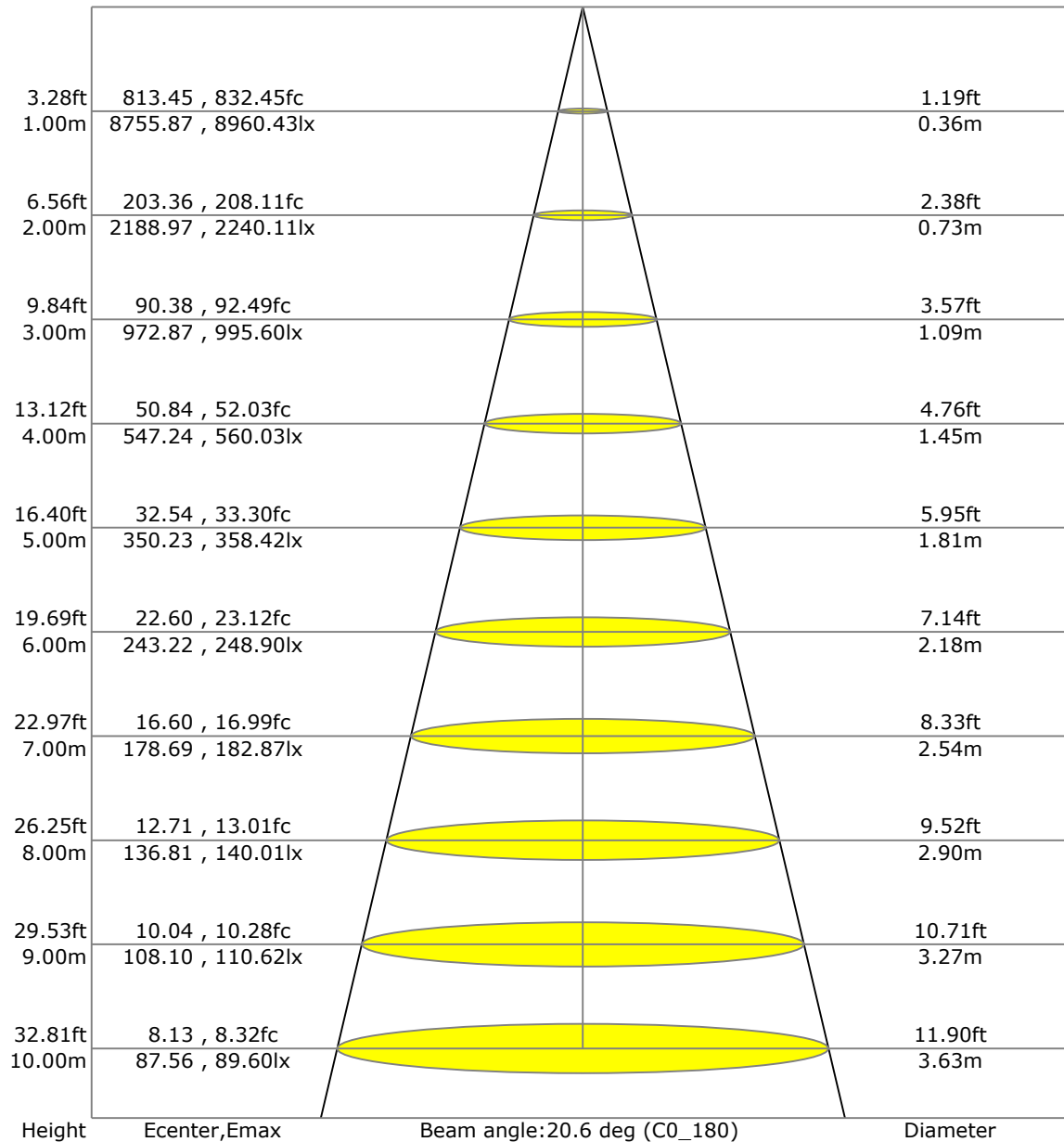
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:22:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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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	9.89	9.95	10.09	10.14	10.38	10.19	10.25	10.39	10.44	10.68
3H	10.03	10.09	10.23	10.29	10.53	10.29	10.35	10.49	10.55	10.79
4H	10.04	10.11	10.25	10.30	10.55	10.29	10.35	10.50	10.55	10.80
6H	10.03	10.09	10.24	10.30	10.55	10.27	10.34	10.49	10.54	10.79
8H	10.02	10.09	10.24	10.29	10.54	10.26	10.33	10.48	10.53	10.79
12H	10.01	10.08	10.23	10.28	10.54	10.25	10.32	10.47	10.53	10.78
4H 2H	11.40	11.47	11.61	11.67	11.91	12.03	12.10	12.24	12.30	12.55
3H	11.65	11.72	11.87	11.92	12.18	12.24	12.31	12.46	12.51	12.77
4H	11.69	11.76	11.92	11.97	12.23	12.26	12.33	12.49	12.54	12.80
6H	11.68	11.75	11.92	11.97	12.24	12.24	12.31	12.48	12.53	12.80
8H	11.67	11.74	11.92	11.96	12.23	12.23	12.30	12.47	12.52	12.79
12H	11.66	11.72	11.91	11.95	12.23	12.21	12.28	12.46	12.51	12.78
8H 4H	11.45	11.52	11.67	11.73	11.98	12.29	12.36	12.51	12.56	12.82
6H	11.76	11.82	12.01	12.06	12.33	12.55	12.62	12.81	12.86	13.13
8H	11.74	11.80	12.00	12.05	12.33	12.54	12.60	12.80	12.85	13.12
12H	11.72	11.78	11.99	12.04	12.32	12.52	12.58	12.79	12.83	13.12
12H 4H	11.74	11.81	12.00	12.04	12.31	12.56	12.62	12.81	12.86	13.13
6H	11.74	11.80	12.00	12.05	12.33	12.54	12.60	12.80	12.85	13.13

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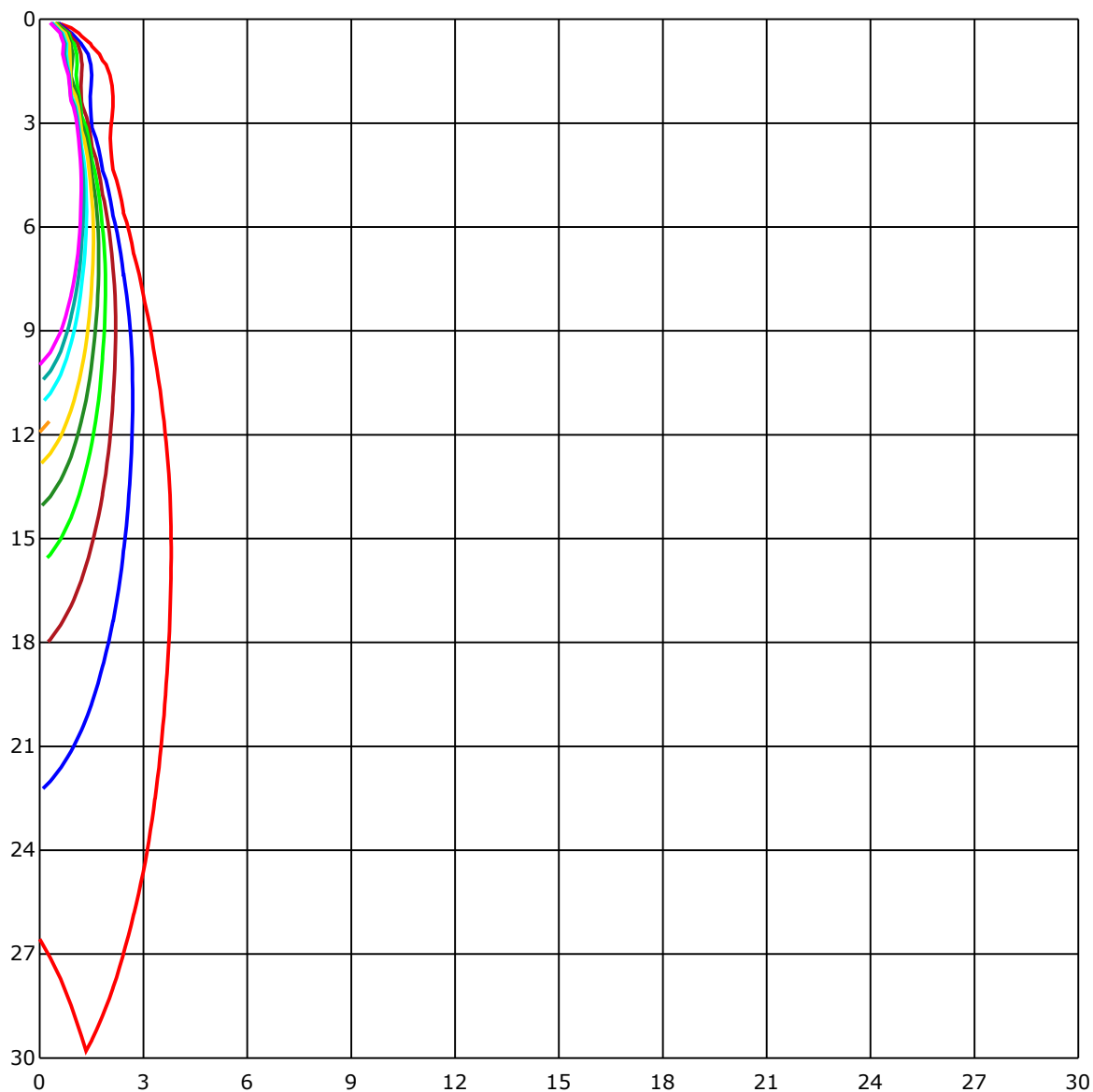
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

87.911
79.12
70.329
61.538
52.747

43.956
35.164
26.373
17.582
8.791

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8755.87	8960.43	8901.57	8922.76	8755.87	8960.43	8901.57	8922.76	8755.87	
G1	8460.52	8838.7	8942.54	8793.44	8898.36	8908.56	8688.62	8869.71	8460.52	
G2	8080.82	8583.51	8820.11	8550.38	8892.6	8726.75	8406.81	8660.11	8080.82	
G3	7640.47	8219.81	8570.3	8235.48	8731.9	8433.66	8028.38	8359.09	7640.47	
G4	7131.97	7817.36	8258.32	7801.74	8468.35	8072.18	7593.93	7965.7	7131.97	
G5	6559.61	7333.78	7853.14	7332.84	8129.52	7627.35	7068.44	7499.59	6559.61	
G6	5970.17	6803.48	7388.96	6790.83	7691.02	7135.37	6530.31	6970.09	5970.17	
G7	5409.47	6252.55	6881.92	6247.17	7194.37	6589.3	5967.81	6411.27	5409.47	
G8	4833.01	5678.45	6328.3	5659.29	6648.06	6033.79	5409.43	5848.26	4833.01	
G9	4285.76	5108.22	5756.94	5083.15	6080.52	5456.86	4840.09	5258.3	4285.76	
G10	3778.77	4581.31	5199.26	4531.94	5491.17	4895.69	4313.33	4692.36	3778.77	
G11	3318.7	4064.22	4669.0	4028.3	4924.1	4355.9	3802.84	4162.01	3318.7	
G12	2911.2	3594.56	4166.83	3554.35	4375.48	3862.08	3357.64	3676.31	2911.2	
G13	2549.77	3163.99	3697.74	3143.69	3876.0	3417.72	2948.67	3238.98	2549.77	
G14	2225.52	2785.51	3274.71	2762.15	3417.67	3010.69	2573.98	2851.17	2225.52	
G15	1935.03	2428.85	2884.39	2414.22	2996.06	2633.02	2238.12	2507.05	1935.03	
G16	1663.22	2122.26	2531.26	2108.57	2633.12	2290.56	1930.64	2182.53	1663.22	
G17	1398.92	1835.44	2211.08	1821.66	2303.87	1972.03	1637.45	1888.68	1398.92	
G18	1157.55	1561.75	1920.3	1549.9	2005.82	1681.01	1370.6	1611.16	1157.55	
G19	951.25	1311.56	1635.99	1296.55	1728.26	1409.3	1136.64	1353.09	951.25	
G20	766.67	1084.11	1376.64	1066.65	1459.75	1172.04	930.53	1117.72	766.67	
G21	615.31	888.1	1142.73	863.75	1217.73	958.05	746.04	908.21	615.31	
G22	484.95	711.59	935.54	688.74	1001.71	771.2	590.29	725.98	484.95	
G23	385.79	568.2	760.06	548.85	808.53	618.99	462.77	579.81	385.79	
G24	314.14	453.61	613.98	435.53	646.6	494.43	370.87	459.04	314.14	
G25	265.81	367.0	498.97	353.65	517.37	397.3	301.78	372.29	265.81	
G26	229.24	303.66	405.28	294.6	412.17	328.87	253.21	310.18	229.24	
G27	203.89	256.99	337.22	252.98	341.14	277.19	219.84	265.77	203.89	
G28	185.77	224.66	288.7	223.48	288.09	240.19	195.54	232.44	185.77	
G29	174.02	202.71	253.92	203.75	252.22	215.17	179.16	210.59	174.02	
G30	164.15	185.2	227.87	187.28	225.6	198.93	167.12	193.6	164.15	
G31	158.58	173.07	208.75	177.84	208.56	184.3	158.39	182.42	158.58	
G32	151.6	165.33	195.54	168.3	193.32	174.72	152.16	172.88	151.6	
G33	149.57	157.45	185.63	161.93	183.64	165.85	146.36	165.76	149.57	
G34	142.63	152.78	176.94	155.09	175.29	160.09	141.59	159.67	142.63	
G35	139.89	147.25	169.44	151.17	167.31	154.0	138.62	155.14	139.89	
G36	135.5	143.29	163.91	145.84	161.7	149.9	133.76	149.8	135.5	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	133.57	140.08	158.86	142.53	157.92	145.6	130.83	146.17	133.57	
G38	129.79	136.59	154.43	137.77	151.55	142.3	127.71	141.78	129.79	
G39	127.76	132.62	148.2	133.76	147.96	137.53	124.74	138.15	127.76	
G40	124.93	129.13	145.7	130.36	143.57	134.42	122.62	135.36	124.93	
G41	120.78	126.35	140.69	128.0	140.22	130.36	118.32	131.16	120.78	
G42	118.37	122.57	137.15	124.27	136.54	128.47	115.3	128.19	118.37	
G43	117.38	120.26	132.81	122.33	133.05	124.27	113.51	125.83	117.38	
G44	113.13	118.32	129.7	118.46	129.74	121.48	110.63	122.33	113.13	
G45	110.91	114.83	126.25	116.48	127.29	119.17	108.41	120.26	110.91	
G46	107.51	112.8	123.99	112.85	123.7	116.67	106.38	116.34	107.51	
G47	105.58	110.35	119.64	109.83	120.45	112.9	103.41	115.07	105.58	
G48	102.37	106.43	118.04	106.71	117.52	110.96	100.34	111.15	102.37	
G49	100.2	103.36	114.74	105.01	115.02	107.18	97.6	108.46	100.2	
G50	97.04	101.05	110.96	101.57	111.43	105.3	95.9	106.24	97.04	
G51	94.96	98.12	107.7	99.21	109.26	101.8	92.98	104.12	94.96	
G52	92.13	96.42	105.63	97.08	105.82	100.58	90.29	100.2	92.13	
G53	89.25	93.03	101.99	94.87	103.22	96.61	87.22	97.84	89.25	
G54	86.75	90.95	100.29	91.28	101.19	93.87	85.33	94.72	86.75	
G55	84.39	87.41	98.12	88.31	97.98	92.36	82.41	92.51	84.39	
G56	80.71	85.0	93.12	86.04	95.05	89.3	80.99	89.15	80.71	
G57	77.73	81.79	90.33	82.88	92.74	86.09	77.54	87.31	77.73	
G58	73.58	79.34	88.78	80.0	90.33	84.77	74.05	83.4	73.58	
G59	70.51	74.85	83.92	75.52	87.27	80.57	70.37	80.52	70.51	
G60	65.65	71.17	80.71	73.11	84.48	76.32	66.88	75.09	65.65	
G61	61.92	66.74	76.93	69.47	80.47	72.4	63.2	72.16	61.92	
G62	58.62	63.95	71.98	64.19	75.61	68.29	59.33	68.29	58.62	
G63	54.7	59.47	67.92	60.79	72.54	64.66	55.55	65.04	54.7	
G64	51.26	55.79	64.61	56.92	67.73	62.54	53.05	60.6	51.26	
G65	48.28	52.86	60.65	54.47	65.27	58.29	48.71	57.77	48.28	
G66	44.88	49.56	57.67	50.6	61.31	54.75	45.78	53.66	44.88	
G67	42.01	45.83	53.66	47.57	57.44	50.64	42.48	51.11	42.01	
G68	38.37	42.57	50.97	43.47	53.24	48.57	39.98	47.34	38.37	
G69	36.11	40.26	47.34	40.73	50.78	44.74	36.39	44.41	36.11	
G70	32.28	37.1	44.93	37.99	47.1	41.91	33.51	41.01	32.28	
G71	30.21	34.22	41.06	34.12	43.89	38.89	30.35	38.32	30.21	
G72	27.89	30.73	38.7	31.1	40.49	35.3	28.7	34.69	27.89	
G73	24.12	27.66	35.02	29.4	37.9	32.0	25.01	32.38	24.12	

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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