

Report No.:

Test Time: 2024/5/23 15:10:52

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H74-60°-10.6W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

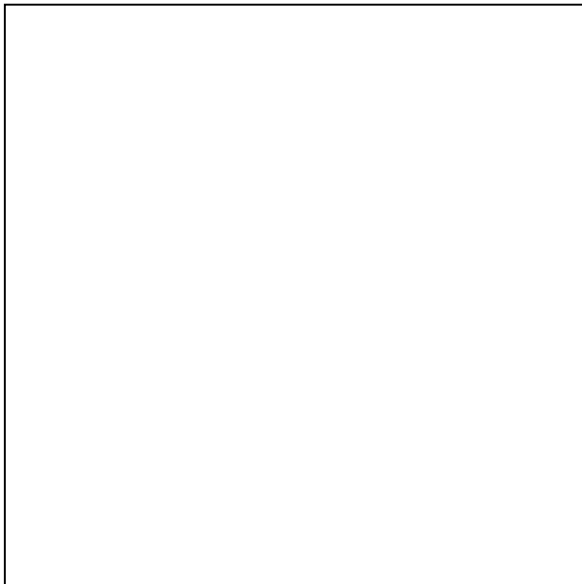
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.61 W
Power Factor: 0.9180
Lamp Luminous Flux: 1175.43

Photometric Results

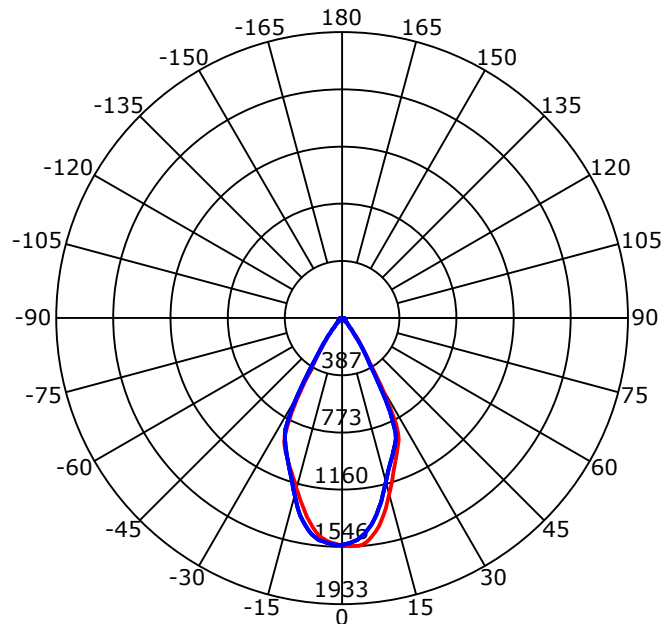
CIE Class: Direct
Luminaire Luminous Flux: 1175.426 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 110.78 lm/W
Beam Angle(50%) C0-180,C90-270: 54.8,54.4
Field Angle(10%) C0-180,C90-270: 75.0,74.8
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 1546.01 cd
Max.Intensity Angle: C=315 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1535.64 cd
Effective Luminous Flux: 1059.34 lm
ERP(ϕ use)(120deg): 1146.29 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.8 deg,54.4 deg

C0-180 — C90-270 —

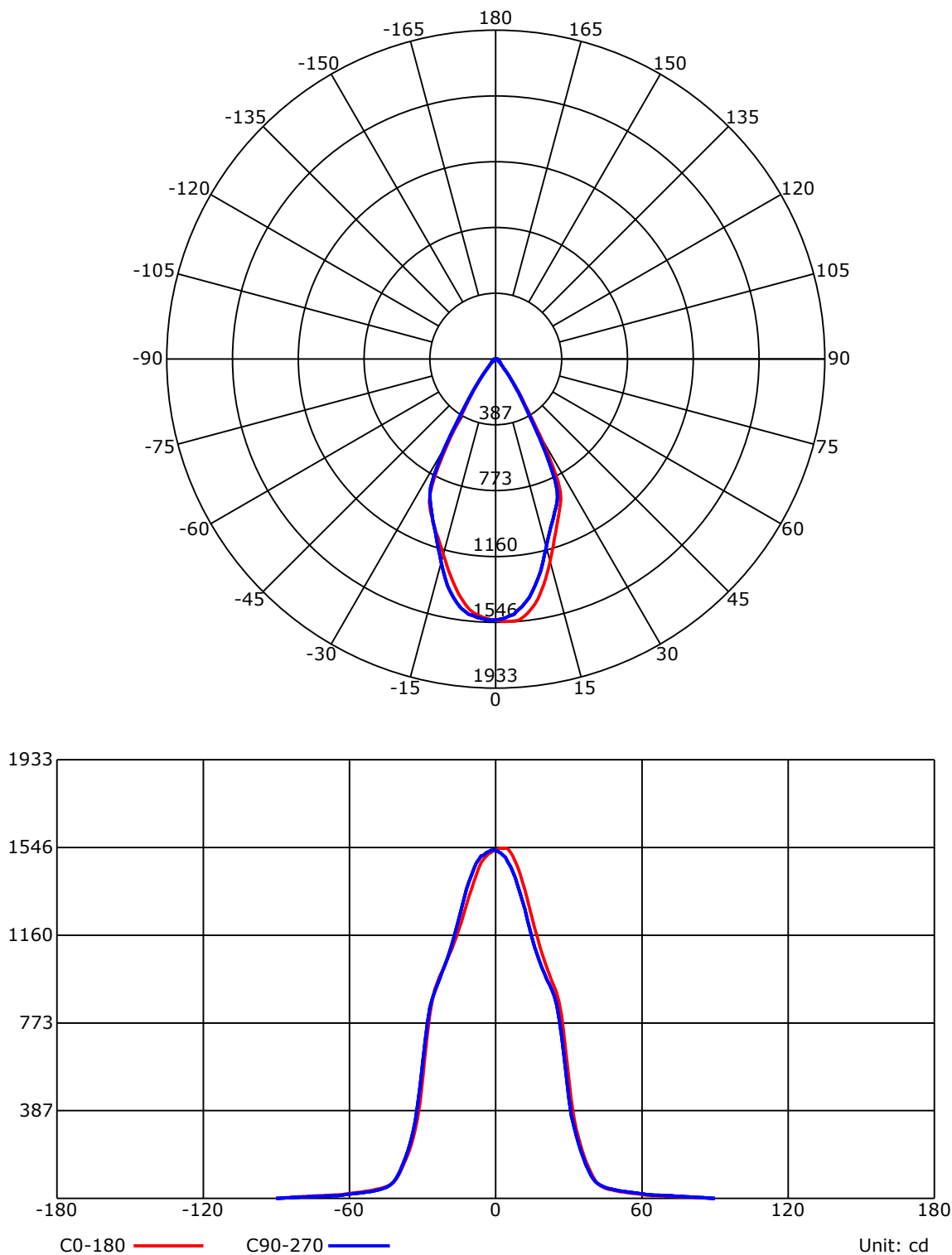
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:10:52

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



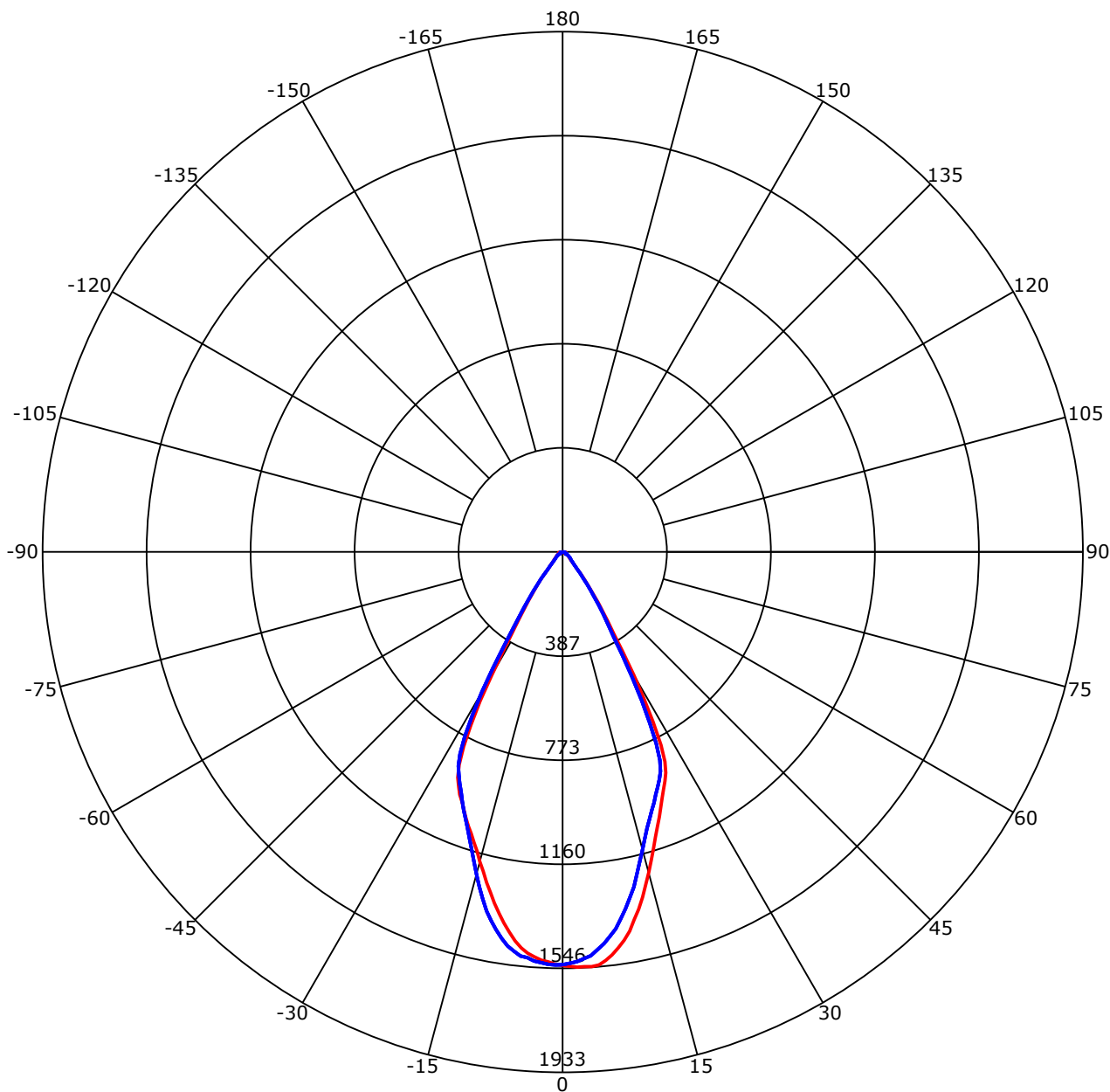
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

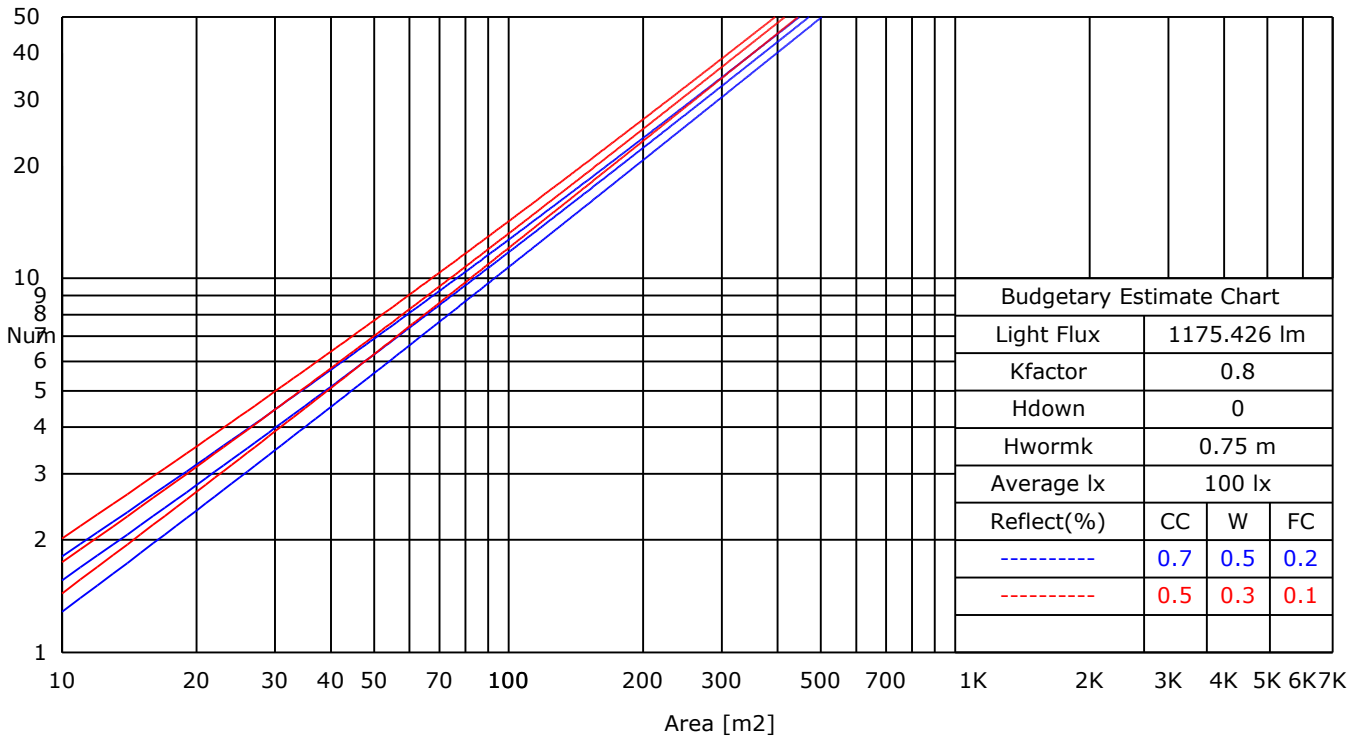
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Remarks:

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	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.90	0.88	0.87	0.81
2	1.00	0.99	0.97	0.99	0.97	0.96	0.96	0.93	0.91	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	0.92	0.90	0.89	0.91	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	0.85	0.82	0.80	0.82	0.78	0.75	0.78	0.74	0.71	0.67
6	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.68	0.65
7	0.82	0.80	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.62
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



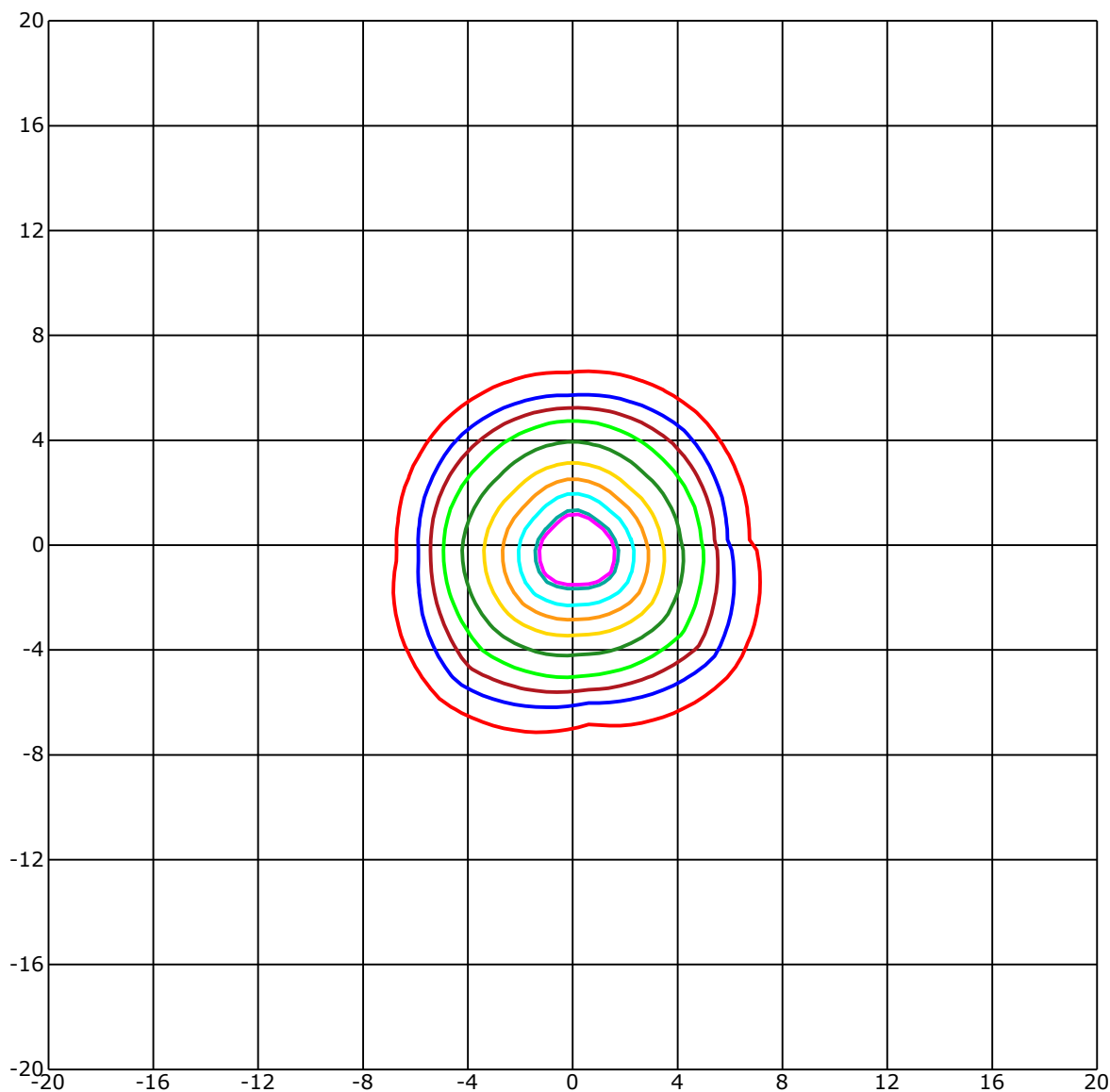
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:10:52

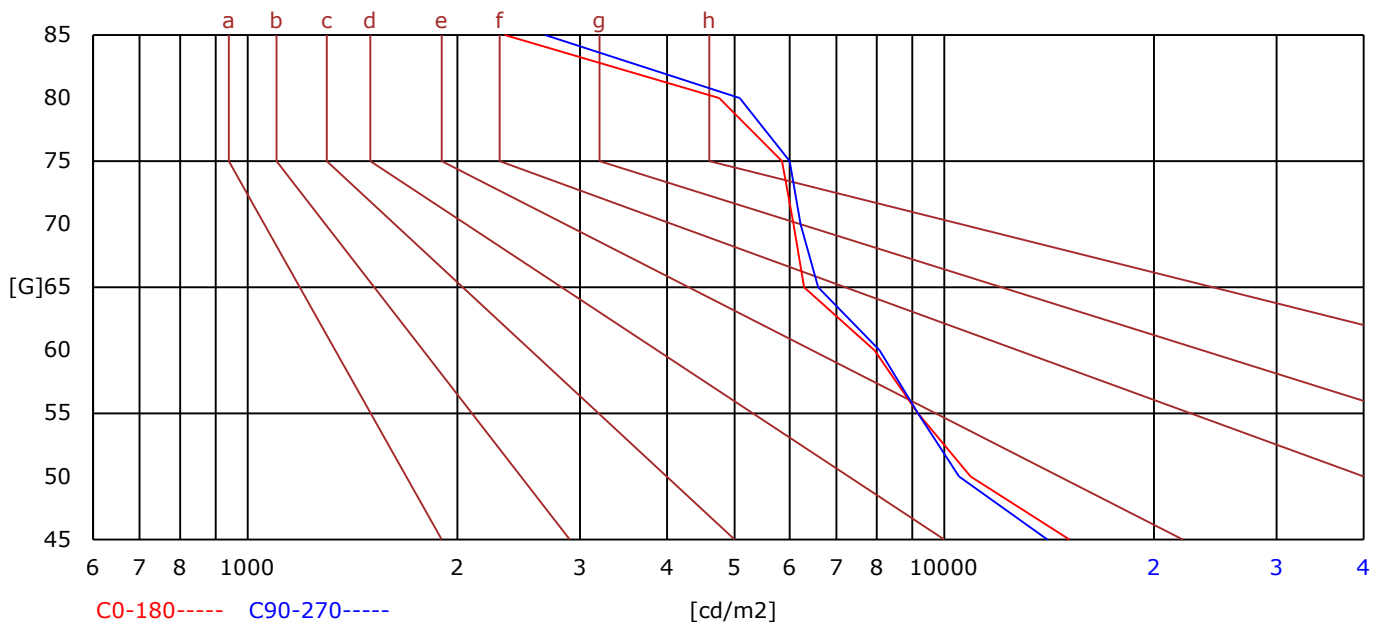
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15130	10904	9174	7941	6294	6074	5851	4752	2339
C90	14059	10497	9174	8077	6593	6216	6001	5087	2673
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

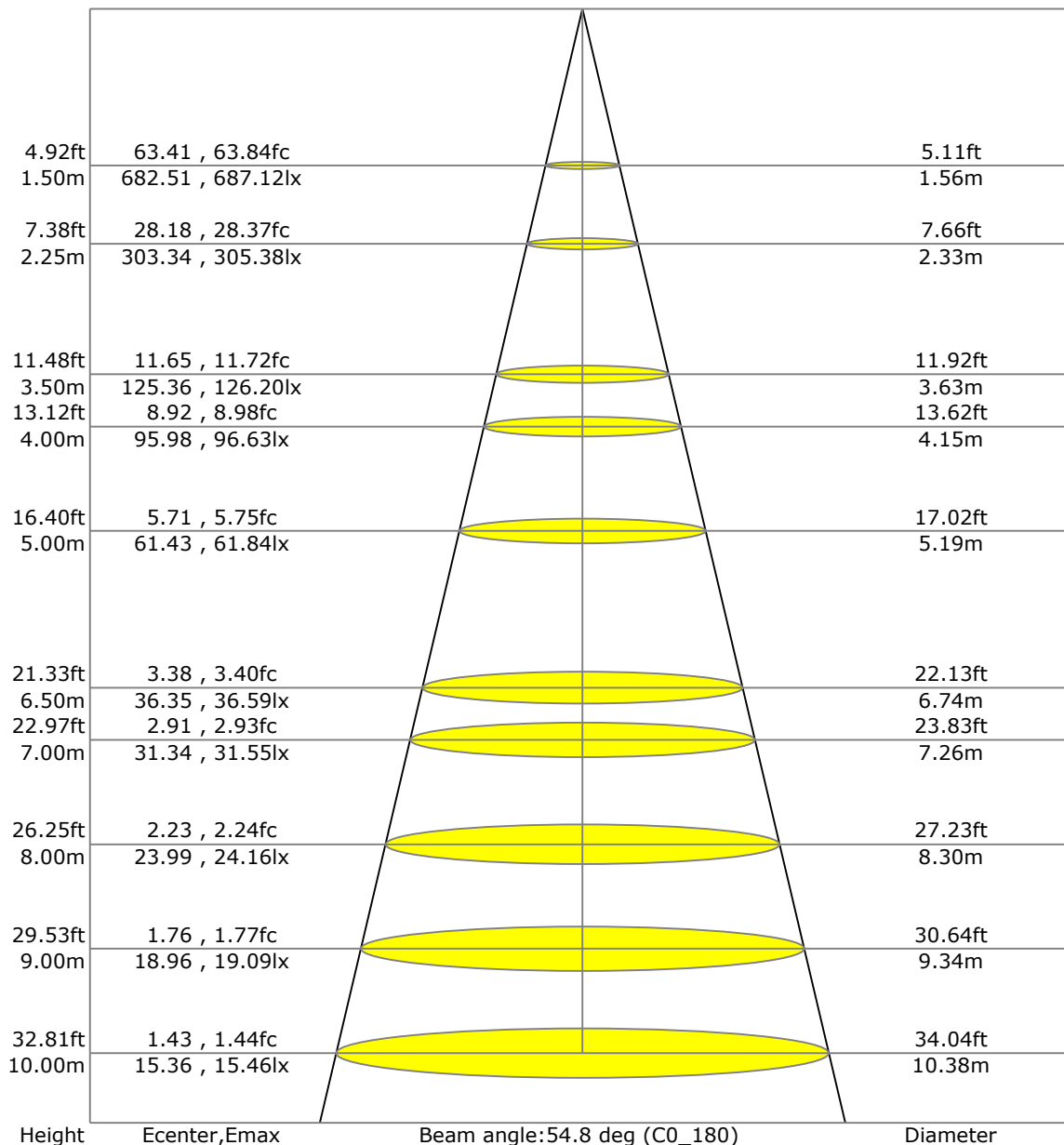


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LX-DISTANCE DIAGRAM



G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu C
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu C
Humidity: 60
Test Distance: 6.7 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	13.48	13.53	13.68	13.72	13.96	13.54	13.59	13.74	13.78	14.02
	3H	13.48	13.53	13.69	13.73	13.97	13.54	13.59	13.74	13.78	14.03
	4H	13.47	13.53	13.68	13.72	13.97	13.53	13.58	13.74	13.77	14.02
	6H	13.46	13.51	13.67	13.71	13.96	13.51	13.56	13.73	13.76	14.01
	8H	13.45	13.50	13.67	13.70	13.96	13.50	13.55	13.72	13.76	14.01
	12H	13.44	13.49	13.66	13.70	13.95	13.49	13.54	13.71	13.75	14.00
4H	2H	13.86	13.91	14.07	14.11	14.36	14.03	14.08	14.24	14.28	14.53
	3H	13.92	13.98	14.15	14.18	14.44	14.09	14.14	14.31	14.35	14.60
	4H	13.93	13.98	14.16	14.20	14.46	14.10	14.15	14.33	14.36	14.62
	6H	13.93	13.97	14.16	14.20	14.46	14.09	14.14	14.32	14.36	14.62
	8H	13.92	13.96	14.16	14.19	14.46	14.08	14.12	14.32	14.35	14.62
	12H	13.90	13.95	14.15	14.18	14.45	14.06	14.11	14.31	14.34	14.61
8H	4H	14.00	14.05	14.22	14.26	14.51	14.24	14.30	14.46	14.50	14.75
	6H	14.15	14.19	14.40	14.43	14.70	14.40	14.44	14.65	14.68	14.95
	8H	14.14	14.18	14.40	14.43	14.71	14.39	14.43	14.65	14.68	14.95
	12H	14.13	14.17	14.40	14.42	14.70	14.37	14.41	14.64	14.67	14.95
12H	4H	14.19	14.23	14.44	14.47	14.73	14.47	14.52	14.72	14.75	15.02
	6H	14.20	14.24	14.46	14.49	14.76	14.49	14.53	14.75	14.77	15.05

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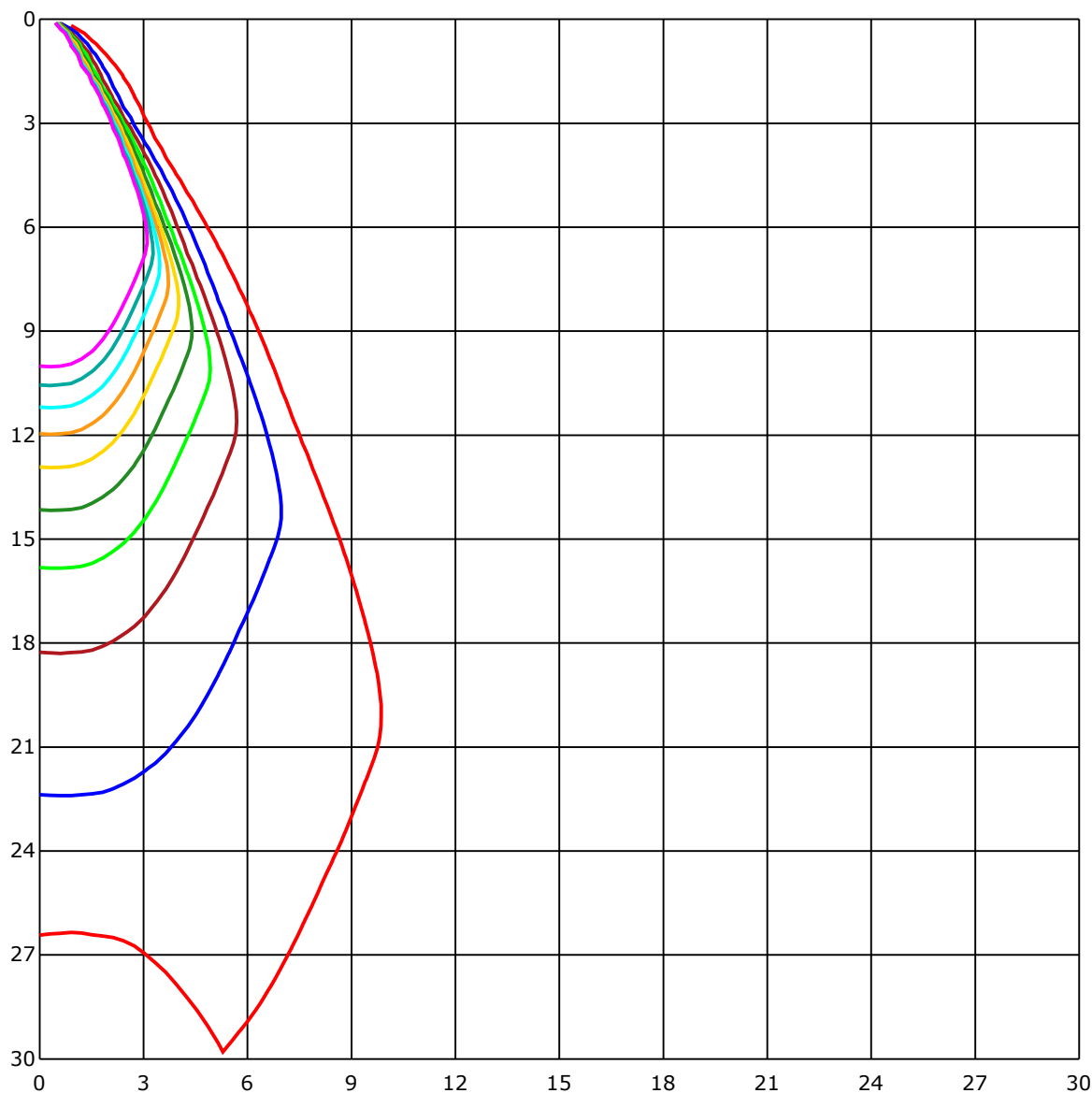
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

15.338

13.804

12.27

10.736

9.203

7.669

6.135

4.601

3.068

1.534

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1535.64	1533.8	1532.72	1525.36	1535.64	1533.8	1532.72	1525.36	1535.64	
G1	1538.96	1529.45	1527.61	1518.36	1531.33	1532.99	1534.16	1530.48	1538.96	
G2	1543.18	1524.42	1522.0	1502.87	1523.34	1530.03	1532.72	1535.64	1543.18	
G3	1541.66	1517.28	1511.72	1491.47	1518.18	1525.63	1527.38	1544.62	1541.66	
G4	1543.27	1503.73	1502.78	1473.96	1506.6	1519.44	1522.35	1542.96	1543.27	
G5	1539.82	1487.21	1482.36	1453.99	1495.87	1511.72	1512.7	1546.01	1539.82	
G6	1525.59	1462.25	1462.79	1423.19	1477.87	1504.8	1508.62	1538.92	1525.59	
G7	1507.77	1435.72	1438.68	1389.75	1454.71	1495.47	1492.82	1531.47	1507.77	
G8	1484.69	1402.59	1413.14	1355.32	1425.12	1481.19	1476.75	1518.9	1484.69	
G9	1460.41	1364.07	1379.34	1322.28	1395.09	1460.95	1452.28	1507.95	1460.41	
G10	1429.88	1329.37	1345.67	1284.66	1363.09	1437.51	1424.54	1484.74	1429.88	
G11	1391.28	1288.39	1306.66	1247.9	1328.34	1408.74	1394.28	1456.77	1391.28	
G12	1356.26	1252.03	1271.78	1209.29	1293.19	1378.93	1363.04	1424.58	1356.26	
G13	1316.0	1207.99	1226.13	1171.23	1259.03	1346.16	1321.34	1394.51	1316.0	
G14	1274.02	1167.63	1184.74	1133.11	1221.73	1306.34	1280.71	1362.73	1274.02	
G15	1232.72	1126.78	1143.84	1101.02	1191.16	1268.82	1239.55	1323.63	1232.72	
G16	1190.89	1088.54	1106.9	1071.97	1155.02	1230.7	1196.09	1286.5	1190.89	
G17	1151.79	1055.81	1072.47	1045.58	1127.86	1192.19	1156.73	1251.35	1151.79	
G18	1113.14	1028.43	1042.66	1018.87	1098.95	1158.88	1119.78	1210.95	1113.14	
G19	1079.07	997.19	1014.78	993.73	1076.73	1128.71	1085.89	1174.68	1079.07	
G20	1047.73	970.97	991.08	967.69	1050.83	1103.58	1054.65	1142.0	1047.73	
G21	1016.58	945.83	964.69	943.54	1025.11	1074.4	1025.87	1108.02	1016.58	
G22	985.74	922.0	941.79	916.34	999.52	1049.08	996.96	1076.28	985.74	
G23	957.77	896.23	918.36	894.84	978.92	1018.38	967.24	1044.99	957.77	
G24	932.19	872.57	892.14	862.07	950.5	993.91	940.94	1014.92	932.19	
G25	905.3	843.48	853.31	832.93	923.7	966.53	912.43	989.11	905.3	
G26	865.7	810.04	792.67	794.82	878.23	943.32	884.15	960.6	865.7	
G27	804.61	767.8	713.39	746.88	811.21	916.16	841.64	934.74	804.61	
G28	716.22	713.3	625.54	690.72	727.67	886.58	775.3	904.8	716.22	
G29	622.71	651.62	532.62	622.4	631.92	858.57	690.27	872.12	622.71	
G30	528.67	586.8	441.0	550.44	527.41	819.33	600.27	835.63	528.67	
G31	434.98	518.43	366.53	479.56	430.63	768.11	504.2	786.07	434.98	
G32	357.68	451.19	318.54	410.92	355.39	708.18	414.29	725.47	357.68	
G33	305.57	382.37	276.93	344.62	304.08	643.72	341.84	656.47	305.57	
G34	265.21	317.15	239.98	284.38	261.21	572.21	290.84	585.63	265.21	
G35	228.67	255.96	206.18	233.25	225.57	499.4	249.09	511.66	228.67	
G36	194.24	202.59	177.36	187.42	195.41	428.12	213.27	438.89	194.24	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	165.33	159.67	149.12	152.85	168.38	361.27	180.68	369.67	165.33	
G38	138.13	130.05	124.12	126.9	143.6	298.92	152.99	303.23	138.13	
G39	114.56	108.77	102.44	105.99	120.57	244.02	128.16	245.55	114.56	
G40	93.28	90.9	85.11	88.3	99.84	198.64	105.94	195.99	93.28	
G41	76.0	78.29	72.99	75.5	82.96	164.57	86.77	159.81	76.0	
G42	63.7	70.07	64.42	66.21	70.7	139.74	72.23	134.27	63.7	
G43	55.48	62.49	57.55	58.58	62.49	117.93	61.5	114.33	55.48	
G44	49.38	55.53	52.57	51.89	56.56	100.1	54.32	98.04	49.38	
G45	44.49	49.47	48.26	45.97	52.03	87.22	48.75	85.7	44.49	
G46	41.12	44.49	44.76	41.57	48.08	77.08	44.26	75.33	41.12	
G47	38.34	40.22	41.79	38.38	44.49	68.64	40.76	67.29	38.34	
G48	36.18	37.03	39.64	35.91	41.93	61.45	37.84	60.56	36.18	
G49	33.89	34.83	37.35	33.35	39.55	55.26	35.46	54.63	33.89	
G50	31.83	32.41	35.42	31.2	37.39	50.41	33.31	49.87	31.83	
G51	30.03	30.3	33.53	29.76	35.51	46.42	31.24	46.15	30.03	
G52	28.24	28.86	32.01	28.01	33.49	43.23	29.58	43.18	28.24	
G53	26.66	27.29	30.12	26.8	31.96	40.58	27.79	40.81	26.66	
G54	25.14	25.63	28.73	25.5	30.3	38.43	26.31	38.47	25.14	
G55	23.75	24.33	27.29	24.33	28.86	36.27	24.73	36.41	23.75	
G56	22.36	22.98	26.04	22.98	27.34	34.3	23.52	34.79	22.36	
G57	21.28	21.68	24.55	21.86	26.08	32.37	22.31	32.68	21.28	
G58	19.84	20.69	23.21	20.87	24.6	30.84	21.14	31.06	19.84	
G59	18.81	19.53	21.55	19.89	23.21	29.63	19.75	29.31	18.81	
G60	17.15	18.36	20.16	18.67	21.73	27.97	18.81	27.88	17.15	
G61	15.85	17.28	18.54	17.55	20.42	26.53	17.42	26.49	15.85	
G62	14.45	16.03	17.1	16.61	18.94	25.45	16.3	25.32	14.45	
G63	12.97	14.9	16.21	15.08	17.24	23.97	14.86	24.06	12.97	
G64	12.43	13.78	15.67	13.96	16.47	22.94	13.29	22.76	12.43	
G65	12.12	12.3	14.9	12.88	15.71	21.64	12.48	21.41	12.12	
G66	11.72	11.54	14.41	11.76	15.22	20.34	12.17	20.16	11.72	
G67	11.13	10.95	14.01	11.27	14.68	19.03	11.54	18.58	11.13	
G68	10.77	10.59	13.38	10.77	14.19	17.91	11.22	17.64	10.77	
G69	10.28	10.1	12.97	10.37	13.74	16.56	10.73	16.07	10.28	
G70	9.92	9.61	12.34	9.83	13.02	15.53	10.32	15.35	9.92	
G71	9.52	9.07	11.81	9.29	12.57	14.9	9.97	14.81	9.52	
G72	8.98	8.57	11.49	8.84	11.94	14.23	9.47	14.1	8.98	
G73	8.57	8.08	10.64	8.3	11.58	13.69	9.07	13.42	8.57	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

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