

Report No.:

Test Time: 2024/6/28 10:44:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H69-60°-10W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 65 mm

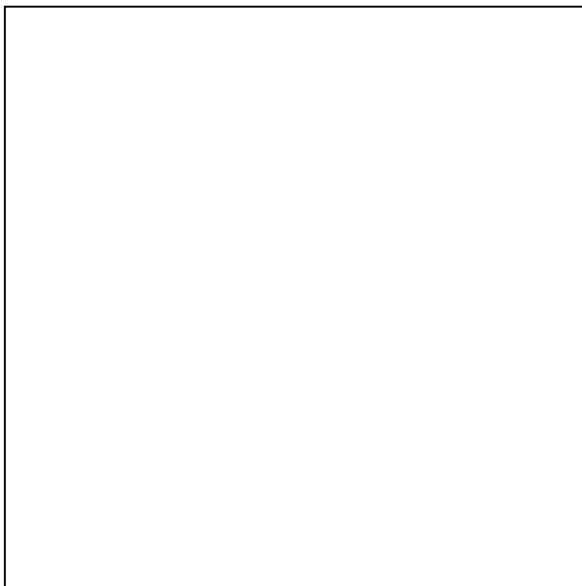
Voltage(V): 218.90 V
Current(A): 0.0550 A
Power(W): 11.19 W
Power Factor: 0.9230
Lamp Luminous Flux: 1102.86

Photometric Results

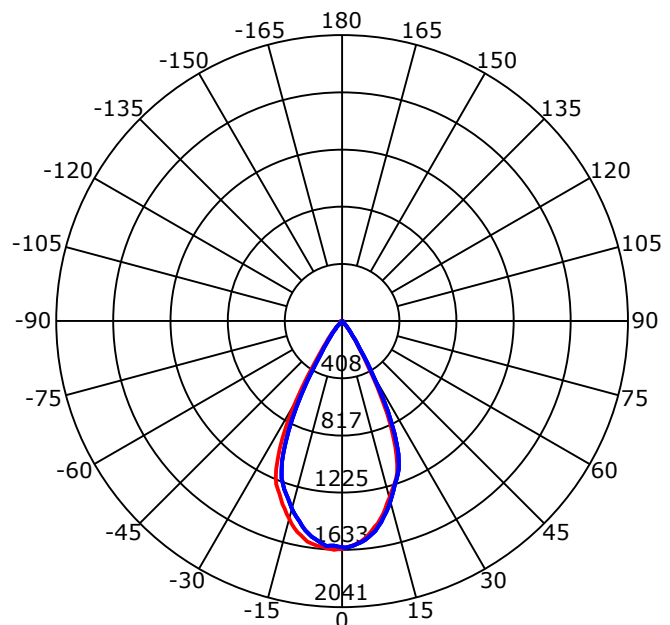
CIE Class: Direct
Luminaire Luminous Flux: 1102.86 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.56 lm/W
Beam Angle(50%) C0-180,C90-270: 53.4,52.7
Field Angle(10%) C0-180,C90-270: 72.3,70.8
S/MH C0-180,C90-270: 0.890,0.849

Max. Intensity: 1633.14 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1628.07 cd
Effective Luminous Flux: 1046.37 lm
ERP(ϕ use)(120deg): 1101.49 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.4 deg,52.7 deg

C0-180 — C90-270 —

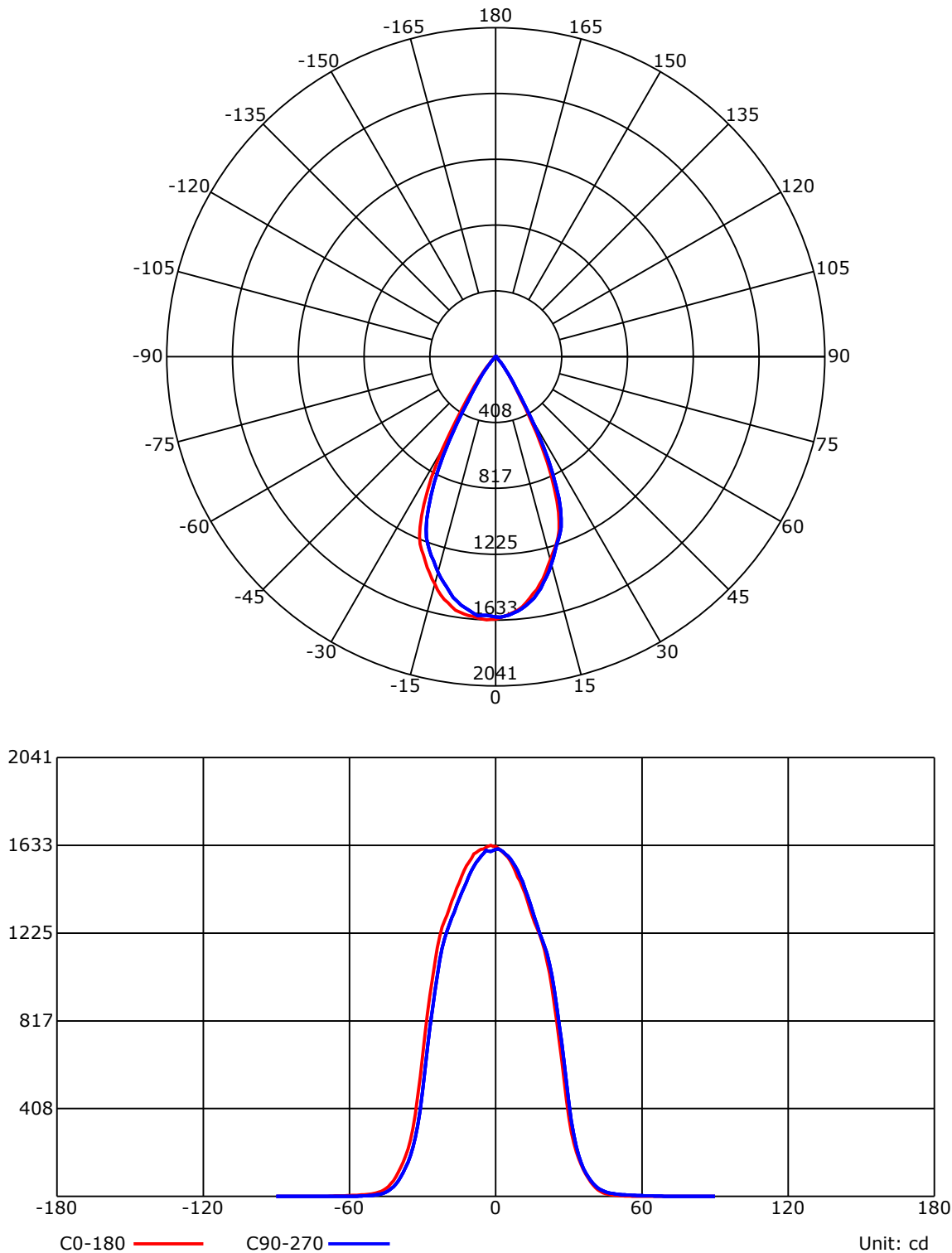
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:44:11

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



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

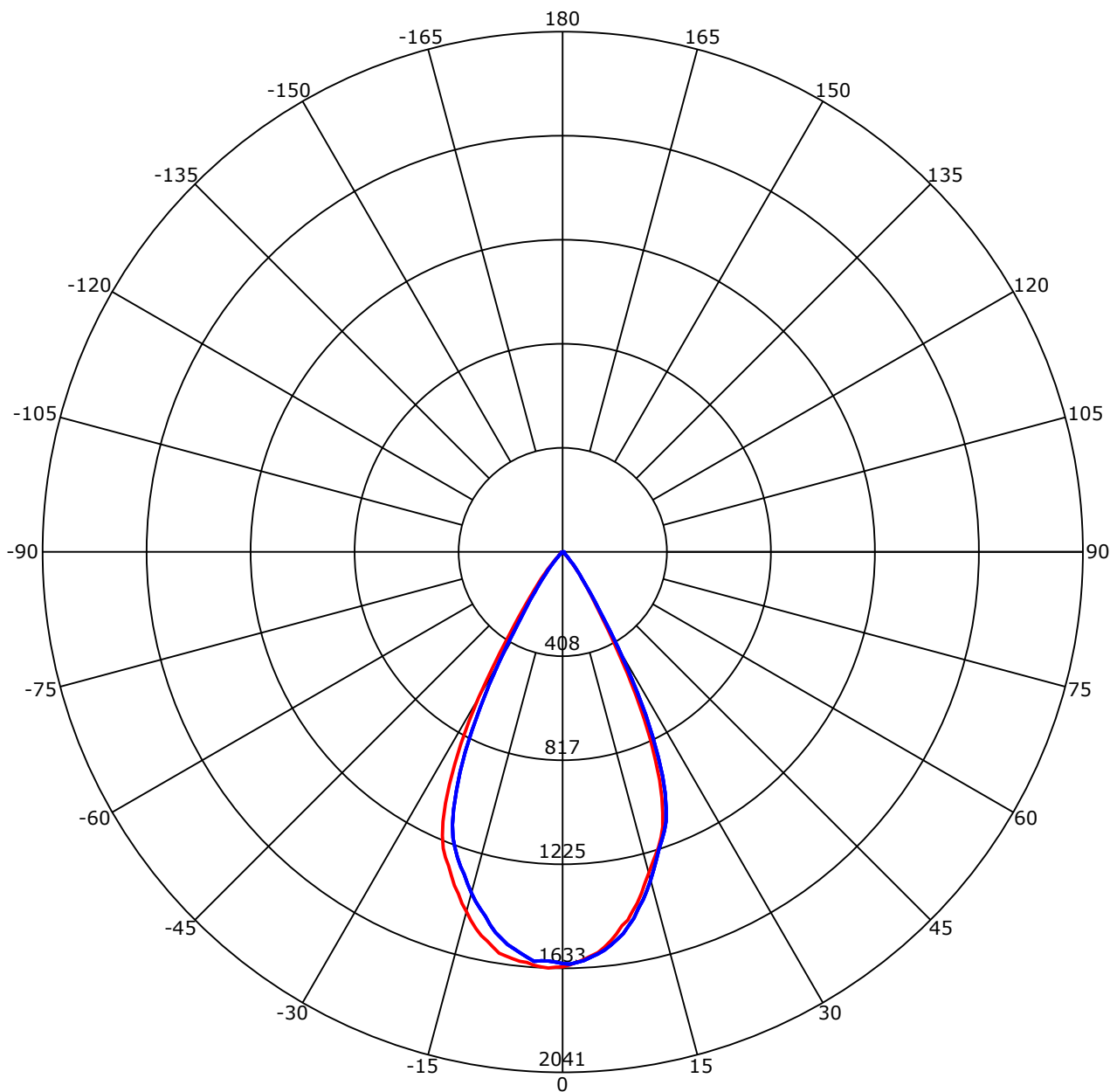
Test Distance: 6.7 m

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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: 2024/6/28 10:44:11

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

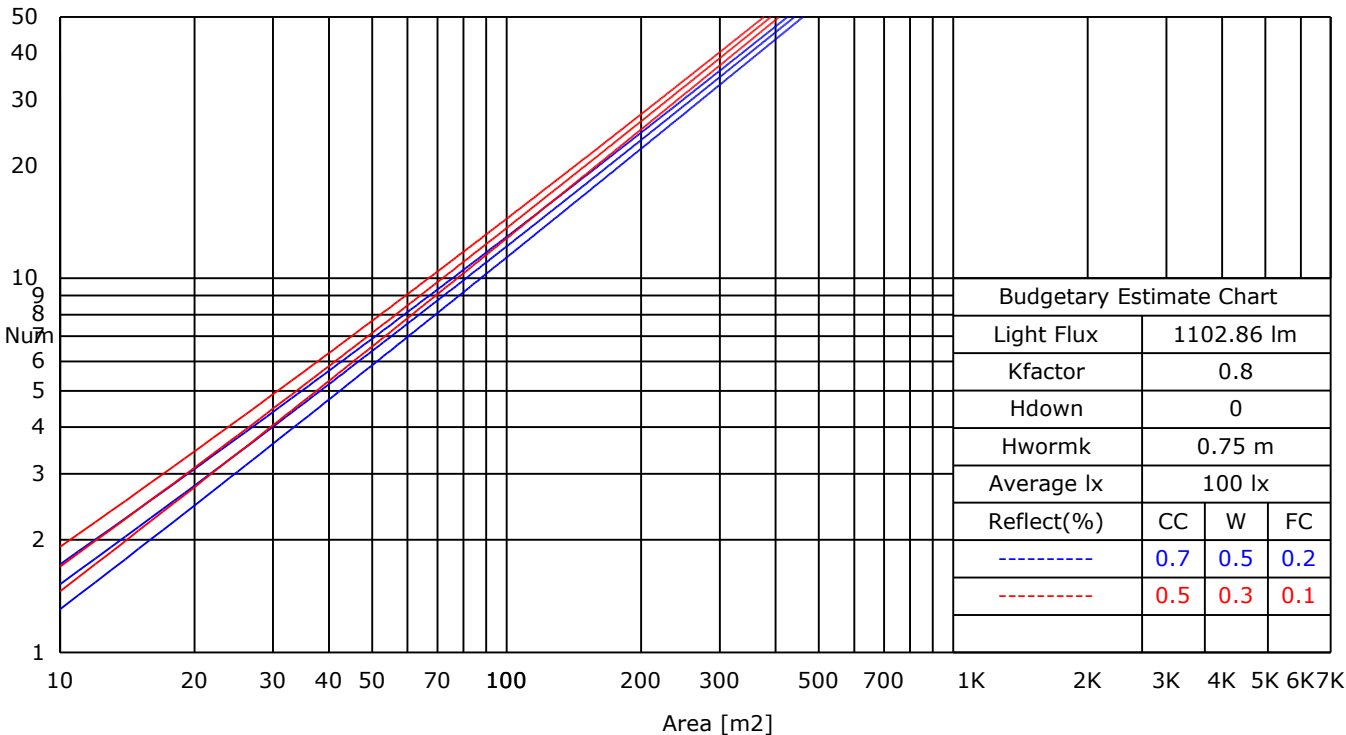
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UTILIZATION FACTORS TABLE

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	1.05	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.96	0.96	0.93	0.91	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.77
3	0.97	0.96	0.95	0.96	0.94	0.93	0.93	0.91	0.88	0.89	0.86	0.84	0.84	0.81	0.79	0.74
4	0.94	0.93	0.92	0.93	0.91	0.90	0.90	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
5	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.79	0.81	0.77	0.74	0.70
6	0.89	0.88	0.87	0.88	0.86	0.85	0.85	0.83	0.81	0.82	0.79	0.76	0.79	0.75	0.72	0.68
7	0.87	0.85	0.84	0.85	0.84	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
8	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	0.65
9	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.75	0.76	0.73	0.71	0.73	0.69	0.67	0.63
10	0.80	0.79	0.78	0.79	0.78	0.77	0.77	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.65	0.62

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



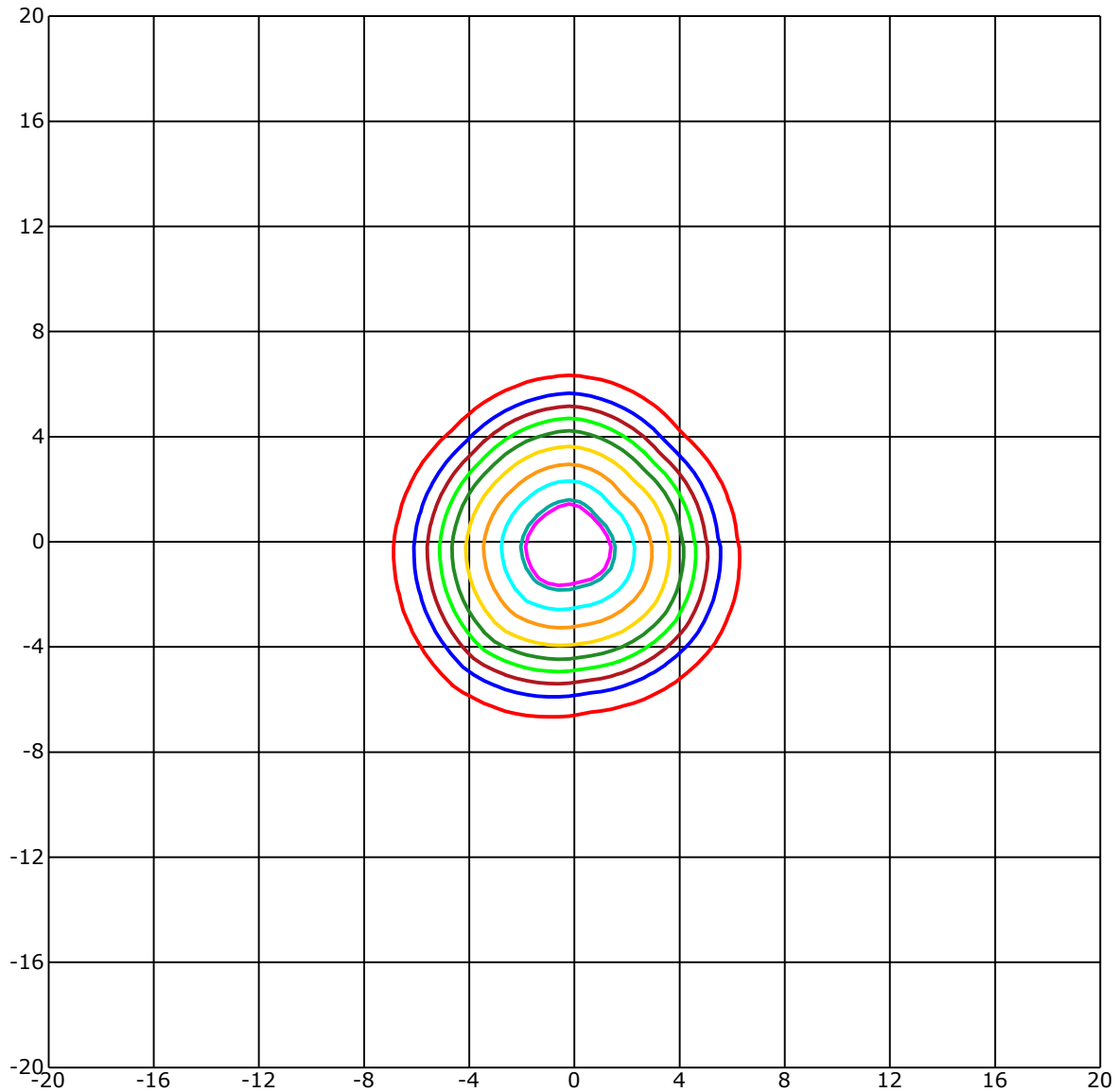
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Test Speed: High
Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

14.997(92%Emax)	8.151(50%Emax)
14.671(90%Emax)	6.521(40%Emax)
13.041(80%Emax)	4.89(30%Emax)
11.411(70%Emax)	3.26(20%Emax)
9.781(60%Emax)	1.63(10%Emax)

C Range: 0 - 360 Deg
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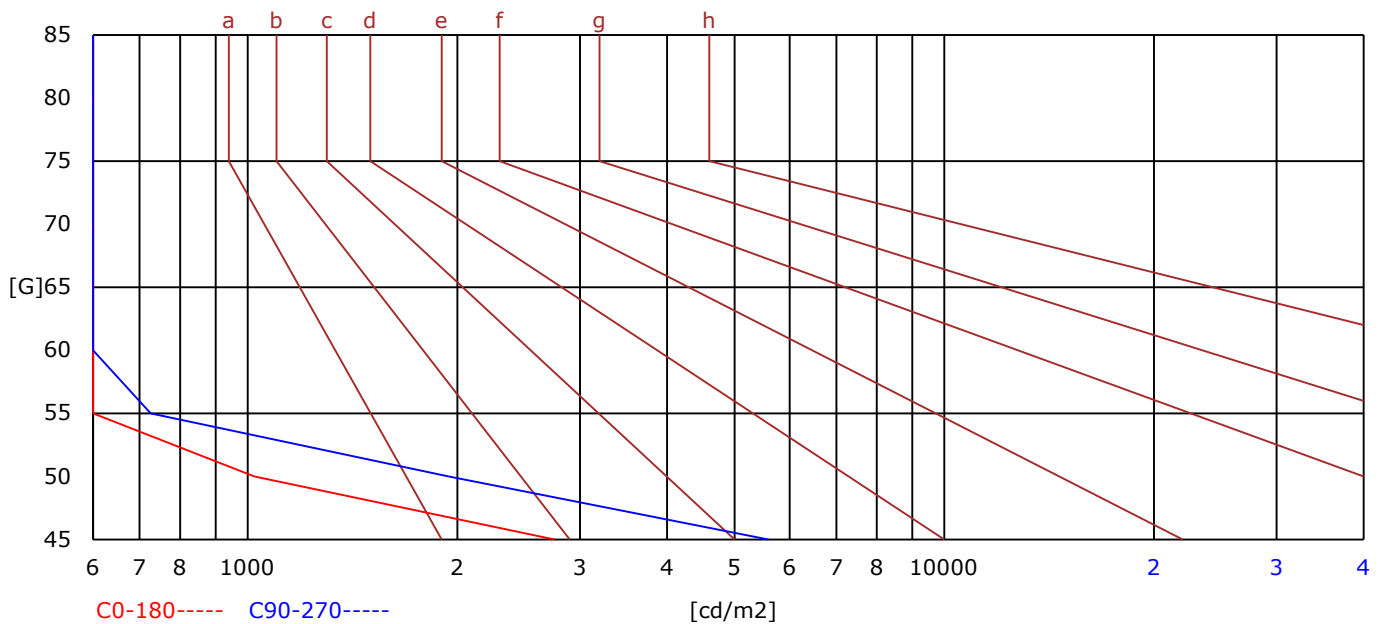
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2759	1023	248	0	0	0	0	0	0
C90	5595	1944	726	22	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



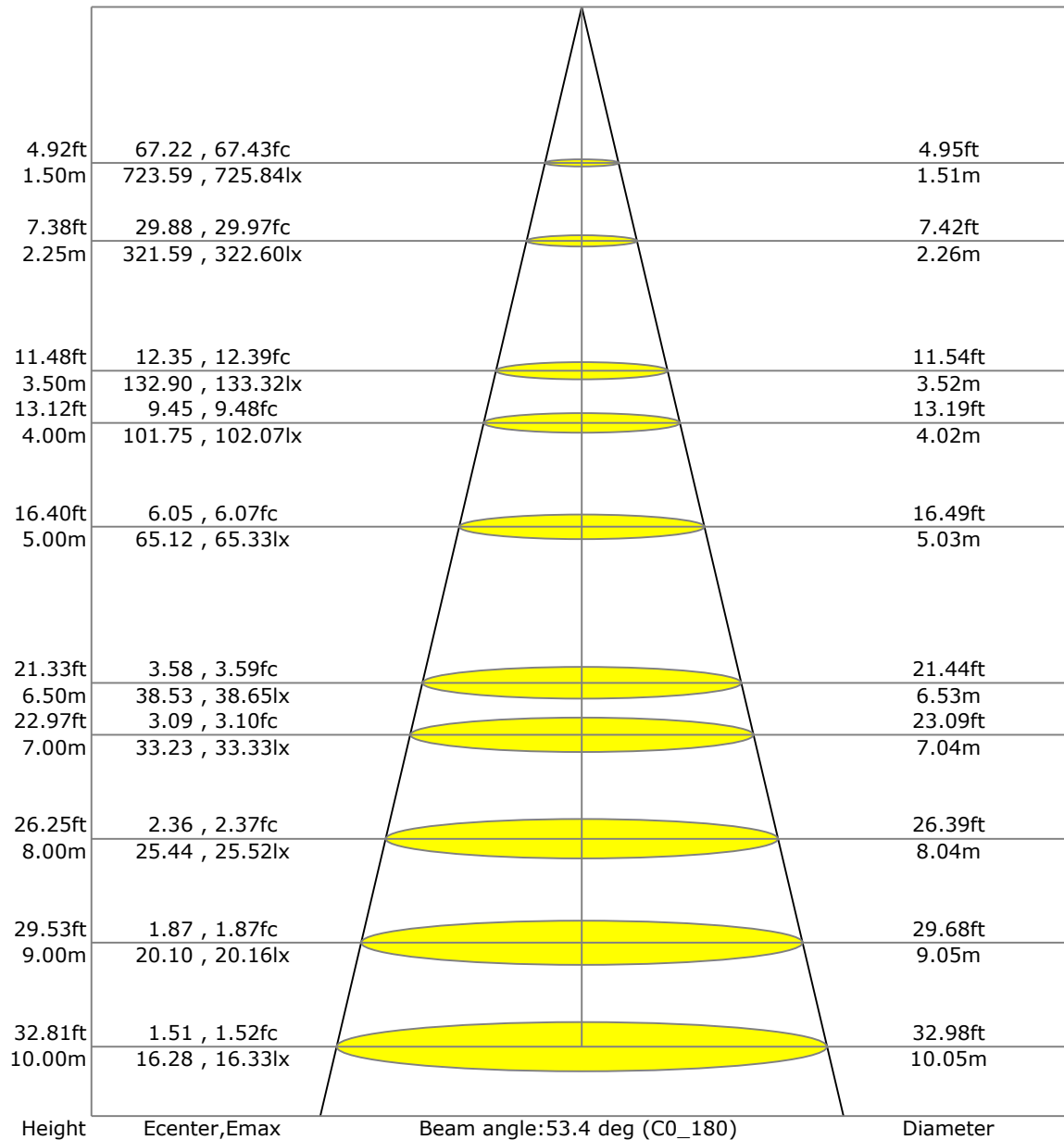
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Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:44:11

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/28 10:44:11

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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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	6.88	6.93	7.08	7.11	7.36	6.96	7.01	7.16	7.19	7.44
3H	6.86	6.90	7.06	7.10	7.34	6.93	6.98	7.14	7.17	7.42
4H	6.84	6.89	7.05	7.09	7.33	6.92	6.97	7.13	7.16	7.41
6H	6.83	6.87	7.04	7.07	7.33	6.90	6.95	7.12	7.15	7.40
8H	6.82	6.87	7.03	7.07	7.32	6.89	6.94	7.11	7.15	7.40
12H	6.81	6.86	7.03	7.06	7.32	6.89	6.94	7.11	7.14	7.40
4H 2H	6.84	6.89	7.05	7.09	7.33	6.94	6.98	7.15	7.18	7.43
3H	6.81	6.86	7.03	7.06	7.32	6.90	6.95	7.12	7.16	7.41
4H	6.79	6.84	7.02	7.05	7.31	6.88	6.93	7.11	7.14	7.40
6H	6.77	6.81	7.00	7.04	7.30	6.86	6.91	7.10	7.13	7.39
8H	6.76	6.80	7.00	7.03	7.29	6.85	6.90	7.09	7.12	7.39
12H	6.74	6.79	6.99	7.02	7.29	6.84	6.88	7.08	7.11	7.38
8H 4H	6.82	6.87	7.03	7.07	7.32	6.91	6.96	7.13	7.16	7.42
6H	6.73	6.77	6.98	7.01	7.28	6.82	6.87	7.08	7.10	7.38
8H	6.71	6.76	6.97	7.00	7.28	6.81	6.85	7.07	7.09	7.37
12H	6.70	6.74	6.97	6.99	7.27	6.79	6.83	7.06	7.08	7.36
12H 4H	6.74	6.79	6.99	7.02	7.29	6.84	6.88	7.08	7.11	7.38
6H	6.71	6.76	6.97	7.00	7.28	6.81	6.85	7.07	7.09	7.37

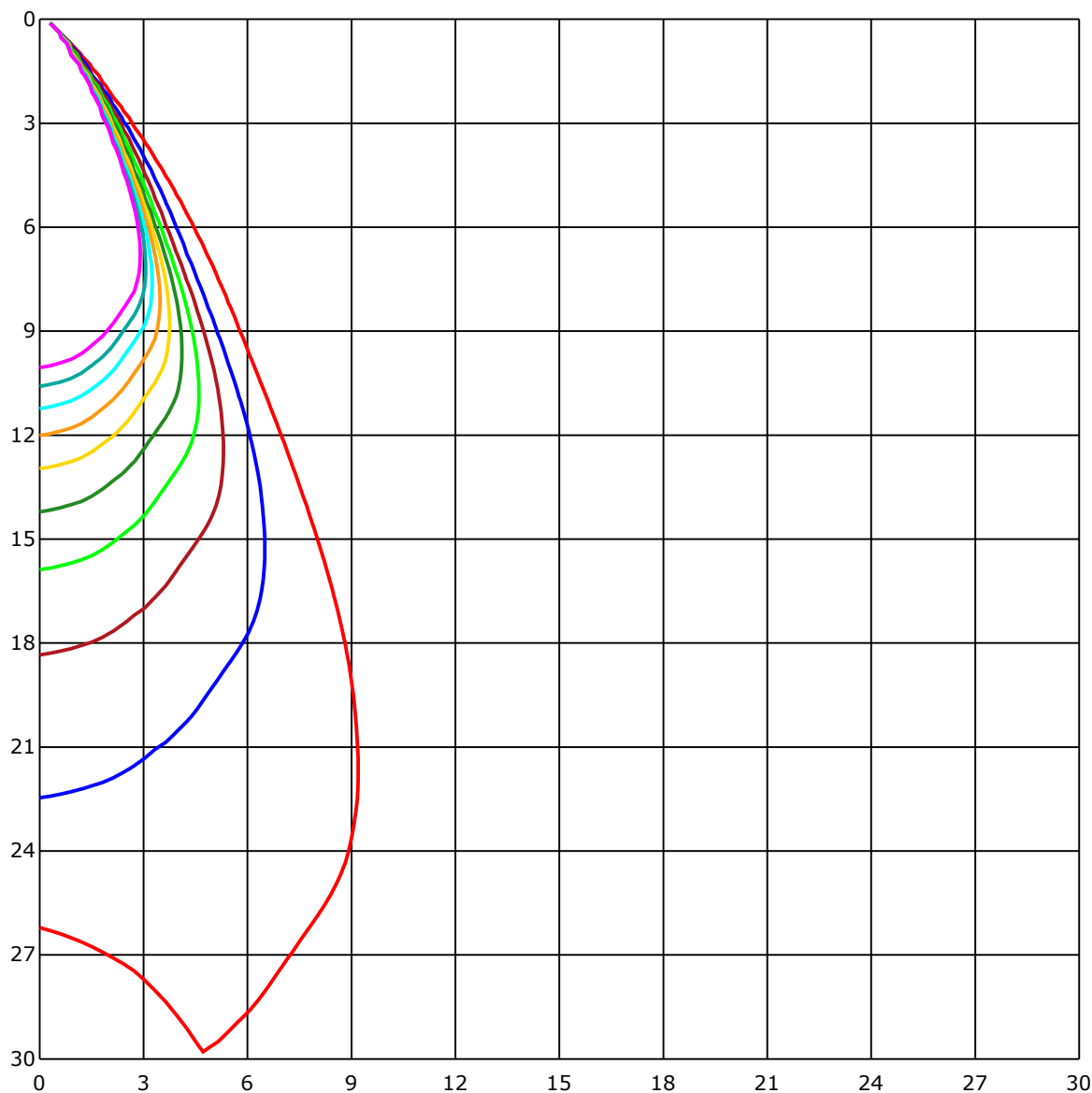
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

16.132

14.519

12.906

11.292

9.679

8.066

6.453

4.84

3.226

1.613

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: 6.7 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1628.07	1606.52	1614.56	1620.71	1628.07	1606.52	1614.56	1620.71	1628.07	
G1	1619.81	1593.46	1616.53	1619.77	1628.43	1605.54	1609.67	1619.95	1619.81	
G2	1610.11	1583.23	1610.61	1612.72	1633.14	1607.6	1605.36	1613.75	1610.11	
G3	1599.97	1569.44	1604.01	1604.59	1629.28	1614.24	1605.58	1609.58	1599.97	
G4	1588.34	1551.76	1592.65	1599.34	1624.61	1609.8	1609.31	1605.63	1588.34	
G5	1577.66	1537.3	1583.5	1587.27	1616.44	1615.86	1596.74	1593.33	1577.66	
G6	1559.43	1514.68	1570.39	1577.66	1614.51	1614.6	1582.28	1586.86	1559.43	
G7	1538.25	1492.46	1553.51	1560.6	1608.01	1614.51	1567.92	1566.98	1538.25	
G8	1513.6	1463.19	1535.37	1545.2	1600.28	1604.86	1554.59	1555.26	1513.6	
G9	1485.14	1433.65	1516.16	1524.55	1593.24	1605.9	1535.15	1534.25	1485.14	
G10	1467.19	1402.99	1488.69	1504.94	1573.35	1588.66	1516.21	1513.06	1467.19	
G11	1435.4	1370.76	1464.0	1481.55	1554.41	1572.68	1490.08	1489.09	1435.4	
G12	1408.6	1335.79	1429.39	1452.78	1538.47	1549.47	1461.48	1464.54	1408.6	
G13	1374.53	1300.82	1400.43	1427.86	1516.56	1529.36	1437.15	1438.77	1374.53	
G14	1337.23	1255.57	1367.53	1397.02	1490.26	1508.3	1412.6	1410.71	1337.23	
G15	1304.55	1219.93	1331.53	1363.44	1460.32	1482.18	1384.68	1379.29	1304.55	
G16	1272.99	1187.52	1295.97	1329.28	1433.7	1463.15	1353.79	1349.62	1272.99	
G17	1244.71	1159.51	1260.56	1290.72	1401.51	1439.08	1322.33	1321.74	1244.71	
G18	1217.51	1125.48	1224.33	1257.23	1375.34	1405.87	1297.01	1291.58	1217.51	
G19	1184.6	1085.89	1196.18	1225.54	1342.44	1375.92	1267.16	1261.86	1184.6	
G20	1147.34	1043.11	1164.99	1193.49	1309.44	1351.68	1235.24	1233.26	1147.34	
G21	1095.5	978.02	1132.75	1148.65	1284.08	1324.93	1201.84	1201.08	1095.5	
G22	1039.65	910.68	1082.7	1098.41	1253.37	1301.09	1154.21	1157.94	1039.65	
G23	972.0	837.11	1029.55	1036.02	1208.66	1267.96	1097.56	1099.76	972.0	
G24	893.85	744.73	963.47	964.37	1156.73	1227.47	1025.65	1036.38	893.85	
G25	815.79	656.97	886.62	880.56	1087.69	1178.36	953.19	964.73	815.79	
G26	729.6	565.03	804.56	792.49	1015.46	1113.14	871.36	891.02	729.6	
G27	636.36	472.24	718.82	708.32	934.92	1041.81	785.26	807.66	636.36	
G28	540.43	387.04	625.9	614.1	852.55	964.91	691.08	713.53	540.43	
G29	447.33	311.85	530.64	515.11	759.81	885.23	593.0	618.27	447.33	
G30	367.16	252.46	436.78	425.78	658.31	795.23	495.85	524.36	367.16	
G31	300.13	211.16	353.91	344.71	558.03	694.85	405.72	435.48	300.13	
G32	247.57	175.48	285.14	278.63	465.42	591.56	328.51	358.36	247.57	
G33	208.07	147.28	232.04	225.57	382.24	493.21	272.71	297.35	208.07	
G34	176.01	121.97	191.77	186.92	314.81	405.85	227.55	250.49	176.01	
G35	148.81	99.25	158.46	155.18	263.01	332.81	190.6	210.76	148.81	
G36	123.81	79.68	130.54	128.25	221.44	279.62	159.58	177.32	123.81	

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Test Distance: 6.7 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	102.3	63.47	108.36	106.7	187.24	237.06	134.0	150.02	102.3	
G38	83.36	49.38	89.56	87.89	158.42	199.31	110.16	126.59	83.36	
G39	66.21	37.44	73.44	71.38	134.4	168.74	90.9	105.58	66.21	
G40	51.76	28.19	59.88	57.37	112.05	140.6	72.41	87.45	51.76	
G41	39.28	21.55	48.17	44.71	91.35	116.22	57.59	71.33	39.28	
G42	29.99	16.43	38.47	34.92	73.57	94.94	44.8	57.73	29.99	
G43	22.36	12.7	31.38	27.25	59.03	76.81	34.52	45.61	22.36	
G44	16.79	9.92	25.77	21.23	46.55	61.32	26.17	36.63	16.79	
G45	12.93	7.99	21.59	16.21	37.48	48.93	20.16	29.54	12.93	
G46	10.1	6.37	18.23	12.75	29.76	38.43	15.44	23.88	10.1	
G47	7.86	5.21	15.4	10.01	23.79	30.79	11.94	19.66	7.86	
G48	6.33	4.08	13.38	8.04	19.53	24.78	9.29	16.38	6.33	
G49	4.89	3.46	11.72	6.24	16.52	20.47	7.23	13.92	4.89	
G50	4.08	2.69	10.41	5.12	14.01	16.83	5.84	11.9	4.08	
G51	3.19	2.15	9.16	4.0	11.99	14.5	4.62	10.46	3.19	
G52	2.65	1.66	8.17	3.37	10.46	12.48	3.77	9.34	2.65	
G53	1.98	1.39	7.36	2.78	9.25	11.09	3.05	8.26	1.98	
G54	1.62	0.9	6.6	2.06	8.3	9.52	2.38	7.41	1.62	
G55	1.21	0.58	6.06	1.71	7.18	8.48	1.75	6.64	1.21	
G56	0.94	0.4	5.34	1.44	6.51	7.45	1.3	6.11	0.94	
G57	0.49	0.0	4.8	1.12	5.84	6.69	0.94	5.39	0.49	
G58	0.22	0.0	4.17	0.63	5.39	5.88	0.58	4.89	0.22	
G59	0.0	0.0	3.82	0.31	4.67	5.34	0.31	4.22	0.0	
G60	0.0	0.0	3.46	0.04	4.31	4.71	0.0	3.91	0.0	
G61	0.0	0.0	2.96	0.0	3.82	4.44	0.0	3.5	0.0	
G62	0.0	0.0	2.56	0.0	3.32	3.91	0.0	3.05	0.0	
G63	0.0	0.0	2.56	0.0	3.1	3.64	0.0	2.65	0.0	
G64	0.0	0.0	2.29	0.0	2.74	3.1	0.0	2.47	0.0	
G65	0.0	0.0	2.02	0.0	2.6	2.74	0.0	2.06	0.0	
G66	0.0	0.0	1.62	0.0	2.29	2.47	0.0	1.62	0.0	
G67	0.0	0.0	1.21	0.0	1.8	2.29	0.0	1.21	0.0	
G68	0.0	0.0	1.03	0.0	1.35	1.89	0.0	0.99	0.0	
G69	0.0	0.0	0.85	0.0	0.94	1.66	0.0	0.81	0.0	
G70	0.0	0.0	0.72	0.0	0.81	1.12	0.0	0.81	0.0	
G71	0.0	0.0	0.63	0.0	0.81	0.94	0.0	0.58	0.0	
G72	0.0	0.0	0.49	0.0	0.67	0.88	0.0	0.54	0.0	
G73	0.0	0.0	0.49	0.0	0.4	0.81	0.0	0.4	0.0	

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: 6.7 m

Remarks:

