

Report No.:

Test Time: 2024/7/3 15:02:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT055-38°-8.9W
Lamp Type:
Luminous Width: 50 mm
Luminous Length: 50 mm
Luminous Height: 50 mm

Voltage(V): 219.90 V
Current(A): 0.0430 A
Power(W): 8.91 W
Power Factor: 0.9370
Lamp Luminous Flux: 957.39

Photometric Results

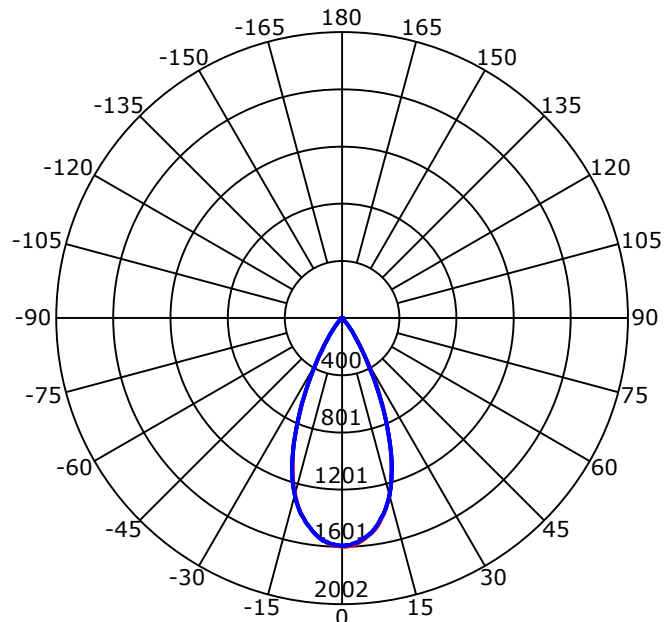
CIE Class: Direct
Luminaire Luminous Flux: 957.3932 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 107.45 lm/W
Beam Angle(50%) C0-180,C90-270: 46.0,46.0
Field Angle(10%) C0-180,C90-270: 71.1,70.4
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1601.45 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1598.31 cd
Effective Luminous Flux: 883.01 lm
ERP(ϕ use)(120deg): 951.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.0 deg,46.0 deg

C0-180 — C90-270 —

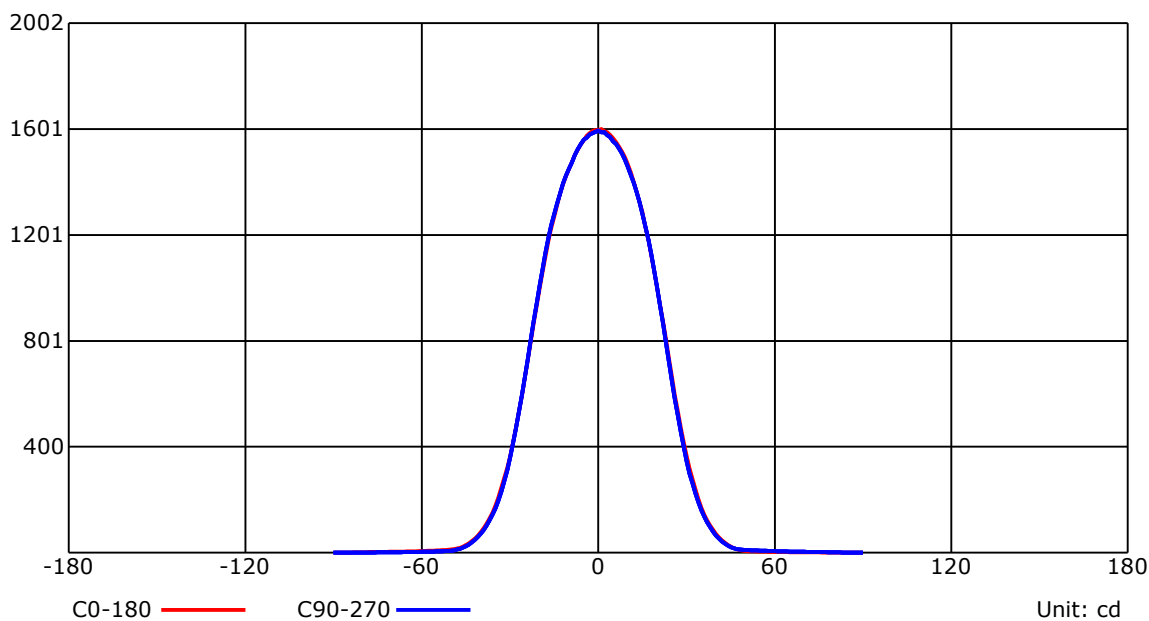
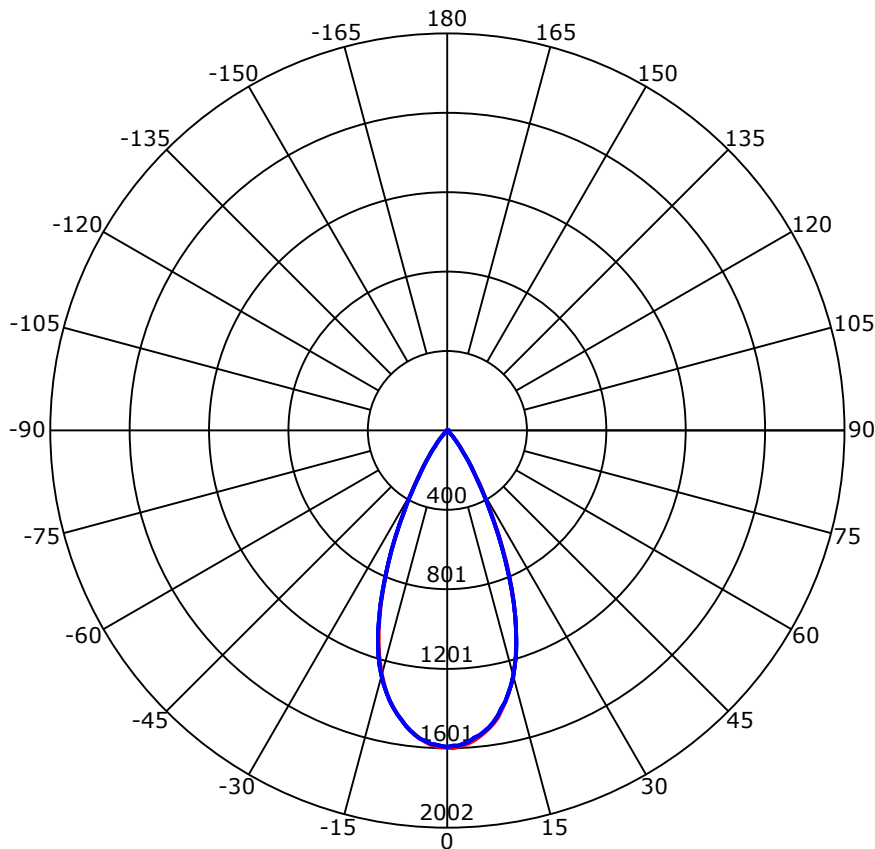
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 15:02:24

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

Report No.:

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Luminous Intensity Distribution Curve



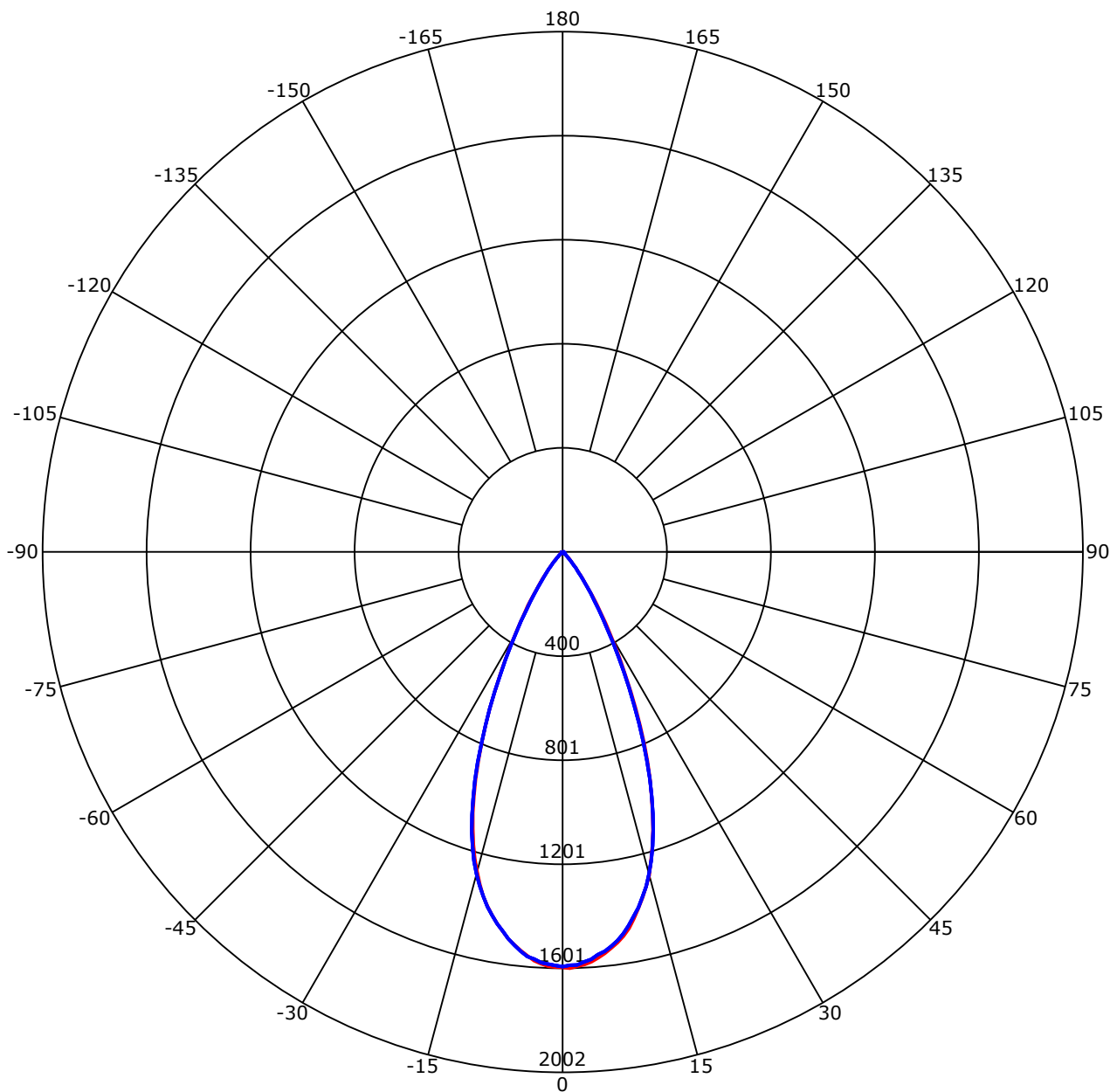
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Luminous Intensity Distribution Curve



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: 2024/7/3 15:02:24

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

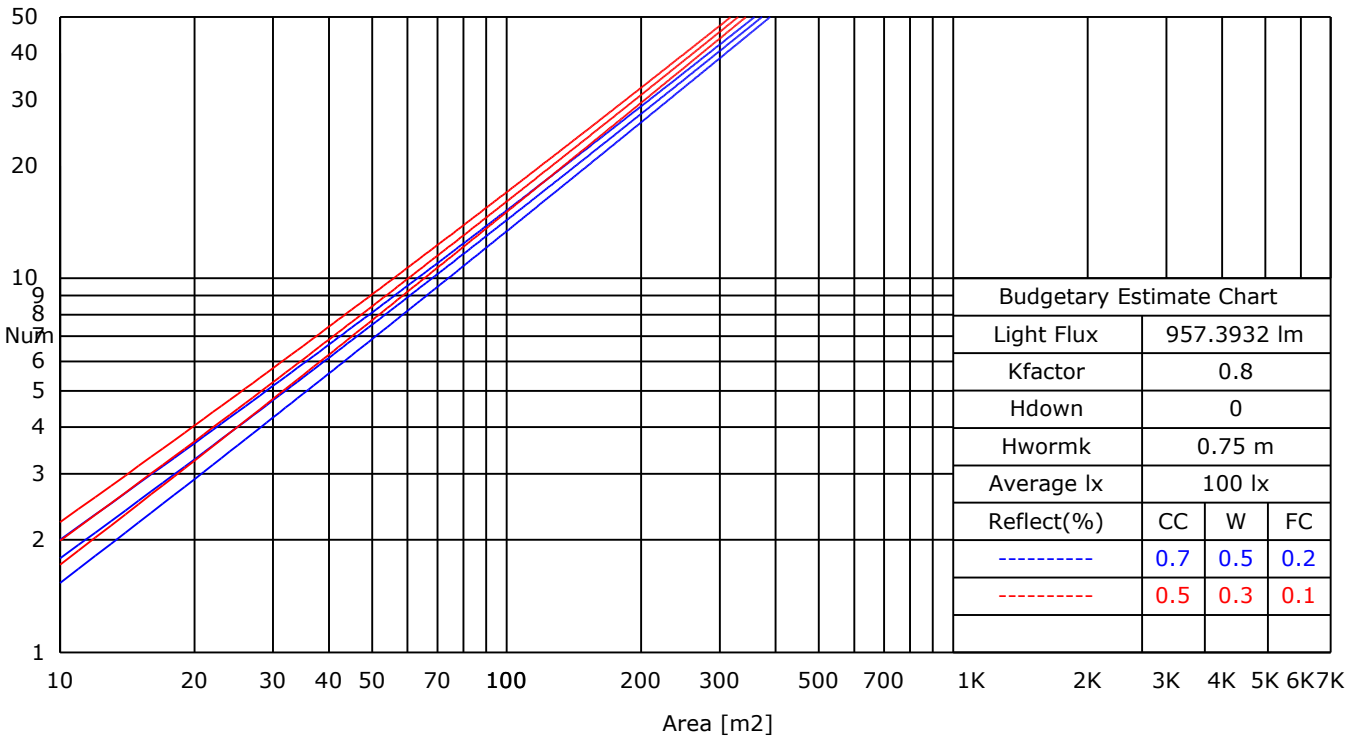
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UTILIZATION FACTORS TABLE

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	1.03	1.01	0.99	1.02	1.00	0.98	0.98	0.96	0.94	0.94	0.91	0.89	0.87	0.85	0.82	0.77
2	0.99	0.97	0.96	0.98	0.95	0.94	0.95	0.92	0.90	0.90	0.88	0.85	0.85	0.82	0.79	0.75
3	0.95	0.94	0.93	0.94	0.92	0.91	0.91	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.90	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
6	0.87	0.86	0.85	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.67
7	0.85	0.83	0.83	0.84	0.82	0.81	0.81	0.79	0.77	0.79	0.75	0.73	0.75	0.72	0.68	0.65
8	0.83	0.81	0.80	0.81	0.80	0.79	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
9	0.80	0.79	0.79	0.79	0.78	0.77	0.77	0.75	0.73	0.75	0.71	0.69	0.72	0.68	0.65	0.62
10	0.79	0.77	0.77	0.78	0.76	0.75	0.75	0.73	0.71	0.73	0.70	0.67	0.70	0.66	0.64	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



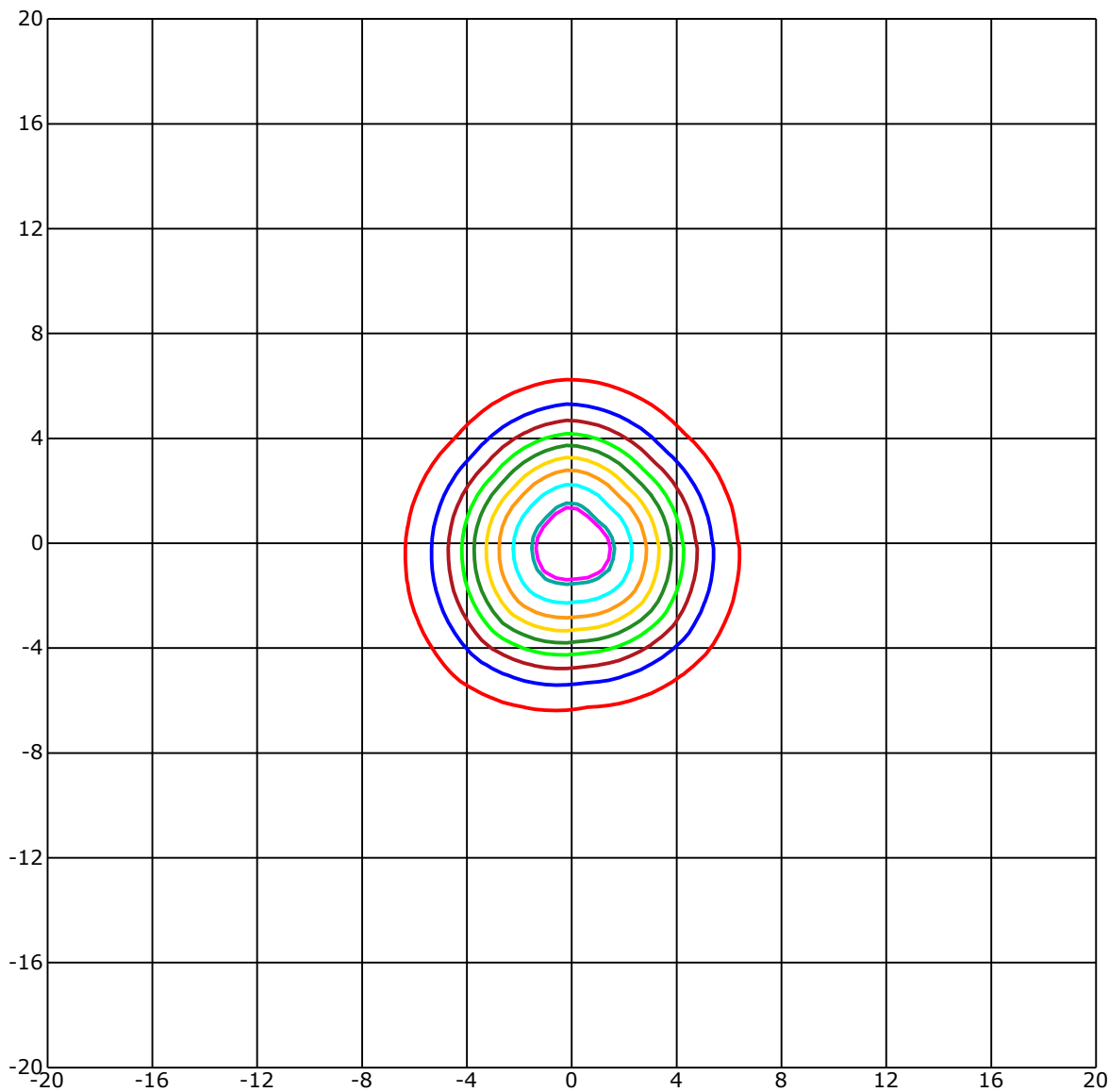
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Operators: QC01
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G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

- | | |
|-----------------|----------------|
| 14.727(92%Emax) | 8.004(50%Emax) |
| 14.406(90%Emax) | 6.403(40%Emax) |
| 12.806(80%Emax) | 4.802(30%Emax) |
| 11.205(70%Emax) | 3.201(20%Emax) |
| 9.604(60%Emax) | 1.601(10%Emax) |

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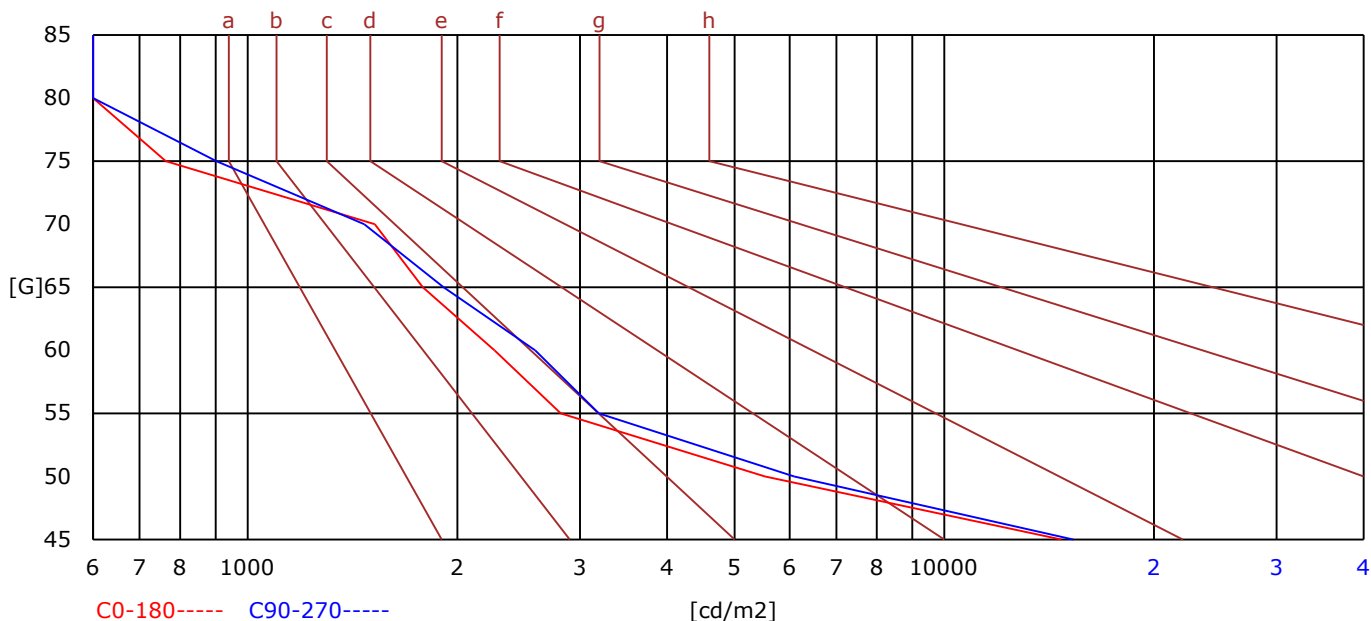
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	14728	5531	2817	2262	1784	1522	763	0	0
C90	15312	6090	3193	2586	1912	1470	902	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



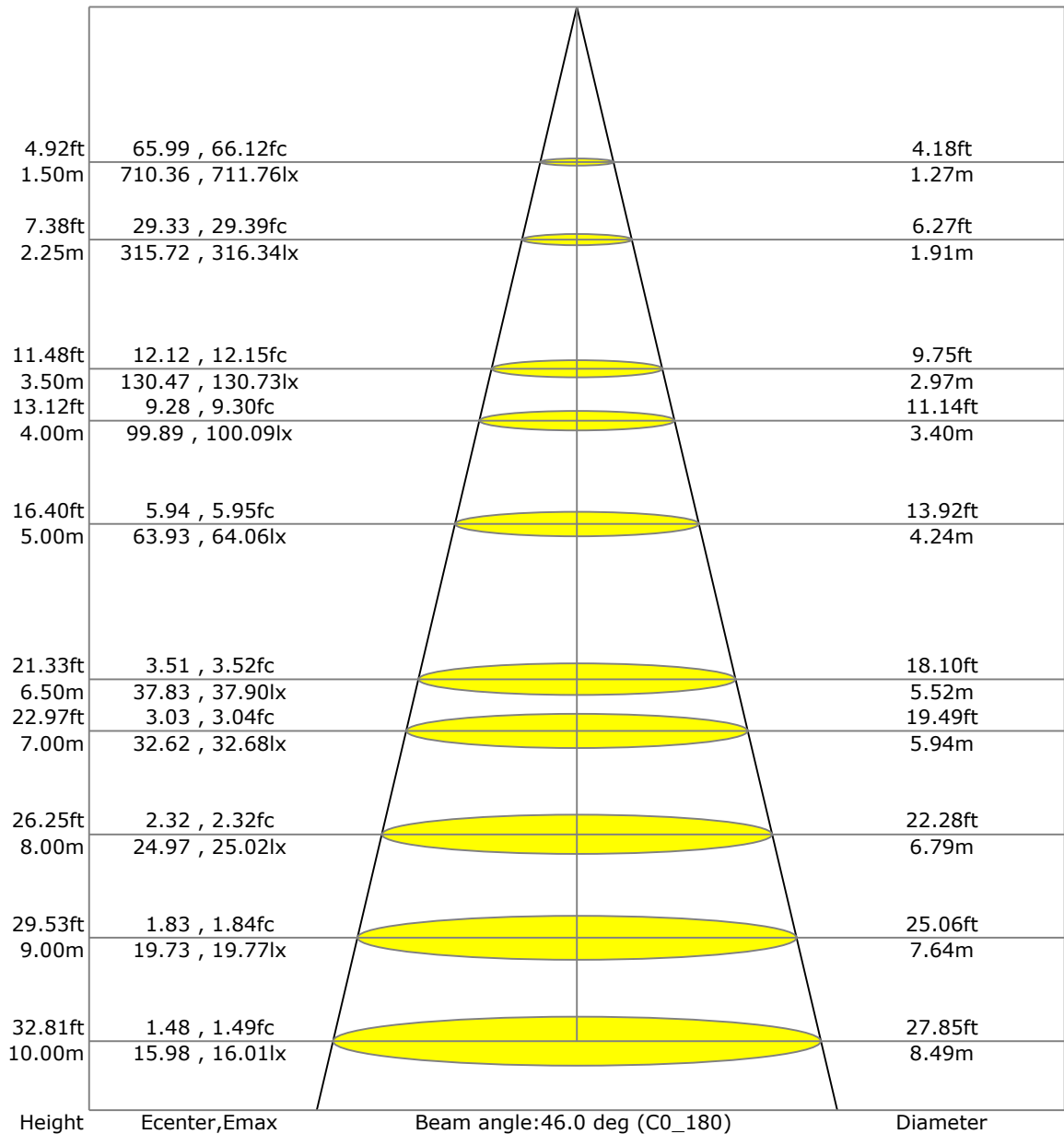
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G Range: 0 - 90 Deg
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Test Distance: 6.7 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 15:02:24

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	12.12	12.16	12.31	12.35	12.59	12.17	12.22	12.37	12.41	12.65
3H	12.10	12.15	12.30	12.34	12.58	12.15	12.20	12.35	12.39	12.64
4H	12.08	12.13	12.29	12.33	12.58	12.13	12.18	12.34	12.38	12.63
6H	12.07	12.12	12.28	12.32	12.57	12.12	12.17	12.33	12.37	12.62
8H	12.06	12.11	12.28	12.31	12.56	12.11	12.16	12.33	12.36	12.62
12H	12.05	12.10	12.27	12.31	12.56	12.10	12.15	12.32	12.36	12.61
4H 2H	12.11	12.16	12.32	12.36	12.61	12.25	12.30	12.46	12.50	12.74
3H	12.09	12.14	12.31	12.35	12.60	12.22	12.28	12.45	12.48	12.74
4H	12.07	12.12	12.30	12.33	12.59	12.21	12.26	12.43	12.47	12.73
6H	12.05	12.10	12.29	12.32	12.58	12.18	12.23	12.42	12.45	12.72
8H	12.04	12.09	12.28	12.31	12.58	12.17	12.22	12.41	12.45	12.71
12H	12.03	12.07	12.28	12.31	12.57	12.16	12.21	12.41	12.44	12.71
8H 4H	12.09	12.14	12.31	12.35	12.60	12.28	12.33	12.49	12.53	12.78
6H	12.02	12.06	12.27	12.30	12.57	12.21	12.25	12.46	12.49	12.76
8H	12.00	12.05	12.26	12.29	12.57	12.19	12.23	12.45	12.48	12.76
12H	11.99	12.03	12.26	12.28	12.56	12.17	12.22	12.44	12.47	12.75
12H 4H	12.03	12.08	12.28	12.31	12.58	12.23	12.28	12.48	12.51	12.78
6H	12.00	12.05	12.26	12.29	12.57	12.20	12.25	12.46	12.49	12.77

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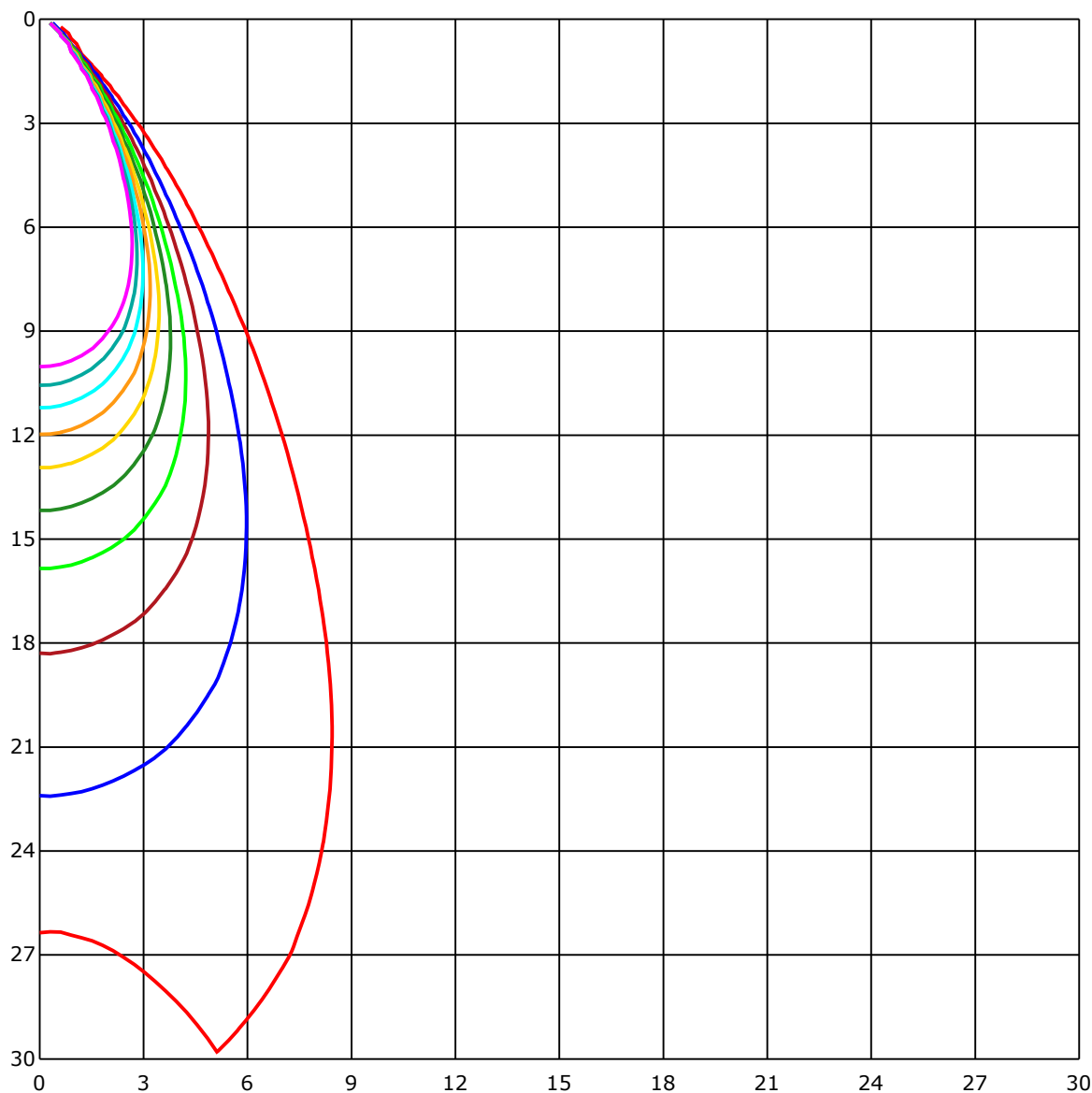
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SPACE ISOLX DIAGRAM



15.922	7.961
14.33	6.369
12.738	4.777
11.146	3.184
9.553	1.592

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Humidity: 60
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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1598.31	1583.54	1595.17	1591.62	1598.31	1583.54	1595.17	1591.62	1598.31	
G1	1601.45	1572.41	1589.6	1588.75	1597.55	1586.86	1590.36	1596.24	1601.45	
G2	1594.76	1564.15	1589.73	1575.59	1594.58	1592.47	1585.69	1594.67	1594.76	
G3	1589.73	1548.57	1579.14	1569.27	1585.96	1584.71	1581.52	1593.91	1589.73	
G4	1580.26	1540.89	1571.24	1551.85	1575.77	1584.48	1569.35	1593.24	1580.26	
G5	1567.69	1520.02	1554.99	1538.92	1559.25	1573.71	1561.72	1579.68	1567.69	
G6	1552.34	1501.26	1544.58	1518.81	1542.02	1562.8	1543.9	1570.34	1552.34	
G7	1535.37	1476.84	1527.61	1495.91	1522.8	1547.63	1524.91	1556.47	1535.37	
G8	1517.06	1453.0	1509.88	1470.51	1502.92	1527.88	1503.32	1536.18	1517.06	
G9	1495.87	1423.42	1486.08	1446.72	1477.2	1508.08	1476.21	1521.32	1495.87	
G10	1469.92	1394.73	1459.33	1414.75	1451.79	1492.82	1452.33	1497.67	1469.92	
G11	1437.02	1361.29	1427.28	1389.17	1422.61	1465.34	1424.45	1475.09	1437.02	
G12	1401.87	1328.61	1398.59	1348.09	1391.81	1442.54	1395.59	1444.96	1401.87	
G13	1365.24	1285.25	1363.0	1311.91	1358.42	1413.18	1358.78	1415.65	1365.24	
G14	1325.83	1239.55	1325.65	1265.85	1316.18	1387.86	1322.5	1381.58	1325.83	
G15	1287.76	1187.88	1281.07	1217.24	1271.91	1348.54	1282.01	1345.94	1287.76	
G16	1232.55	1134.68	1234.97	1159.69	1225.95	1308.36	1237.66	1308.32	1232.55	
G17	1181.01	1074.4	1182.18	1098.91	1176.39	1270.57	1187.43	1266.8	1181.01	
G18	1122.3	1011.01	1126.65	1036.56	1119.2	1222.98	1132.98	1219.75	1122.3	
G19	1063.94	947.45	1064.88	971.02	1060.66	1170.6	1070.58	1162.92	1063.94	
G20	1000.06	881.01	1001.9	904.08	998.49	1117.18	1009.53	1102.5	1000.06	
G21	938.02	812.51	934.79	835.09	934.52	1057.56	942.69	1041.04	938.02	
G22	870.64	743.56	863.1	763.31	864.58	994.4	873.16	976.54	870.64	
G23	805.37	676.27	790.33	695.53	795.94	927.65	803.49	908.93	805.37	
G24	734.22	610.01	720.13	625.45	727.4	862.38	731.12	839.49	734.22	
G25	667.02	543.89	650.77	557.8	662.04	792.22	665.22	770.72	667.02	
G26	597.58	480.5	582.22	495.99	595.02	727.17	597.85	701.14	597.58	
G27	532.93	426.01	517.04	437.99	531.18	661.23	530.47	633.35	532.93	
G28	472.33	375.77	457.07	382.24	472.6	597.49	470.45	565.17	472.33	
G29	417.66	329.85	400.33	333.26	417.97	530.78	413.71	502.5	417.66	
G30	366.84	289.23	346.46	288.1	364.69	471.79	361.27	445.62	366.84	
G31	319.75	252.06	299.69	250.44	321.19	418.87	311.22	393.19	319.75	
G32	276.66	217.58	260.54	217.18	281.68	367.2	267.68	343.14	276.66	
G33	239.31	187.19	222.83	188.22	244.92	324.73	229.3	299.06	239.31	
G34	202.23	161.38	190.78	162.32	208.78	285.05	196.48	259.42	202.23	
G35	170.54	138.89	161.69	138.84	178.03	247.7	167.57	223.37	170.54	
G36	144.41	119.54	136.91	117.39	151.5	214.53	143.83	193.88	144.41	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	122.55	101.45	114.74	100.1	128.7	185.62	121.2	167.22	122.55	
G38	102.57	86.1	95.62	85.29	109.31	161.38	101.95	145.35	102.57	
G39	86.05	72.95	78.87	73.48	92.07	142.08	85.47	126.46	86.05	
G40	71.11	62.49	65.05	62.53	77.39	124.44	71.6	108.5	71.11	
G41	58.63	53.28	53.28	53.33	64.87	108.23	59.08	93.28	58.63	
G42	47.72	44.8	42.42	44.8	53.37	94.09	48.8	79.37	47.72	
G43	37.93	37.26	34.12	38.29	44.04	81.48	38.7	68.95	37.93	
G44	29.85	31.24	27.38	32.28	35.73	70.61	30.93	59.88	29.85	
G45	23.57	26.04	21.23	27.07	29.04	61.23	24.82	52.75	23.57	
G46	17.87	21.73	16.92	22.67	23.48	53.91	19.98	45.97	17.87	
G47	13.51	17.42	13.96	18.67	18.9	46.46	15.4	40.22	13.51	
G48	9.56	14.1	12.39	15.22	15.49	40.22	11.9	34.83	9.56	
G49	7.72	11.31	11.36	12.3	13.56	34.7	8.98	30.3	7.72	
G50	6.33	8.89	10.55	9.79	11.85	29.85	7.14	26.26	6.33	
G51	5.61	7.09	9.92	8.04	11.0	25.72	6.33	22.8	5.61	
G52	5.21	5.75	9.34	6.64	10.15	22.09	5.88	19.39	5.21	
G53	4.85	4.98	8.84	5.57	9.56	18.76	5.39	16.61	4.85	
G54	4.49	4.53	8.48	4.89	8.93	15.89	5.03	14.19	4.49	
G55	4.22	4.04	7.95	4.58	8.53	13.42	4.58	12.08	4.22	
G56	3.86	3.86	7.59	4.13	7.95	11.76	4.26	10.64	3.86	
G57	3.73	3.77	7.14	4.0	7.59	10.28	4.22	9.61	3.73	
G58	3.32	3.41	6.78	3.64	7.09	9.52	3.86	9.02	3.32	
G59	3.19	3.01	6.46	3.59	6.87	8.93	3.5	8.57	3.19	
G60	3.28	2.83	6.02	3.23	6.42	8.44	3.5	7.99	3.28	
G61	3.1	2.69	5.43	2.96	5.97	8.08	3.28	7.77	3.1	
G62	2.65	2.56	5.03	2.6	5.48	7.63	3.05	7.14	2.65	
G63	2.47	2.15	4.8	2.42	5.3	7.0	2.69	6.91	2.47	
G64	2.2	2.02	4.58	2.11	4.94	6.78	2.29	6.6	2.2	
G65	2.11	1.89	4.4	2.02	4.62	6.28	2.2	6.24	2.11	
G66	1.93	1.66	4.35	1.8	4.35	6.02	2.15	5.84	1.93	
G67	1.8	1.57	4.04	1.62	4.26	5.66	1.93	5.52	1.8	
G68	1.62	1.53	3.82	1.48	4.0	5.3	1.98	5.16	1.62	
G69	1.66	1.39	3.68	1.44	3.86	4.85	1.75	4.94	1.66	
G70	1.53	1.3	3.46	1.26	3.59	4.58	1.71	4.53	1.53	
G71	1.44	1.17	3.32	1.12	3.46	4.62	1.53	4.4	1.44	
G72	1.3	1.12	3.28	0.94	3.23	4.22	1.66	4.04	1.3	
G73	1.21	0.85	2.92	0.72	3.14	3.86	1.35	4.0	1.21	

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Temperature: 25
Operators: QC01
Test Date: 2024/7/3 15:02:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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: 2024/7/3 15:02:24

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