

Report No.:

Test Time: 2024/7/25 11:23:06

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-32.7W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

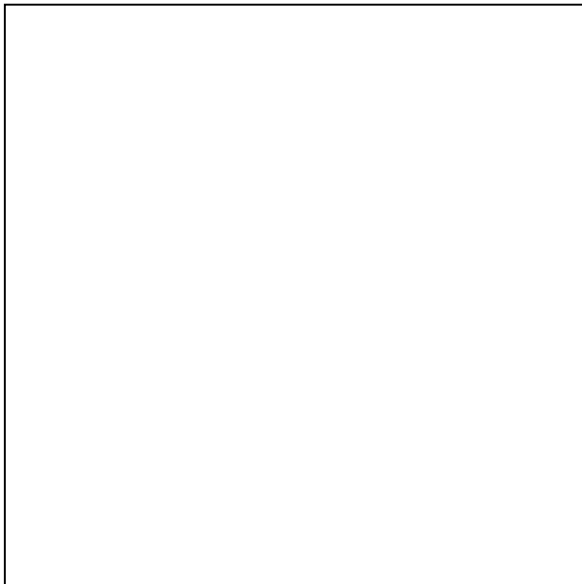
Voltage(V): 219.70 V
Current(A): 0.1540 A
Power(W): 32.73 W
Power Factor: 0.9630
Lamp Luminous Flux: 3387.51

Photometric Results

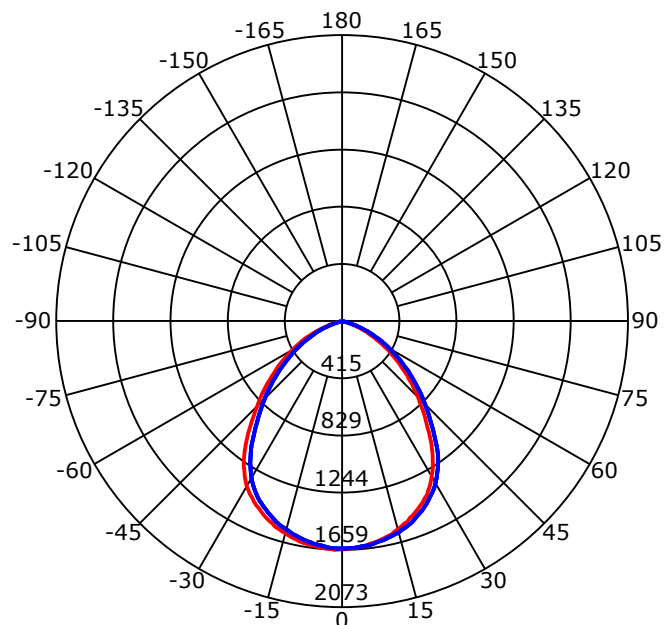
CIE Class: Direct
Luminaire Luminous Flux: 3387.512 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.50 lm/W
Beam Angle(50%) C0-180,C90-270: 89.7,89.8
Field Angle(10%) C0-180,C90-270: 136.9,137.0
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1658.73 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1654.51 cd
Effective Luminous Flux: 3312.73 lm
ERP(ϕ use)(120deg): 3089.54 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.7 deg,89.8 deg

C0-180 — C90-270 —

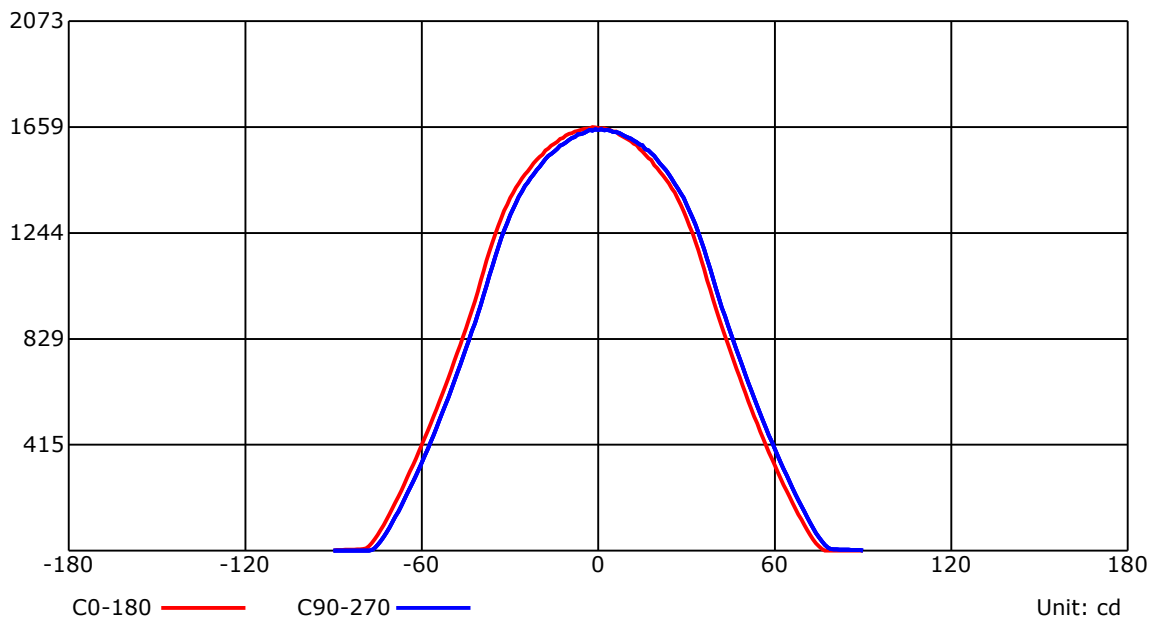
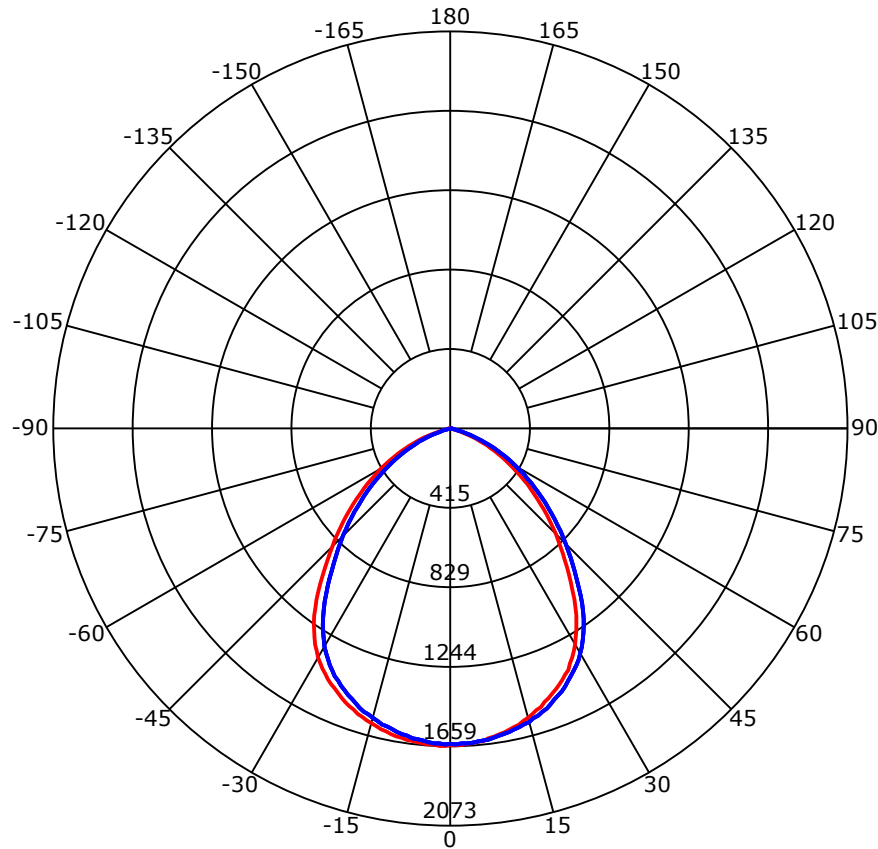
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:23:06

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



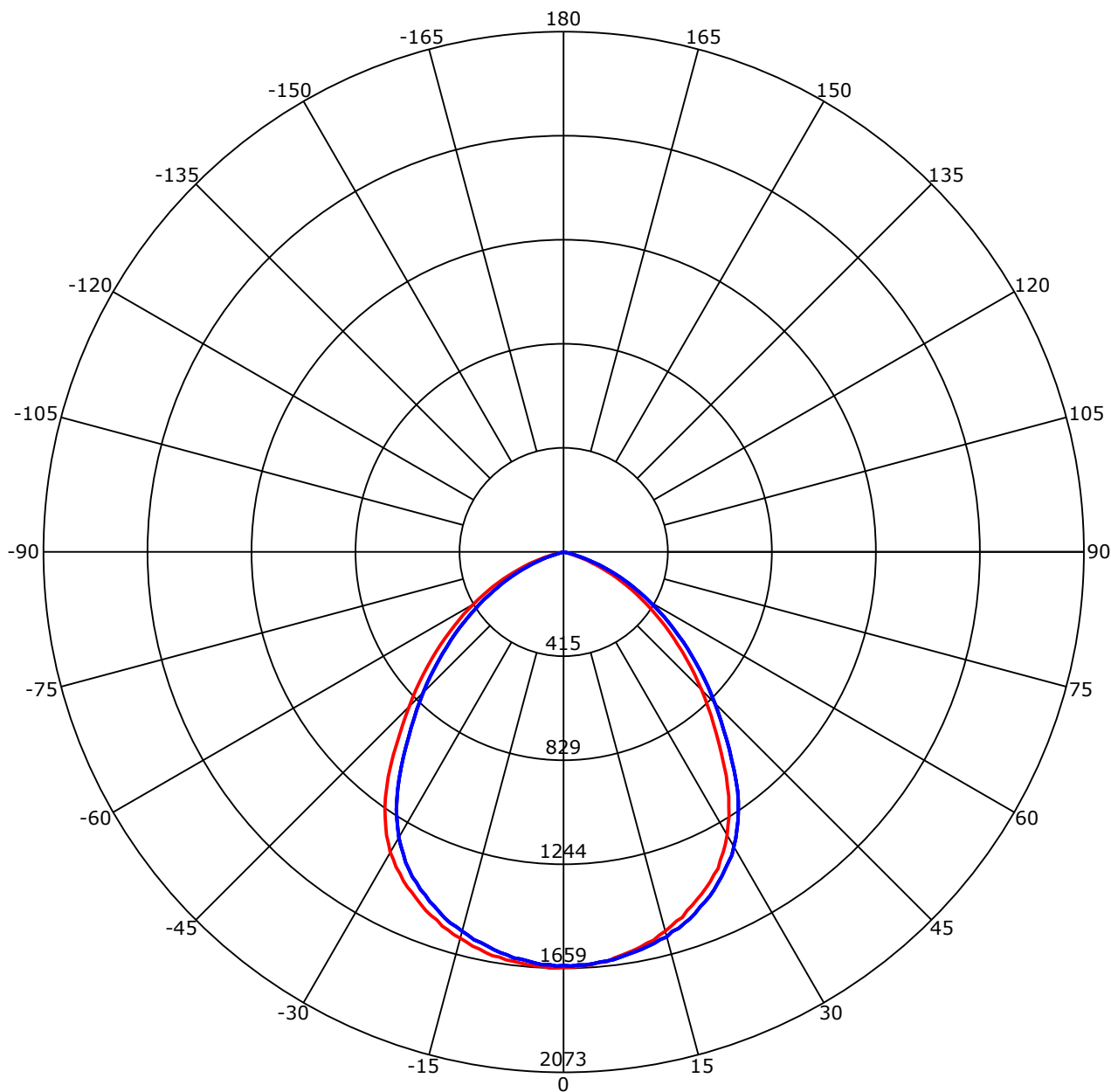
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:23:06

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



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: 2024/7/25 11:23:06

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

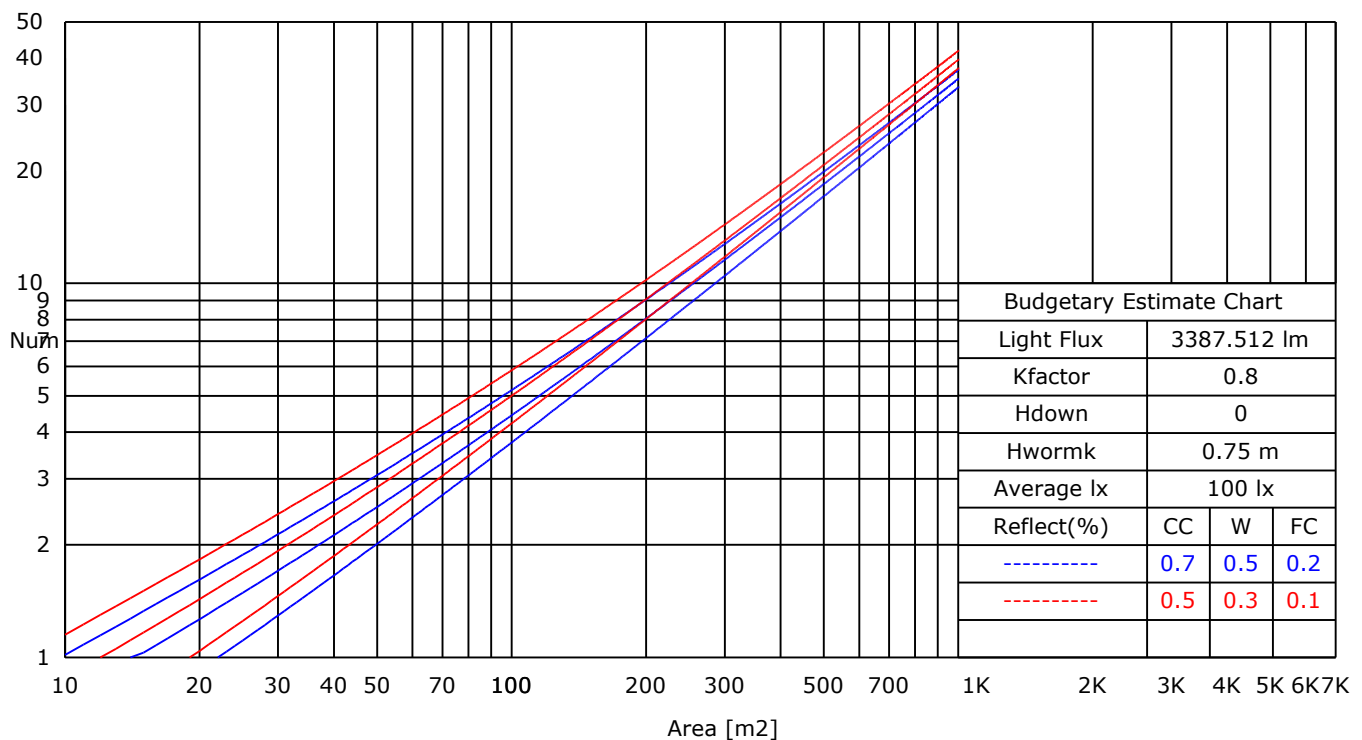
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.05	1.04	1.03	1.01	1.00	0.98	0.96	0.94	0.91	0.89	0.88	0.82
2	0.99	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.90	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.84	0.82	0.80	0.83	0.81	0.79	0.81	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.63
5	0.77	0.75	0.74	0.77	0.74	0.72	0.75	0.72	0.69	0.73	0.69	0.66	0.70	0.66	0.62	0.58
6	0.71	0.69	0.68	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.53
7	0.66	0.65	0.63	0.66	0.64	0.62	0.65	0.62	0.59	0.64	0.60	0.56	0.62	0.57	0.53	0.50
8	0.62	0.60	0.59	0.62	0.59	0.58	0.61	0.58	0.55	0.60	0.56	0.52	0.59	0.54	0.50	0.46
9	0.58	0.56	0.55	0.58	0.56	0.54	0.58	0.54	0.52	0.57	0.52	0.49	0.56	0.50	0.46	0.43
10	0.55	0.53	0.52	0.55	0.52	0.51	0.55	0.51	0.48	0.54	0.49	0.46	0.53	0.48	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



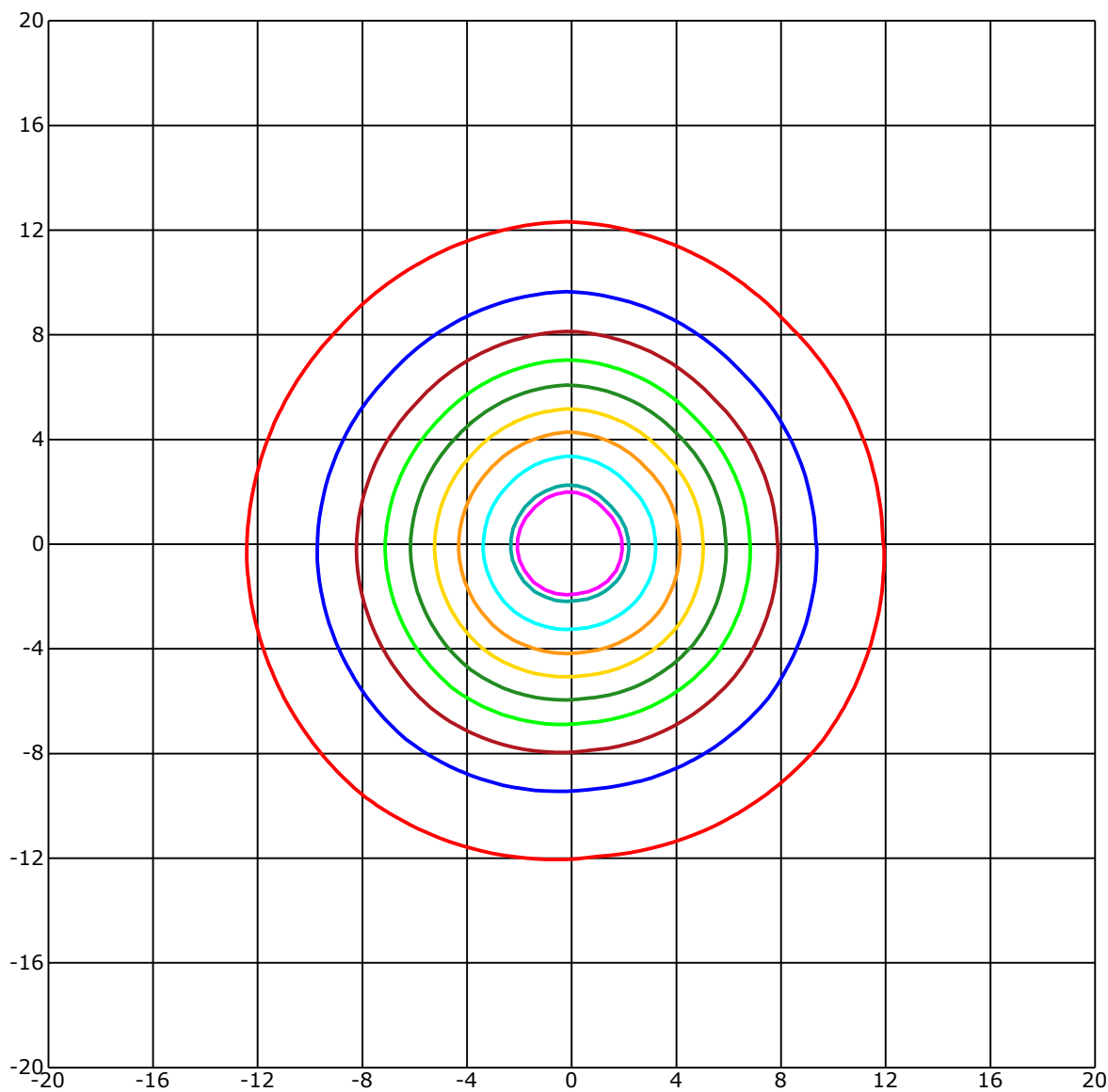
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:23:06

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)

15.242(92%Emax)	8.284(50%Emax)
14.911(90%Emax)	6.627(40%Emax)
13.254(80%Emax)	4.97(30%Emax)
11.597(70%Emax)	3.314(20%Emax)
9.941(60%Emax)	1.657(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
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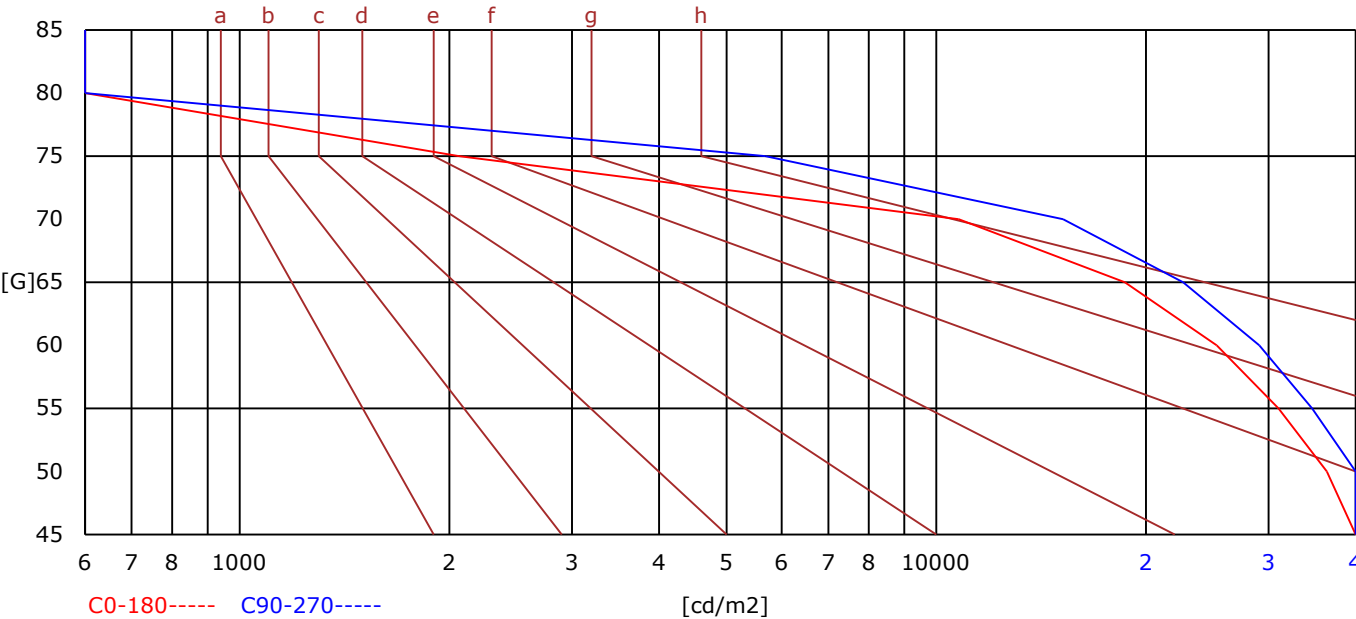
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	41914	36375	30981	25261	18659	10772	2066	0	0
C90	45247	40006	34619	29080	22613	15201	5684	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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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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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	16.51	16.58	16.71	16.77	17.01	16.75	16.81	16.95	17.00	17.25
3H	16.53	16.60	16.74	16.79	17.04	16.75	16.81	16.96	17.01	17.25
4H	16.51	16.57	16.72	16.77	17.02	16.73	16.79	16.94	16.99	17.23
6H	16.48	16.55	16.70	16.75	17.00	16.70	16.76	16.92	16.96	17.21
8H	16.47	16.53	16.69	16.73	16.99	16.69	16.75	16.91	16.95	17.20
12H	16.46	16.52	16.68	16.72	16.98	16.67	16.73	16.89	16.94	17.19
4H 2H	17.08	17.14	17.29	17.34	17.59	17.53	17.59	17.74	17.79	18.04
3H	17.10	17.16	17.32	17.36	17.62	17.53	17.59	17.75	17.79	18.05
4H	17.07	17.13	17.30	17.34	17.60	17.50	17.56	17.73	17.77	18.03
6H	17.04	17.09	17.28	17.31	17.58	17.47	17.52	17.70	17.74	18.00
8H	17.02	17.07	17.26	17.30	17.56	17.45	17.50	17.69	17.73	17.99
12H	17.00	17.05	17.25	17.28	17.55	17.43	17.48	17.68	17.71	17.98
8H 4H	17.04	17.10	17.26	17.30	17.56	17.49	17.55	17.71	17.76	18.01
6H	16.98	17.03	17.24	17.27	17.54	17.42	17.46	17.67	17.70	17.98
8H	16.96	17.01	17.22	17.25	17.53	17.40	17.44	17.66	17.69	17.96
12H	16.94	16.98	17.21	17.23	17.52	17.38	17.42	17.65	17.67	17.95
12H 4H	17.00	17.05	17.25	17.28	17.55	17.44	17.49	17.69	17.72	17.99
6H	16.96	17.01	17.22	17.25	17.53	17.40	17.44	17.66	17.69	17.96

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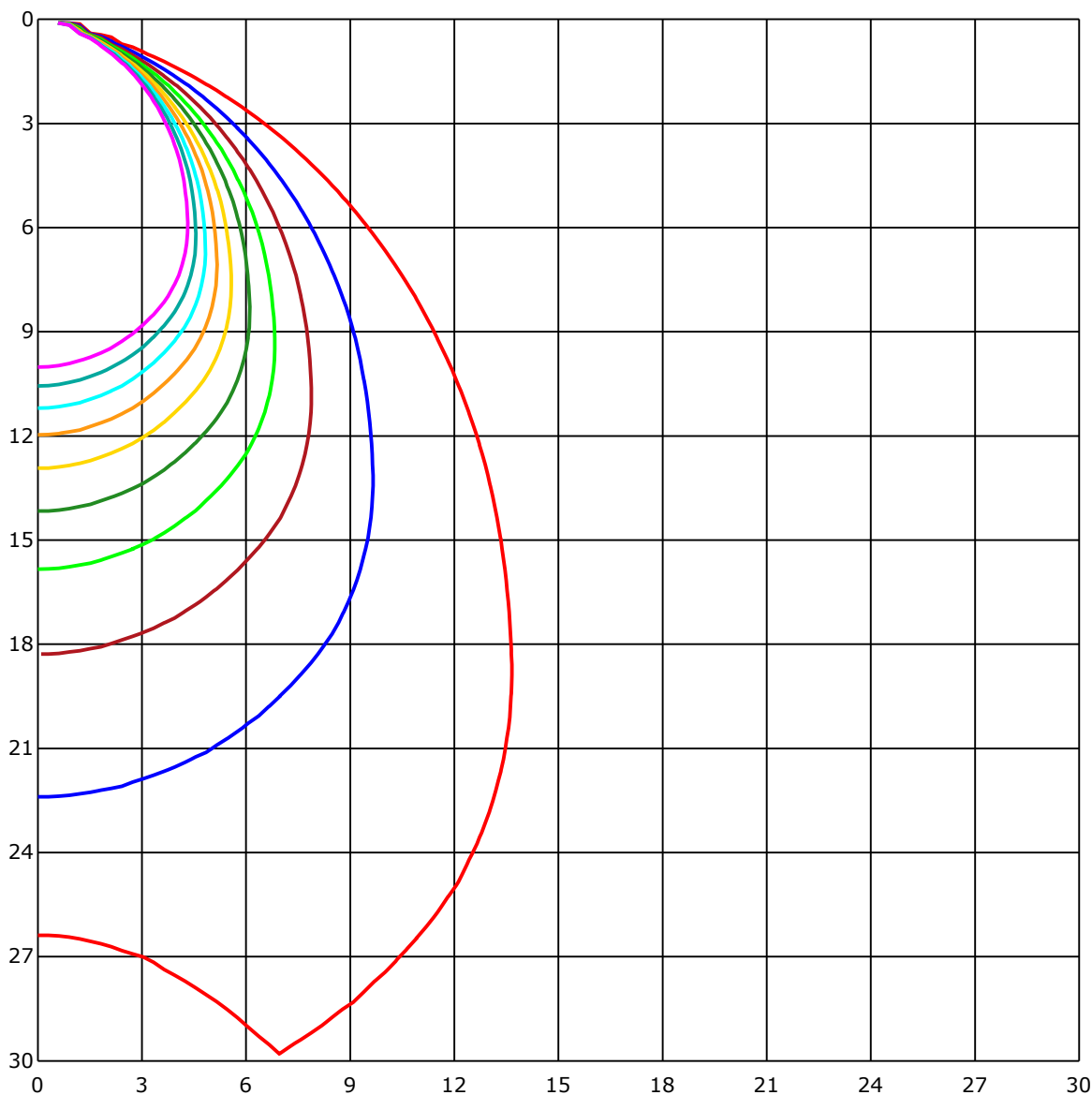
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx

16.498

14.848

13.198

11.549

9.899

8.249

6.599

4.949

3.3

1.65

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/25 11:23:06

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1654.51	1643.24	1647.24	1652.85	1654.51	1643.24	1647.24	1652.85	1654.51	
G1	1654.29	1644.1	1649.89	1650.25	1657.52	1645.4	1649.8	1651.14	1654.29	
G2	1653.39	1638.22	1645.89	1652.76	1658.73	1645.62	1644.77	1653.48	1653.39	
G3	1649.44	1638.53	1647.06	1647.64	1653.21	1643.96	1646.97	1649.3	1649.44	
G4	1646.92	1638.44	1645.17	1647.6	1652.85	1642.88	1641.63	1648.09	1646.92	
G5	1641.67	1629.42	1640.55	1643.51	1650.88	1642.39	1635.57	1643.69	1641.67	
G6	1641.58	1621.83	1638.49	1640.01	1646.92	1639.88	1631.08	1642.08	1641.58	
G7	1630.18	1619.41	1635.75	1634.45	1643.42	1640.37	1629.51	1634.98	1630.18	
G8	1624.17	1611.96	1630.09	1632.02	1641.63	1632.11	1620.53	1632.2	1624.17	
G9	1617.34	1608.41	1623.85	1625.47	1634.58	1629.96	1615.64	1623.85	1617.34	
G10	1611.1	1598.44	1618.24	1621.61	1632.83	1628.34	1608.9	1617.39	1611.1	
G11	1603.07	1588.07	1614.2	1611.37	1625.6	1619.23	1599.21	1607.78	1603.07	
G12	1593.19	1578.11	1606.39	1606.48	1616.62	1611.96	1591.22	1604.55	1593.19	
G13	1588.21	1573.98	1600.15	1600.64	1611.87	1605.22	1586.1	1592.79	1588.21	
G14	1573.57	1564.51	1591.13	1592.07	1601.59	1598.94	1573.71	1584.93	1573.57	
G15	1563.56	1550.32	1587.4	1578.47	1593.01	1588.52	1563.83	1575.06	1563.56	
G16	1551.58	1538.43	1572.45	1569.58	1586.14	1583.05	1553.1	1563.43	1551.58	
G17	1536.99	1523.7	1567.33	1557.64	1575.1	1573.22	1546.24	1552.12	1536.99	
G18	1530.26	1512.97	1555.71	1551.4	1567.51	1558.13	1533.58	1539.1	1530.26	
G19	1509.92	1498.34	1546.1	1533.35	1550.91	1551.08	1518.81	1532.01	1509.92	
G20	1498.7	1484.83	1531.47	1521.37	1542.6	1536.41	1502.92	1515.53	1498.7	
G21	1483.17	1470.73	1515.35	1506.33	1530.44	1525.59	1491.25	1500.18	1483.17	
G22	1468.71	1455.38	1502.65	1495.78	1516.56	1515.44	1473.42	1492.1	1468.71	
G23	1453.27	1440.88	1490.17	1479.71	1500.31	1495.33	1460.09	1473.6	1453.27	
G24	1437.74	1424.54	1473.6	1463.68	1485.37	1485.95	1441.55	1459.78	1437.74	
G25	1418.39	1406.4	1455.2	1445.37	1473.51	1469.97	1427.73	1443.75	1418.39	
G26	1403.31	1382.03	1437.15	1428.8	1457.62	1451.38	1406.67	1426.25	1403.31	
G27	1376.78	1365.33	1418.08	1406.76	1437.92	1435.76	1387.37	1405.19	1376.78	
G28	1354.29	1339.7	1399.4	1390.2	1421.89	1422.65	1362.14	1387.46	1354.29	
G29	1329.37	1315.1	1381.45	1361.11	1400.12	1398.77	1338.35	1361.96	1329.37	
G30	1302.12	1283.32	1355.45	1336.29	1381.85	1375.74	1314.11	1339.34	1302.12	
G31	1271.55	1256.11	1330.99	1312.0	1355.5	1354.65	1283.41	1315.01	1271.55	
G32	1242.82	1222.89	1302.8	1282.37	1331.93	1328.25	1254.41	1283.54	1242.82	
G33	1208.8	1191.07	1275.86	1254.41	1301.32	1301.41	1223.75	1255.04	1208.8	
G34	1175.76	1153.85	1244.76	1224.46	1272.18	1274.83	1188.82	1221.59	1175.76	
G35	1138.14	1120.28	1213.02	1187.16	1241.43	1242.65	1153.4	1184.6	1138.14	
G36	1101.74	1077.0	1179.44	1154.62	1208.8	1209.65	1116.01	1149.72	1101.74	

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:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1060.17	1037.54	1142.0	1113.32	1171.76	1176.03	1077.14	1115.7	1060.17	
G38	1022.28	997.37	1103.22	1072.83	1135.54	1138.05	1037.23	1071.57	1022.28	
G39	983.27	958.99	1064.16	1032.61	1094.91	1102.9	1000.33	1033.5	983.27	
G40	947.13	926.35	1026.32	994.0	1056.71	1060.12	961.68	996.56	947.13	
G41	911.72	888.42	989.06	956.02	1014.51	1023.99	926.75	959.57	911.72	
G42	877.73	854.97	951.89	921.59	977.35	985.6	890.53	926.13	877.73	
G43	841.91	822.83	919.57	885.28	939.59	950.55	858.57	890.39	841.91	
G44	810.4	787.82	884.24	852.78	905.43	916.56	823.37	859.1	810.4	
G45	778.08	758.73	851.65	819.06	870.55	881.73	792.31	825.62	778.08	
G46	745.04	723.54	819.29	789.35	839.13	846.72	759.63	792.98	745.04	
G47	711.87	692.2	786.65	756.62	805.01	813.27	727.8	759.72	711.87	
G48	679.95	661.18	752.94	724.61	772.83	783.02	693.42	727.58	679.95	
G49	647.67	630.75	721.56	689.56	741.0	749.75	662.71	694.54	647.67	
G50	617.28	598.56	688.75	658.31	707.65	716.0	630.3	663.88	617.28	
G51	584.38	569.38	657.41	625.9	675.73	685.43	599.1	632.23	584.38	
G52	555.69	539.44	628.82	597.08	645.7	652.84	572.26	602.69	555.69	
G53	525.71	512.19	597.85	565.75	613.96	622.53	540.25	571.05	525.71	
G54	498.23	482.57	565.39	537.11	584.11	591.52	511.43	542.81	498.23	
G55	466.86	454.92	536.44	508.33	554.08	563.1	482.3	512.33	466.86	
G56	440.6	426.99	508.6	480.32	526.43	532.35	453.21	484.63	440.6	
G57	412.22	401.27	479.87	453.12	497.52	502.72	426.28	457.47	412.22	
G58	385.61	374.2	451.68	426.05	470.94	475.43	398.62	427.98	385.61	
G59	358.63	348.21	424.84	398.44	441.27	447.42	372.0	400.24	358.63	
G60	333.31	323.34	397.41	372.23	415.01	418.82	345.52	373.48	333.31	
G61	307.14	297.98	371.69	345.38	388.93	393.1	320.47	347.31	307.14	
G62	282.13	272.93	344.98	319.3	361.59	365.49	294.84	321.59	282.13	
G63	257.44	248.6	319.71	293.72	336.05	339.86	271.4	296.05	257.44	
G64	233.79	224.67	294.88	270.15	311.31	314.32	246.13	271.9	233.79	
G65	210.4	201.87	270.33	244.65	285.64	289.9	222.88	247.57	210.4	
G66	187.46	178.84	245.32	221.8	260.09	263.77	199.18	223.46	187.46	
G67	164.39	157.03	221.49	198.59	235.36	240.34	176.1	199.67	164.39	
G68	142.57	135.39	198.1	176.37	212.11	215.92	153.75	176.96	142.57	
G69	121.65	114.74	175.12	154.24	188.54	192.62	132.87	153.84	121.65	
G70	101.05	94.31	152.9	133.1	165.96	169.77	111.46	132.56	101.05	
G71	80.98	75.28	130.41	111.69	143.83	147.15	90.99	110.56	80.98	
G72	62.31	57.46	108.99	92.2	121.74	125.15	71.64	90.86	62.31	
G73	44.26	40.45	88.97	72.59	100.73	104.55	53.64	71.6	44.26	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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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:

Test Time: 2024/7/25 11:23:06

Remarks: