

Report No.:

Test Time: 2024/7/25 11:10:51

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-32.6W
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): 32.59 W
Power Factor: 0.9630
Lamp Luminous Flux: 3708.81

Photometric Results

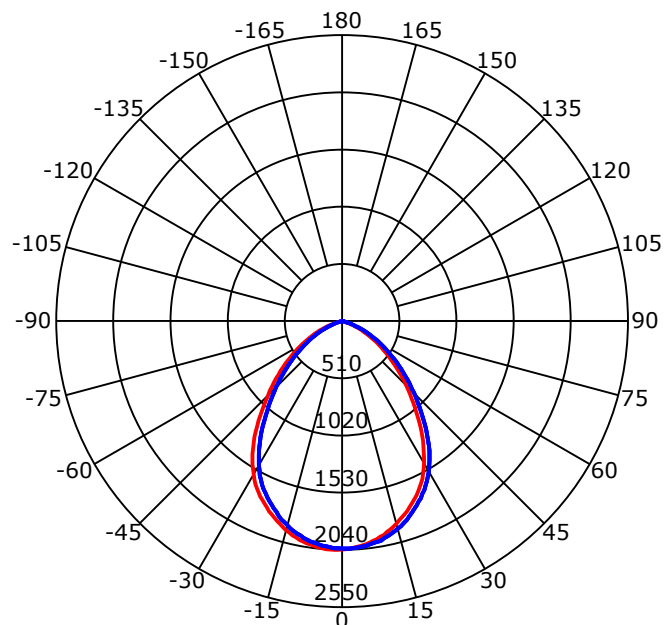
CIE Class: Direct
Luminaire Luminous Flux: 3708.807 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 113.80 lm/W
Beam Angle(50%) C0-180,C90-270: 82.8,82.9
Field Angle(10%) C0-180,C90-270: 131.9,131.9
S/MH C0-180,C90-270: 1.109,1.109

Max. Intensity: 2040.03 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2036.84 cd
Effective Luminous Flux: 3596.55 lm
ERP(ϕ use)(120deg): 3435.51 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 82.8 deg,82.9 deg

C0-180 — C90-270 —

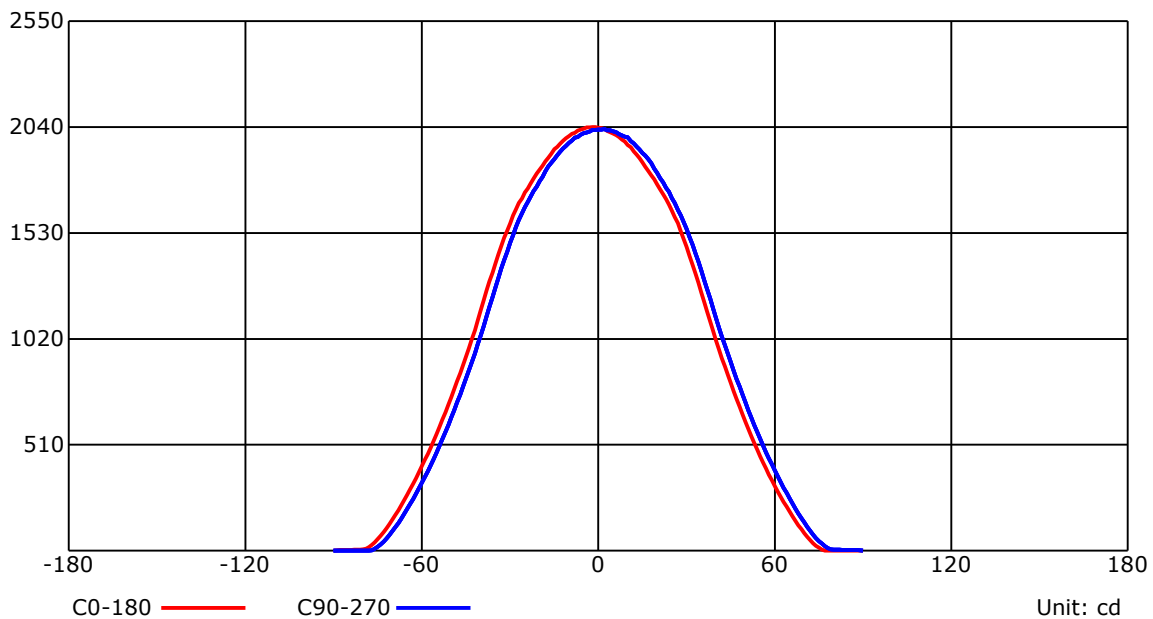
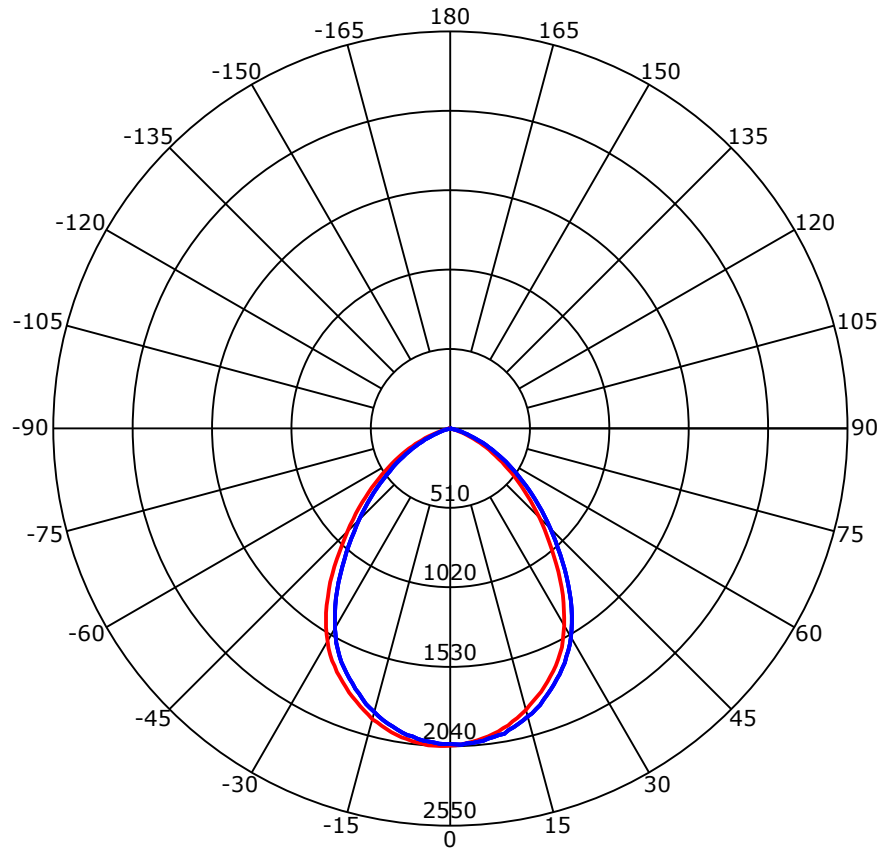
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:10:51

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



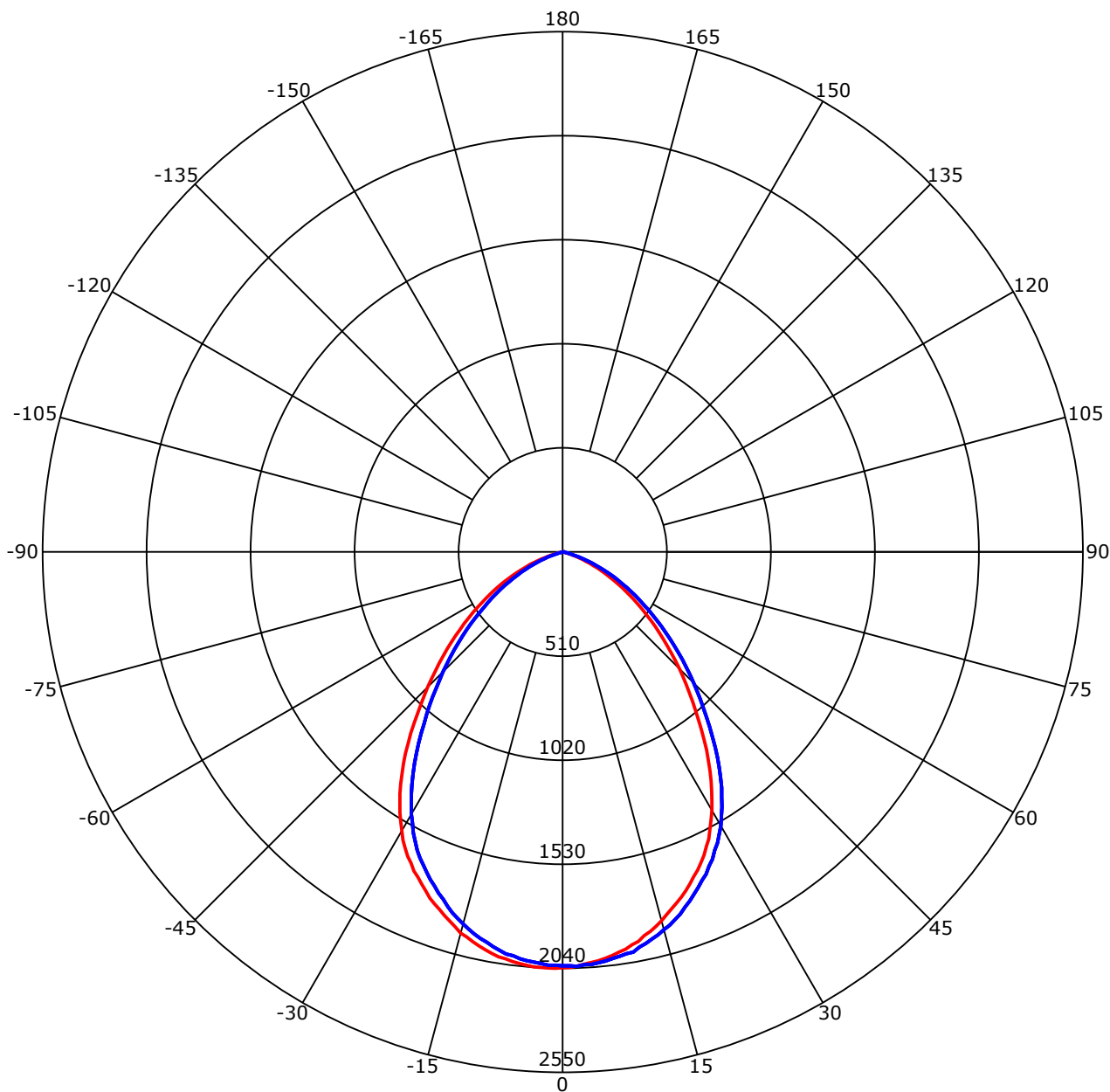
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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 11:10:51

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

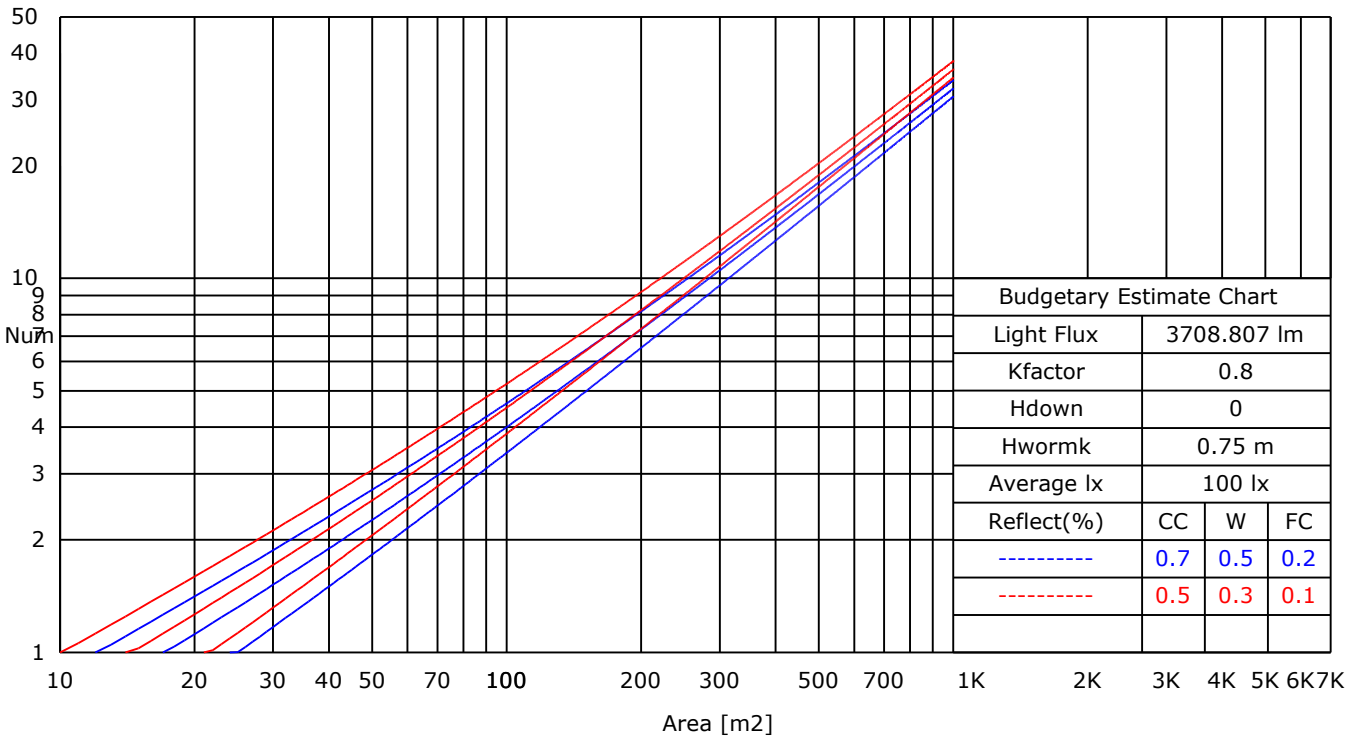
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UTILIZATION FACTORS TABLE

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	1.08	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	0.87	0.82
2	1.00	0.98	0.97	0.99	0.97	0.95	0.95	0.93	0.91	0.91	0.89	0.86	0.86	0.83	0.80	0.76
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.85	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
4	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.79	0.76	0.72	0.76	0.72	0.68	0.64
5	0.79	0.77	0.75	0.78	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.67	0.71	0.67	0.63	0.59
6	0.73	0.71	0.70	0.73	0.70	0.68	0.72	0.68	0.65	0.70	0.65	0.62	0.67	0.62	0.58	0.55
7	0.68	0.66	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.66	0.61	0.58	0.64	0.59	0.55	0.51
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	0.60	0.58	0.57	0.60	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.51	0.57	0.52	0.48	0.45
10	0.57	0.55	0.54	0.57	0.54	0.53	0.56	0.53	0.50	0.56	0.51	0.48	0.54	0.49	0.45	0.42

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



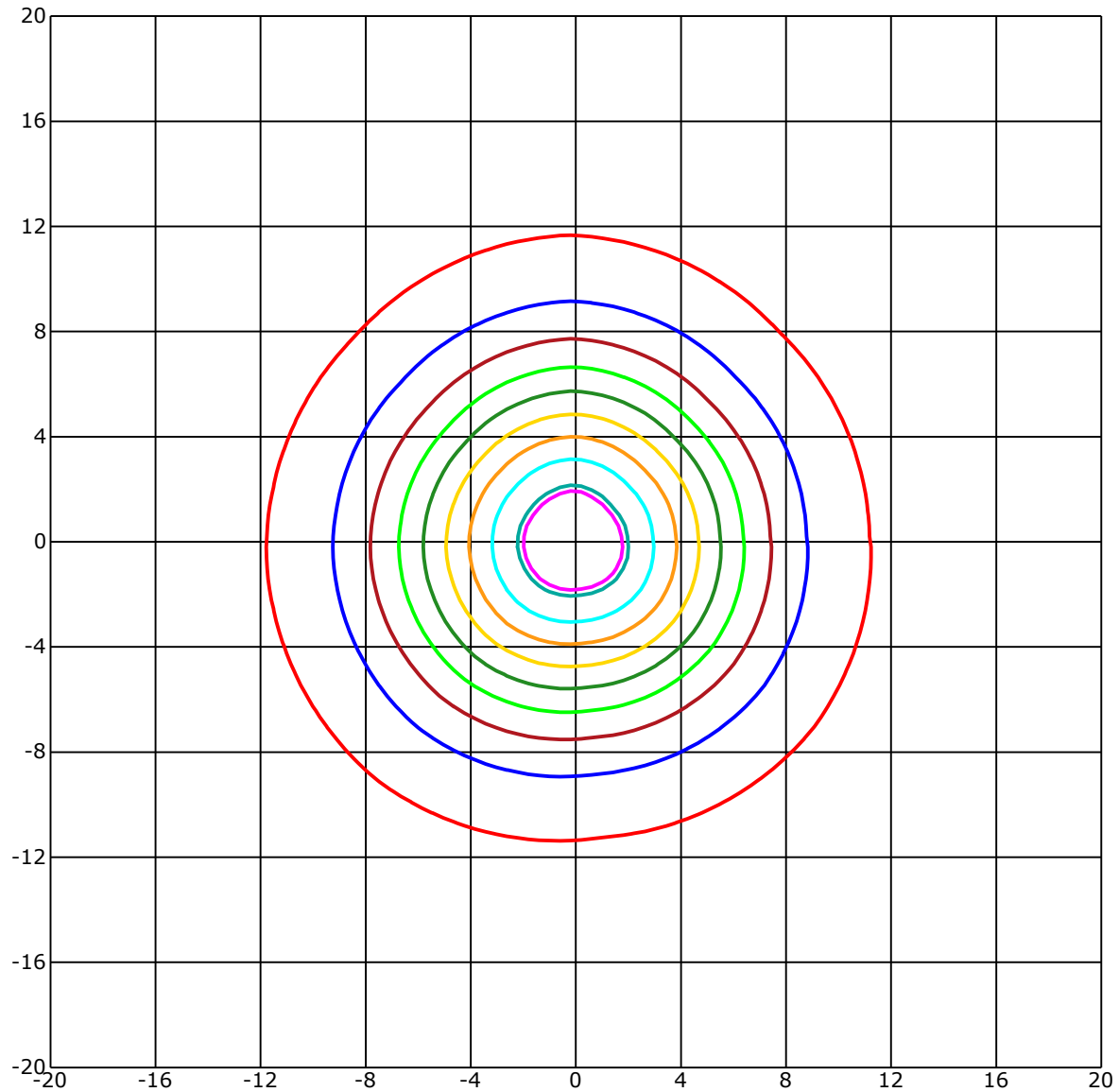
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Operators: QC01
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

18.756(92%Emax)	10.194(50%Emax)
18.349(90%Emax)	8.155(40%Emax)
16.31(80%Emax)	6.116(30%Emax)
14.271(70%Emax)	4.077(20%Emax)
12.232(60%Emax)	2.039(10%Emax)

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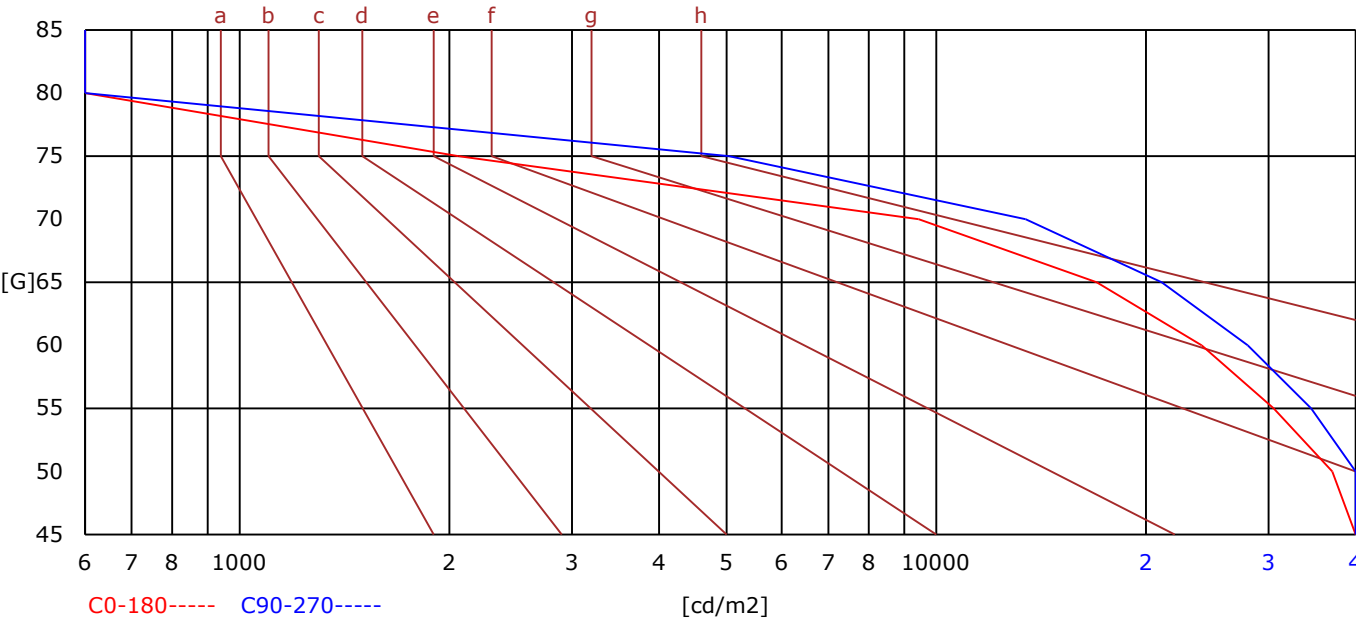
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	43846	37021	30489	24051	16983	9439	2060	0	0
C90	48114	41223	34512	28000	21057	13433	5041	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
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Remarks:

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	15.96	16.03	16.16	16.22	16.46	16.24	16.31	16.44	16.49	16.74
3H	15.97	16.03	16.18	16.23	16.47	16.23	16.30	16.44	16.49	16.74
4H	15.95	16.01	16.16	16.21	16.46	16.21	16.27	16.42	16.47	16.72
6H	15.92	15.99	16.14	16.19	16.44	16.19	16.25	16.40	16.45	16.70
8H	15.91	15.97	16.13	16.17	16.43	16.17	16.23	16.39	16.44	16.69
12H	15.90	15.96	16.12	16.16	16.42	16.16	16.22	16.38	16.42	16.68
4H 2H	16.40	16.46	16.61	16.66	16.91	16.88	16.94	17.09	17.14	17.38
3H	16.41	16.47	16.63	16.67	16.93	16.87	16.93	17.09	17.13	17.39
4H	16.38	16.44	16.61	16.65	16.91	16.84	16.90	17.07	17.11	17.37
6H	16.35	16.40	16.59	16.62	16.89	16.81	16.86	17.05	17.08	17.35
8H	16.33	16.38	16.58	16.61	16.88	16.79	16.84	17.04	17.07	17.34
12H	16.32	16.36	16.56	16.60	16.86	16.77	16.82	17.02	17.05	17.32
8H 4H	16.36	16.42	16.58	16.63	16.88	16.85	16.91	17.07	17.11	17.36
6H	16.30	16.34	16.55	16.58	16.85	16.76	16.81	17.02	17.05	17.32
8H	16.28	16.32	16.54	16.57	16.84	16.74	16.79	17.01	17.03	17.31
12H	16.26	16.30	16.53	16.55	16.83	16.72	16.76	16.99	17.02	17.30
12H 4H	16.32	16.36	16.56	16.60	16.86	16.78	16.83	17.03	17.06	17.33
6H	16.28	16.32	16.54	16.57	16.84	16.74	16.79	17.01	17.03	17.31

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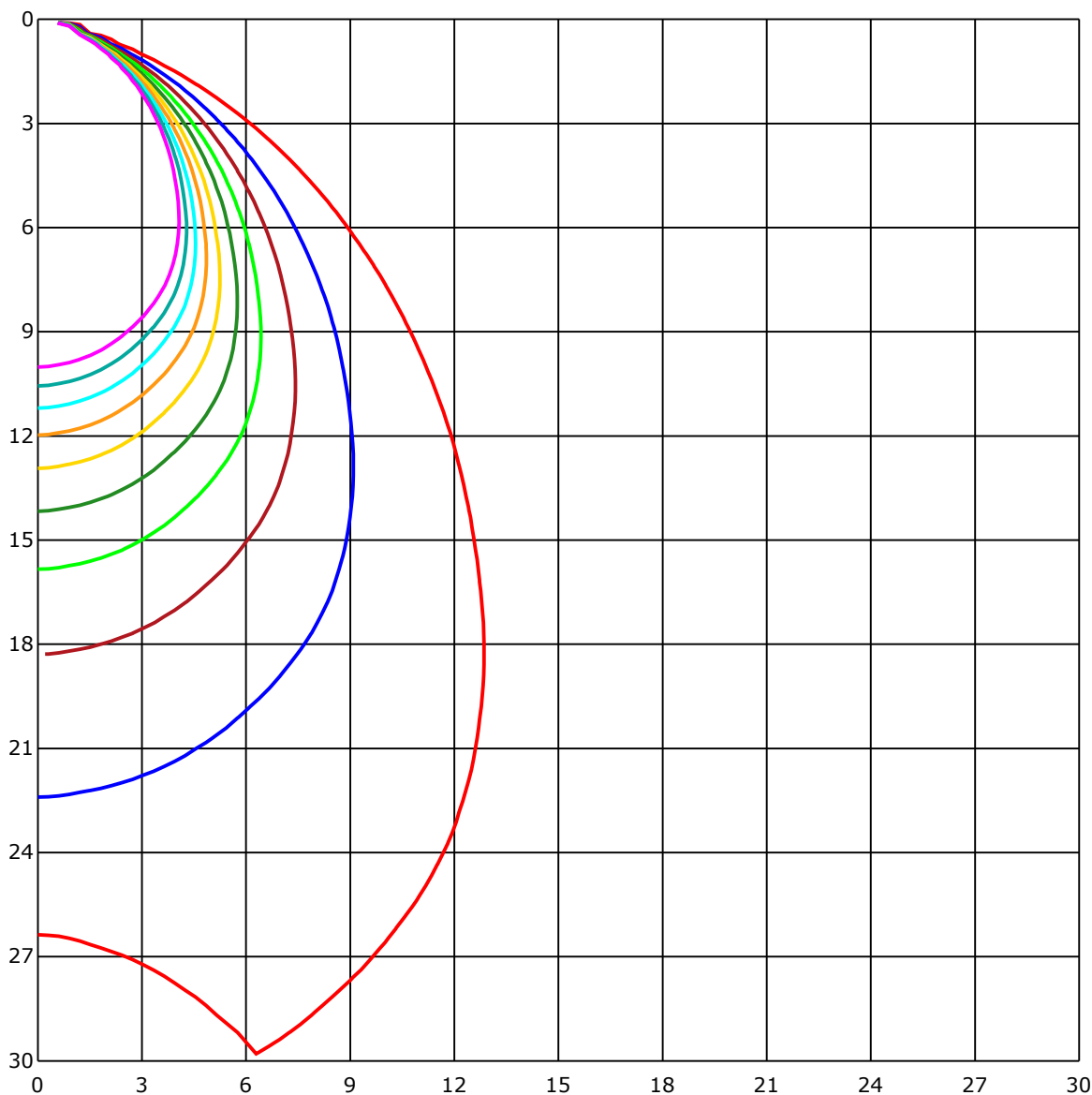
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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



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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2036.84	2024.31	2027.19	2033.61	2036.84	2024.31	2027.19	2033.61	2036.84	
G1	2035.54	2021.35	2027.73	2036.21	2039.67	2030.2	2025.75	2032.66	2035.54	
G2	2030.33	2021.26	2031.23	2030.46	2040.03	2027.64	2025.75	2030.46	2030.33	
G3	2022.29	2018.84	2025.08	2029.34	2039.08	2025.75	2019.15	2028.62	2022.29	
G4	2015.97	2008.06	2025.08	2028.67	2038.72	2028.31	2014.17	2024.23	2015.97	
G5	2009.95	2001.78	2019.65	2020.9	2032.08	2022.52	2011.12	2021.35	2009.95	
G6	2001.11	1990.02	2015.79	2019.11	2027.28	2019.6	2003.89	2016.23	2001.11	
G7	1992.26	1976.96	2006.49	2010.49	2022.52	2009.86	1992.62	2004.02	1992.26	
G8	1979.87	1967.21	2000.57	2005.06	2012.37	2008.83	1989.08	1997.38	1979.87	
G9	1970.54	1955.0	1993.48	1992.71	2008.38	1999.72	1976.01	1985.75	1970.54	
G10	1954.06	1944.37	1990.96	1980.64	1997.43	1988.0	1964.21	1972.87	1954.06	
G11	1943.42	1927.22	1971.61	1970.18	1986.65	1977.54	1948.45	1962.64	1943.42	
G12	1922.28	1914.2	1961.02	1953.03	1973.23	1965.91	1937.14	1944.41	1922.28	
G13	1908.01	1895.79	1946.61	1942.53	1960.39	1954.78	1921.65	1935.25	1908.01	
G14	1890.05	1876.49	1932.34	1925.51	1944.59	1943.56	1904.91	1913.21	1890.05	
G15	1871.15	1859.07	1915.46	1907.51	1933.05	1927.04	1885.74	1897.37	1871.15	
G16	1848.62	1844.49	1902.84	1890.77	1910.7	1909.44	1867.69	1881.88	1848.62	
G17	1828.06	1817.37	1883.76	1872.14	1892.79	1894.18	1849.78	1859.88	1828.06	
G18	1807.99	1795.87	1865.85	1852.48	1874.7	1875.24	1826.71	1843.68	1807.99	
G19	1788.24	1776.25	1840.27	1829.04	1853.73	1857.91	1799.6	1821.64	1788.24	
G20	1764.72	1754.84	1819.44	1802.65	1835.19	1831.56	1779.26	1802.2	1764.72	
G21	1740.97	1726.38	1795.6	1780.52	1816.88	1807.81	1753.63	1774.1	1740.97	
G22	1715.7	1705.64	1773.47	1756.68	1791.69	1792.82	1731.81	1750.31	1715.7	
G23	1693.07	1679.02	1747.57	1735.0	1768.49	1768.76	1705.37	1728.85	1693.07	
G24	1666.59	1652.9	1728.49	1708.33	1744.83	1748.6	1679.43	1705.33	1666.59	
G25	1637.68	1620.04	1697.83	1680.23	1725.21	1718.97	1655.18	1680.46	1637.68	
G26	1606.84	1594.4	1674.31	1651.95	1696.57	1697.7	1625.6	1649.12	1606.84	
G27	1577.26	1559.21	1640.91	1626.23	1674.31	1670.0	1592.92	1621.74	1577.26	
G28	1537.12	1523.93	1614.42	1590.27	1644.5	1642.35	1559.57	1593.06	1537.12	
G29	1500.0	1483.26	1581.74	1555.93	1615.1	1607.83	1519.12	1553.82	1500.0	
G30	1462.88	1447.84	1549.47	1518.4	1576.67	1575.73	1482.9	1514.95	1462.88	
G31	1419.96	1403.67	1511.18	1480.34	1542.69	1546.28	1439.67	1479.75	1419.96	
G32	1376.06	1365.64	1472.53	1441.19	1507.0	1502.33	1399.54	1439.35	1376.06	
G33	1334.22	1318.87	1431.27	1401.29	1466.74	1463.01	1358.15	1397.65	1334.22	
G34	1291.31	1274.7	1392.17	1356.49	1427.23	1424.76	1312.54	1352.76	1291.31	
G35	1243.77	1226.4	1349.26	1314.6	1383.87	1381.18	1267.02	1307.74	1243.77	
G36	1198.79	1181.42	1303.61	1269.58	1339.02	1337.14	1221.23	1265.05	1198.79	

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Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1151.74	1131.45	1259.93	1224.82	1297.23	1293.1	1173.56	1218.23	1151.74	
G38	1102.59	1087.24	1214.32	1173.87	1252.07	1251.31	1127.37	1169.38	1102.59	
G39	1058.19	1038.4	1166.29	1129.48	1203.77	1204.89	1079.78	1124.72	1058.19	
G40	1011.51	996.15	1119.69	1079.92	1157.98	1161.53	1036.24	1076.82	1011.51	
G41	970.57	951.58	1074.89	1035.52	1109.86	1111.43	995.66	1035.52	970.57	
G42	926.8	912.75	1031.75	991.04	1061.83	1068.07	950.68	993.06	926.8	
G43	887.39	869.79	989.06	949.87	1017.48	1025.11	907.14	950.5	887.39	
G44	846.58	832.71	948.17	907.99	975.15	980.98	867.95	909.56	846.58	
G45	809.05	793.7	908.17	870.96	934.12	939.5	829.88	871.05	809.05	
G46	768.7	755.63	867.63	830.2	894.84	899.19	790.56	831.54	768.7	
G47	730.58	717.88	827.14	793.25	854.3	860.41	751.77	793.52	730.58	
G48	692.34	680.98	790.06	756.62	816.01	819.6	714.11	754.42	692.34	
G49	656.34	645.52	751.14	715.41	777.05	781.89	676.45	714.42	656.34	
G50	619.57	609.2	713.62	678.33	739.07	743.06	641.7	677.97	619.57	
G51	585.55	576.25	675.95	642.65	703.07	704.28	604.89	642.82	585.55	
G52	552.1	543.48	641.39	608.71	666.98	667.83	572.39	607.27	552.1	
G53	519.6	511.48	606.46	574.5	631.11	632.14	537.65	572.71	519.6	
G54	486.65	479.38	571.36	538.72	596.27	596.86	504.61	539.17	486.65	
G55	453.57	447.69	538.59	506.76	561.53	561.66	471.61	508.02	453.57	
G56	423.67	418.87	506.22	475.65	529.39	529.39	441.81	476.1	423.67	
G57	395.88	389.2	473.77	445.71	497.47	496.66	411.96	444.95	395.88	
G58	365.81	361.86	445.17	415.14	466.54	466.18	383.45	413.44	365.81	
G59	337.98	334.21	415.01	387.49	436.91	433.91	353.87	383.81	337.98	
G60	310.91	307.86	385.52	358.4	406.93	404.64	327.7	356.07	310.91	
G61	284.65	280.29	358.81	330.97	378.2	375.73	300.4	329.09	284.65	
G62	258.88	255.56	330.17	303.64	349.29	347.22	274.68	301.03	258.88	
G63	234.6	230.06	303.19	277.6	322.04	319.89	249.0	275.58	234.6	
G64	211.25	207.03	277.87	252.24	295.6	293.22	224.45	249.68	211.25	
G65	187.86	183.73	252.1	227.82	269.43	267.45	201.47	225.62	187.86	
G66	165.37	161.51	227.37	203.8	243.26	242.36	177.85	201.47	165.37	
G67	143.87	140.1	202.41	181.13	218.66	218.08	154.83	178.75	143.87	
G68	122.59	119.81	179.52	158.82	194.82	195.05	133.5	156.44	122.59	
G69	103.07	100.42	156.85	138.49	172.06	172.11	113.17	135.12	103.07	
G70	84.26	82.64	135.48	117.61	149.62	150.25	93.86	114.69	84.26	
G71	66.89	65.54	114.83	98.53	128.74	128.25	75.64	95.53	66.89	
G72	51.04	50.14	95.66	79.99	108.14	108.18	59.21	77.26	51.04	
G73	36.5	35.46	77.48	63.21	89.42	89.15	43.63	60.78	36.5	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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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

Remarks:

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