

Report No.:

Test Time: 2024/11/20 15:35:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-35W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

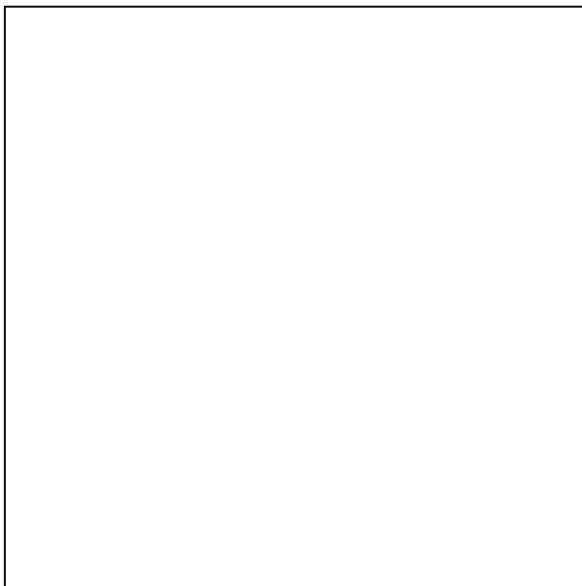
Voltage(V): 219.90 V
Current(A): 0.1630 A
Power(W): 34.79 W
Power Factor: 0.9670
Lamp Luminous Flux: 4101.81

Photometric Results

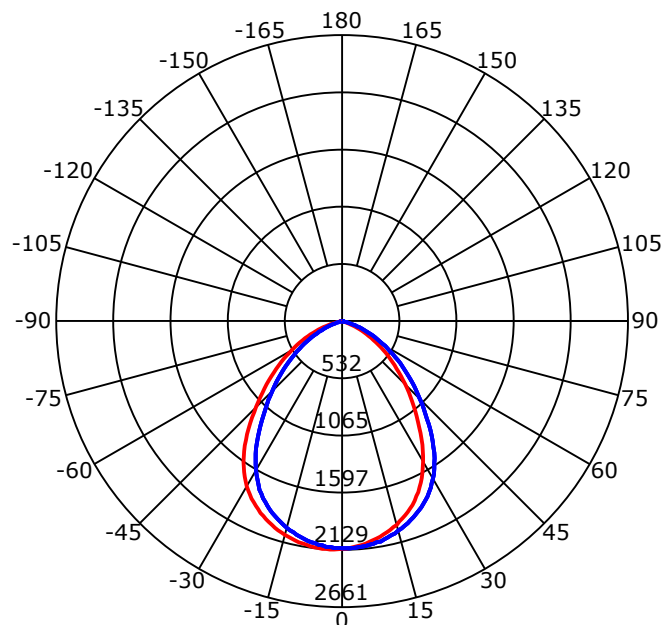
CIE Class: Direct
Luminaire Luminous Flux: 4101.808 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 117.90 lm/W
Beam Angle(50%) C0-180,C90-270: 85.9,86.0
Field Angle(10%) C0-180,C90-270: 134.4,134.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 2129.13 cd
Max.Intensity Angle: C=180 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2120.22 cd
Effective Luminous Flux: 3991.65 lm
ERP(ϕ use)(120deg): 3767.33 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 85.9 deg,86.0 deg

C0-180 — C90-270 —

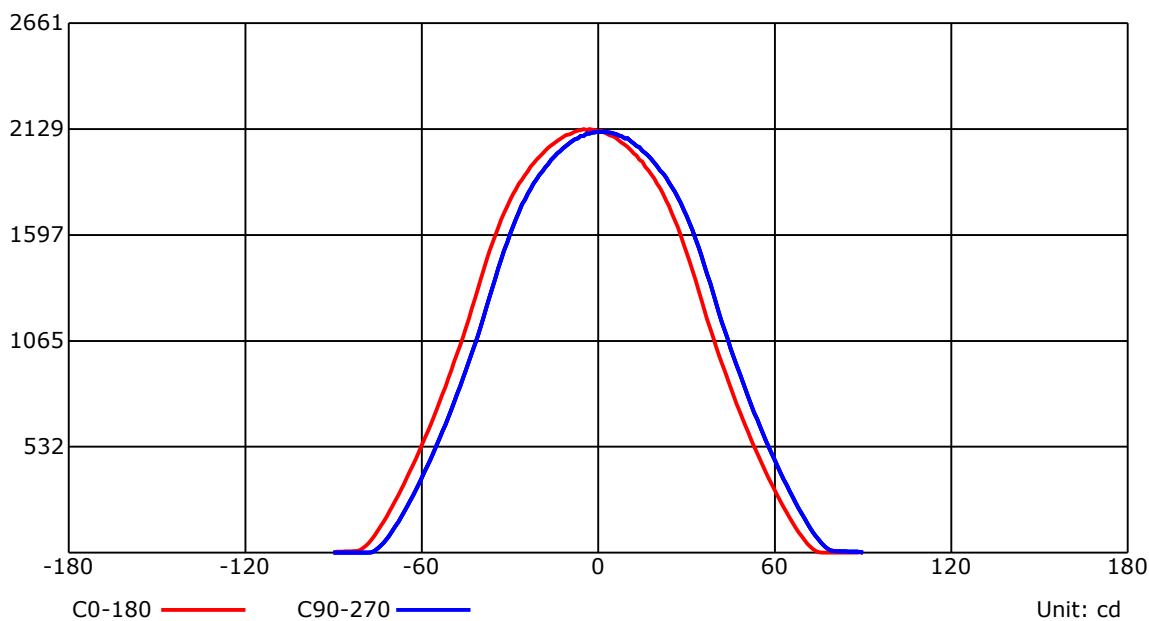
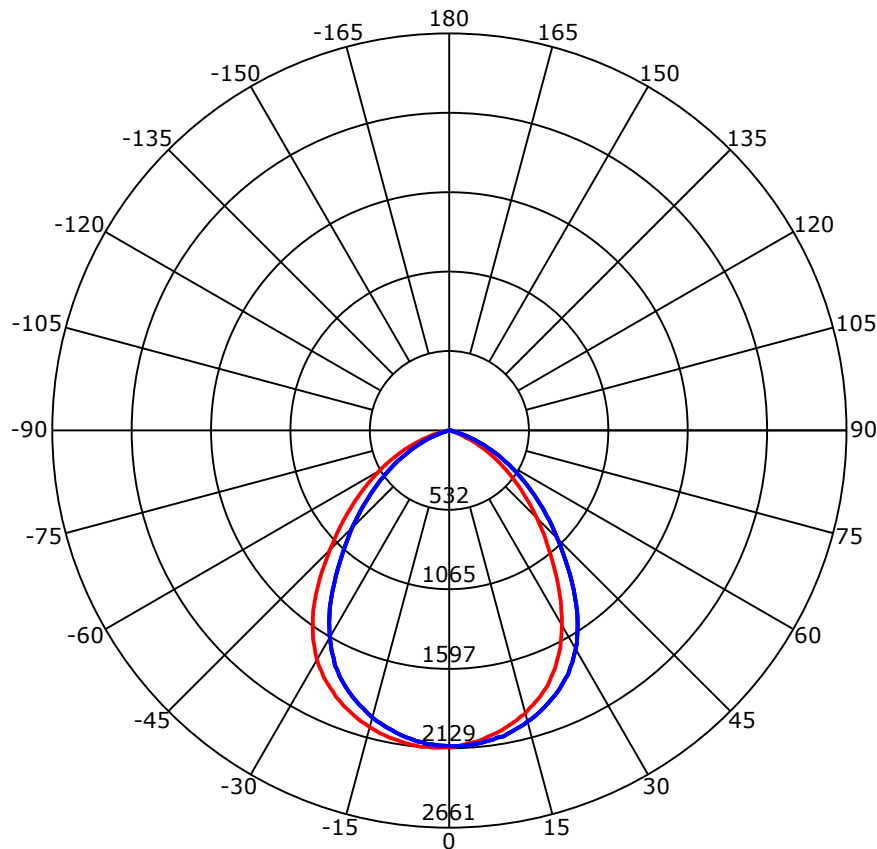
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:35:27

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



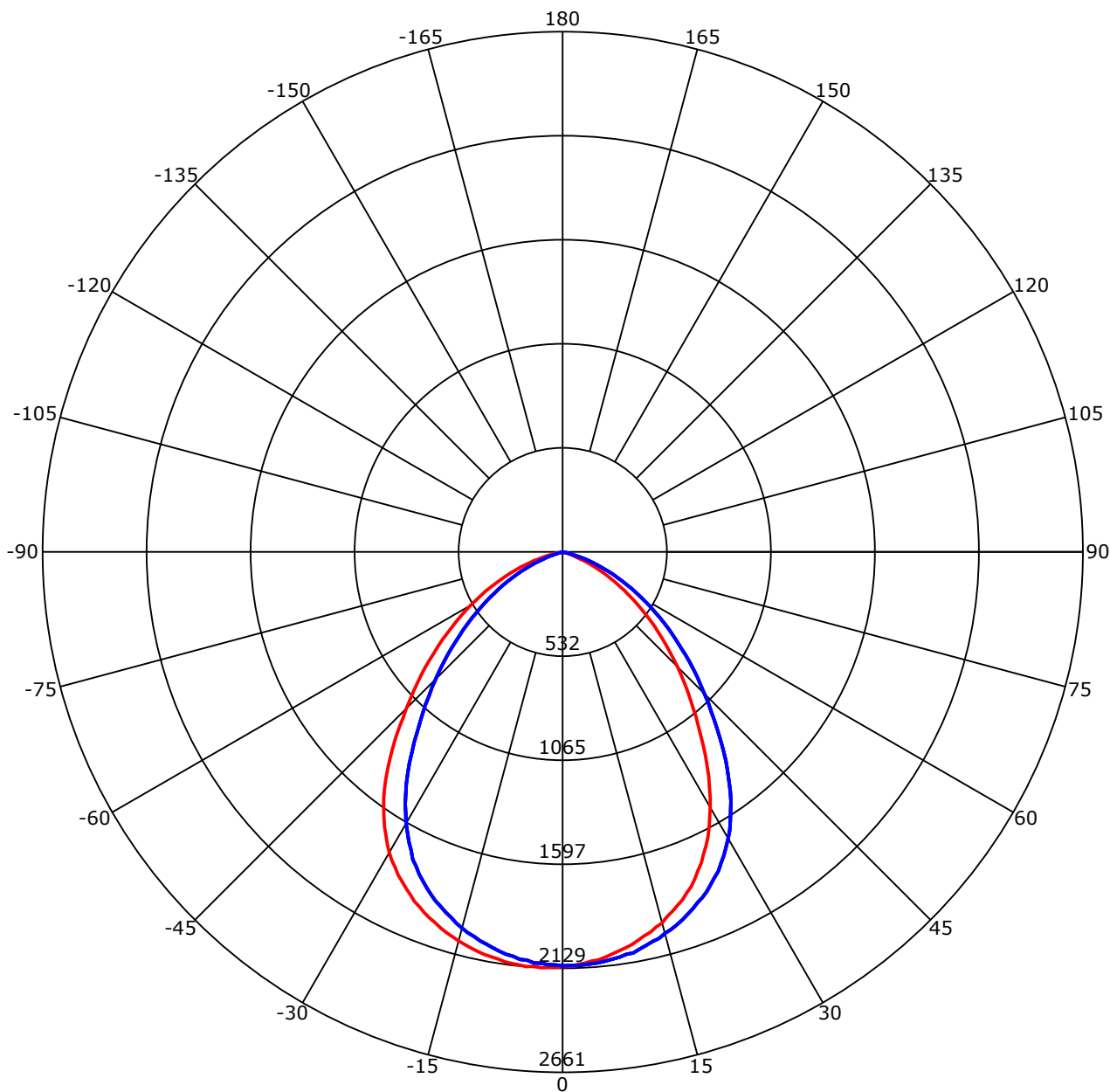
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

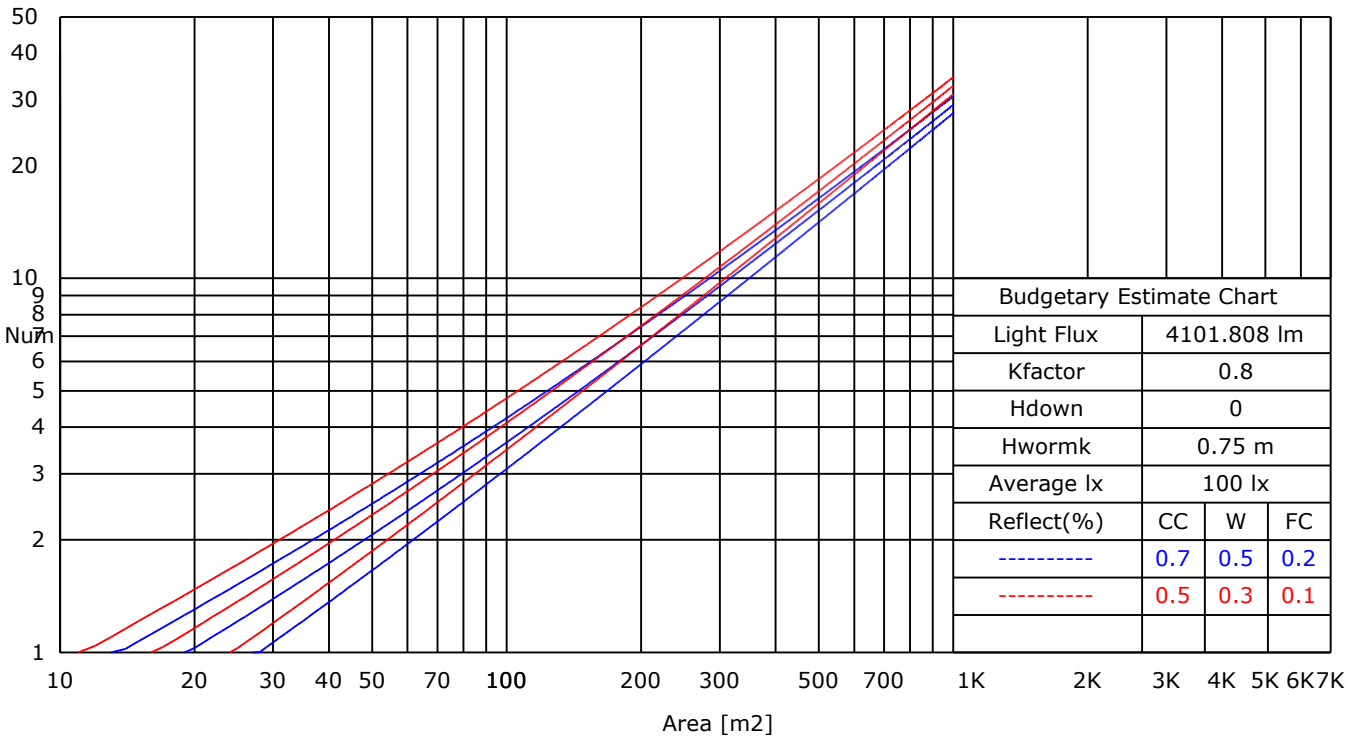
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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	1.08	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	0.88	0.82
2	1.00	0.98	0.97	0.98	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.92	0.90	0.88	0.91	0.88	0.86	0.88	0.85	0.83	0.85	0.81	0.78	0.80	0.77	0.73	0.69
4	0.84	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.63
5	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.72	0.70	0.69	0.72	0.69	0.68	0.71	0.67	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.54
7	0.67	0.65	0.64	0.67	0.65	0.63	0.66	0.63	0.60	0.65	0.60	0.57	0.63	0.58	0.54	0.50
8	0.63	0.61	0.60	0.63	0.60	0.59	0.62	0.59	0.56	0.61	0.57	0.53	0.60	0.54	0.50	0.47
9	0.59	0.57	0.56	0.59	0.57	0.55	0.59	0.55	0.53	0.58	0.53	0.50	0.56	0.51	0.47	0.44
10	0.56	0.54	0.53	0.56	0.53	0.52	0.55	0.52	0.49	0.55	0.50	0.47	0.54	0.48	0.45	0.42

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



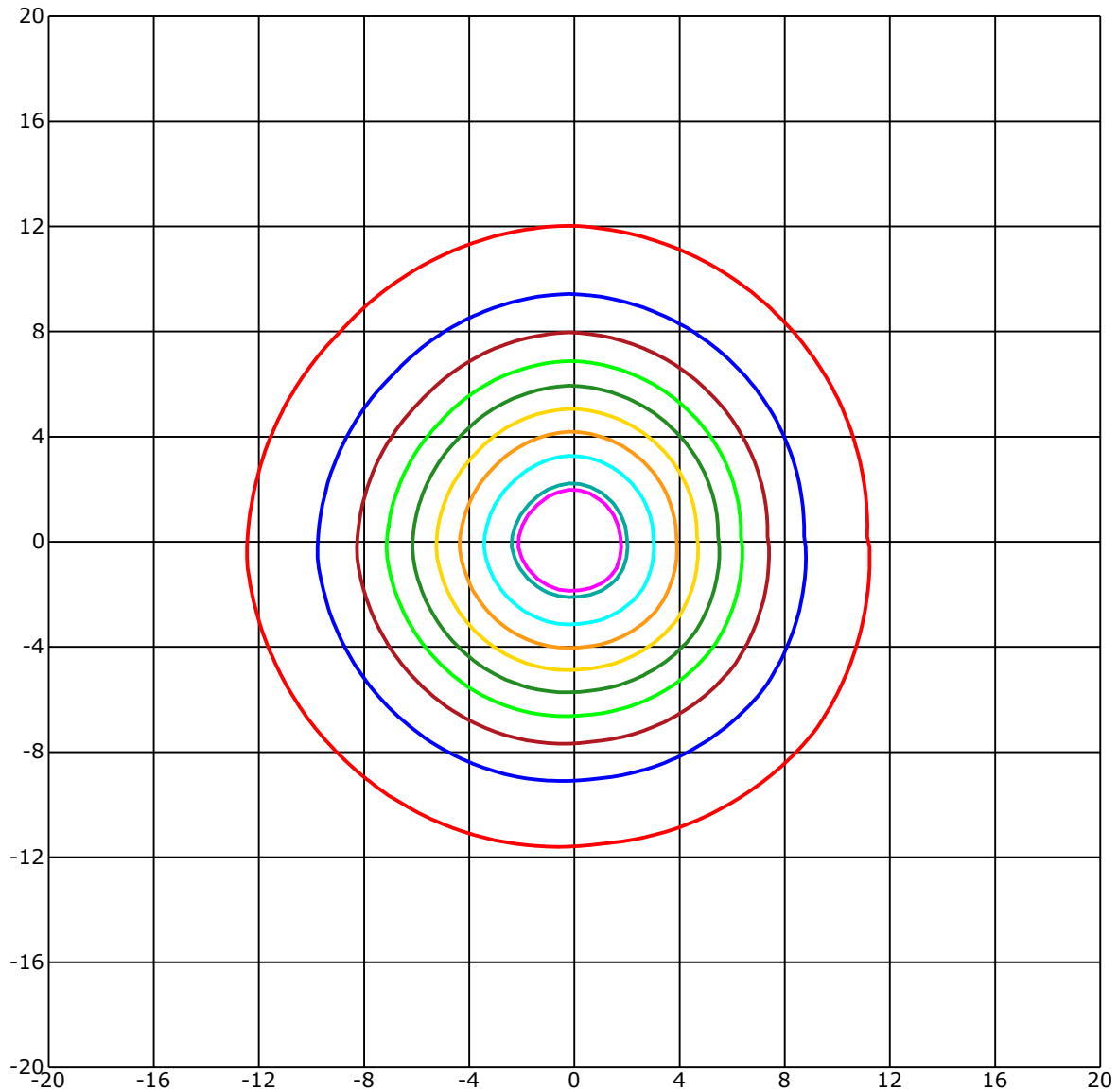
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



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

19.539(92%Emax)	10.619(50%Emax)
19.114(90%Emax)	8.495(40%Emax)
16.99(80%Emax)	6.371(30%Emax)
14.866(70%Emax)	4.248(20%Emax)
12.743(60%Emax)	2.124(10%Emax)

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Operators: QC01
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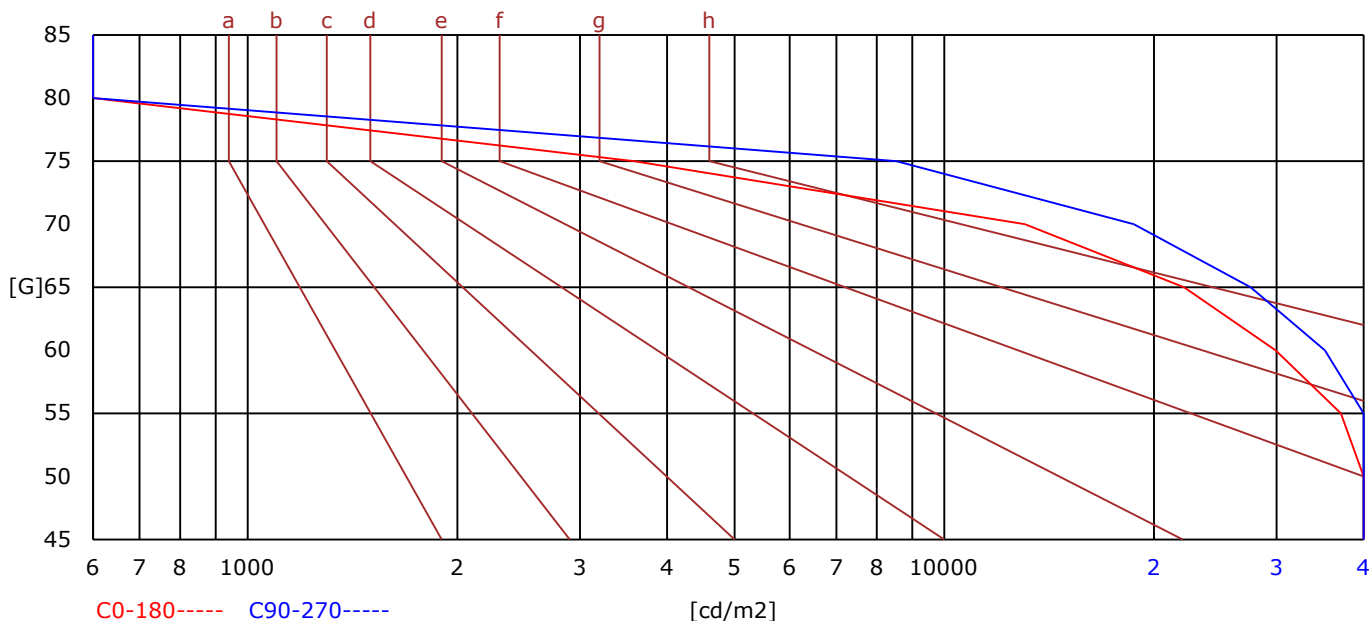
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	50803	43861	37082	29887	22088	13062	3584	94	104
C90	56014	49188	42205	35177	27524	18703	8532	209	197
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



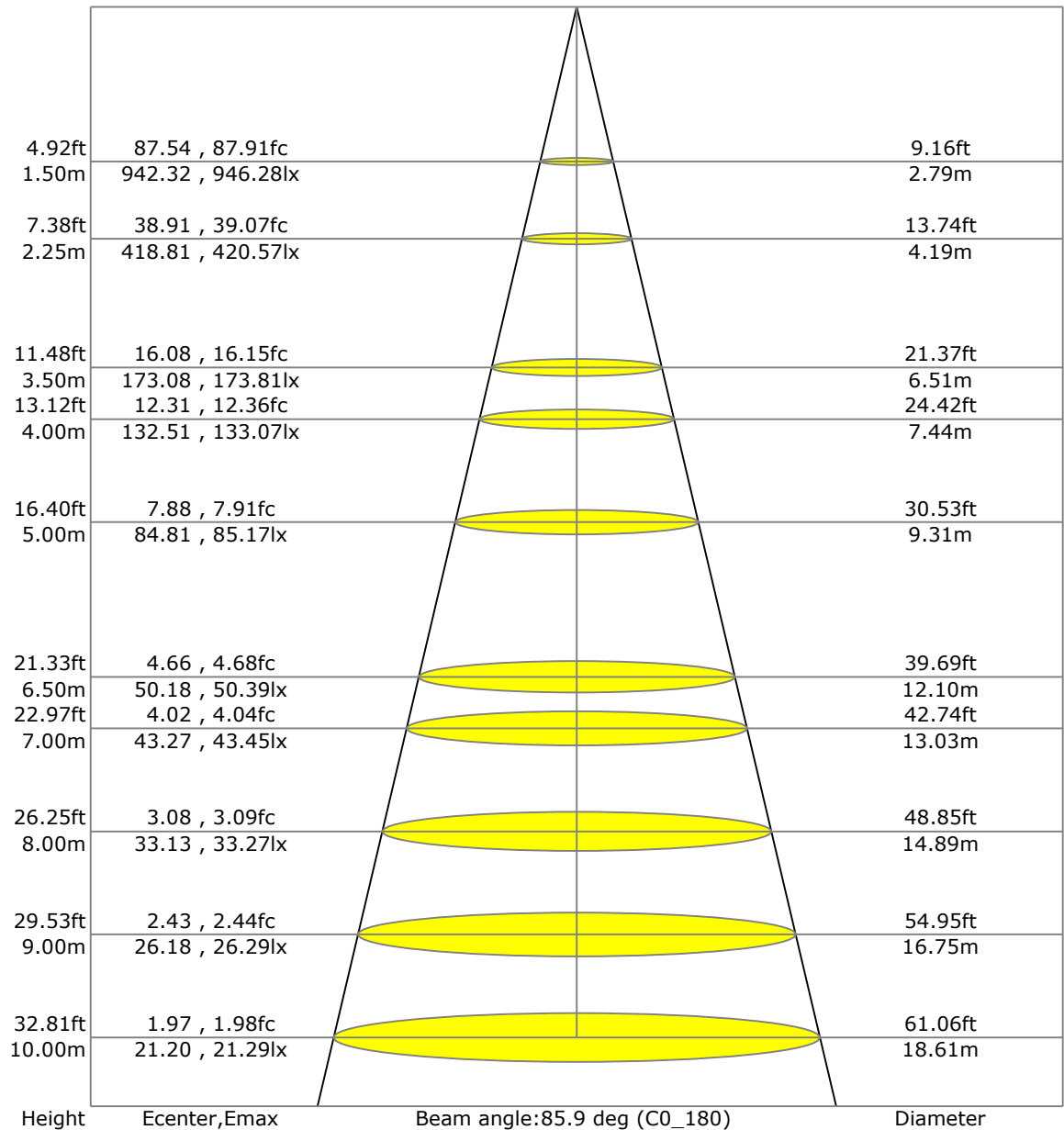
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:35:27

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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	16.25	16.31	16.45	16.50	16.74	16.72	16.78	16.92	16.97	17.22
	3H	16.27	16.33	16.47	16.52	16.77	16.71	16.77	16.92	16.97	17.21
	4H	16.25	16.31	16.46	16.51	16.75	16.69	16.75	16.90	16.95	17.20
	6H	16.22	16.28	16.44	16.48	16.73	16.66	16.72	16.88	16.92	17.18
	8H	16.21	16.27	16.43	16.47	16.72	16.65	16.71	16.87	16.91	17.16
	12H	16.19	16.25	16.42	16.46	16.71	16.63	16.69	16.86	16.90	17.15
4H	2H	16.63	16.70	16.85	16.89	17.14	17.47	17.53	17.68	17.73	17.97
	3H	16.66	16.72	16.88	16.93	17.18	17.46	17.52	17.69	17.73	17.98
	4H	16.64	16.69	16.87	16.91	17.16	17.43	17.49	17.66	17.70	17.96
	6H	16.60	16.66	16.84	16.88	17.14	17.40	17.45	17.64	17.68	17.94
	8H	16.59	16.64	16.83	16.86	17.13	17.38	17.44	17.63	17.66	17.93
	12H	16.57	16.62	16.82	16.85	17.12	17.37	17.42	17.62	17.65	17.92
8H	4H	16.60	16.66	16.81	16.86	17.11	17.44	17.50	17.66	17.70	17.95
	6H	16.55	16.60	16.80	16.83	17.11	17.36	17.40	17.61	17.64	17.92
	8H	16.53	16.57	16.79	16.82	17.09	17.34	17.38	17.60	17.63	17.90
	12H	16.51	16.55	16.78	16.80	17.08	17.32	17.36	17.59	17.61	17.89
12H	4H	16.57	16.62	16.82	16.85	17.12	17.38	17.43	17.63	17.66	17.93
	6H	16.53	16.57	16.79	16.82	17.09	17.34	17.38	17.60	17.63	17.90

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Test Distance: 6.81 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

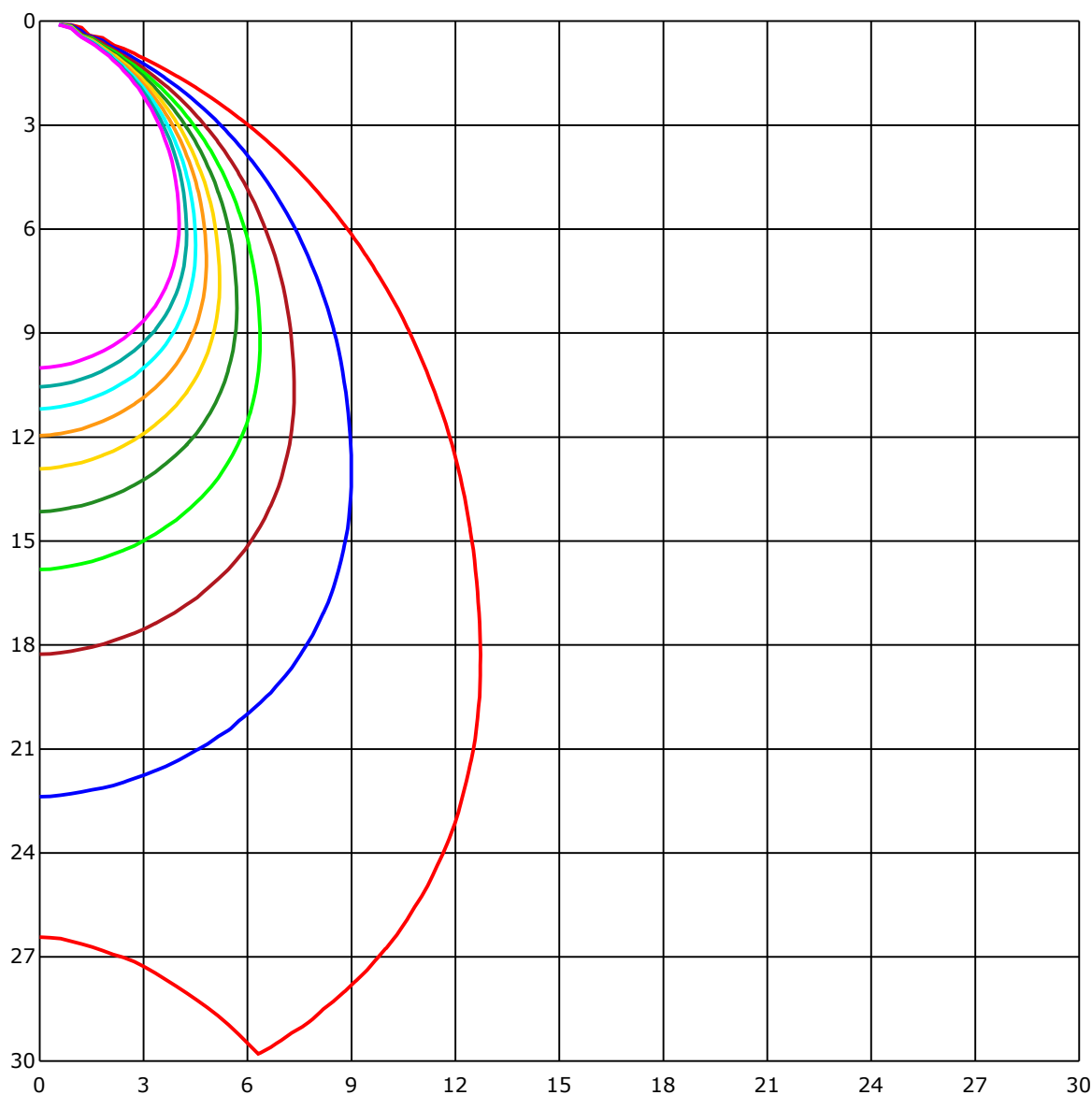
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SPACE ISOLX DIAGRAM



21.181

19.063

16.945

14.827

12.709

10.591

8.473

6.354

4.236

2.118

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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/11/20 15:35:27

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2120.22	2112.9	2115.59	2120.55	2120.22	2112.9	2115.59	2120.55	2120.22	
G1	2119.34	2112.62	2114.61	2122.4	2124.72	2112.2	2112.52	2117.86	2119.34	
G2	2111.5	2106.91	2115.68	2120.18	2126.58	2115.03	2111.46	2118.6	2111.5	
G3	2105.48	2104.64	2112.66	2118.28	2129.03	2118.23	2106.45	2113.73	2105.48	
G4	2097.08	2099.96	2111.74	2120.04	2124.4	2109.88	2106.45	2115.4	2097.08	
G5	2093.74	2095.78	2108.26	2114.7	2129.13	2109.56	2096.2	2102.6	2093.74	
G6	2083.63	2086.14	2103.81	2108.49	2123.93	2100.75	2094.25	2097.92	2083.63	
G7	2071.02	2082.89	2097.08	2104.22	2120.87	2102.88	2082.57	2091.01	2071.02	
G8	2060.3	2071.25	2092.26	2097.55	2116.79	2089.2	2077.14	2086.0	2060.3	
G9	2049.96	2064.62	2083.26	2086.97	2108.44	2083.31	2067.86	2073.85	2049.96	
G10	2038.83	2051.31	2082.29	2080.01	2102.18	2073.75	2056.18	2068.14	2038.83	
G11	2023.67	2039.95	2068.61	2067.54	2097.96	2066.06	2043.38	2051.35	2023.67	
G12	2007.67	2027.75	2057.06	2060.12	2088.36	2054.42	2032.76	2042.45	2007.67	
G13	1995.01	2018.89	2044.58	2045.97	2079.5	2043.66	2018.2	2026.64	1995.01	
G14	1975.39	1998.9	2036.93	2038.09	2069.53	2031.83	2006.65	2016.99	1975.39	
G15	1964.72	1984.99	2019.63	2021.86	2058.73	2025.89	1991.3	2000.57	1964.72	
G16	1938.89	1968.71	2008.6	2007.39	2046.72	2008.92	1974.65	1982.95	1938.89	
G17	1921.78	1951.78	1993.8	1992.09	2035.35	1993.94	1954.47	1964.4	1921.78	
G18	1900.08	1936.43	1978.17	1975.58	2021.35	1976.36	1937.87	1949.19	1900.08	
G19	1880.92	1914.5	1960.13	1958.0	2005.35	1956.7	1917.47	1930.5	1880.92	
G20	1854.72	1894.19	1942.37	1943.58	1991.11	1938.89	1900.03	1910.88	1854.72	
G21	1832.88	1872.48	1922.38	1919.04	1975.67	1921.5	1877.63	1887.28	1832.88	
G22	1802.82	1850.64	1905.55	1901.93	1956.65	1902.02	1855.14	1870.53	1802.82	
G23	1770.22	1824.62	1885.51	1878.6	1940.93	1885.47	1828.93	1842.62	1770.22	
G24	1742.4	1800.41	1861.12	1857.6	1916.4	1859.68	1805.0	1820.54	1742.4	
G25	1705.25	1769.25	1837.7	1832.09	1897.76	1836.17	1773.89	1788.4	1705.25	
G26	1671.86	1737.67	1815.9	1807.09	1874.99	1809.36	1750.33	1758.49	1671.86	
G27	1635.5	1708.54	1784.37	1777.32	1854.63	1782.7	1710.3	1726.3	1635.5	
G28	1594.13	1670.33	1757.14	1749.31	1827.13	1751.53	1677.38	1693.56	1594.13	
G29	1550.49	1634.53	1723.34	1717.26	1803.1	1720.79	1639.35	1655.91	1550.49	
G30	1507.83	1597.56	1692.4	1683.13	1774.35	1686.93	1602.53	1618.39	1507.83	
G31	1466.13	1557.17	1658.36	1645.24	1742.21	1651.78	1560.23	1578.64	1466.13	
G32	1416.51	1518.03	1619.36	1606.79	1708.22	1613.38	1520.07	1537.74	1416.51	
G33	1372.04	1474.67	1577.02	1565.38	1675.34	1575.72	1473.93	1489.88	1372.04	
G34	1320.7	1423.7	1538.53	1523.41	1636.01	1532.08	1431.26	1446.01	1320.7	
G35	1272.56	1379.04	1494.7	1480.93	1597.01	1489.65	1381.73	1397.03	1272.56	
G36	1223.03	1330.39	1447.44	1437.71	1558.19	1444.25	1334.43	1350.7	1223.03	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1173.83	1281.93	1400.84	1390.26	1515.15	1396.57	1282.86	1299.69	1173.83	
G38	1126.06	1233.93	1354.55	1342.4	1469.52	1348.8	1234.58	1253.82	1126.06	
G39	1083.3	1185.05	1305.77	1292.04	1421.66	1299.0	1183.94	1204.67	1083.3	
G40	1036.97	1135.89	1255.63	1244.64	1374.73	1249.7	1136.17	1155.51	1036.97	
G41	993.7	1092.39	1205.69	1194.28	1324.59	1200.82	1090.4	1107.14	993.7	
G42	952.52	1046.85	1159.22	1148.5	1276.13	1149.9	1047.4	1067.21	952.52	
G43	911.66	1004.27	1113.12	1101.15	1225.91	1106.3	1002.19	1021.62	911.66	
G44	869.51	961.14	1071.33	1057.42	1175.31	1060.95	961.84	978.4	869.51	
G45	829.53	919.64	1024.59	1013.97	1131.81	1021.06	919.41	937.08	829.53	
G46	788.3	881.47	984.29	971.35	1085.06	976.73	879.29	896.96	788.3	
G47	748.37	839.41	942.78	930.49	1042.49	936.06	837.78	855.5	748.37	
G48	710.76	799.06	900.99	890.65	999.03	894.18	797.25	815.76	710.76	
G49	673.57	759.73	861.11	849.38	960.54	856.71	756.49	776.48	673.57	
G50	637.49	721.75	820.81	809.4	916.76	813.99	718.5	739.47	637.49	
G51	603.82	684.88	780.23	767.76	877.53	775.96	680.52	700.74	603.82	
G52	566.81	648.29	741.83	729.87	834.68	736.08	644.4	665.31	566.81	
G53	532.44	613.6	704.31	691.65	795.54	699.17	607.94	627.98	532.44	
G54	499.75	578.08	669.02	655.53	756.63	660.16	573.81	592.92	499.75	
G55	466.68	544.5	632.62	619.72	718.74	626.03	538.84	557.95	466.68	
G56	434.31	510.32	597.56	584.25	681.08	589.67	505.36	524.75	434.31	
G57	402.45	478.23	562.31	550.44	644.86	555.72	472.16	491.54	402.45	
G58	372.21	444.28	529.06	515.56	609.8	521.04	440.57	458.57	372.21	
G59	341.79	413.81	495.11	483.19	574.65	489.64	408.34	427.4	341.79	
G60	312.39	382.56	463.71	450.27	540.42	456.06	377.55	395.5	312.39	
G61	283.59	352.32	431.3	418.68	507.96	424.53	346.8	365.3	283.59	
G62	255.49	322.87	400.27	387.66	474.06	393.45	316.84	335.3	255.49	
G63	228.63	294.44	369.01	356.59	443.12	363.12	288.51	305.99	228.63	
G64	201.37	265.97	339.84	326.91	410.47	332.42	259.66	277.42	201.37	
G65	176.09	238.98	309.19	297.78	380.28	303.16	232.02	248.99	176.09	
G66	151.23	212.45	281.32	269.35	348.66	274.04	206.05	221.12	151.23	
G67	127.95	186.66	253.68	241.29	319.3	246.54	180.54	194.69	127.95	
G68	104.9	161.34	225.94	215.32	289.48	219.45	155.55	169.27	104.9	
G69	84.22	137.37	199.05	189.03	261.0	192.74	131.89	144.18	84.22	
G70	64.42	114.36	173.96	163.75	233.78	167.37	109.45	120.53	64.42	
G71	46.28	92.84	148.31	139.73	207.35	142.98	87.65	98.32	46.28	
G72	30.89	72.62	125.08	117.52	181.33	119.46	67.99	78.05	30.89	
G73	18.41	54.31	102.58	95.53	156.47	97.58	50.04	59.55	18.41	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:35:27

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/11/20 15:35:27

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks: