

Report No.:

Test Time: 2022/11/19 9:36:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 40W 30120 Panel UGR
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 50 mm

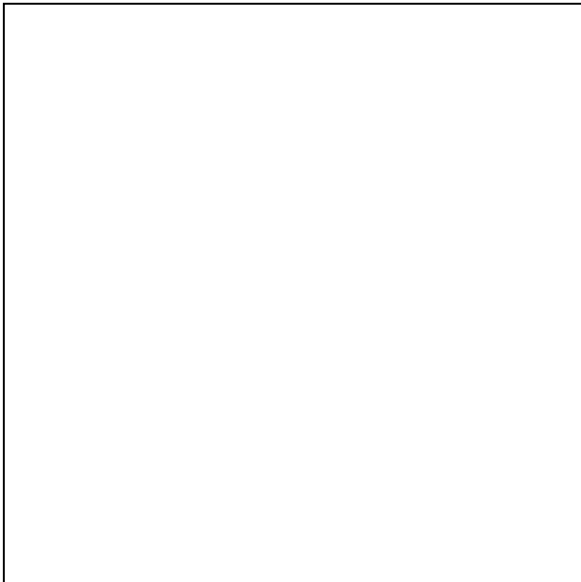
Voltage(V): 219.80 V
Current(A): 0.2180 A
Power(W): 40.42 W
Power Factor: 0.8410
Lamp Luminous Flux: 4207.37

Photometric Results

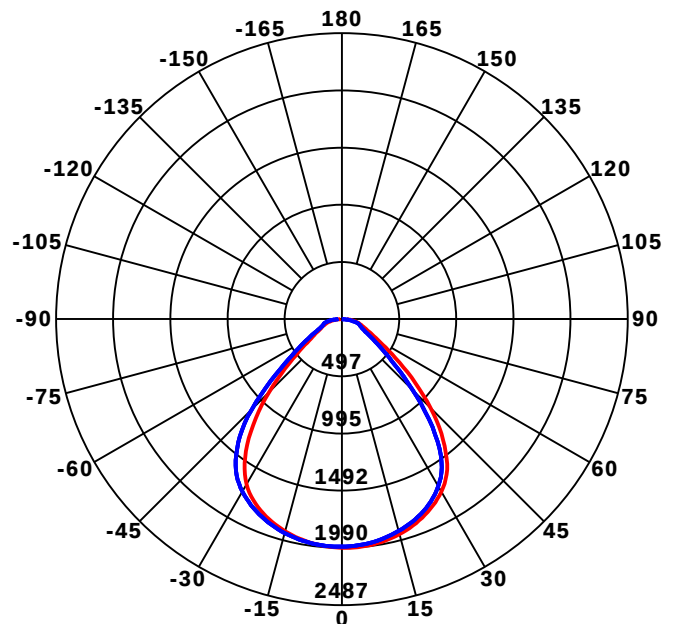
CIE Class: Direct
Luminaire Luminous Flux: 4207.368 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.09 lm/W
Beam Angle(50%) C0-180,C90-270: 90.0,90.0
Field Angle(10%) C0-180,C90-270: 136.7,133.4
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 1989.75 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1989.18 cd
Effective Luminous Flux: 3952.58 lm
ERP(ϕ use)(120deg): 3697.91 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.0 deg,90.0 deg

C0-180 — C90-270 —

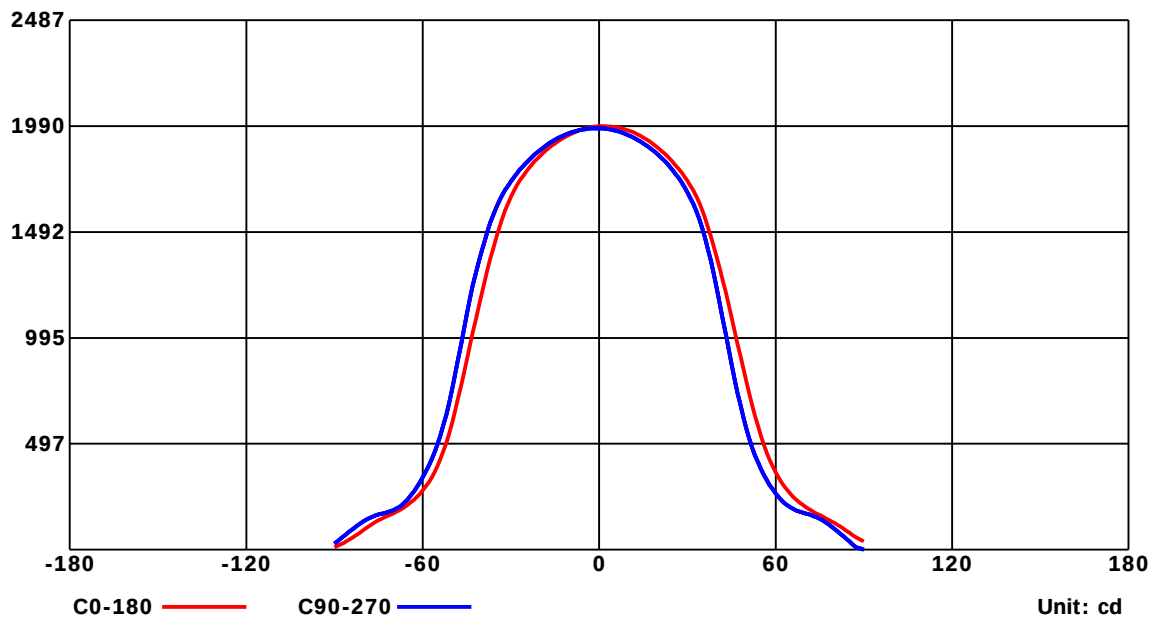
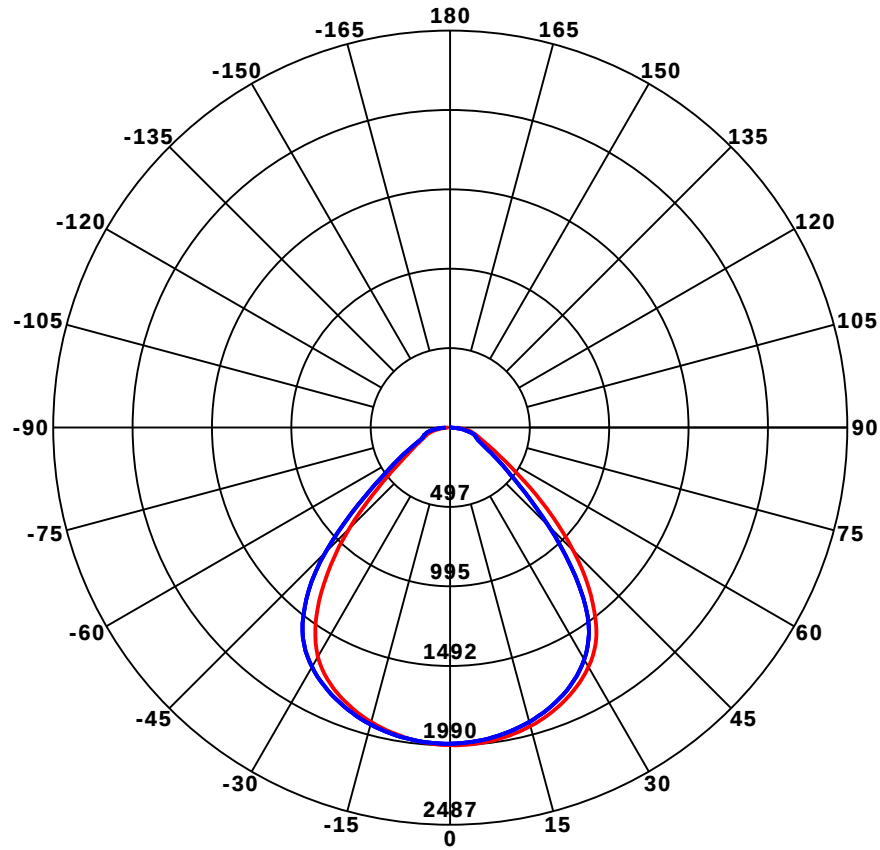
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.38
Operators:
Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.38 m
Remarks:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

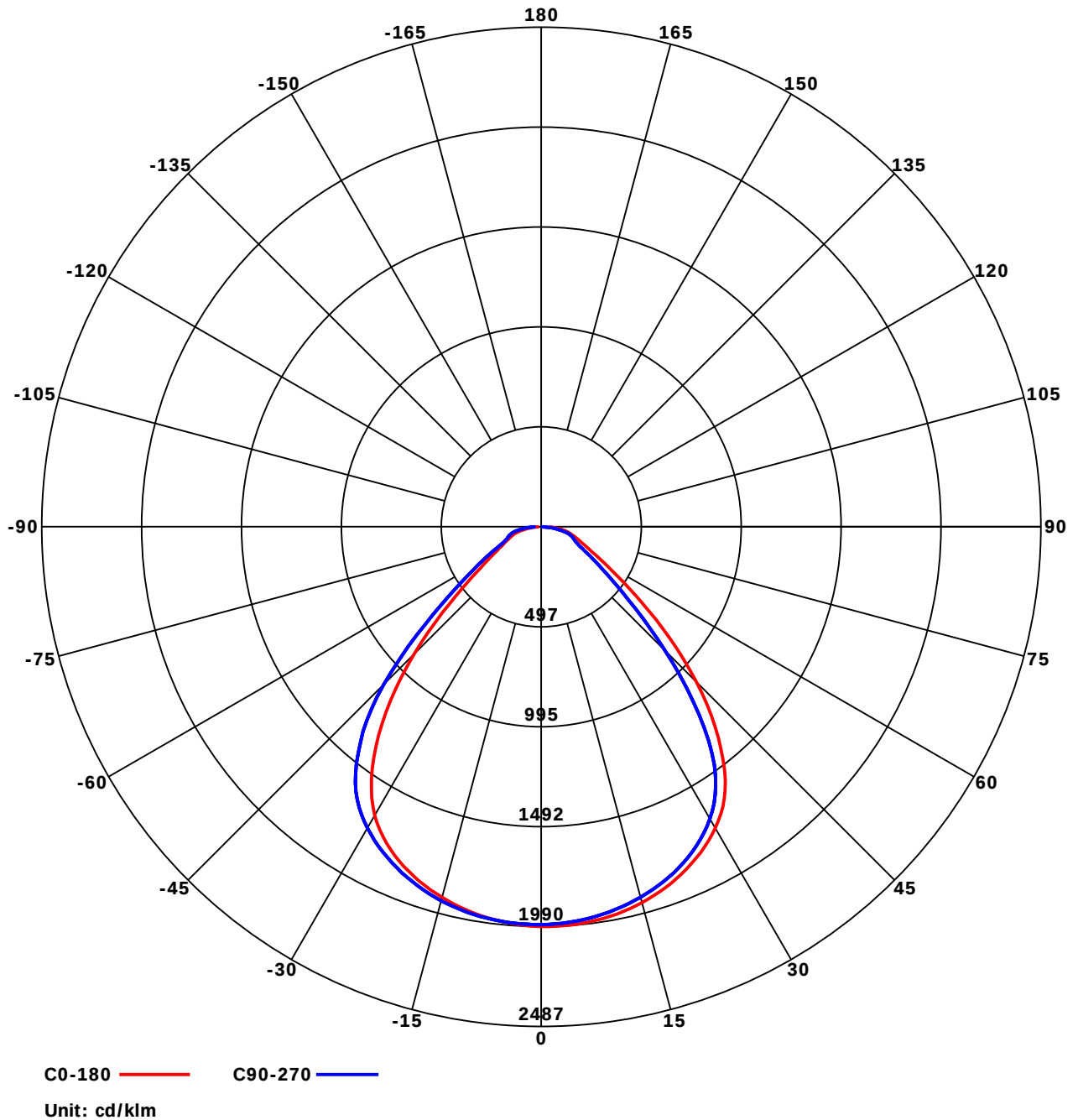
Test Distance: 6.38 m

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Luminous Intensity Distribution Curve



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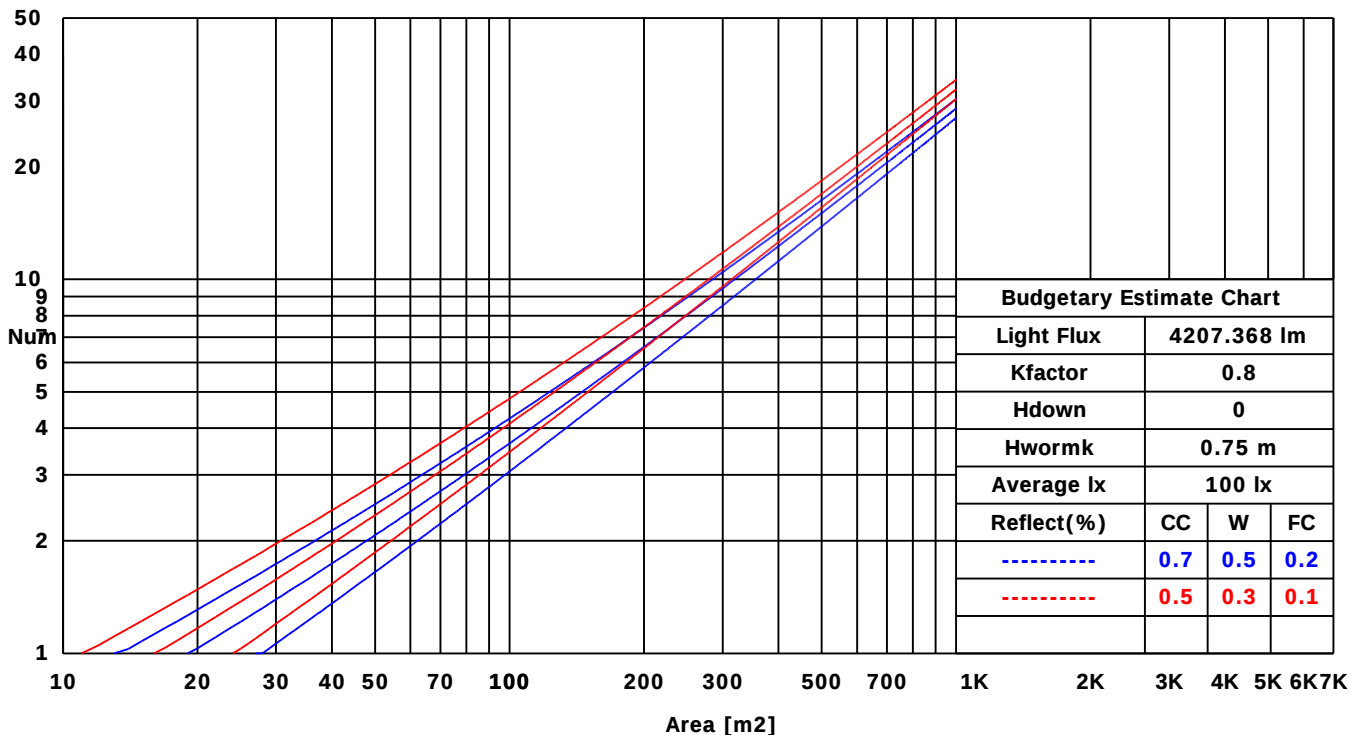
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UTILIZATION FACTORS TABLE

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	COEFFICIENTS 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	1.06	1.05	1.06	1.05	1.03	1.02	1.01	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.82
2	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.85	0.81	0.79	0.74
3	0.89	0.87	0.86	0.89	0.86	0.84	0.86	0.83	0.81	0.83	0.79	0.76	0.79	0.75	0.72	0.67
4	0.82	0.80	0.79	0.82	0.79	0.77	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.66	0.61
5	0.76	0.74	0.72	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.69	0.64	0.60	0.57
6	0.70	0.68	0.67	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.56	0.52
7	0.65	0.63	0.62	0.65	0.63	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.62	0.56	0.52	0.49
8	0.61	0.59	0.58	0.61	0.58	0.57	0.61	0.57	0.54	0.60	0.55	0.52	0.58	0.53	0.49	0.45
9	0.57	0.56	0.54	0.57	0.55	0.53	0.57	0.53	0.51	0.56	0.52	0.48	0.55	0.50	0.46	0.43
10	0.54	0.52	0.51	0.54	0.52	0.50	0.54	0.50	0.48	0.53	0.49	0.46	0.52	0.47	0.43	0.40

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

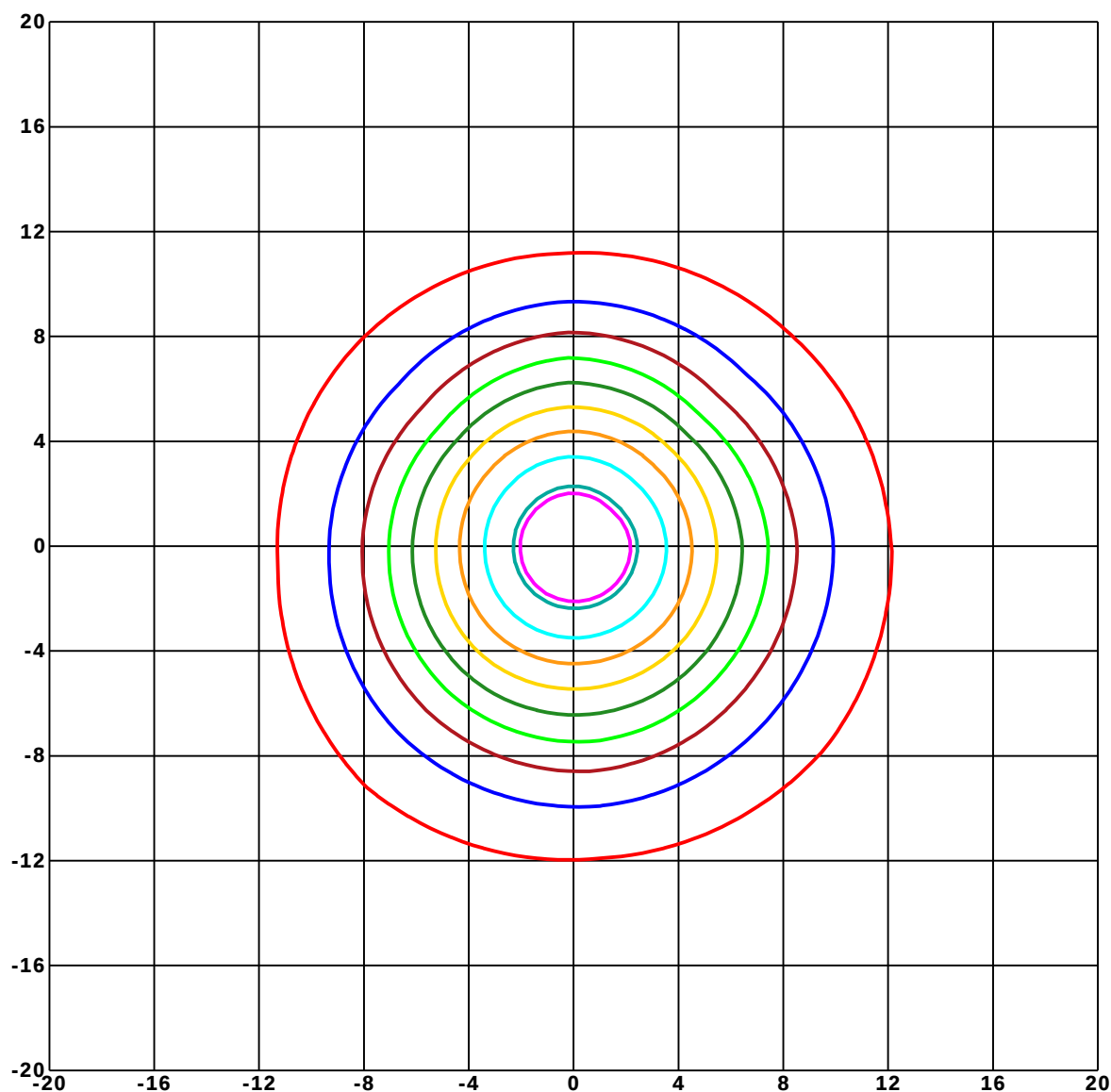
Test Distance: 6.38 m

Remarks:

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ISOLX DIAGRAM



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

18.3(1%E _{max})	9.946(0%E _{max})
17.903(1%E _{max})	7.957(0%E _{max})
15.913(1%E _{max})	5.968(0%E _{max})
13.924(1%E _{max})	3.978(0%E _{max})
11.935(1%E _{max})	1.989(0%E _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

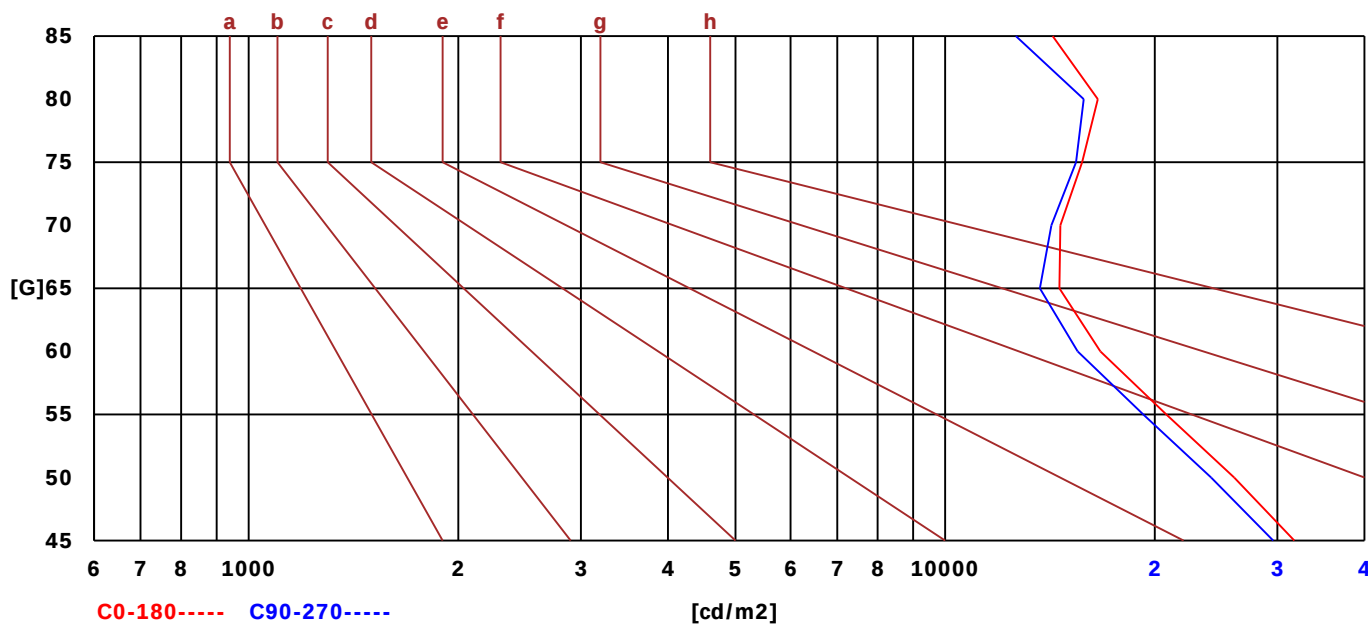
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	31704	25993	20784	16703	14587	14644	15731	16567	14268
C90	29594	24087	19241	15502	13677	14216	15408	15805	12633
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



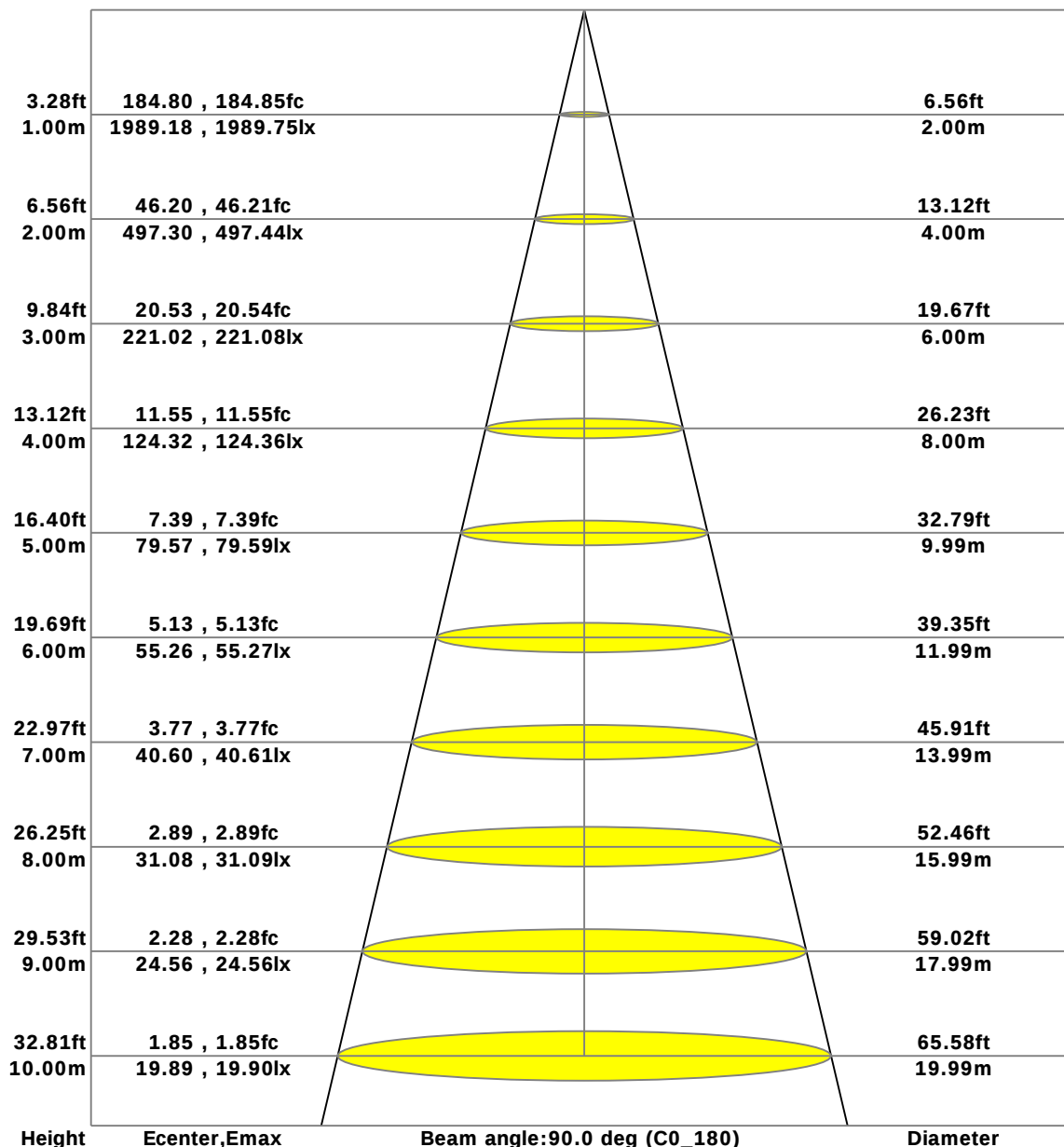
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.38
 Operators:
 Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.38 m
 Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 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	17.09	17.16	17.29	17.35	17.59	16.45	16.51	16.65	16.70	16.94
3H	17.14	17.20	17.34	17.39	17.64	16.52	16.58	16.72	16.78	17.02
4H	17.14	17.20	17.35	17.40	17.65	16.53	16.59	16.74	16.79	17.04
6H	17.12	17.18	17.34	17.39	17.64	16.52	16.58	16.73	16.78	17.03
8H	17.11	17.17	17.33	17.37	17.63	16.50	16.56	16.72	16.77	17.02
12H	17.09	17.15	17.32	17.36	17.62	16.49	16.55	16.71	16.75	17.01
4H 2H	18.70	18.76	18.91	18.96	19.21	18.04	18.10	18.25	18.30	18.55
3H	18.94	19.00	19.16	19.20	19.46	18.33	18.39	18.55	18.59	18.85
4H	19.01	19.07	19.24	19.28	19.54	18.42	18.48	18.65	18.70	18.95
6H	19.04	19.09	19.27	19.31	19.58	18.47	18.52	18.71	18.75	19.01
8H	19.03	19.08	19.27	19.31	19.57	18.47	18.52	18.71	18.75	19.02
12H	19.01	19.06	19.26	19.30	19.57	18.46	18.51	18.71	18.74	19.01
8H 4H	19.56	19.62	19.78	19.83	20.08	18.76	18.82	18.98	19.03	19.28
6H	20.27	20.32	20.53	20.56	20.83	19.56	19.61	19.81	19.84	20.12
8H	20.29	20.34	20.56	20.58	20.86	19.60	19.64	19.86	19.89	20.16
12H	20.29	20.33	20.56	20.58	20.87	19.61	19.65	19.88	19.90	20.18
12H 4H	20.50	20.55	20.75	20.78	21.05	19.58	19.63	19.83	19.87	20.13
6H	20.67	20.71	20.93	20.96	21.23	19.77	19.81	20.03	20.06	20.33

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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
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ZONAL LUMINOUS FLUX TABLE

[illegible]

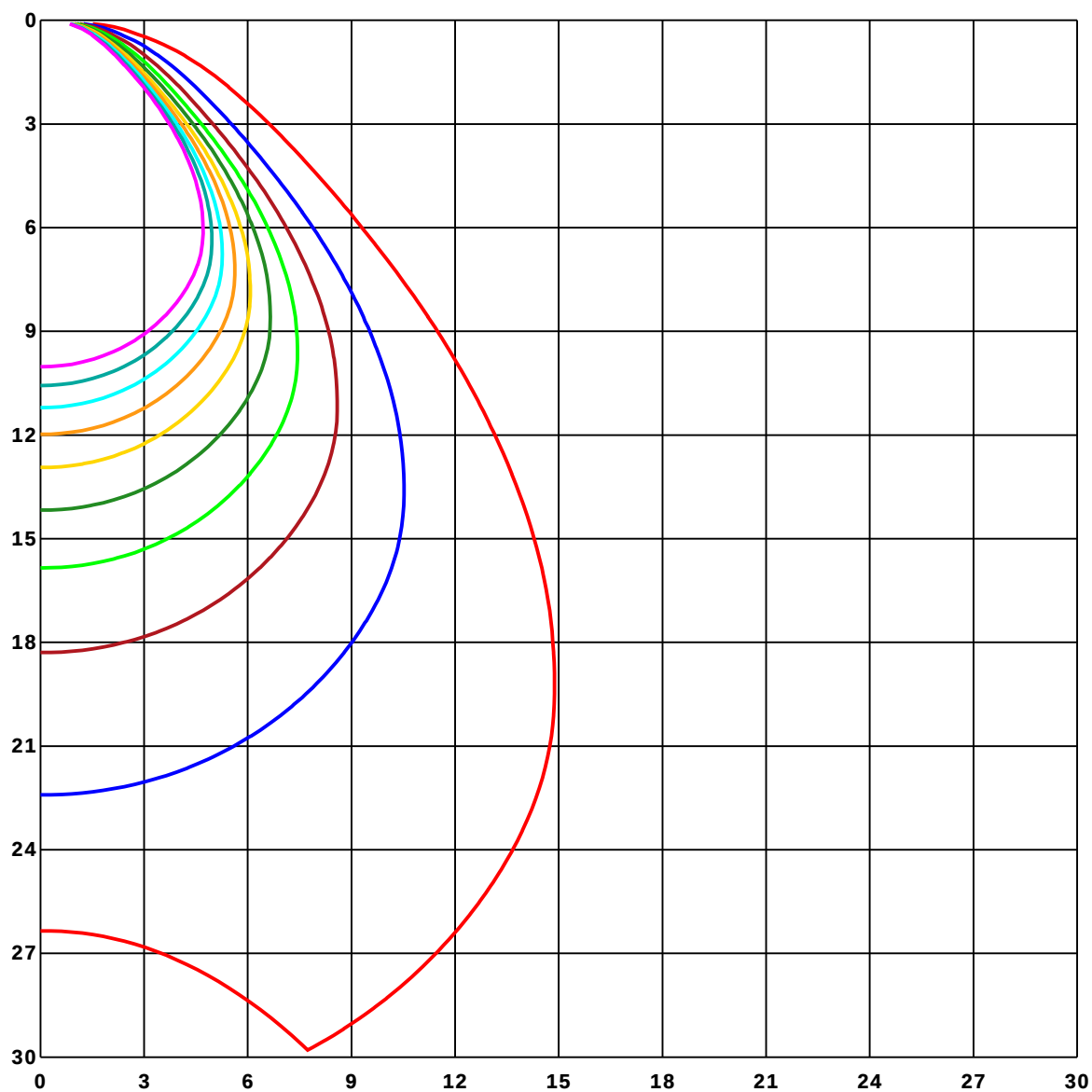
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

19.812	9.906
17.831	7.925
15.85	5.944
13.869	3.962
11.887	1.981

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1989.18	1975.43	1979.7	1983.69	1989.18	1975.43	1979.7	1983.69	1989.18	
G1	1989.75	1974.57	1978.97	1982.59	1988.21	1975.75	1979.94	1984.34	1989.75	
G2	1989.75	1973.23	1977.62	1980.72	1986.62	1975.3	1979.5	1984.26	1989.75	
G3	1988.98	1971.36	1975.75	1978.19	1984.26	1974.33	1978.6	1983.81	1988.98	
G4	1987.84	1968.75	1973.43	1975.26	1981.33	1973.02	1977.22	1982.71	1987.84	
G5	1985.97	1965.66	1970.3	1971.72	1977.71	1971.07	1975.26	1981.04	1985.97	
G6	1983.77	1961.99	1966.72	1967.45	1973.51	1968.55	1972.82	1979.01	1983.77	
G7	1980.88	1957.6	1962.36	1962.77	1968.67	1965.49	1969.89	1976.24	1980.88	
G8	1977.3	1952.71	1957.64	1957.31	1963.3	1961.91	1966.39	1972.94	1977.3	
G9	1973.43	1947.18	1952.39	1951.53	1957.23	1957.84	1962.4	1969.16	1973.43	
G10	1968.87	1941.27	1946.44	1944.73	1950.64	1952.96	1958.05	1964.92	1968.87	
G11	1963.78	1934.52	1939.97	1937.69	1943.59	1947.87	1952.71	1960.16	1963.78	
G12	1957.84	1927.52	1932.93	1930.0	1936.02	1942.01	1946.85	1954.5	1957.84	
G13	1951.41	1919.29	1925.44	1921.41	1927.72	1935.41	1940.58	1948.28	1951.41	
G14	1944.21	1910.99	1917.1	1912.37	1918.81	1928.53	1933.74	1941.68	1944.21	
G15	1936.47	1901.91	1908.55	1902.97	1909.24	1920.72	1926.42	1934.27	1936.47	
G16	1928.29	1892.1	1899.1	1892.71	1899.31	1912.33	1918.24	1926.38	1928.29	
G17	1919.09	1882.13	1889.3	1882.05	1888.48	1903.38	1909.44	1917.71	1919.09	
G18	1909.16	1870.98	1878.88	1870.45	1877.04	1893.69	1900.0	1908.55	1909.16	
G19	1898.82	1859.38	1867.52	1858.16	1865.16	1883.47	1889.66	1898.82	1898.82	
G20	1887.83	1846.88	1855.75	1845.17	1852.09	1872.4	1879.08	1888.77	1887.83	
G21	1876.07	1833.57	1842.89	1831.21	1838.33	1860.72	1867.6	1878.43	1876.07	
G22	1863.53	1819.28	1829.26	1816.03	1823.8	1848.63	1855.47	1867.72	1863.53	
G23	1850.1	1804.14	1815.01	1800.11	1808.25	1836.26	1842.69	1856.69	1850.1	
G24	1836.05	1787.49	1799.5	1782.28	1791.73	1823.48	1829.38	1845.74	1836.05	
G25	1821.28	1769.05	1782.98	1762.46	1773.94	1810.57	1815.21	1833.77	1821.28	
G26	1805.65	1748.7	1764.9	1740.28	1754.4	1797.67	1800.4	1819.61	1805.65	
G27	1788.84	1725.42	1745.61	1714.43	1733.52	1783.14	1784.64	1803.45	1788.84	
G28	1771.09	1700.39	1725.09	1686.47	1710.93	1765.96	1768.04	1786.48	1771.09	
G29	1752.12	1670.79	1702.83	1653.21	1686.18	1745.2	1749.92	1767.91	1752.12	
G30	1732.09	1637.9	1678.37	1616.9	1658.34	1722.81	1731.24	1747.24	1732.09	
G31	1709.95	1600.29	1651.54	1576.4	1626.96	1697.29	1710.68	1724.04	1709.95	
G32	1685.94	1558.86	1622.48	1532.81	1592.72	1668.51	1688.38	1697.98	1685.94	
G33	1659.48	1514.73	1589.59	1486.2	1553.32	1636.15	1664.53	1668.31	1659.48	
G34	1629.89	1467.56	1553.08	1437.4	1511.6	1600.78	1637.62	1635.22	1629.89	
G35	1596.18	1418.83	1511.48	1386.47	1466.25	1561.99	1608.15	1598.54	1596.18	
G36	1558.41	1368.44	1464.67	1334.29	1418.59	1521.16	1574.45	1558.25	1558.41	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1515.3	1317.4	1411.3	1279.87	1367.18	1478.51	1536.67	1514.81	1515.3	
G38	1468.33	1265.34	1353.3	1224.14	1314.14	1432.55	1493.69	1468.33	1468.33	
G39	1419.85	1212.91	1290.37	1167.52	1257.64	1384.24	1447.61	1419.57	1419.85	
G40	1371.29	1160.44	1224.55	1110.42	1200.54	1334.09	1401.41	1368.81	1371.29	
G41	1320.29	1106.96	1154.87	1052.53	1141.47	1281.94	1352.93	1316.06	1320.29	
G42	1266.27	1053.96	1084.16	996.16	1081.31	1226.91	1299.2	1261.39	1266.27	
G43	1210.02	1000.64	1012.56	940.6	1020.09	1170.78	1240.39	1206.03	1210.02	
G44	1151.32	948.33	941.21	887.4	957.25	1111.56	1176.11	1149.49	1151.32	
G45	1091.2	896.72	871.36	837.05	894.24	1053.19	1108.06	1093.97	1091.2	
G46	1029.94	847.38	803.26	789.22	831.02	994.65	1036.74	1037.31	1029.94	
G47	968.89	800.66	739.11	744.77	769.64	939.46	964.49	983.42	968.89	
G48	908.4	754.9	678.3	701.17	709.48	886.5	892.28	930.46	908.4	
G49	849.38	711.15	621.76	659.61	651.76	837.0	822.39	879.42	849.38	
G50	791.5	668.33	568.8	619.32	596.6	789.99	754.99	831.14	791.5	
G51	734.59	627.01	521.99	580.36	547.23	746.56	692.3	786.04	734.59	
G52	679.93	587.81	480.39	543.69	502.7	704.35	635.03	741.76	679.93	
G53	628.84	549.31	442.86	507.87	462.12	664.66	583.62	700.2	628.84	
G54	579.22	512.22	409.04	473.92	425.32	626.28	536.48	660.18	579.22	
G55	533.47	476.85	378.31	441.44	392.39	588.87	494.84	621.03	533.47	
G56	492.28	443.31	351.08	410.95	363.78	553.42	457.72	583.9	492.28	
G57	454.51	412.29	326.08	382.82	338.58	519.39	423.9	547.96	454.51	
G58	420.72	383.48	303.37	356.53	316.31	486.21	393.82	513.04	420.72	
G59	390.15	357.38	282.73	332.23	296.33	455.12	365.89	479.82	390.15	
G60	362.88	334.06	263.85	310.05	278.66	425.44	340.74	448.07	362.88	
G61	338.5	312.81	246.91	289.49	262.38	397.4	316.92	418.03	338.5	
G62	316.03	293.89	231.77	271.42	247.81	370.9	294.82	390.11	316.03	
G63	296.25	276.83	218.99	255.95	234.74	345.91	273.86	364.3	296.25	
G64	278.01	261.04	208.04	242.52	222.98	322.5	255.54	340.86	278.01	
G65	262.01	246.59	198.72	231.2	212.03	301.29	238.24	319.77	262.01	
G66	247.77	234.25	190.82	222.21	202.22	281.72	223.87	300.52	247.77	
G67	234.46	223.35	184.39	214.27	193.1	265.15	211.09	283.14	234.46	
G68	222.41	214.35	179.1	207.63	184.92	250.7	200.79	267.14	222.41	
G69	211.7	206.78	174.62	201.2	177.43	238.65	192.25	252.69	211.7	
G70	202.1	200.35	170.55	194.49	170.59	229.9	185.61	240.64	202.1	
G71	193.02	193.96	166.6	187.44	164.32	222.73	180.16	230.22	193.02	
G72	184.68	187.48	162.33	179.99	158.22	216.75	176.09	221.47	184.68	
G73	176.62	179.71	157.53	172.95	152.11	210.89	172.34	214.43	176.62	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2022/11/19 9:36:54

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:36:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks: