

Report No.:

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Luminaire Type: GSDI-80W  
 Lamp Type: GALAXY SATURN DIRECT INDIRECT  
 Luminous Width: 900mm  
 Luminous Length: 900mm  
 Luminous Height: 68 mm

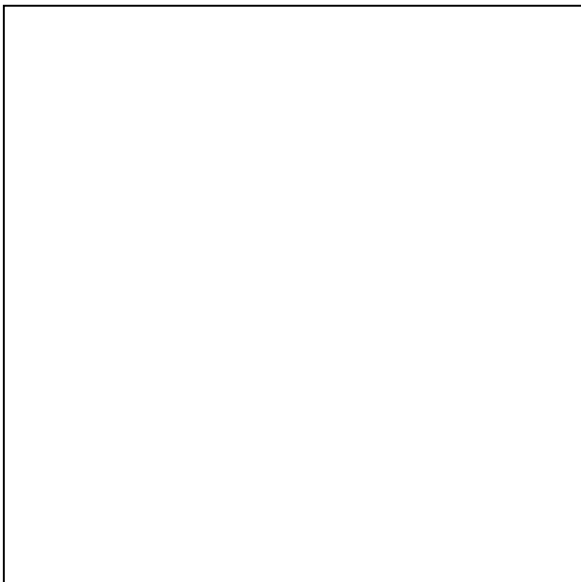
Voltage(V): 120.06 V  
 Current(A): 0.3870 A  
 Power(W): 83.72 W  
 Power Factor: 0.9810  
 Lamp Luminous Flux: 6917.53  
 Test Lab: \*Mercury Lighting

### Photometric Results

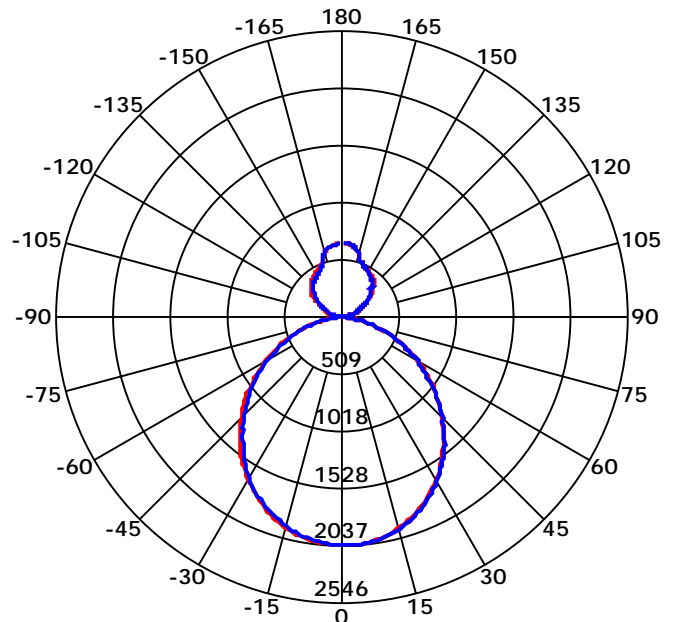
CIE Class: Direct  
 Luminaire Luminous Flux: 6917.532  
 Downward Ratio: 77.09%  
 Luminaire Efficacy Rating(LER): 82.63 lm/W  
 Beam Angle(50%Imax): L=-52.84 R=53.15  
 Field Angle(10%Imax): L=-78.79 R=78.42

Max. Intensity: 2036.71 cd  
 Max.Intensity Angle: C=0 Gamma=1  
 Upward Ratio: 22.91%  
 Efficacy: 100.00%  
 Center Intensity: 2036.00 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



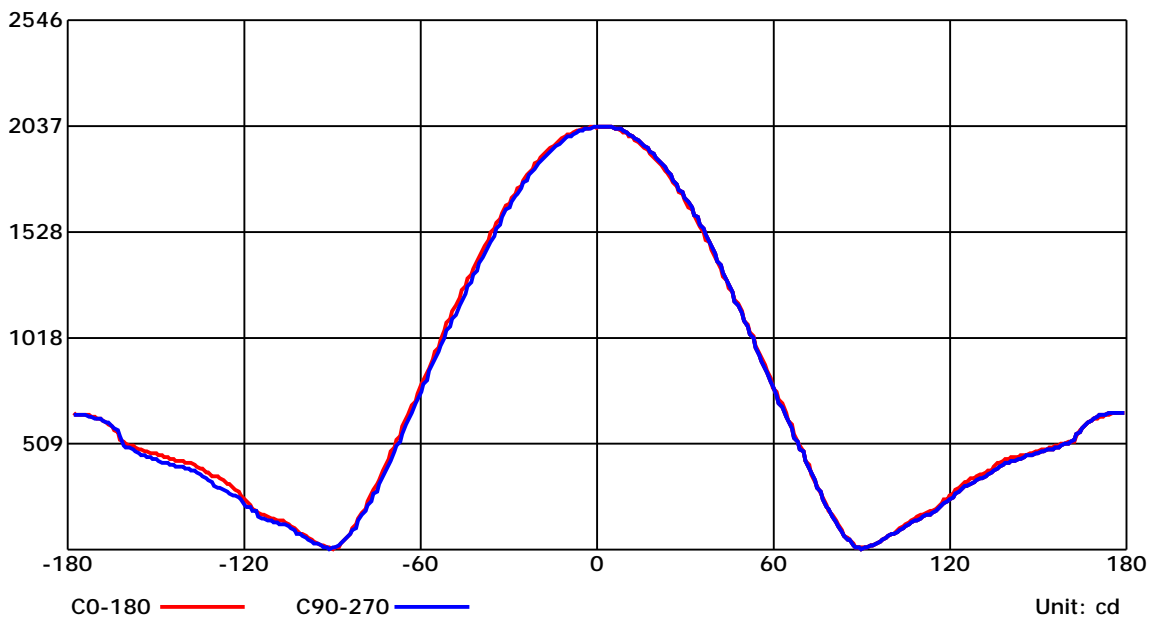
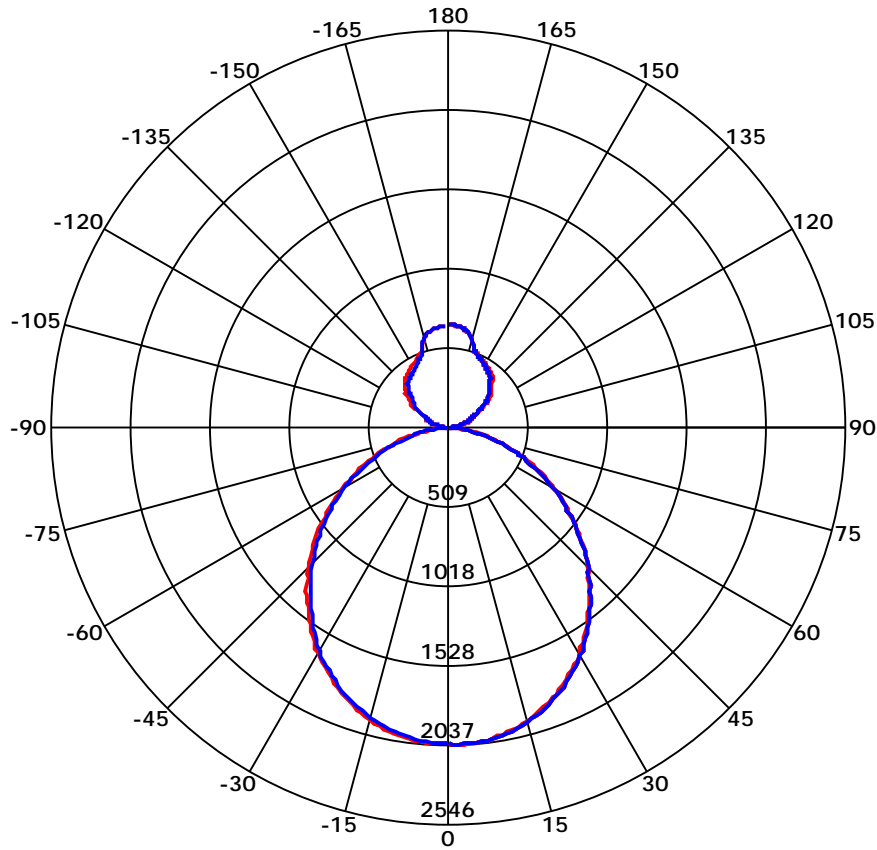
Beam Angle(50%Imax): 105.99 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

### Luminous Intensity Distribution Curve



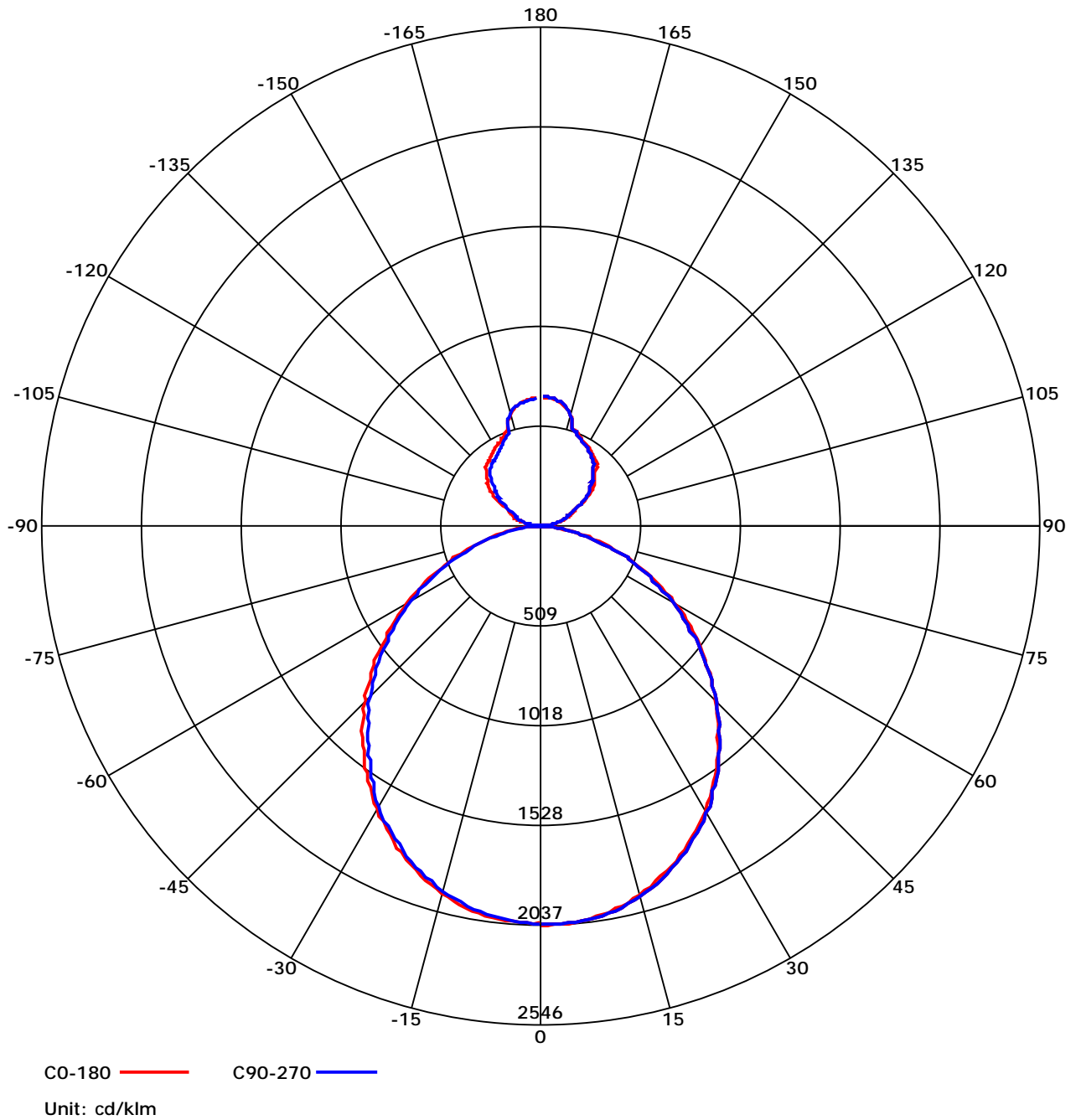
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

### Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

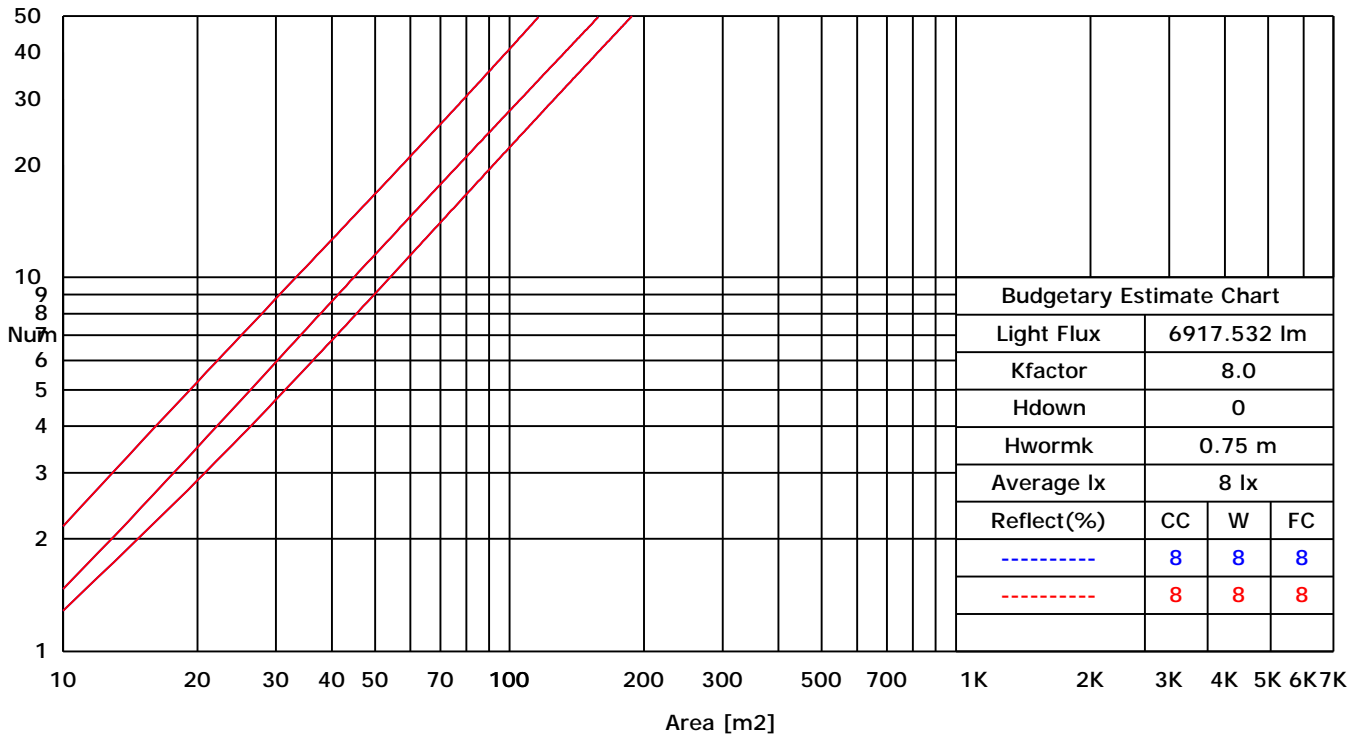
Report No.:

Test Time: 2020/1/9 16:41:57

### 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	1.10	1.09	1.08	1.08	1.07	1.06	1.04	1.03	1.01	0.99	0.97	0.96	0.92	0.90	0.89	0.84
2	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.76
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.81	0.78	0.75	0.70
4	0.86	0.84	0.83	0.86	0.83	0.81	0.83	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
5	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.61
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.72	0.70	0.69	0.71	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
8	0.68	0.67	0.66	0.68	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.51
9	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.61	0.58	0.63	0.58	0.56	0.61	0.56	0.52	0.49
10	0.63	0.61	0.60	0.62	0.60	0.59	0.62	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.50	0.47

### LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

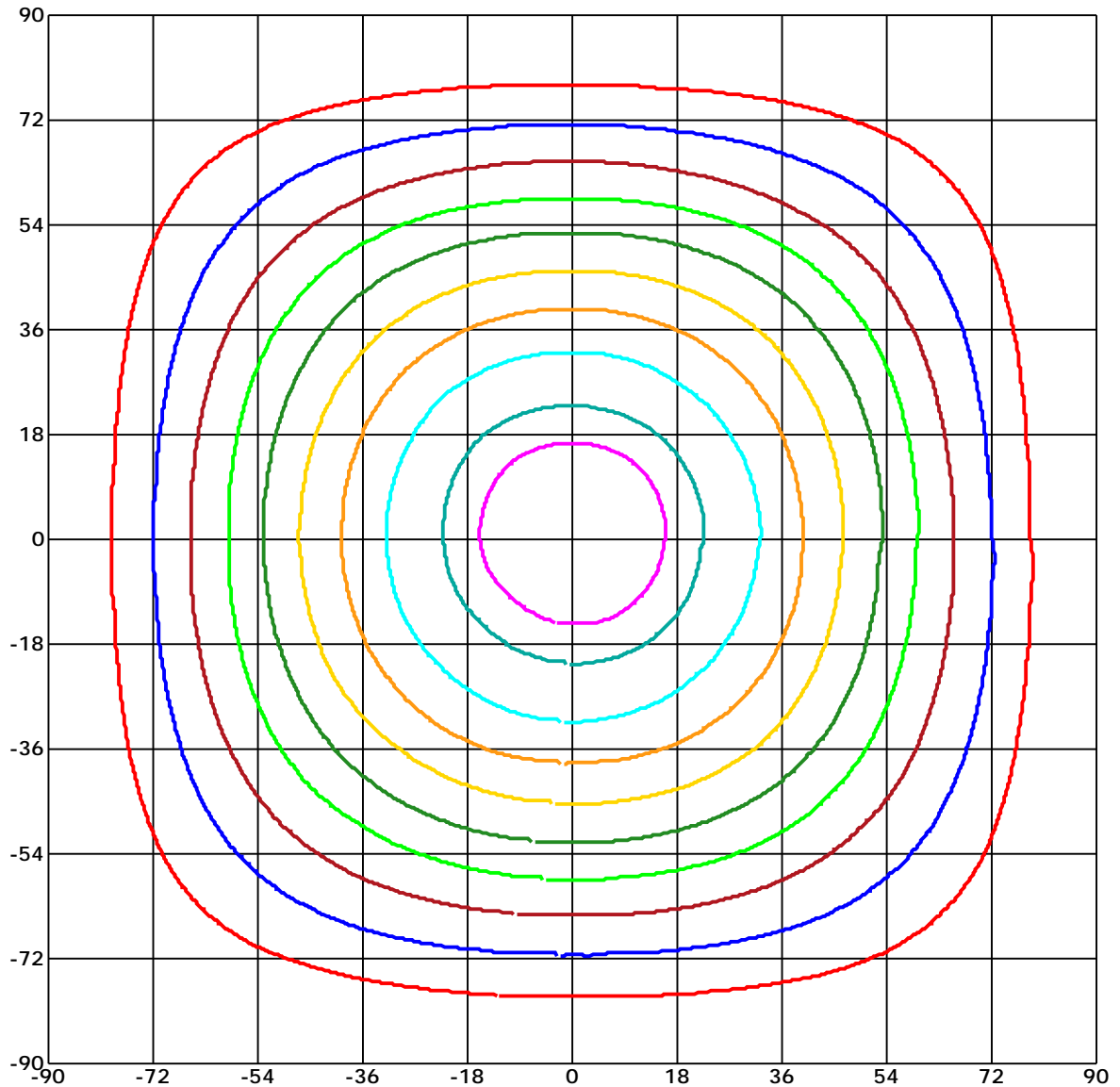
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

## ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd      Imax(100%): 2036.706 cd

- |                     |                     |
|---------------------|---------------------|
| — 1934.87(95%Imax)  | — 1018.353(50%Imax) |
| — 1833.035(90%Imax) | — 814.682(40%Imax)  |
| — 1629.365(80%Imax) | — 611.012(30%Imax)  |
| — 1425.694(70%Imax) | — 407.341(20%Imax)  |
| — 1222.023(60%Imax) | — 203.671(10%Imax)  |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

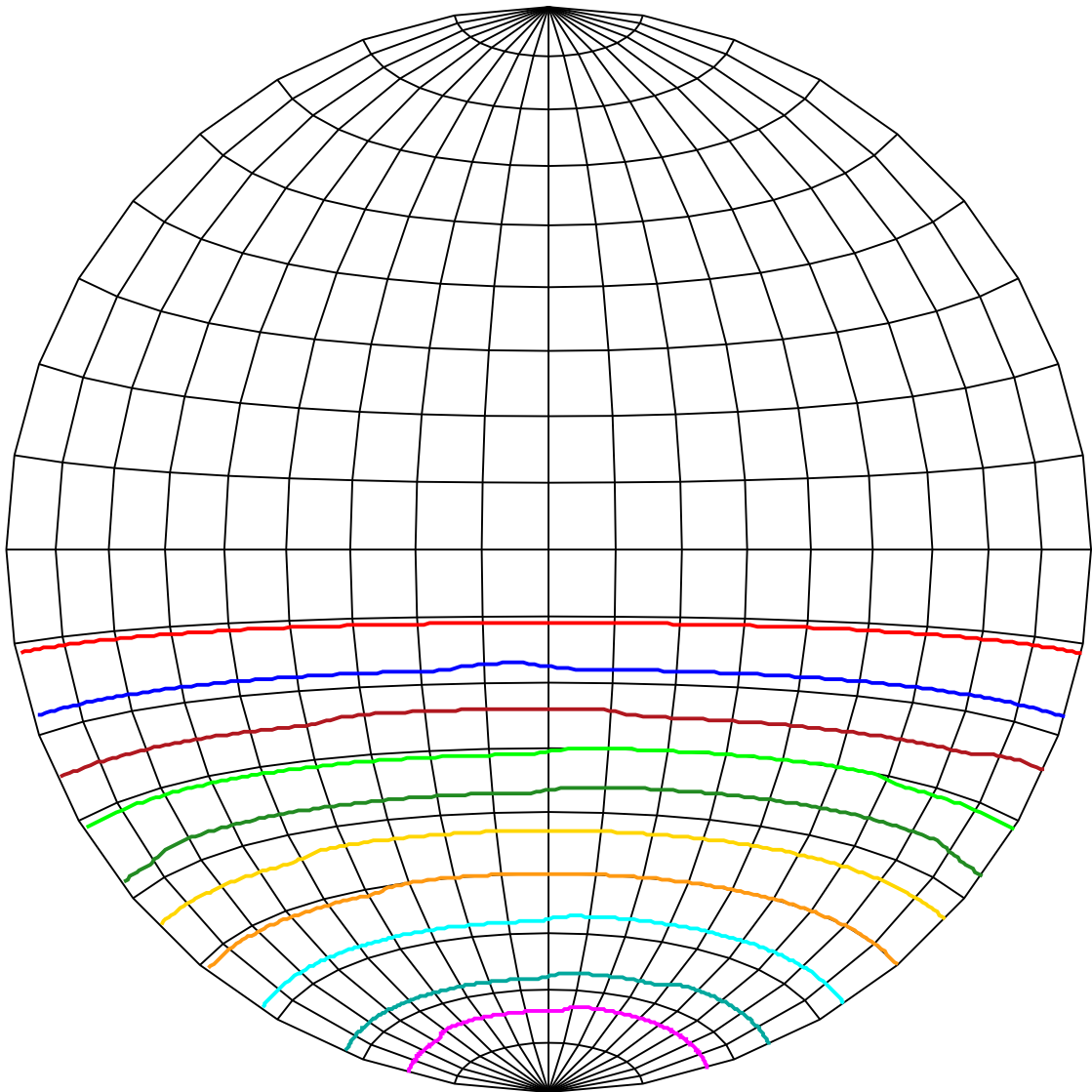
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

### ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd      I<sub>max</sub>(100%): 2036.706 cd

- |                                  |                                  |
|----------------------------------|----------------------------------|
| — 1934.87(95%I <sub>max</sub> )  | — 1018.353(50%I <sub>max</sub> ) |
| — 1833.035(90%I <sub>max</sub> ) | — 814.682(40%I <sub>max</sub> )  |
| — 1629.365(80%I <sub>max</sub> ) | — 611.012(30%I <sub>max</sub> )  |
| — 1425.694(70%I <sub>max</sub> ) | — 407.341(20%I <sub>max</sub> )  |
| — 1222.023(60%I <sub>max</sub> ) | — 203.671(10%I <sub>max</sub> )  |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

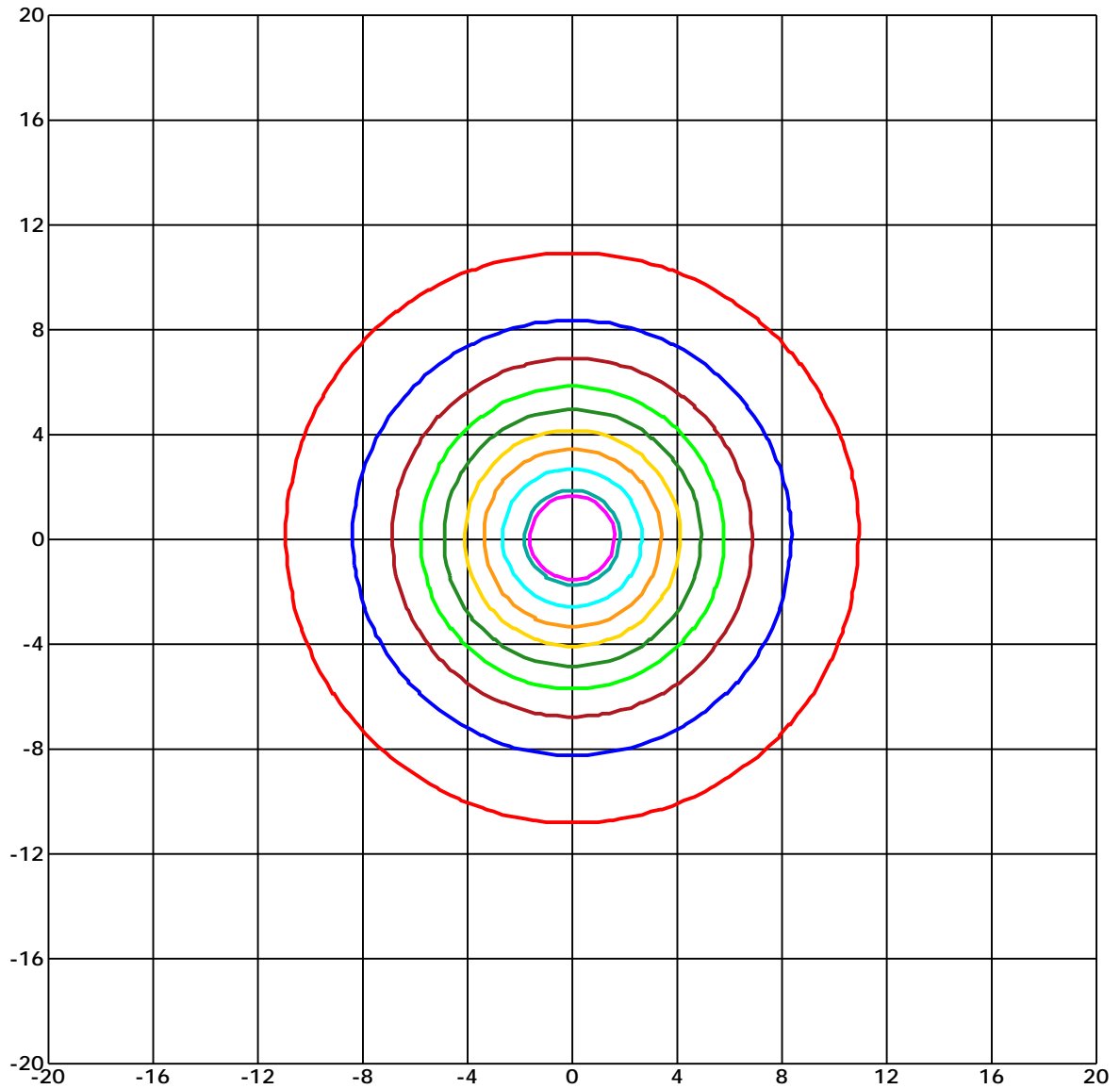
Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

### ISOLX DIAGRAM



Unit of illumination: lx      Height of plane: 8.0(m)/26.25(ft)

- |                               |                               |
|-------------------------------|-------------------------------|
| — 29.267(1%E <sub>max</sub> ) | — 15.906(1%E <sub>max</sub> ) |
| — 28.631(1%E <sub>max</sub> ) | — 12.725(1%E <sub>max</sub> ) |
| — 25.45(1%E <sub>max</sub> )  | — 9.544(0%E <sub>max</sub> )  |
| — 22.269(1%E <sub>max</sub> ) | — 6.362(0%E <sub>max</sub> )  |
| — 19.087(1%E <sub>max</sub> ) | — 3.181(0%E <sub>max</sub> )  |

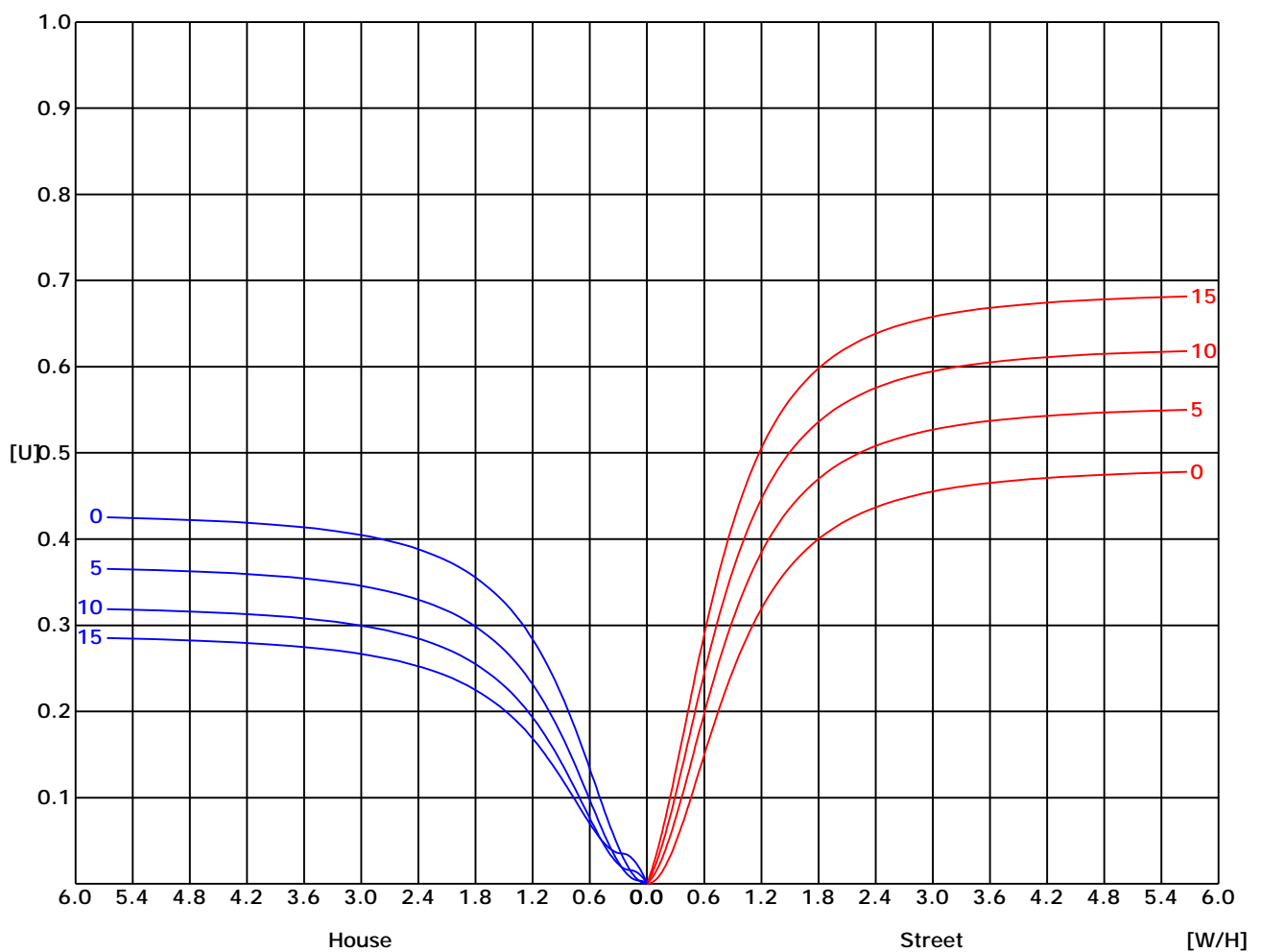
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

## UTILIZATION FACTOR DIAGRAM (ROAD)



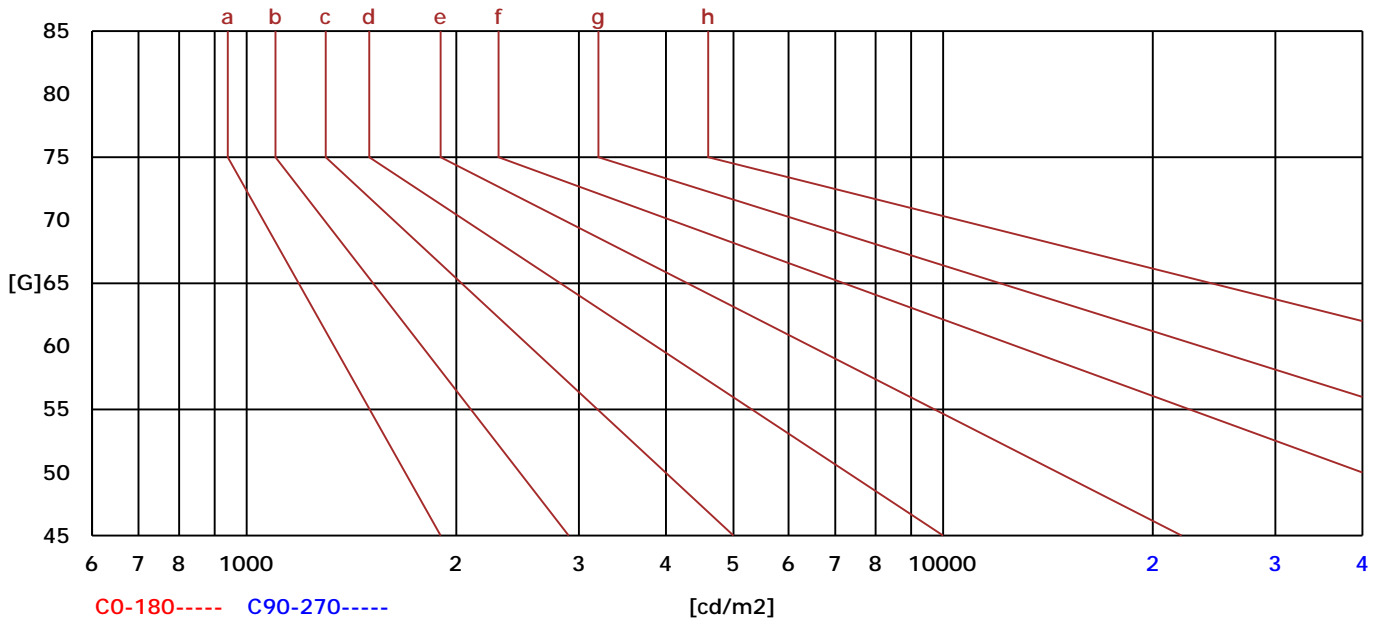
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:



### BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	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



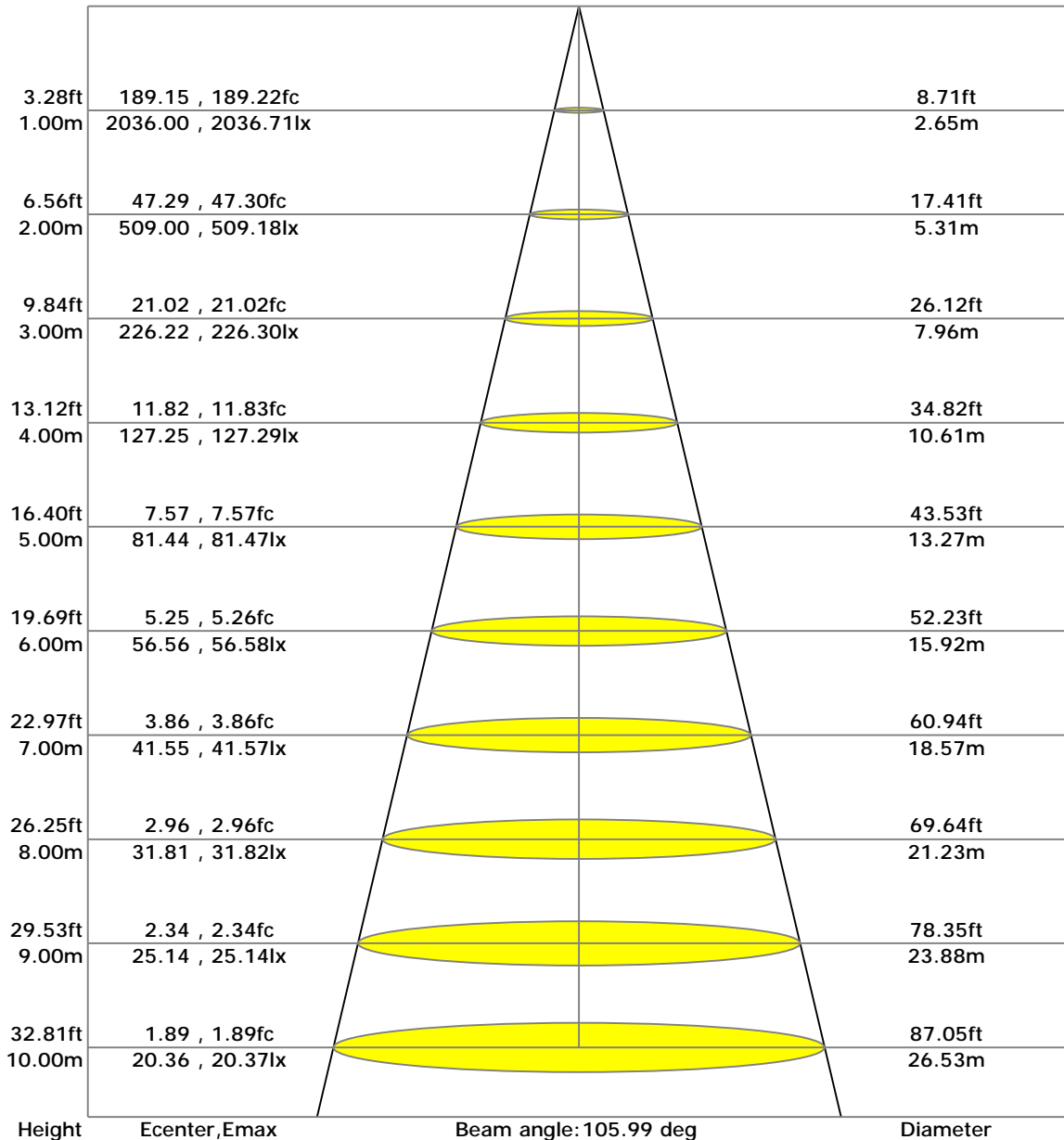
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

### LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

## UGR(Unified Glare Rating) TABLE

RHOCC		80	80	70	70	70	50	50	50	30	30
RHOW		50	30	10	50	30	10	50	30	10	50
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Weft to light axis direction of observation					Direction of light axis parallel observation				
2H	2H	19.77	19.54	19.35	19.48	19.22	19.00	18.76	18.47	18.21	17.83
	3H	18.15	17.85	17.63	17.93	17.56	17.28	17.34	16.90	16.54	16.58
	4H	16.74	16.41	16.18	16.57	16.15	15.84	16.10	15.56	15.14	15.46
	6H	15.54	15.20	14.97	15.41	14.96	14.65	15.02	14.43	13.99	14.50
	8H	14.52	14.19	13.97	14.42	13.96	13.66	14.10	13.48	13.03	13.67
	12H	13.66	13.33	13.13	13.58	13.13	12.83	13.31	12.68	12.24	12.94
4H	2H	12.93	12.61	12.42	12.86	12.42	12.14	12.63	12.01	11.57	12.32
	3H	12.31	12.00	11.82	12.24	11.82	11.55	12.04	11.43	11.00	11.77
	4H	11.77	11.48	11.30	11.71	11.30	11.04	11.53	10.93	10.52	11.29
	6H	11.30	11.02	10.86	11.25	10.85	10.61	11.08	10.49	10.10	10.86
	8H	10.90	10.63	10.47	10.84	10.46	10.23	10.69	10.11	9.74	10.48
	12H	10.54	10.28	10.13	10.48	10.12	9.90	10.33	9.78	9.42	10.14
8H	4H	10.22	9.98	9.84	10.17	9.82	9.61	10.02	9.49	9.15	9.84
	6H	9.94	9.71	9.57	9.89	9.55	9.35	9.74	9.23	8.90	9.56
	8H	9.69	9.47	9.34	9.64	9.31	9.12	9.49	8.99	8.68	9.32
	12H	9.47	9.26	9.13	9.41	9.10	8.92	9.27	8.79	8.48	9.09
12H	4H	9.27	9.06	8.94	9.21	8.91	8.73	9.06	8.60	8.31	8.89
	6H	9.09	8.89	8.78	9.02	8.74	8.57	8.88	8.43	8.15	8.70

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

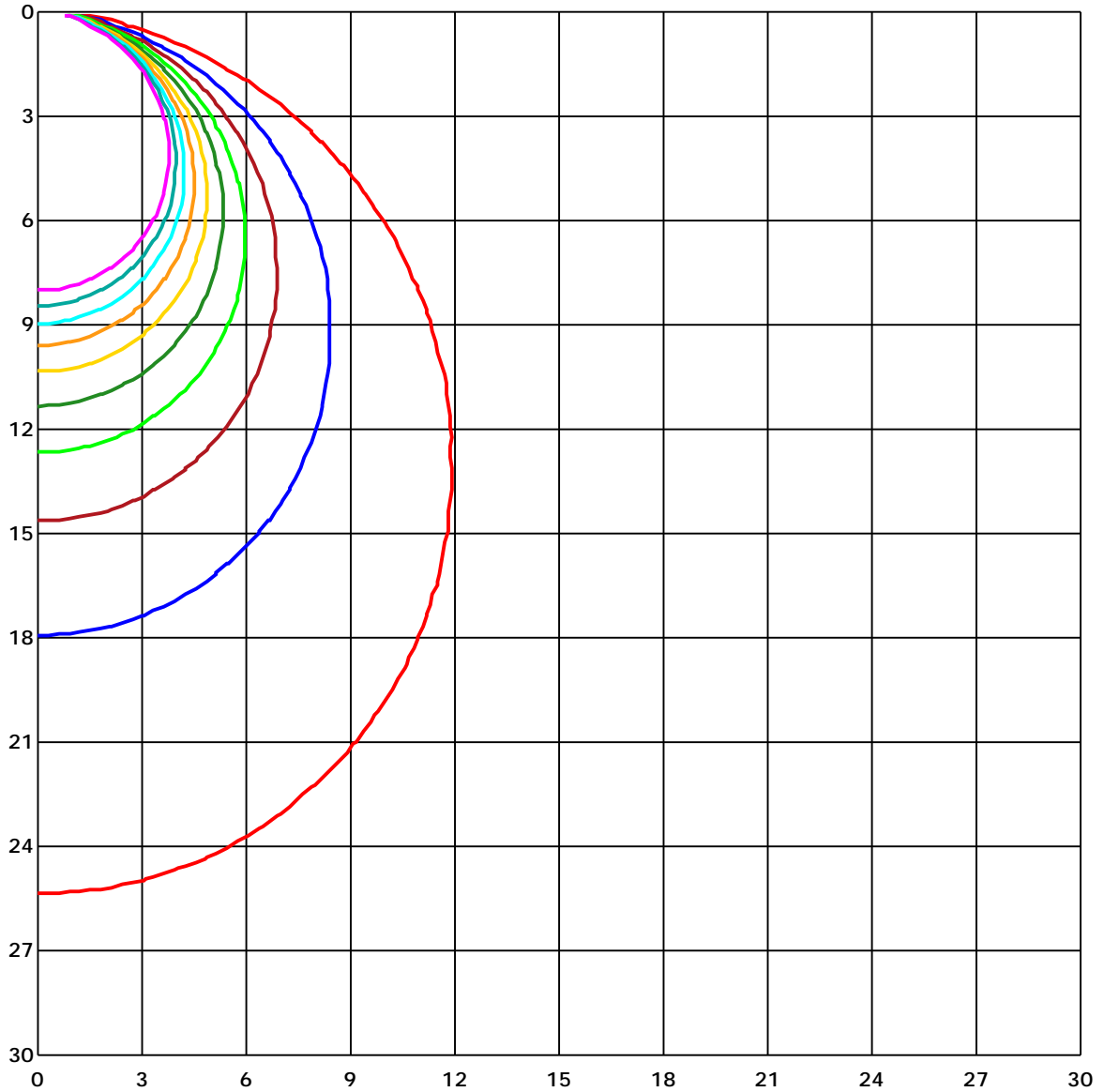
## ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	2030.07	0.00	0.00	0.00	0.00
5	2027.24	48.48	48.48	0.70	0.70
10	2002.28	143.77	192.24	2.08	2.78
15	1955.01	233.66	425.90	3.38	6.16
20	1887.09	314.31	740.21	4.54	10.70
25	1799.95	382.79	1123.00	5.53	16.23
30	1694.36	436.29	1559.29	6.31	22.54
35	1573.33	473.55	2032.84	6.85	29.39
40	1435.04	492.09	2524.93	7.11	36.50
45	1289.01	493.07	3017.99	7.13	43.63
50	1135.98	476.94	3494.93	6.89	50.52
55	974.06	444.17	3939.11	6.42	56.94
60	811.74	396.54	4335.65	5.73	62.68
65	642.42	336.36	4672.01	4.86	67.54
70	482.85	269.31	4941.32	3.89	71.43
75	327.49	196.92	5138.24	2.85	74.28
80	186.73	123.63	5261.87	1.79	76.07
85	71.04	56.98	5318.85	0.82	76.89
90	7.35	13.89	5332.75	0.20	77.09
95	20.43	7.77	5340.51	0.11	77.20
100	59.83	25.63	5366.14	0.37	77.57
105	93.10	45.13	5411.27	0.65	78.23
110	130.64	61.22	5472.49	0.89	79.11
115	171.97	80.94	5553.44	1.17	80.28
120	223.61	101.03	5654.46	1.46	81.74
125	279.09	121.67	5776.13	1.76	83.50
130	327.52	136.65	5912.78	1.98	85.48
135	364.36	141.82	6054.60	2.05	87.53
140	405.31	145.85	6200.45	2.11	89.63
145	430.89	141.00	6341.45	2.04	91.67
150	452.67	131.15	6472.60	1.90	93.57
155	472.93	117.91	6590.51	1.70	95.27
160	502.49	103.15	6693.66	1.49	96.76
165	579.63	89.98	6783.63	1.30	98.06
170	625.69	72.92	6856.56	1.05	99.12
175	641.71	45.52	6902.08	0.66	99.78
180	650.21	15.46	6917.53	0.22	100.00

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

### SPACE ISOLX DIAGRAM



Unit of illumination: lx

- |          |          |
|----------|----------|
| — 31.708 | — 15.854 |
| — 28.537 | — 12.683 |
| — 25.366 | — 9.512  |
| — 22.195 | — 6.342  |
| — 19.025 | — 3.171  |

C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

## LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2036.0	2031.4	2028.92	2028.92	2027.15	2029.98	2029.27	2028.92	2025.02	
G1	2036.71	2033.17	2031.04	2030.69	2028.92	2029.27	2029.27	2029.27	2026.09	
G2	2036.35	2033.17	2032.1	2031.04	2028.56	2028.21	2027.5	2027.86	2026.09	
G3	2034.58	2033.17	2032.1	2030.69	2027.5	2027.15	2025.73	2026.44	2025.02	
G4	2033.87	2030.33	2031.4	2028.56	2024.32	2023.61	2021.48	2024.32	2023.96	
G5	2029.98	2029.27	2029.63	2027.5	2022.9	2018.3	2016.17	2019.71	2020.07	
G6	2024.32	2025.02	2026.79	2023.61	2017.94	2015.46	2012.63	2017.23	2015.82	
G7	2021.48	2019.36	2021.84	2021.13	2015.11	2008.38	2005.2	2009.45	2012.63	
G8	2014.4	2016.53	2019.36	2015.11	2008.38	1999.89	1999.89	2002.72	2005.91	
G9	2005.55	2008.38	2012.63	2008.03	1999.53	1995.29	1990.68	1998.12	1998.47	
G10	2000.95	2003.78	2004.14	2003.43	1995.29	1984.66	1985.02	1988.2	1993.87	
G11	1989.97	1994.58	1999.89	1993.87	1985.73	1971.92	1974.04	1983.25	1983.6	
G12	1984.31	1988.2	1989.62	1988.91	1980.06	1965.19	1960.59	1971.57	1971.92	
G13	1971.57	1976.52	1977.58	1976.88	1966.61	1951.74	1953.16	1964.49	1965.9	
G14	1957.4	1963.42	1970.5	1970.86	1953.16	1936.16	1937.93	1950.68	1951.39	
G15	1949.62	1956.34	1957.4	1957.05	1945.01	1928.02	1929.79	1935.81	1943.95	
G16	1933.68	1941.12	1942.54	1941.12	1929.79	1911.03	1913.51	1927.31	1928.37	
G17	1925.19	1932.98	1933.33	1932.98	1913.15	1892.26	1895.1	1910.32	1912.09	
G18	1907.49	1915.63	1916.34	1916.34	1904.3	1883.77	1886.25	1891.91	1893.68	
G19	1888.02	1896.87	1906.78	1907.84	1885.18	1863.59	1866.07	1882.35	1885.18	
G20	1878.1	1886.95	1888.72	1889.43	1865.36	1852.97	1855.8	1861.82	1863.59	
G21	1857.22	1866.42	1867.84	1869.61	1854.74	1831.02	1833.85	1840.93	1853.68	
G22	1846.24	1845.18	1857.22	1858.99	1832.79	1819.69	1822.88	1829.96	1831.73	
G23	1822.52	1834.2	1834.91	1838.1	1810.13	1797.03	1799.86	1805.88	1809.07	
G24	1810.48	1810.48	1823.58	1826.77	1798.8	1772.25	1775.44	1781.81	1797.39	
G25	1786.41	1785.7	1798.45	1803.4	1774.02	1758.09	1763.4	1768.71	1772.25	
G26	1760.92	1773.31	1772.96	1777.91	1748.18	1733.66	1737.91	1742.87	1759.5	
G27	1747.47	1747.11	1759.5	1765.17	1734.72	1719.85	1714.19	1716.31	1733.66	
G28	1721.27	1720.21	1731.89	1739.33	1707.46	1693.3	1702.15	1702.86	1720.56	
G29	1707.11	1706.4	1717.73	1712.07	1693.66	1665.33	1677.37	1675.25	1692.95	
G30	1678.43	1677.37	1688.7	1697.9	1666.04	1652.59	1649.4	1661.09	1664.63	
G31	1649.4	1647.99	1674.18	1669.23	1651.88	1625.68	1632.76	1631.7	1650.82	
G32	1634.53	1633.12	1644.09	1639.14	1620.02	1611.52	1597.36	1601.61	1620.73	
G33	1604.09	1602.32	1612.23	1623.56	1589.57	1582.14	1563.37	1586.03	1605.5	
G34	1573.29	1586.03	1596.3	1590.63	1573.64	1566.21	1546.03	1554.52	1574.35	
G35	1557.0	1553.82	1564.44	1558.06	1542.13	1533.28	1510.63	1538.59	1558.42	
G36	1525.14	1520.54	1547.44	1541.78	1525.85	1498.23	1476.99	1506.02	1526.56	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1491.15	1503.19	1513.46	1507.44	1492.57	1480.18	1460.0	1489.38	1493.63	
G38	1474.51	1468.85	1476.28	1473.81	1458.23	1443.71	1425.3	1456.11	1476.28	
G39	1439.82	1448.67	1458.58	1455.75	1441.24	1407.25	1407.96	1421.06	1442.3	
G40	1404.77	1413.62	1422.83	1421.41	1407.25	1389.19	1373.26	1404.77	1408.31	
G41	1384.59	1395.92	1386.72	1403.36	1389.55	1353.08	1337.86	1368.66	1388.84	
G42	1349.54	1359.81	1368.31	1367.24	1353.79	1317.68	1320.51	1351.31	1352.73	
G43	1313.08	1321.93	1331.13	1349.19	1318.04	1299.63	1283.69	1315.56	1316.62	
G44	1294.67	1303.87	1293.25	1311.66	1300.33	1263.16	1265.29	1279.8	1298.21	
G45	1257.5	1265.99	1274.49	1273.78	1263.87	1225.99	1225.99	1261.39	1261.04	
G46	1238.38	1246.17	1235.9	1254.66	1244.75	1207.23	1188.46	1224.57	1223.86	
G47	1200.85	1208.29	1196.96	1215.72	1207.58	1169.34	1169.7	1206.16	1205.1	
G48	1181.03	1188.82	1177.13	1196.6	1170.05	1129.69	1131.46	1167.93	1166.87	
G49	1142.79	1149.17	1137.13	1156.95	1150.94	1109.87	1112.35	1128.63	1127.92	
G50	1103.5	1109.16	1096.77	1116.95	1109.16	1071.63	1073.05	1108.81	1108.45	
G51	1082.96	1088.63	1076.24	1096.77	1090.04	1051.81	1053.93	1069.16	1069.51	
G52	1044.02	1048.27	1035.88	1056.77	1050.39	1013.22	1014.28	1029.51	1029.51	
G53	1024.55	1028.09	1015.7	1034.46	1012.16	974.28	975.69	1009.33	1009.68	
G54	984.54	987.38	974.28	993.75	972.15	954.45	956.22	969.67	970.38	
G55	944.18	945.95	930.38	973.21	952.68	914.8	916.92	929.32	950.56	
G56	924.36	904.89	909.14	932.15	912.68	894.62	897.1	909.14	910.91	
G57	884.71	884.71	868.07	891.43	872.67	855.32	857.45	869.49	888.6	
G58	863.82	840.1	846.83	870.55	852.49	815.32	817.8	829.83	848.24	
G59	823.82	819.57	805.76	828.77	812.84	795.49	797.97	809.66	808.95	
G60	780.98	777.79	784.87	787.71	792.31	755.84	758.68	769.3	788.77	
G61	760.45	736.02	743.1	766.82	751.24	735.66	719.02	726.11	748.05	
G62	719.38	693.89	700.97	723.98	710.17	695.31	698.85	705.57	727.17	
G63	699.2	673.36	680.44	682.91	690.35	675.83	658.84	665.57	686.81	
G64	658.13	631.93	638.66	662.38	649.99	635.83	617.07	645.39	666.63	
G65	618.84	591.22	618.84	620.96	629.81	596.89	597.59	606.44	627.69	
G66	598.66	570.33	578.48	579.18	590.16	577.41	558.3	586.97	587.33	
G67	558.65	530.33	538.83	559.36	550.51	535.99	520.06	548.03	567.5	
G68	518.29	509.44	519.0	518.65	530.33	516.17	500.59	508.73	527.14	
G69	499.18	474.75	480.06	478.29	488.91	477.58	474.39	489.62	508.03	
G70	474.39	474.75	475.46	473.69	474.04	475.46	425.89	475.1	473.33	
G71	422.71	411.73	424.83	418.81	432.26	421.64	407.48	432.97	431.56	
G72	403.23	372.79	387.66	401.46	394.03	384.47	370.66	395.45	412.44	
G73	365.0	353.81	369.6	360.4	375.62	347.48	352.72	357.92	374.2	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	327.54	315.79	330.48	322.98	337.74	329.0	317.03	339.37	336.54	
G75	309.21	297.66	294.8	304.92	319.4	293.2	282.65	303.26	318.23	
G76	272.71	262.01	277.02	269.31	283.08	258.16	265.77	285.27	281.84	
G77	255.15	242.72	242.65	252.07	265.2	241.2	233.09	250.51	244.6	
G78	217.69	208.91	208.7	217.97	230.58	207.49	216.77	216.17	226.97	
G79	184.16	176.16	192.41	185.16	196.31	175.07	184.98	199.56	192.8	
G80	167.38	160.05	159.95	168.83	179.56	158.85	169.22	165.22	159.77	
G81	135.49	129.01	128.83	137.68	147.45	127.66	138.46	149.75	143.88	
G82	120.44	113.96	113.89	123.17	116.76	97.71	107.02	119.31	113.75	
G83	93.39	85.64	86.38	97.18	102.95	84.79	93.92	93.25	87.73	
G84	69.35	60.5	61.49	85.21	77.89	61.64	70.52	81.71	75.62	
G85	58.06	49.32	50.41	62.34	55.37	50.31	59.65	60.57	53.0	
G86	47.44	48.01	47.72	47.79	47.62	47.93	48.43	47.86	47.83	
G87	28.5	13.49	21.14	47.79	26.87	17.6	24.71	47.86	24.57	
G88	12.96	7.65	6.8	15.75	10.8	11.22	17.6	20.0	10.13	
G89	9.63	7.13	6.2	9.13	6.05	4.92	6.55	9.17	6.51	
G90	9.52	6.62	5.59	8.41	4.85	4.67	5.93	8.59	6.3	
G91	9.42	8.35	9.17	7.68	8.11	5.98	5.31	8.0	7.82	
G92	11.75	12.74	11.82	9.74	10.59	7.54	8.99	11.4	12.36	
G93	17.7	19.19	18.02	14.8	16.85	11.82	11.61	13.59	15.29	
G94	21.28	23.08	22.3	21.42	20.53	18.06	17.7	19.08	22.3	
G95	30.02	32.11	31.4	24.99	29.1	21.67	24.92	22.23	32.0	
G96	39.54	40.5	41.14	32.89	39.23	30.09	30.62	29.1	37.1	
G97	45.42	47.3	46.8	39.83	44.78	35.15	41.14	36.89	48.15	
G98	57.28	58.98	57.92	46.2	56.04	42.34	51.09	40.04	53.74	
G99	68.29	64.54	63.55	57.64	61.74	53.25	56.08	53.6	65.39	
G100	73.46	72.82	74.17	66.73	73.21	59.37	66.2	58.98	75.83	
G101	78.59	78.66	78.77	72.96	78.84	69.99	75.05	68.11	78.42	
G102	96.54	78.66	87.48	78.84	92.01	74.59	78.66	75.48	91.34	
G103	101.61	83.69	93.71	75.83	103.87	78.52	90.45	78.56	96.54	
G104	114.21	84.33	99.76	75.05	109.22	78.31	103.8	80.08	108.08	
G105	125.79	88.58	112.12	76.82	120.86	79.23	110.81	81.35	120.47	
G106	131.84	92.54	123.09	78.81	126.14	80.97	121.43	83.23	125.36	
G107	144.3	98.14	130.32	85.5	138.71	86.7	125.5	83.94	139.8	
G108	150.67	117.04	138.81	110.39	142.78	96.33	124.9	86.52	149.61	
G109	155.31	132.19	144.09	123.13	144.27	118.63	126.03	101.43	149.72	
G110	163.88	148.3	147.35	138.39	148.8	132.16	128.87	108.44	158.78	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:



Report No.:

Test Time: 2020/1/9 16:41:57

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G111	166.6	155.74	156.05	145.33	151.63	139.66	137.04	121.86	166.96	
G112	172.37	171.6	165.75	158.04	157.68	152.41	141.11	131.77	170.43	
G113	181.76	183.67	170.11	163.24	163.17	162.82	149.33	148.12	177.69	
G114	185.3	189.26	178.61	173.12	165.93	168.27	152.41	162.89	184.94	
G115	193.44	199.46	186.22	183.38	172.76	178.82	162.21	169.47	189.19	
G116	200.02	204.63	192.06	188.8	189.3	188.62	182.18	183.24	202.29	
G117	219.74	215.21	211.32	200.38	199.0	194.47	190.01	195.71	223.18	
G118	236.91	225.58	220.52	206.33	215.78	204.84	200.91	201.65	231.74	
G119	244.99	230.33	235.18	217.9	233.16	210.04	205.51	211.74	247.78	
G120	261.91	240.31	245.13	230.54	243.29	219.99	217.58	223.64	255.78	
G121	271.08	252.31	251.68	237.3	262.12	226.43	239.6	230.43	272.81	
G122	288.18	259.08	271.08	251.46	277.48	239.36	248.49	244.35	281.03	
G123	295.72	271.08	279.5	258.4	284.03	249.76	256.24	260.53	295.58	
G124	309.52	280.21	291.86	272.56	296.85	255.57	256.99	269.17	308.11	
G125	321.81	286.51	301.91	287.57	310.76	269.98	266.26	284.39	314.2	
G126	328.78	300.92	306.37	295.89	319.54	278.48	281.91	297.35	328.36	
G127	341.35	314.3	316.96	309.91	334.09	291.5	287.79	303.68	334.77	
G128	345.71	319.93	322.52	318.8	339.72	302.05	292.81	314.06	344.04	
G129	356.15	331.79	335.44	323.4	348.96	306.76	298.16	319.47	354.73	
G130	363.23	337.24	345.21	329.85	351.97	312.85	309.98	324.82	358.27	
G131	363.23	339.05	346.52	334.02	355.8	316.78	322.16	331.44	360.04	
G132	370.31	349.21	355.09	338.91	366.06	325.63	332.75	337.28	364.65	
G133	377.39	356.15	360.04	349.64	371.73	330.94	338.87	345.28	370.66	
G134	380.93	368.89	371.02	362.17	385.18	344.04	351.26	351.37	381.28	
G135	394.38	374.91	376.33	368.19	390.14	353.81	363.23	359.69	389.78	
G136	413.86	384.83	387.3	378.81	399.34	360.4	369.96	372.08	406.42	
G137	419.87	396.15	397.22	391.55	410.31	372.79	380.58	376.33	412.79	
G138	430.49	401.82	403.23	397.57	414.56	380.93	384.47	384.12	424.12	
G139	435.45	409.96	413.86	406.07	418.46	383.06	389.78	385.89	430.49	
G140	436.87	412.44	421.29	409.61	419.87	391.91	393.68	393.32	431.91	
G141	440.41	419.87	424.12	419.17	423.41	401.82	395.8	398.63	435.1	
G142	445.01	429.43	429.79	424.83	425.89	406.42	400.05	407.13	439.35	
G143	447.13	433.68	435.45	433.68	430.14	412.44	402.17	413.5	441.47	
G144	451.38	442.18	438.64	439.35	434.39	418.46	406.42	416.33	446.07	
G145	453.51	445.72	443.95	441.82	436.51	421.29	410.67	422.35	450.32	
G146	458.11	452.8	449.61	447.13	441.47	427.31	413.15	425.18	452.44	
G147	463.06	459.88	452.09	449.61	446.78	432.62	418.46	429.43	457.75	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2020/1/9 16:41:57

**LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)**

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G148	465.54	462.71	457.75	454.57	449.61	435.45	421.29	434.74	462.71	
G149	469.44	469.08	463.42	459.17	455.63	440.76	426.95	436.87	464.83	
G150	472.27	471.92	465.9	461.65	460.59	443.59	432.97	441.12	469.44	
G151	476.87	477.93	470.5	466.25	463.06	448.55	435.8	445.36	471.56	
G152	479.0	483.6	472.98	468.38	466.96	453.51	441.47	447.49	475.46	
G153	482.54	486.08	477.93	472.62	471.56	455.63	444.66	452.44	479.35	
G154	486.78	491.03	483.24	477.23	473.69	460.23	452.09	459.17	481.12	
G155	489.26	495.99	485.72	479.35	479.35	463.06	456.34	463.42	486.43	
G156	495.99	498.82	491.03	484.31	486.08	470.5	465.54	473.33	489.62	
G157	499.88	505.55	494.57	487.85	490.32	477.58	475.1	484.31	497.41	
G158	507.32	512.63	502.01	495.99	497.76	481.12	479.35	488.91	504.49	
G159	513.34	516.17	510.15	504.49	504.13	487.49	487.49	496.7	507.67	
G160	515.81	522.54	513.69	508.03	507.32	490.32	495.28	503.42	512.63	
G161	520.42	528.21	520.42	515.46	517.58	511.21	502.01	507.32	514.75	
G162	522.54	532.45	524.67	535.99	532.1	536.7	544.14	542.01	521.48	
G163	549.45	568.92	552.28	557.59	562.55	569.27	569.98	562.19	554.05	
G164	576.0	587.33	567.86	584.14	572.1	587.33	578.48	583.79	566.79	
G165	585.2	605.38	585.56	600.78	588.39	595.12	596.53	600.07	585.2	
G166	600.78	619.9	601.84	607.86	602.9	605.74	610.34	607.15	591.93	
G167	607.86	625.56	608.21	620.61	609.99	609.63	615.3	613.17	606.44	
G168	619.54	631.23	623.79	626.62	621.31	614.23	621.31	614.94	612.11	
G169	626.62	633.0	629.81	628.39	625.21	618.13	626.62	617.77	620.25	
G170	633.0	636.18	637.95	631.23	630.87	619.9	629.1	618.84	626.62	
G171	635.83	639.37	643.62	632.29	634.06	623.08	633.7	620.96	630.16	
G172	641.85	640.43	645.74	634.77	639.37	626.27	636.18	624.15	635.83	
G173	647.87	642.56	649.99	636.89	643.62	627.69	640.43	625.56	641.49	
G174	649.99	643.62	653.88	638.31	645.39	630.52	643.62	628.39	643.62	
G175	652.47	645.39	655.3	640.43	648.57	634.06	645.03	630.16	646.8	
G176	654.24	646.45	657.42	641.85	650.7	635.83	647.51	632.64	648.93	
G177	655.3	647.51	659.19	643.97	651.76	638.66	648.93	634.41	649.64	
G178	656.36	648.22	659.9	646.8	654.24	642.56	649.64	635.47	651.05	
G179	656.01	649.28	660.61	648.22	656.72	645.74	648.93	636.18	651.05	
G180	655.3	649.28	660.26	649.28	658.13	648.22	648.22	636.54	650.7	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/1/9 16:41:57

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks: