

Report No.:

Test Time: 2021/9/1 14:12:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 投光灯50W
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

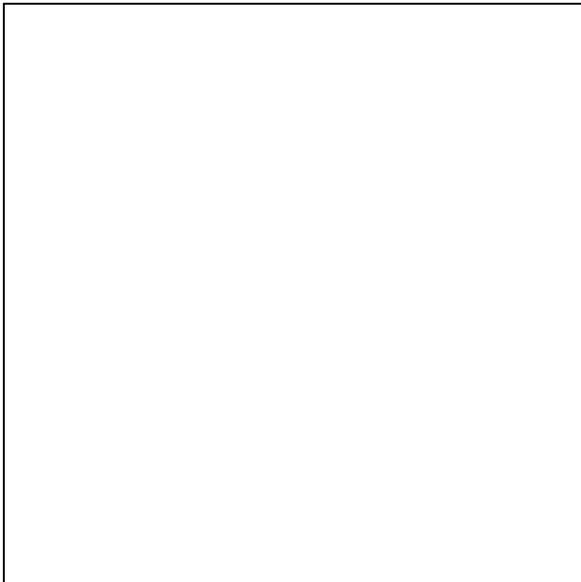
Voltage(V): 219.50 V
 Current(A): 0.2140 A
 Power(W): 45.98 W
 Power Factor: 0.9770
 Lamp Luminous Flux: 5430.14

Photometric Results

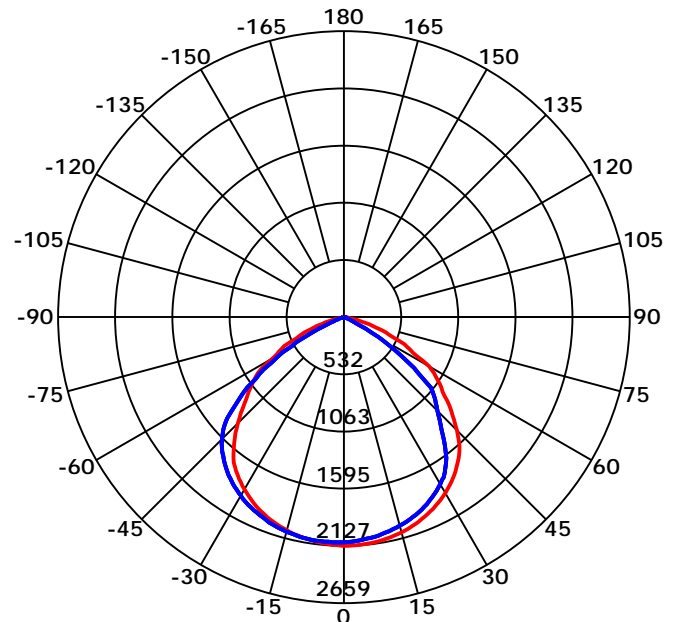
CIE Class: Direct
 Luminaire Luminous Flux: 5430.14 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 118.10 lm/W
 Beam Angle(50%) C0-180,C90-270: 109.6,105.4
 Field Angle(10%) C0-180,C90-270: 147.5,128.3
 S/MH C0-180,C90-270: 1.299,1.299

Max. Intensity: 2126.90 cd
 Max.Intensity Angle: C=0 Gamma=1
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 2125.50 cd
 Effective Luminous Flux: 5314.86 lm
 ERP(φ use)(120deg): 4801.77 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 109.6 deg,105.4 deg

C0-180 ——— C90-270 ———

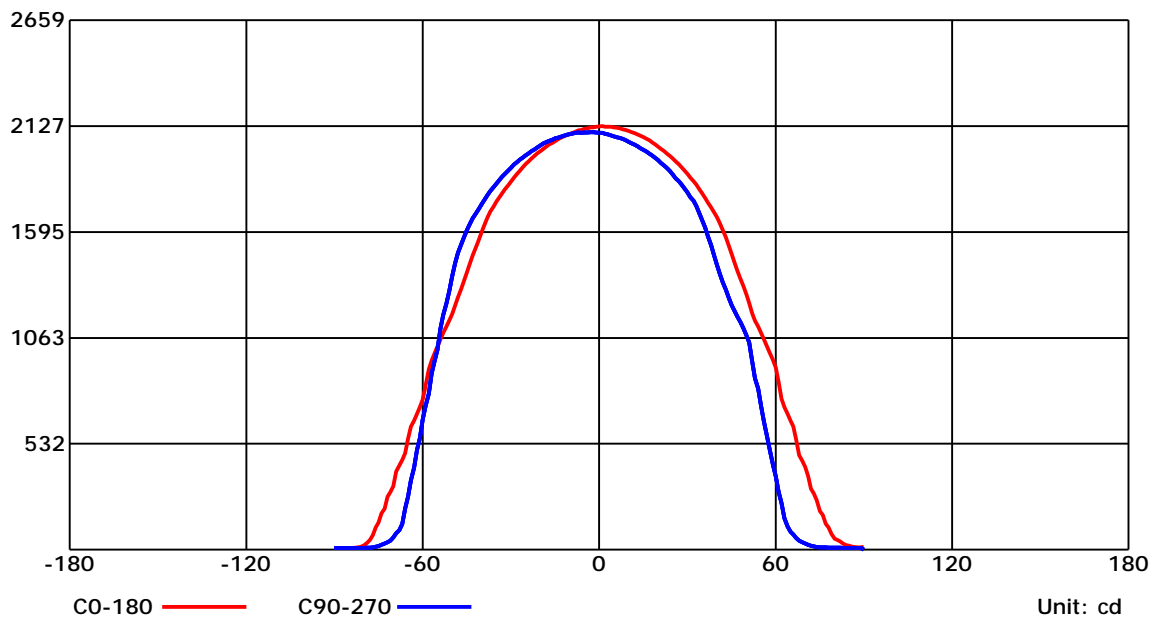
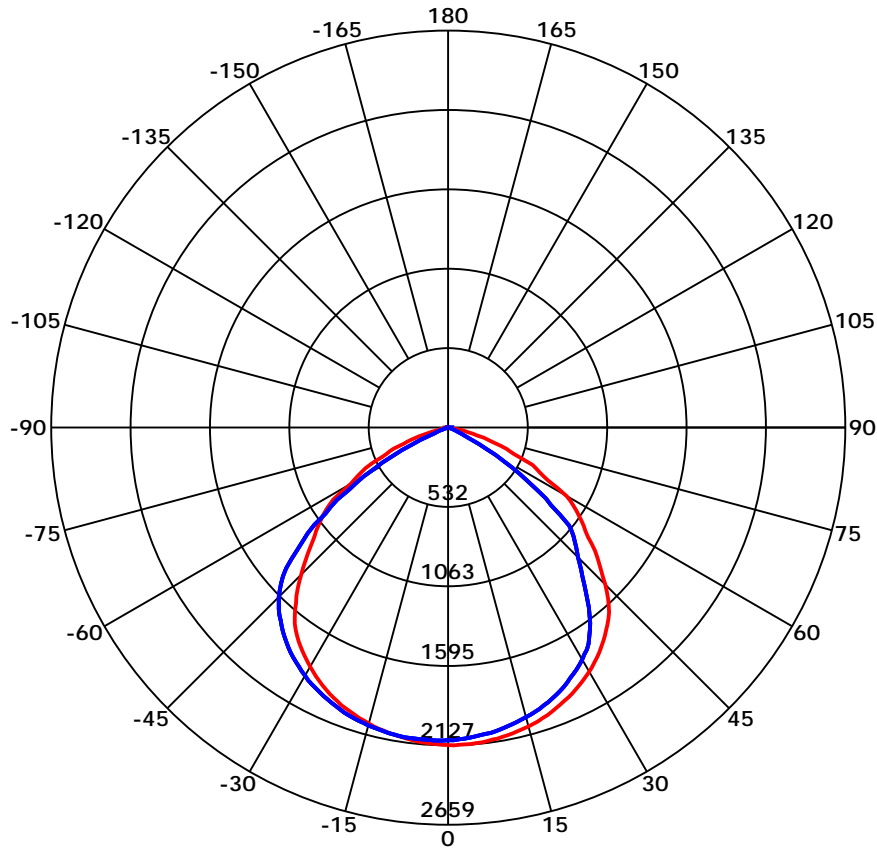
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

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Luminous Intensity Distribution Curve



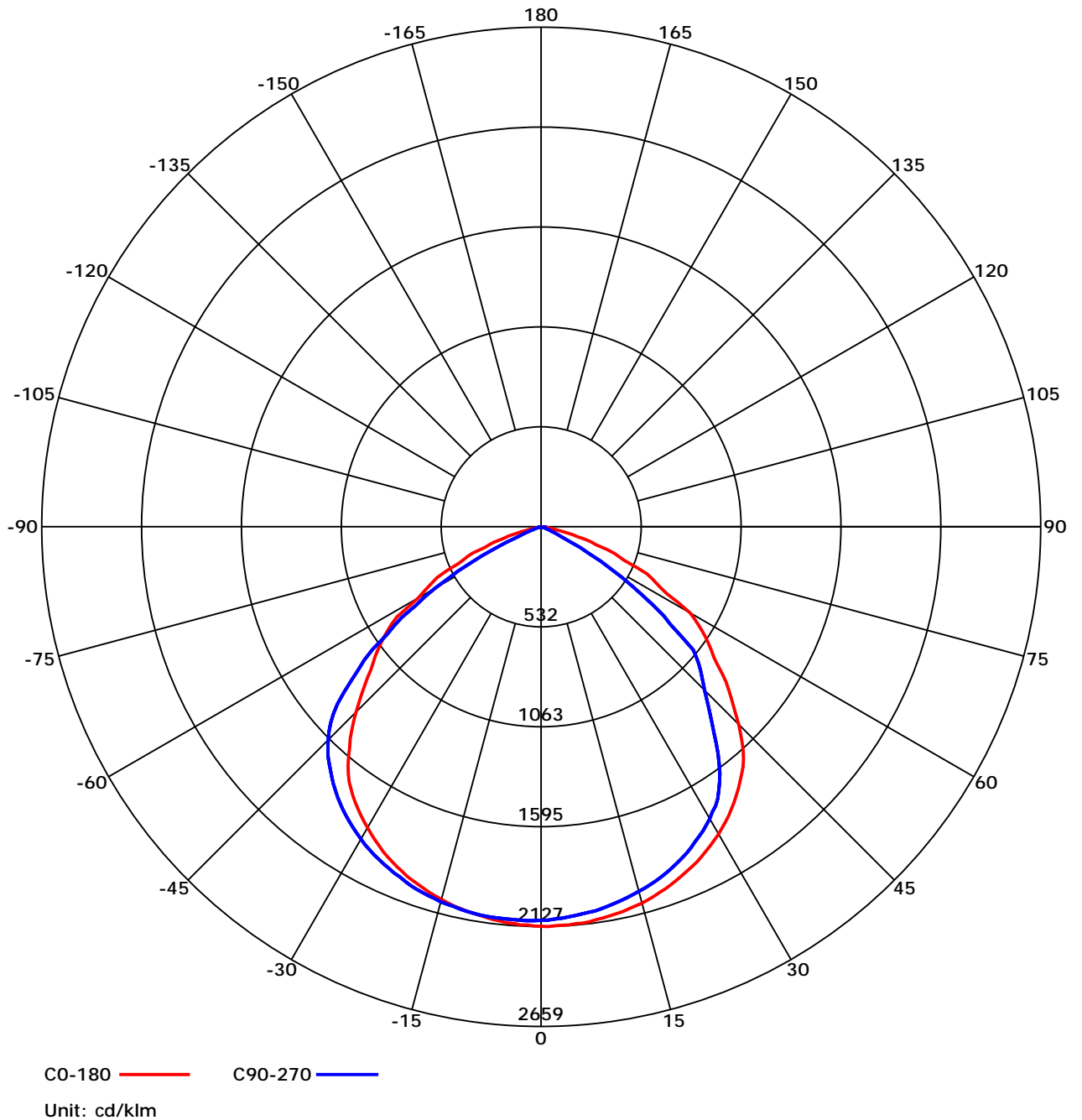
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

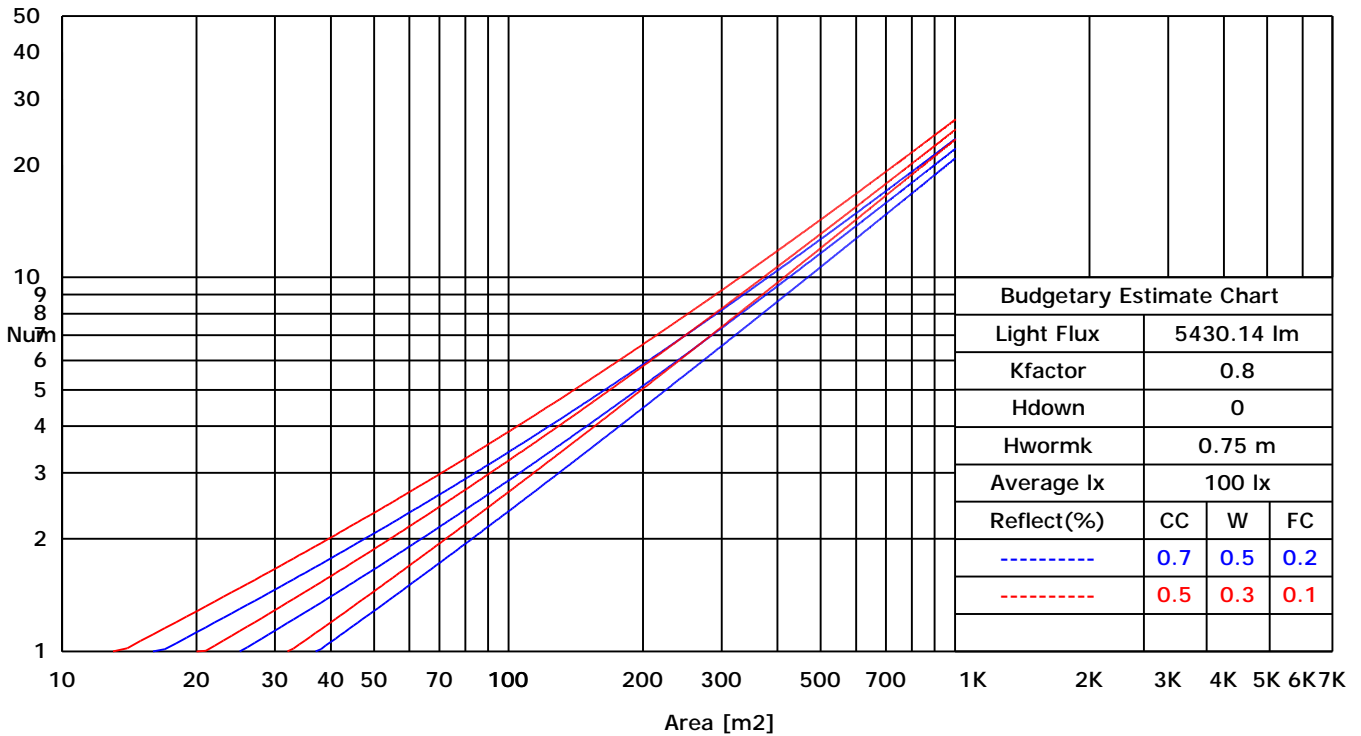
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UTILIZATION FACTORS TABLE

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	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	1.07	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	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.85	0.85	0.82	0.79	0.74
3	0.89	0.87	0.85	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.71	0.67
4	0.81	0.79	0.77	0.80	0.78	0.76	0.79	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.60
5	0.74	0.72	0.70	0.73	0.71	0.69	0.72	0.68	0.66	0.70	0.66	0.62	0.68	0.63	0.59	0.55
6	0.68	0.65	0.64	0.67	0.65	0.63	0.67	0.63	0.60	0.65	0.61	0.57	0.63	0.58	0.54	0.50
7	0.62	0.60	0.59	0.62	0.59	0.58	0.62	0.58	0.55	0.61	0.56	0.52	0.59	0.54	0.49	0.46
8	0.58	0.56	0.54	0.58	0.55	0.53	0.57	0.53	0.51	0.57	0.52	0.48	0.56	0.50	0.46	0.42
9	0.53	0.52	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.53	0.48	0.45	0.52	0.47	0.42	0.39
10	0.50	0.48	0.47	0.50	0.48	0.46	0.50	0.46	0.44	0.50	0.45	0.42	0.49	0.44	0.40	0.37

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



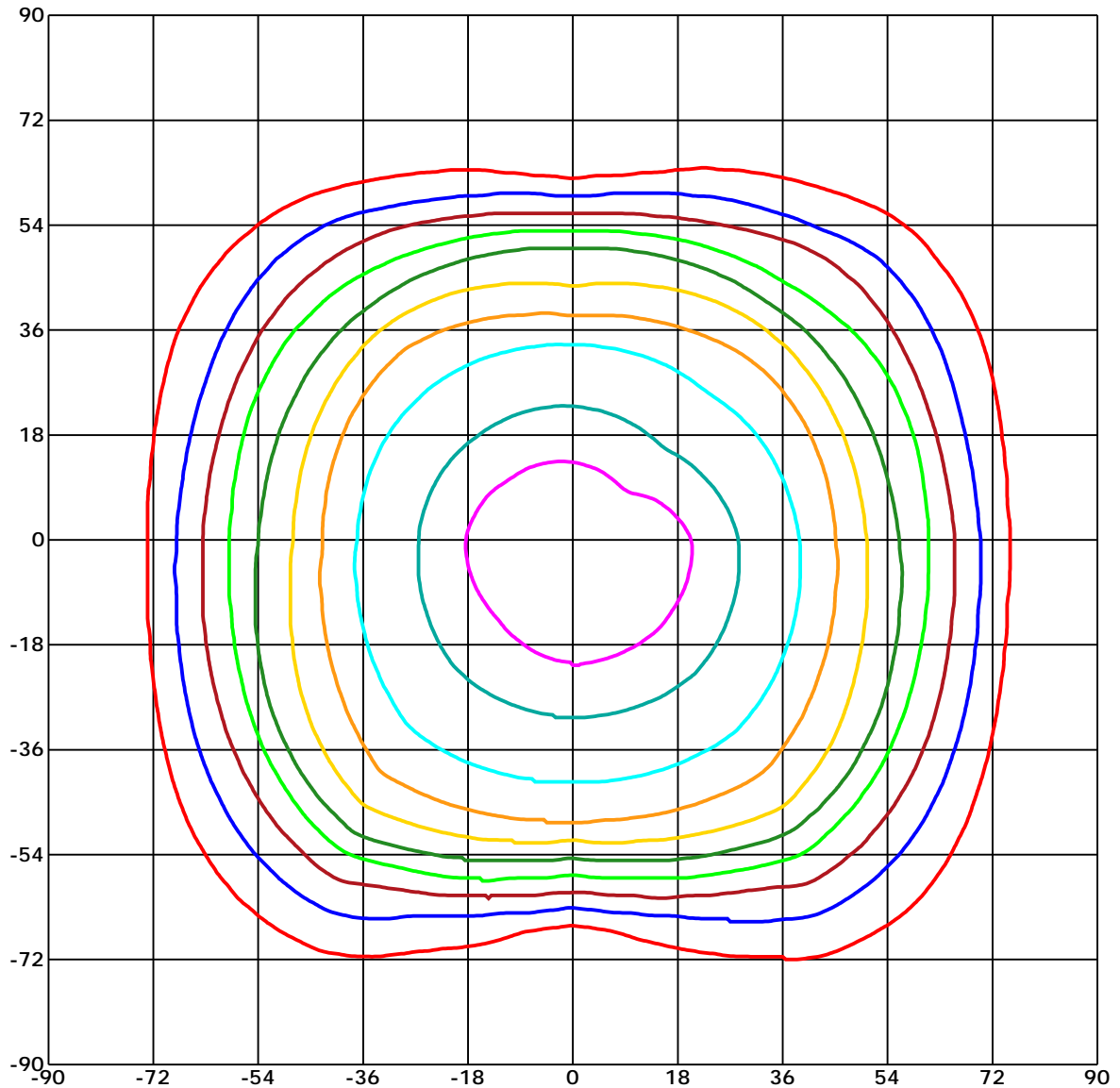
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

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ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 2126.895 cd

— 2020.55(95%I _{max})	— 1063.447(50%I _{max})
— 1914.205(90%I _{max})	— 850.758(40%I _{max})
— 1701.516(80%I _{max})	— 638.068(30%I _{max})
— 1488.826(70%I _{max})	— 425.379(20%I _{max})
— 1276.137(60%I _{max})	— 212.69(10%I _{max})

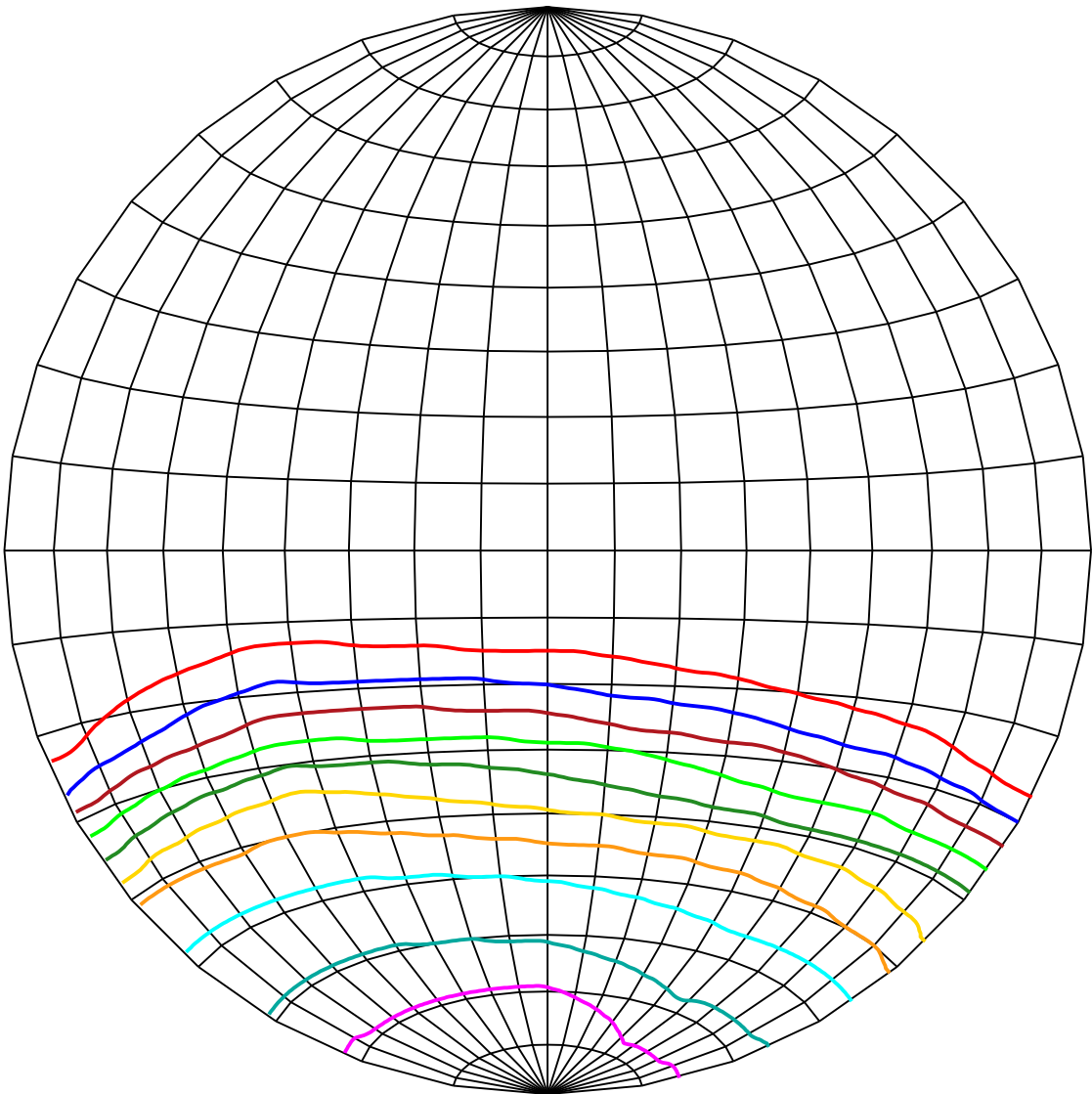
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

Report No.:

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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2126.895 cd

— 2020.55(95%I _{max})	— 1063.447(50%I _{max})
— 1914.205(90%I _{max})	— 850.758(40%I _{max})
— 1701.516(80%I _{max})	— 638.068(30%I _{max})
— 1488.826(70%I _{max})	— 425.379(20%I _{max})
— 1276.137(60%I _{max})	— 212.69(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.22

Operators:

Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

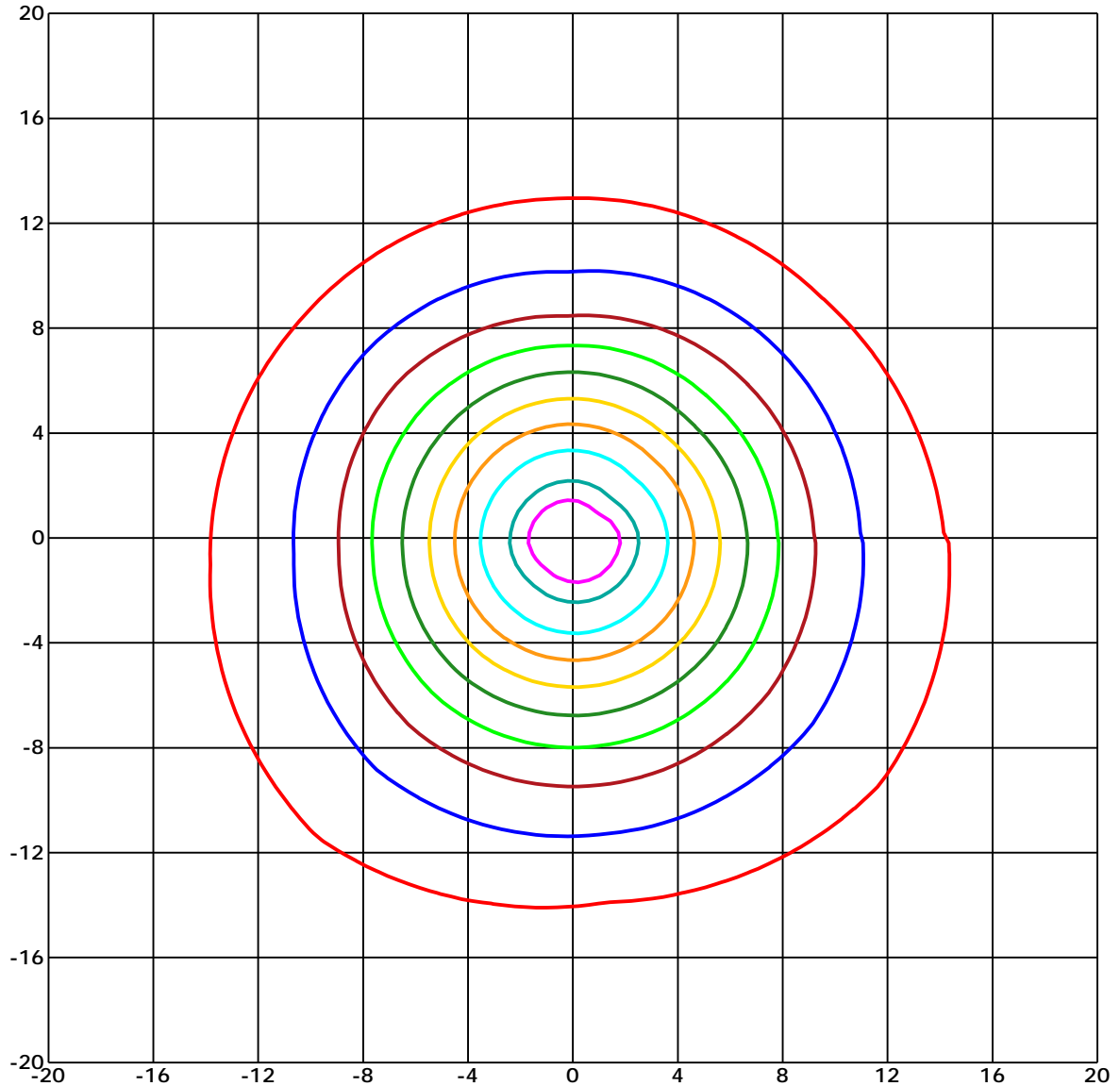
Test Distance: 6.22 m

Remarks:

Report No.:

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ISOLX DIAGRAM



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

— 20.196(1%Emax)	— 10.63(0%Emax)
— 19.133(1%Emax)	— 8.504(0%Emax)
— 17.007(1%Emax)	— 6.378(0%Emax)
— 14.881(1%Emax)	— 4.252(0%Emax)
— 12.756(1%Emax)	— 2.126(0%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.22

Operators:

Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

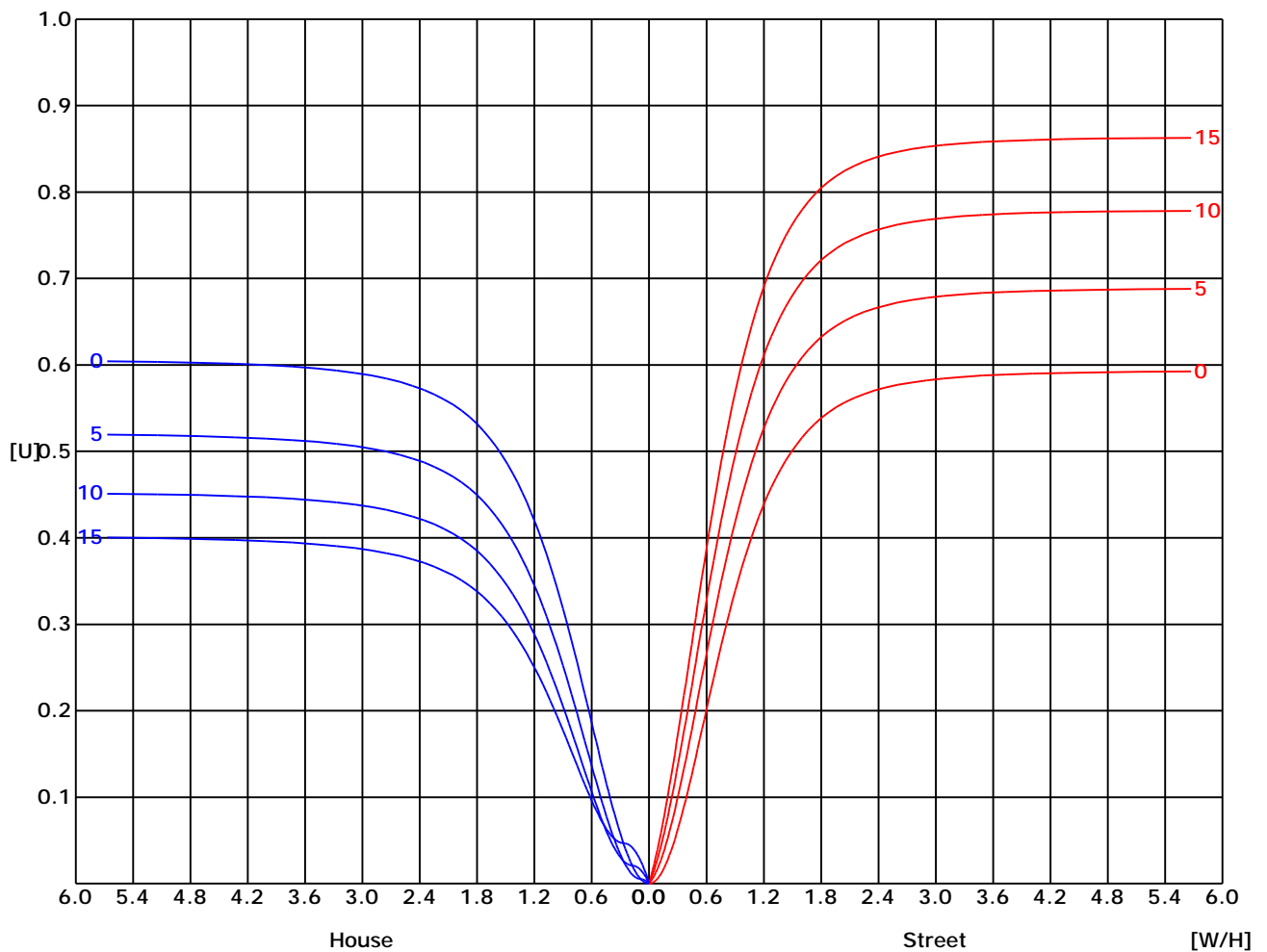
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/9/1 14:12:11

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

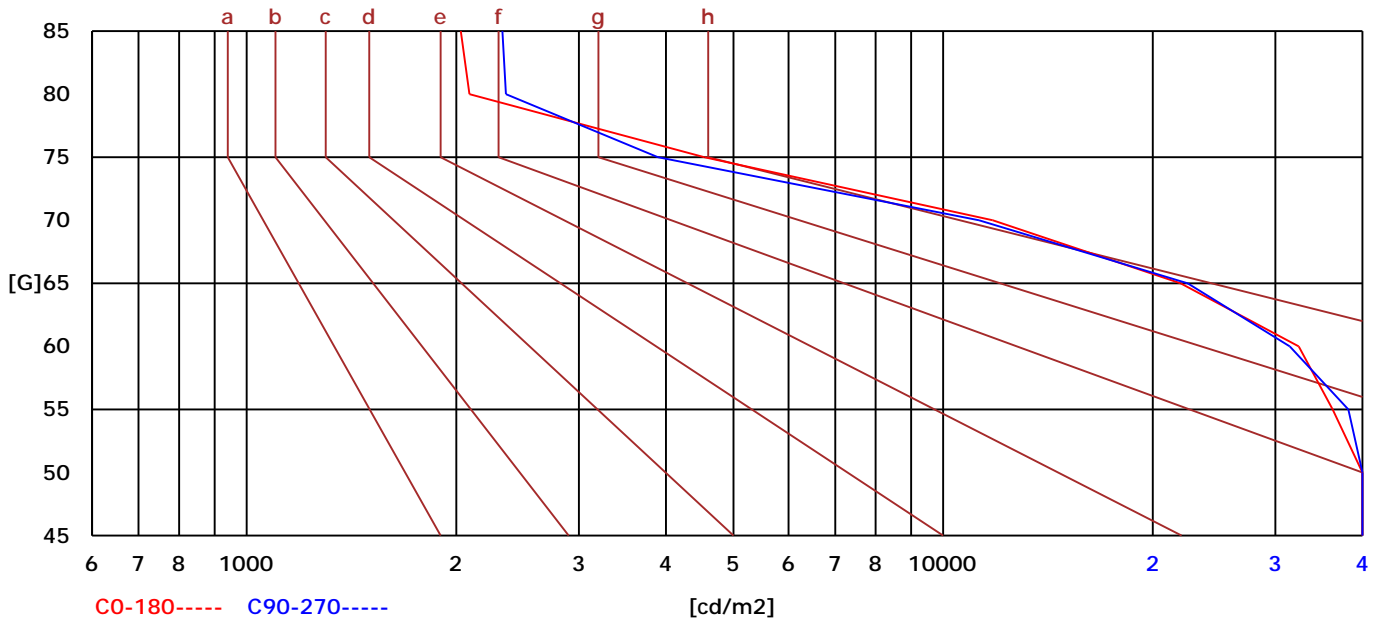
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

Report No.:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	48769	43345	36230	32405	21920	11784	4540	2089	2031
C90	49055	43644	38176	31442	22431	11261	3898	2356	2330
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



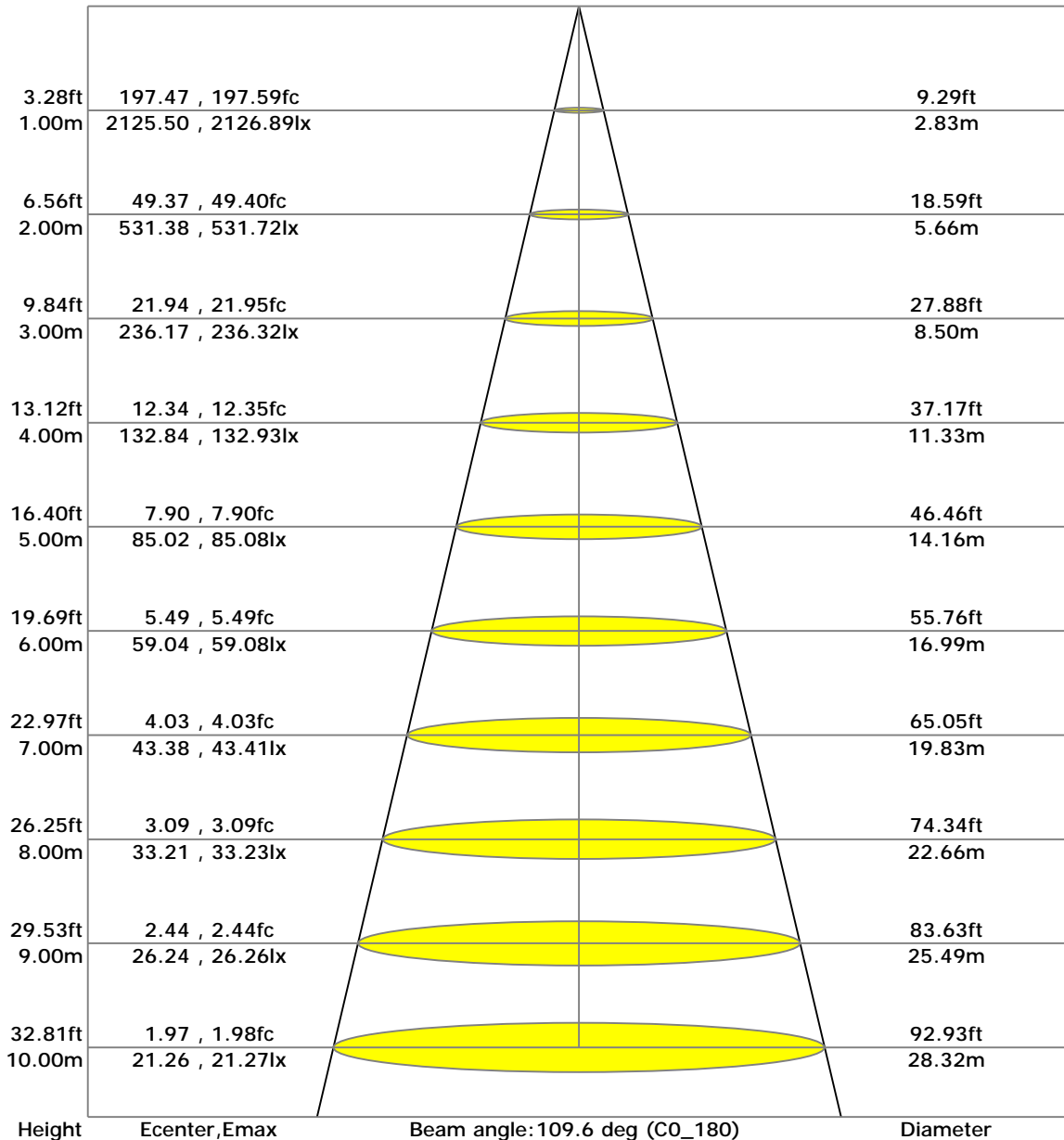
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 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	19.19	19.26	19.39	19.45	19.69	17.93	18.00	18.13	18.19	18.43
	3H	19.15	19.22	19.36	19.42	19.66	17.96	18.03	18.17	18.22	18.47
	4H	19.13	19.19	19.34	19.39	19.64	17.94	18.01	18.15	18.21	18.46
	6H	19.10	19.16	19.32	19.37	19.62	17.92	17.98	18.13	18.18	18.43
	8H	19.08	19.15	19.30	19.35	19.61	17.90	17.97	18.12	18.17	18.42
	12H	19.07	19.13	19.29	19.34	19.59	17.89	17.95	18.11	18.15	18.41
4H	2H	20.48	20.54	20.69	20.74	20.99	18.08	18.14	18.29	18.34	18.59
	3H	20.45	20.51	20.67	20.72	20.97	18.11	18.17	18.33	18.38	18.64
	4H	20.42	20.48	20.65	20.69	20.95	18.09	18.15	18.32	18.37	18.63
	6H	20.38	20.44	20.62	20.66	20.92	18.06	18.12	18.30	18.34	18.60
	8H	20.37	20.42	20.61	20.65	20.91	18.05	18.10	18.29	18.33	18.59
	12H	20.35	20.40	20.60	20.63	20.90	18.03	18.08	18.28	18.31	18.58
8H	4H	20.54	20.60	20.76	20.80	21.06	18.04	18.10	18.26	18.31	18.56
	6H	20.45	20.49	20.70	20.73	21.00	18.02	18.07	18.27	18.30	18.58
	8H	20.43	20.47	20.69	20.71	20.99	18.00	18.04	18.26	18.29	18.57
	12H	20.40	20.44	20.67	20.70	20.98	17.98	18.02	18.25	18.27	18.55
12H	4H	20.48	20.53	20.73	20.76	21.03	18.04	18.09	18.29	18.32	18.59
	6H	20.44	20.48	20.70	20.73	21.01	18.00	18.05	18.27	18.29	18.57

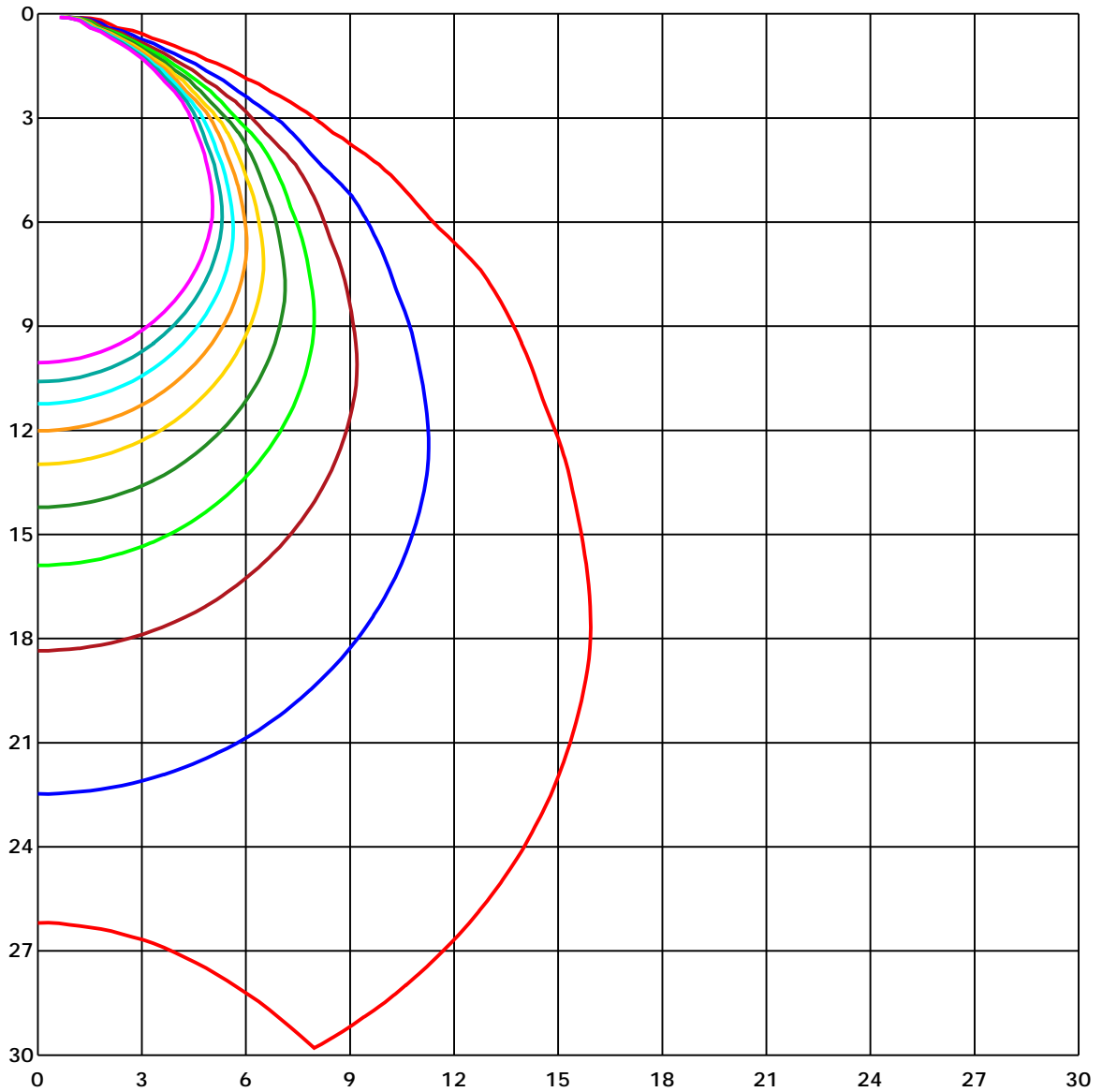
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 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|----------|----------|
| — 21.045 | — 10.523 |
| — 18.941 | — 8.418 |
| — 16.836 | — 6.314 |
| — 14.732 | — 4.209 |
| — 12.627 | — 2.105 |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

Report No.:

Test Time: 2021/9/1 14:12:11

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	2125.5	2081.47	2093.66	2109.14	2125.5	2081.47	2093.66	2109.14	2125.5
G1	2126.9	2080.82	2092.66	2106.74	2124.34	2083.06	2095.6	2110.26	2126.9
G2	2123.8	2077.34	2088.48	2103.99	2120.05	2083.1	2096.68	2107.9	2123.8
G3	2123.18	2073.7	2084.8	2099.04	2120.86	2082.4	2096.41	2108.29	2123.18
G4	2123.22	2071.11	2080.55	2094.94	2115.29	2082.09	2094.4	2107.71	2123.22
G5	2119.78	2066.0	2075.83	2092.0	2114.59	2079.81	2094.71	2106.04	2119.78
G6	2119.12	2061.09	2071.22	2086.27	2108.29	2079.81	2093.55	2105.89	2119.12
G7	2116.14	2055.01	2066.77	2081.67	2105.31	2077.61	2094.51	2104.22	2116.14
G8	2110.61	2049.83	2063.37	2078.77	2098.92	2075.9	2093.35	2102.02	2110.61
G9	2107.67	2042.94	2055.82	2069.98	2092.97	2072.46	2090.72	2097.22	2107.67
G10	2102.17	2034.89	2048.74	2062.98	2088.63	2069.6	2087.47	2093.62	2102.17
G11	2096.99	2027.93	2040.77	2055.4	2082.48	2065.11	2083.53	2090.45	2096.99
G12	2092.27	2020.27	2033.58	2049.56	2075.28	2059.19	2078.84	2086.27	2092.27
G13	2085.11	2011.41	2025.49	2037.99	2069.56	2053.81	2073.27	2081.32	2085.11
G14	2078.53	2001.93	2016.79	2030.6	2061.51	2048.82	2069.25	2074.74	2078.53
G15	2072.42	1994.66	2008.04	2020.04	2051.84	2044.49	2065.34	2066.89	2072.42
G16	2063.91	1984.33	1999.22	2011.33	2042.52	2037.29	2057.64	2062.01	2063.91
G17	2055.67	1973.22	1989.36	2000.54	2034.82	2030.68	2052.77	2053.66	2055.67
G18	2044.6	1962.55	1979.76	1989.98	2023.56	2024.1	2046.15	2045.34	2044.6
G19	2036.05	1950.17	1967.65	1978.99	2012.57	2015.78	2039.65	2036.75	2036.05
G20	2024.64	1936.66	1956.74	1968.54	2002.09	2007.54	2031.22	2027.97	2024.64
G21	2013.04	1924.67	1942.74	1956.01	1992.65	2000.27	2021.12	2019.3	2013.04
G22	2001.78	1912.06	1929.74	1944.4	1976.94	1992.22	2009.36	2010.87	2001.78
G23	1988.85	1900.22	1916.0	1930.74	1964.25	1984.1	2001.12	2000.0	1988.85
G24	1977.29	1885.32	1901.34	1915.89	1950.09	1975.47	1990.44	1990.71	1977.29
G25	1964.75	1870.43	1884.78	1901.15	1936.9	1964.29	1980.81	1980.92	1964.75
G26	1949.93	1854.45	1865.05	1885.13	1920.49	1954.77	1969.24	1969.36	1949.93
G27	1935.54	1837.04	1849.77	1868.19	1902.7	1943.09	1958.17	1961.46	1935.54
G28	1920.18	1818.28	1833.1	1851.24	1885.4	1930.28	1946.03	1948.93	1920.18
G29	1903.28	1801.37	1812.98	1832.55	1867.68	1918.83	1933.99	1935.39	1903.28
G30	1887.96	1780.4	1793.59	1813.87	1848.61	1906.53	1917.71	1922.12	1887.96
G31	1868.8	1760.83	1769.57	1795.3	1830.39	1890.86	1903.47	1905.67	1868.8
G32	1850.16	1739.82	1751.73	1772.9	1810.04	1876.47	1888.23	1891.05	1850.16
G33	1832.79	1716.8	1724.77	1753.36	1789.53	1860.95	1872.6	1876.12	1832.79
G34	1810.54	1695.6	1689.56	1730.92	1768.41	1846.29	1856.0	1858.13	1810.54
G35	1789.22	1672.62	1654.97	1706.86	1747.05	1829.23	1838.4	1842.23	1789.22
G36	1766.74	1646.46	1618.72	1685.34	1722.49	1813.36	1819.98	1824.43	1766.74

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.22

Operators:

Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.22 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1743.57	1622.67	1574.04	1660.89	1698.5	1795.68	1800.67	1807.48	1743.57	
G38	1719.24	1596.05	1529.35	1636.56	1667.7	1776.53	1779.32	1789.57	1719.24	
G39	1694.59	1569.05	1479.33	1609.01	1632.5	1757.3	1757.73	1766.67	1694.59	
G40	1669.87	1543.4	1431.01	1581.85	1594.39	1736.03	1734.17	1745.39	1669.87	
G41	1640.2	1513.88	1386.36	1549.59	1554.5	1713.74	1710.57	1722.87	1640.2	
G42	1606.38	1487.07	1344.96	1512.95	1518.21	1691.96	1687.98	1699.31	1606.38	
G43	1569.05	1455.07	1304.96	1473.25	1477.55	1668.63	1663.49	1674.43	1569.05	
G44	1527.96	1420.29	1266.19	1433.91	1436.54	1643.29	1634.74	1648.67	1527.96	
G45	1485.71	1379.4	1228.78	1387.48	1393.21	1618.49	1603.87	1623.56	1485.71	
G46	1441.76	1336.49	1198.8	1341.25	1349.88	1594.04	1569.2	1596.25	1441.76	
G47	1400.6	1288.98	1170.09	1290.18	1308.25	1569.2	1532.25	1566.96	1400.6	
G48	1359.36	1235.51	1141.15	1234.86	1266.74	1542.12	1489.7	1539.64	1359.36	
G49	1322.87	1176.51	1110.43	1178.95	1225.77	1512.68	1438.05	1508.81	1322.87	
G50	1283.45	1114.46	1077.67	1122.16	1183.56	1484.16	1372.51	1479.14	1283.45	
G51	1237.68	1051.98	1040.76	1068.84	1151.91	1454.18	1299.81	1450.74	1237.68	
G52	1188.16	994.1	949.3	1018.28	1120.73	1415.38	1236.17	1416.85	1188.16	
G53	1150.09	941.48	859.97	966.67	1088.77	1377.19	1178.95	1383.81	1150.09	
G54	1121.34	887.82	808.16	918.77	1055.15	1334.32	1107.65	1345.89	1121.34	
G55	1089.27	831.22	722.39	875.87	1020.56	1291.5	1003.89	1302.68	1089.27	
G56	1057.04	782.78	643.54	832.96	985.63	1246.19	947.13	1253.19	1057.04	
G57	1023.12	748.27	573.52	790.64	949.8	1199.96	885.69	1197.33	1023.12	
G58	988.72	716.28	503.72	747.92	904.84	1146.11	783.05	1138.52	988.72	
G59	952.97	683.24	427.58	705.75	824.84	1089.62	722.27	1076.7	952.97	
G60	914.71	648.11	367.89	628.84	754.5	1028.88	654.49	1014.76	914.71	
G61	840.43	610.39	289.08	569.8	715.89	937.34	559.09	951.31	840.43	
G62	758.1	545.24	234.06	510.22	682.7	879.58	500.55	894.13	758.1	
G63	715.04	456.76	158.58	469.21	648.92	829.05	411.18	839.89	715.04	
G64	681.81	400.77	115.79	427.82	617.31	748.23	347.77	763.05	681.81	
G65	648.61	370.56	90.69	379.19	557.15	695.89	265.48	710.98	648.61	
G66	617.47	333.34	75.4	294.19	484.26	659.44	205.82	675.34	617.47	
G67	550.27	280.61	58.69	247.76	451.26	593.36	128.87	631.32	550.27	
G68	475.29	234.8	45.57	217.39	422.63	557.27	99.24	595.34	475.29	
G69	444.92	196.3	36.79	185.82	392.18	512.43	81.94	545.12	444.92	
G70	415.47	161.21	30.25	154.06	318.17	470.37	62.09	478.23	415.47	
G71	370.75	134.83	24.53	123.69	289.2	403.06	44.76	433.43	370.75	
G72	306.18	106.59	19.73	93.32	265.48	339.61	36.68	379.38	306.18	
G73	281.19	80.97	16.13	80.86	206.17	308.15	30.22	331.91	281.19	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.22

Operators:

Test Date: 2021/9/1 14:12:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.22 m

Remarks:

