

Report No.:

Test Time: 2024/10/7 14:41:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: B
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

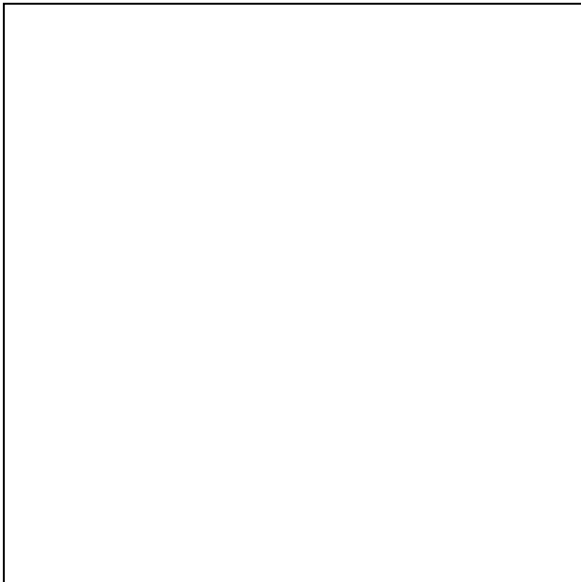
Voltage(V): 219.40 V
Current(A): 0.2860 A
Power(W): 36.49 W
Power Factor: 0.5790
Lamp Luminous Flux: 2421.47

Photometric Results

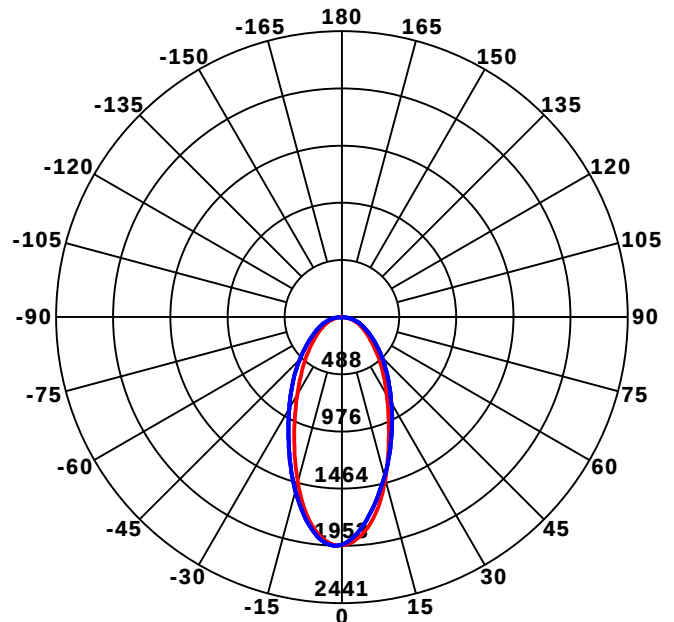
CIE Class: Direct
Luminaire Luminous Flux: 2421.471 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 66.36 lm/W
Beam Angle(50%) C0-180,C90-270: 48.7,53.8
Field Angle(10%) C0-180,C90-270: 123.8,134.4
S/MH C0-180,C90-270: 0.728,0.768

Max. Intensity: 1952.62 cd
Max.Intensity Angle: C=270 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1948.91 cd
Effective Luminous Flux: 2176.53 lm
ERP(ϕ use)(120deg): 2088.48 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.7 deg,53.8 deg

C0-180 — C90-270 —

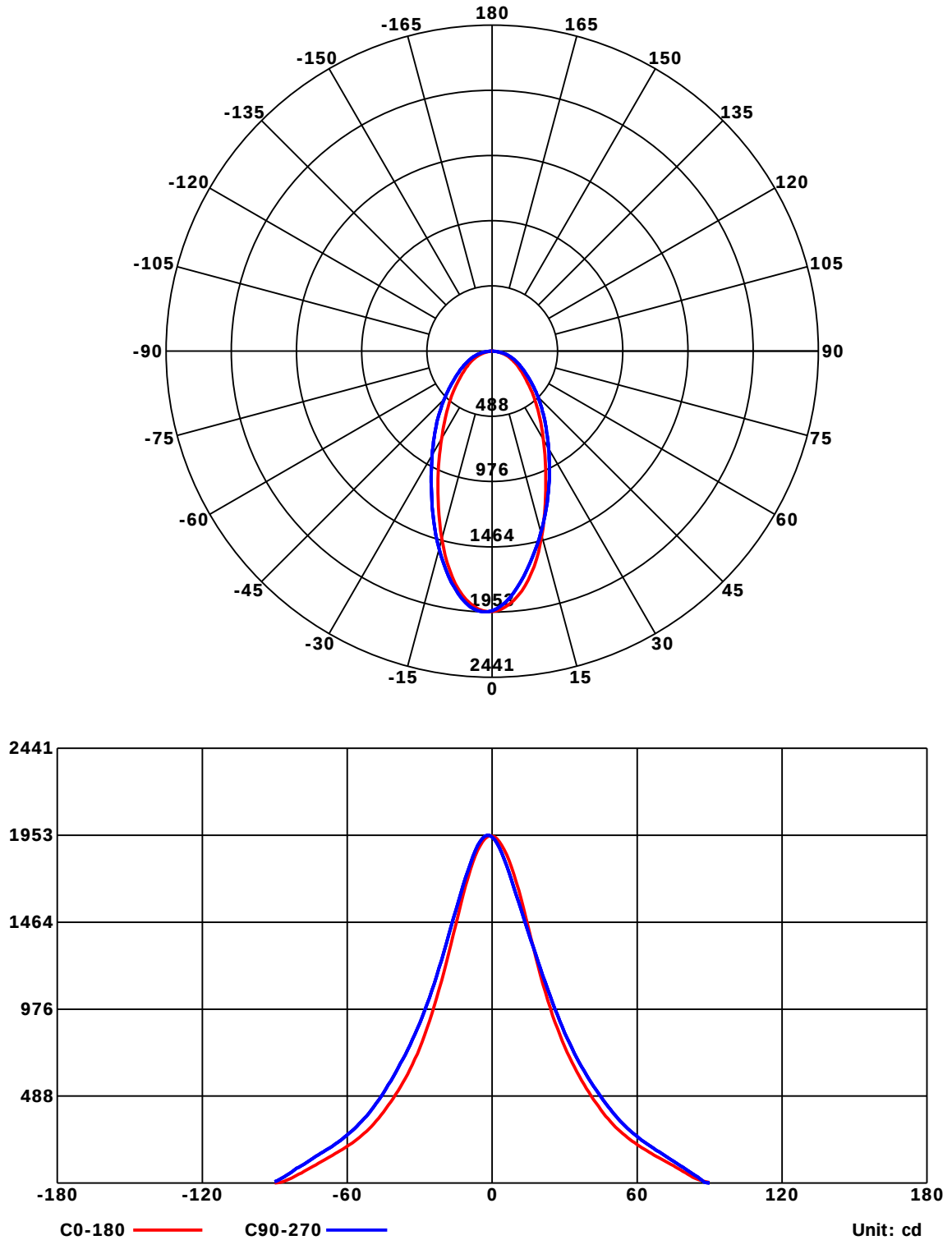
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 6.25 m
Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

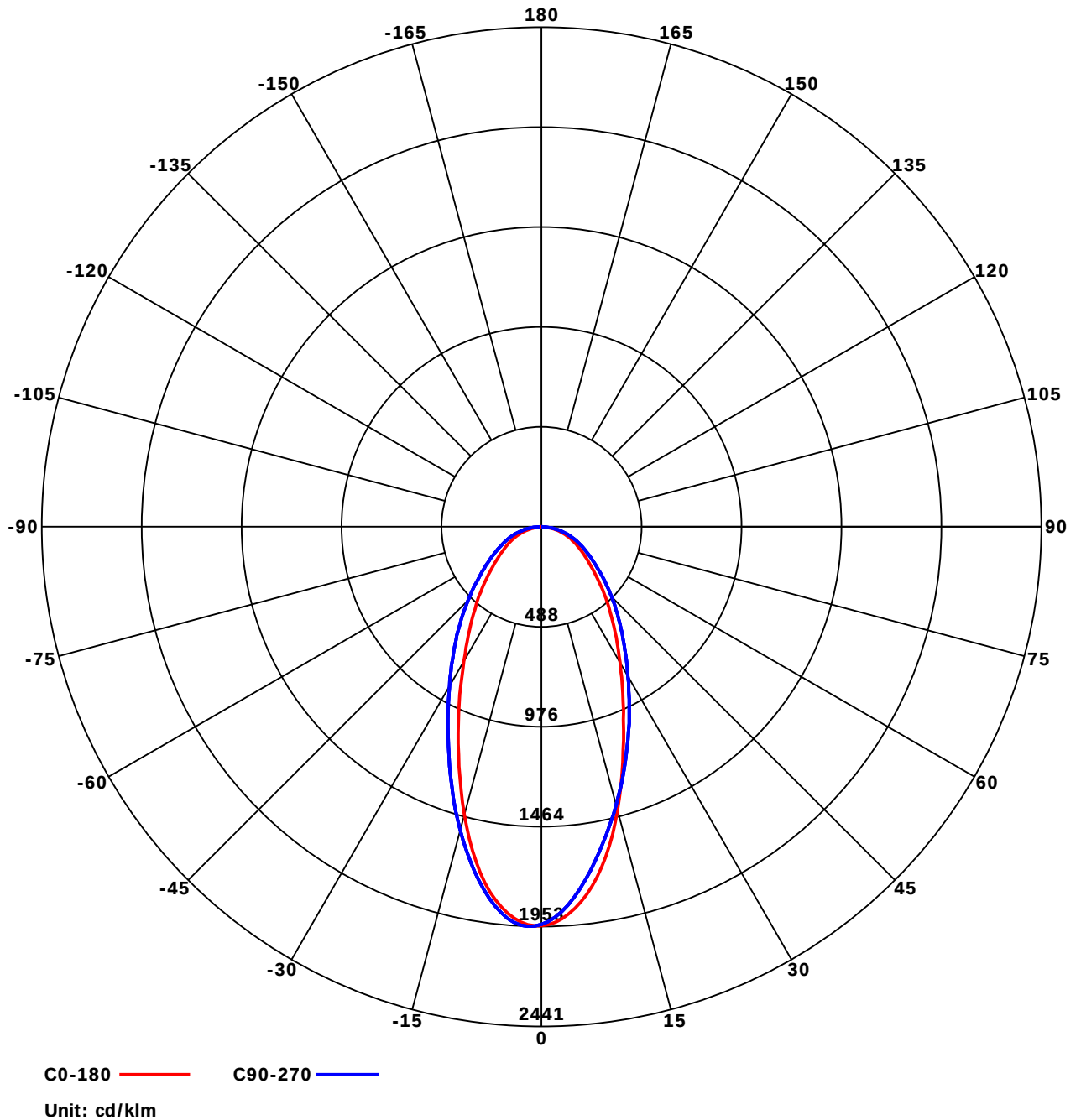
Test Distance: 6.25 m

Remarks:

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Test Time: 2024/10/7 14:41:11

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 6.25 m
Remarks:

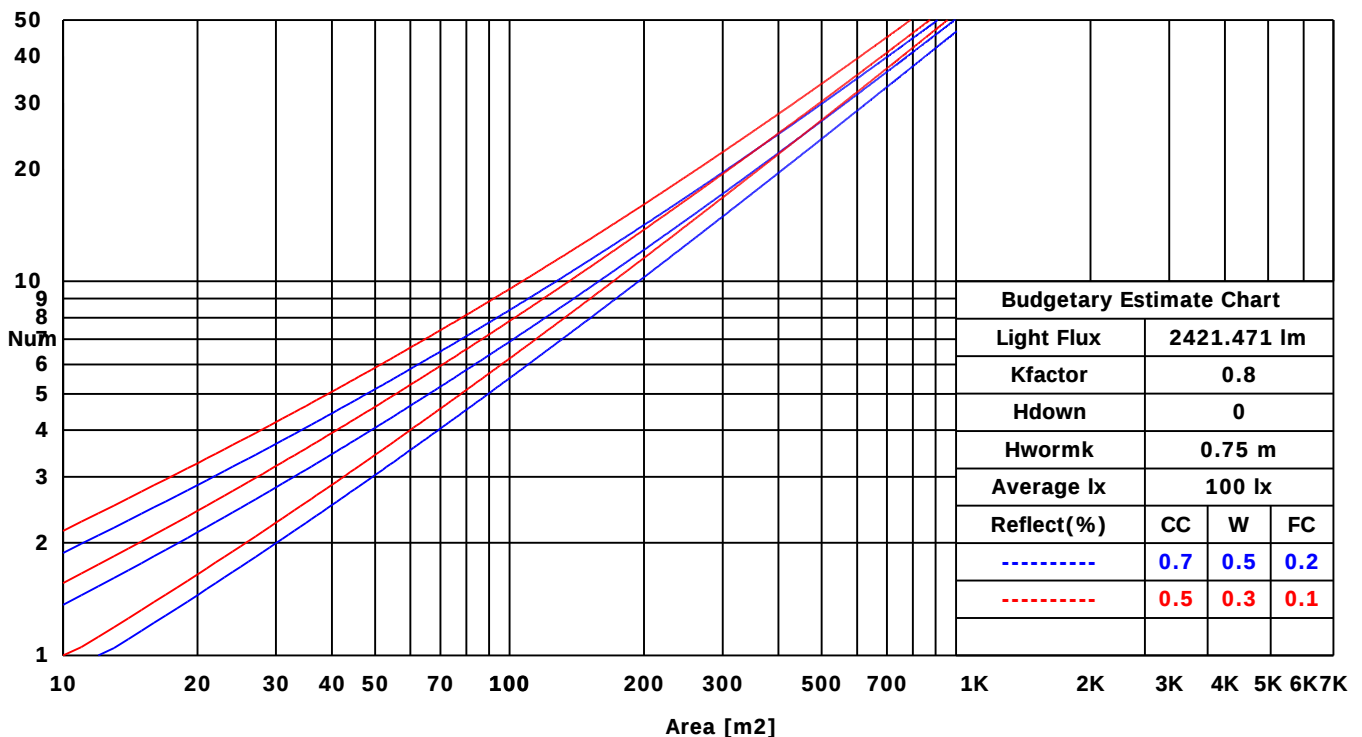
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UTILIZATION FACTORS TABLE

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	1.17	1.17	1.17	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.94	0.90	0.88	0.87	0.82
2	0.95	0.93	0.91	0.94	0.91	0.89	0.91	0.88	0.86	0.87	0.84	0.81	0.82	0.79	0.76	0.71
3	0.84	0.82	0.80	0.83	0.81	0.78	0.81	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
4	0.75	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.60	0.55
5	0.68	0.65	0.64	0.68	0.65	0.62	0.67	0.63	0.60	0.66	0.61	0.57	0.63	0.58	0.54	0.50
6	0.61	0.59	0.58	0.62	0.58	0.56	0.61	0.57	0.54	0.60	0.55	0.51	0.59	0.53	0.49	0.45
7	0.56	0.54	0.53	0.56	0.53	0.51	0.56	0.52	0.49	0.56	0.51	0.47	0.55	0.49	0.44	0.41
8	0.52	0.50	0.48	0.52	0.49	0.47	0.52	0.48	0.45	0.52	0.47	0.43	0.51	0.45	0.41	0.38
9	0.48	0.46	0.44	0.48	0.45	0.44	0.49	0.44	0.42	0.49	0.43	0.40	0.48	0.42	0.38	0.35
10	0.44	0.42	0.41	0.45	0.42	0.40	0.45	0.41	0.39	0.45	0.40	0.37	0.45	0.39	0.35	0.32

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

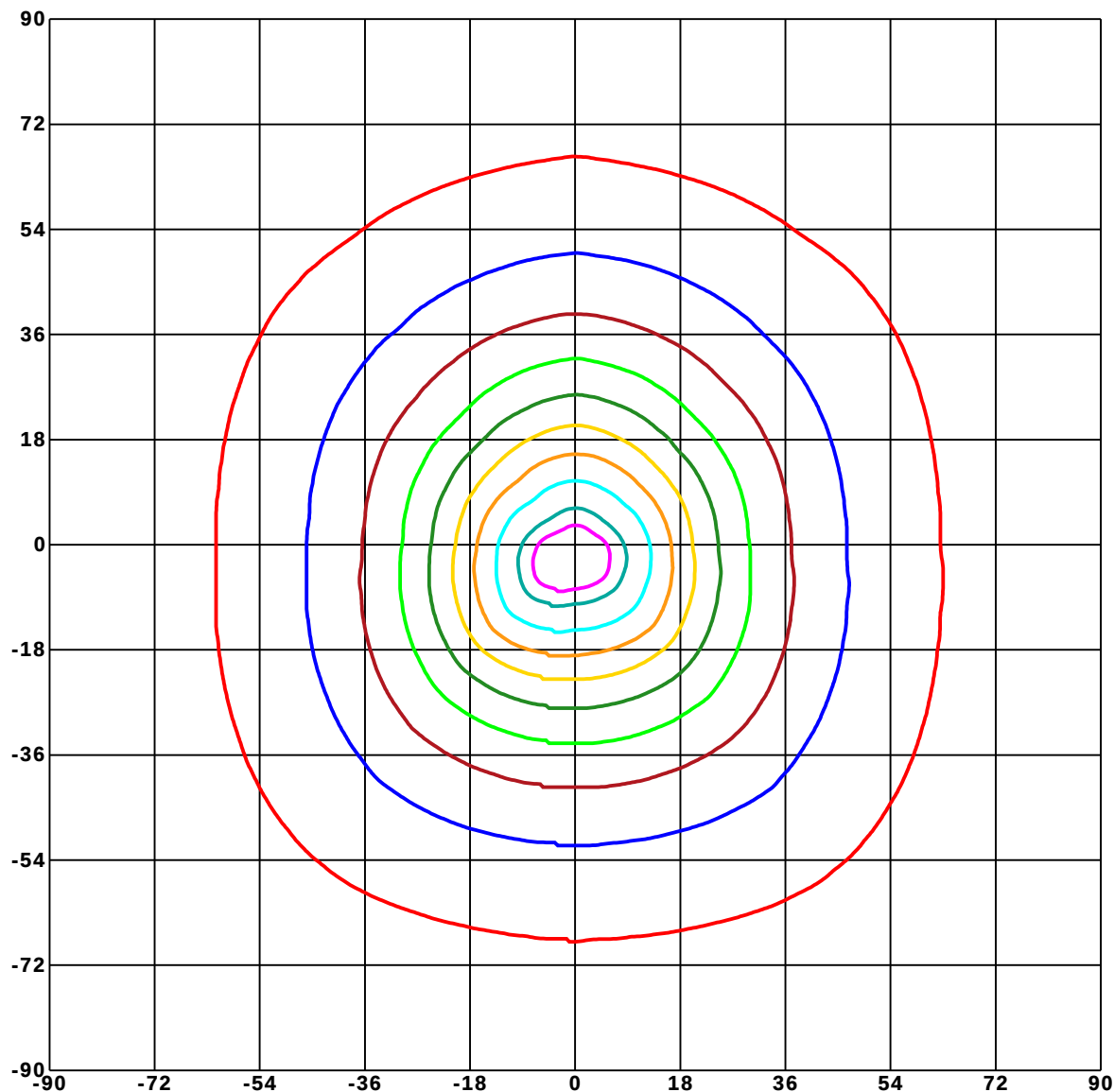
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 1952.617 cd

1854.986(95%I _{max})	976.309(50%I _{max})
1757.355(90%I _{max})	781.047(40%I _{max})
1562.094(80%I _{max})	585.785(30%I _{max})
1366.832(70%I _{max})	390.523(20%I _{max})
1171.57(60%I _{max})	195.262(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

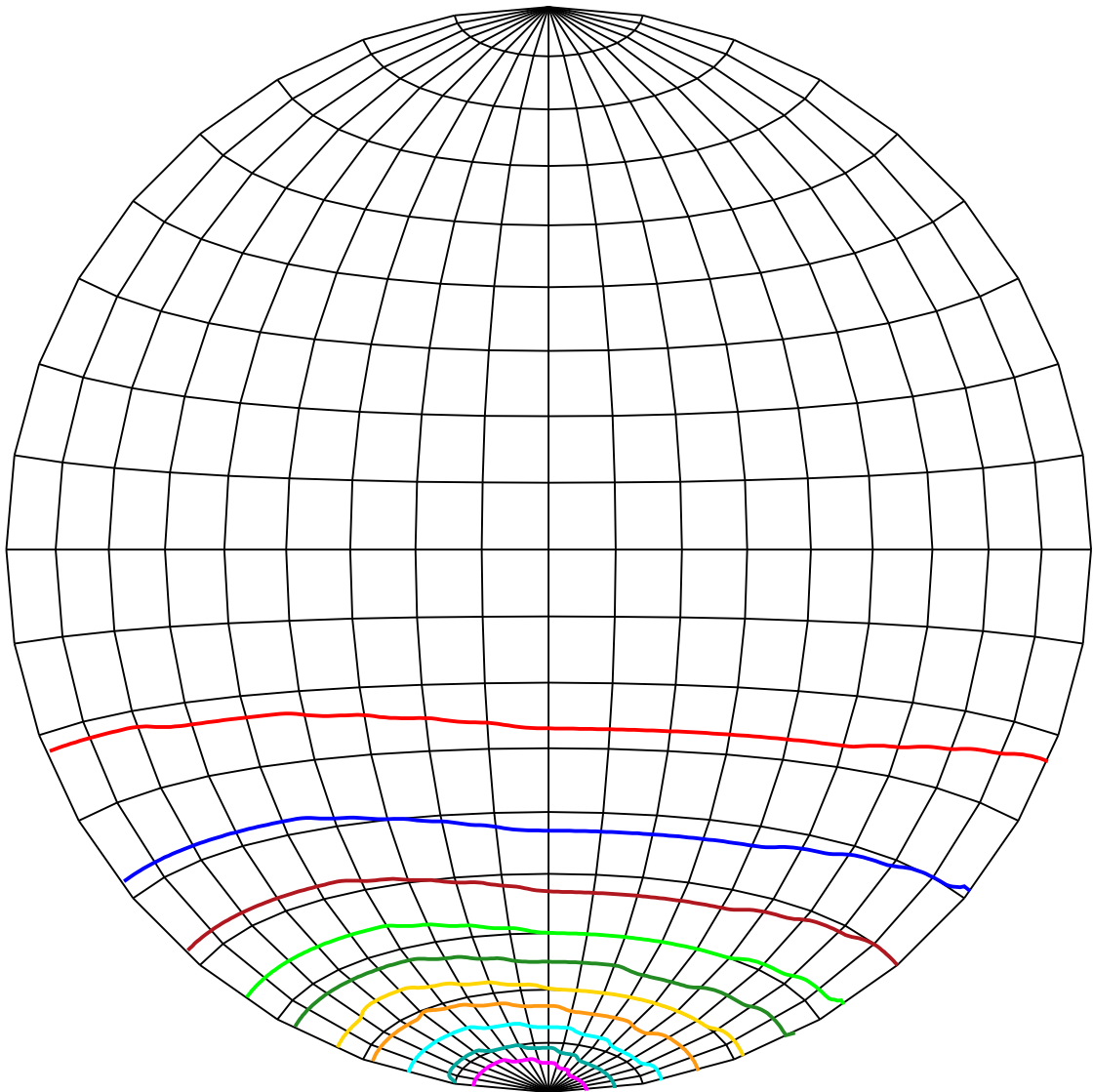
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1952.617 cd

1854.986(95%I_{max})

976.309(50%I_{max})

1757.355(90%I_{max})

781.047(40%I_{max})

1562.094(80%I_{max})

585.785(30%I_{max})

1366.832(70%I_{max})

390.523(20%I_{max})

1171.57(60%I_{max})

195.262(10%I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

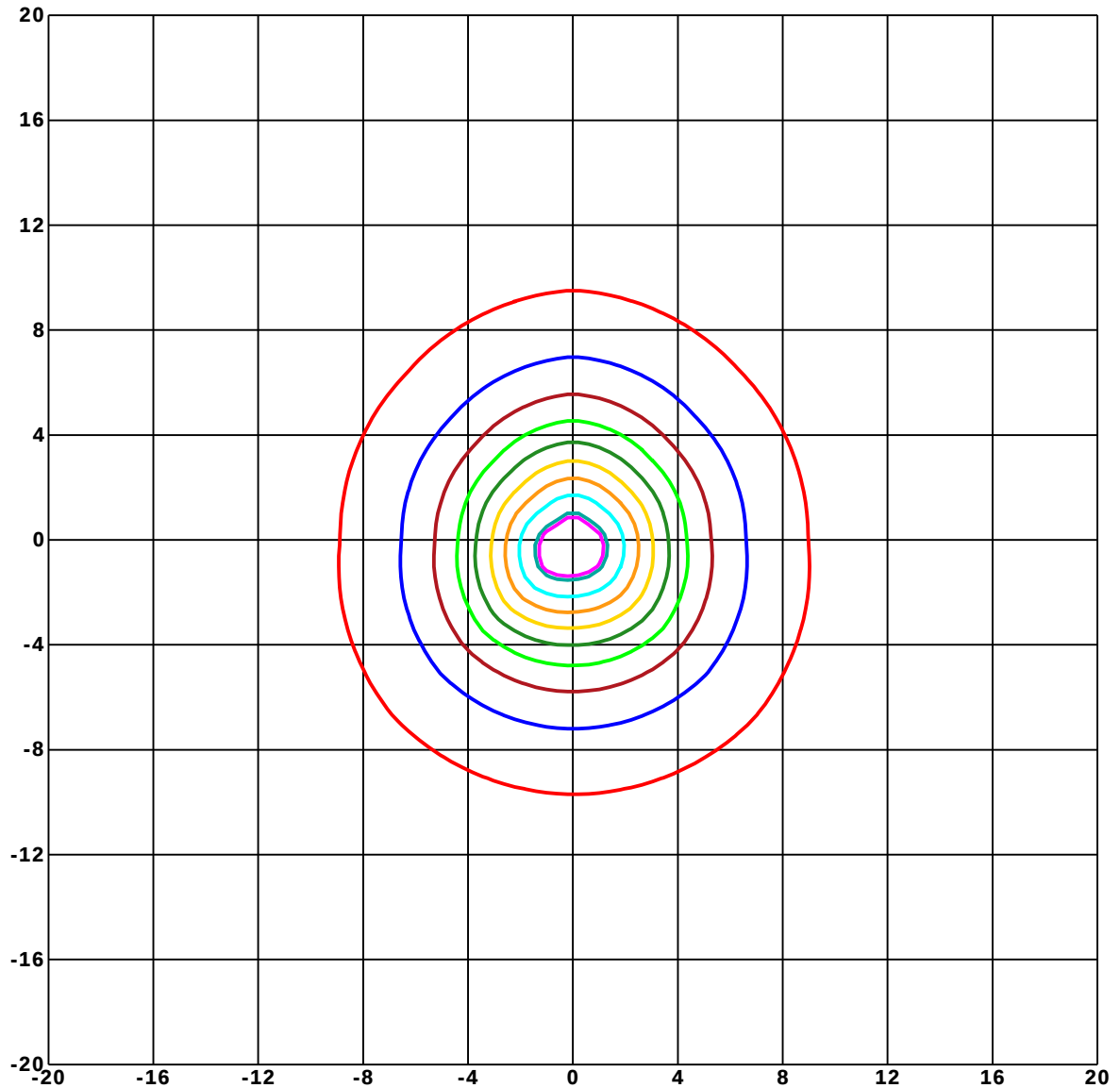
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

ISOLX DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

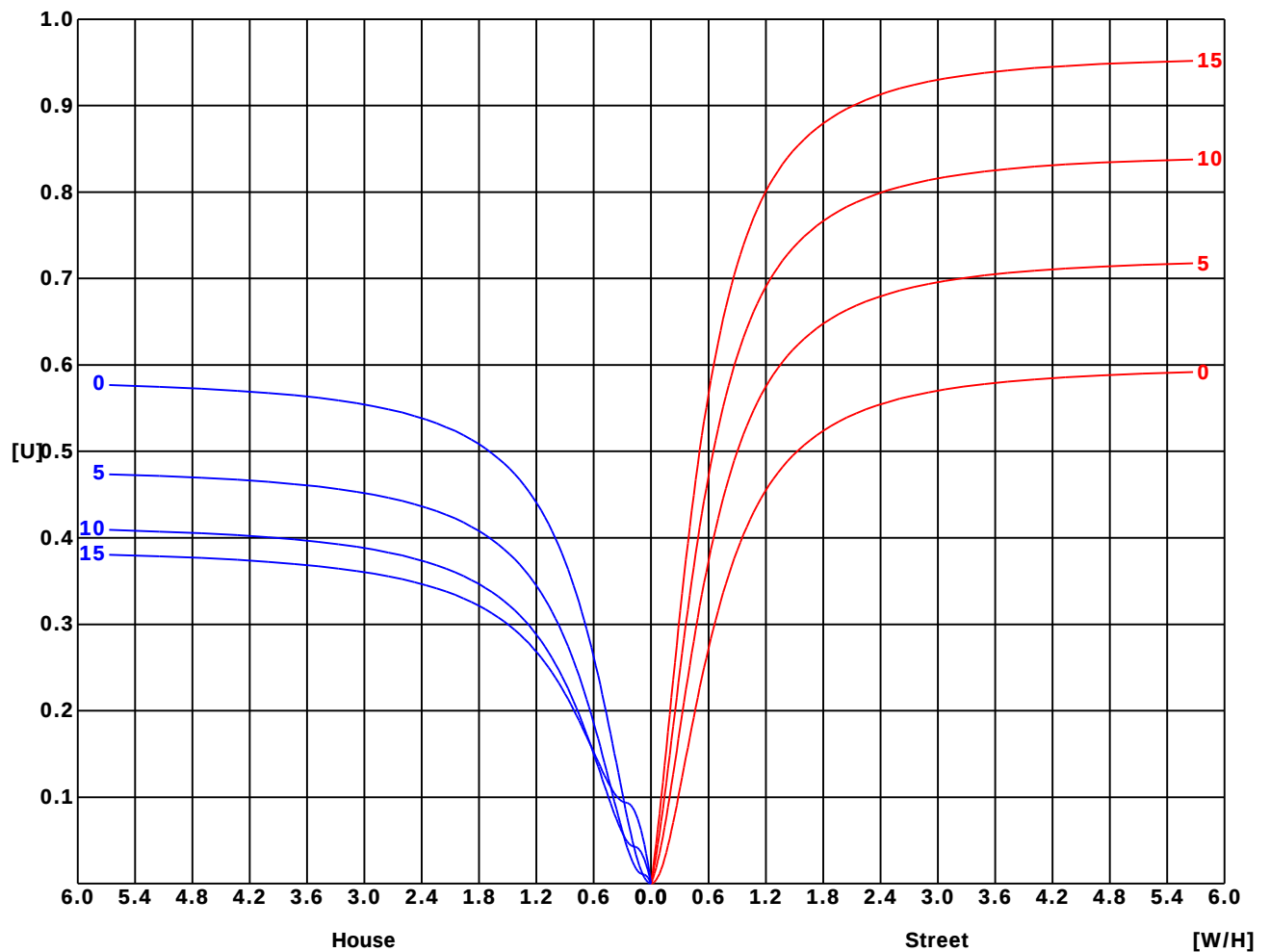
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2024/10/7 14:41:11

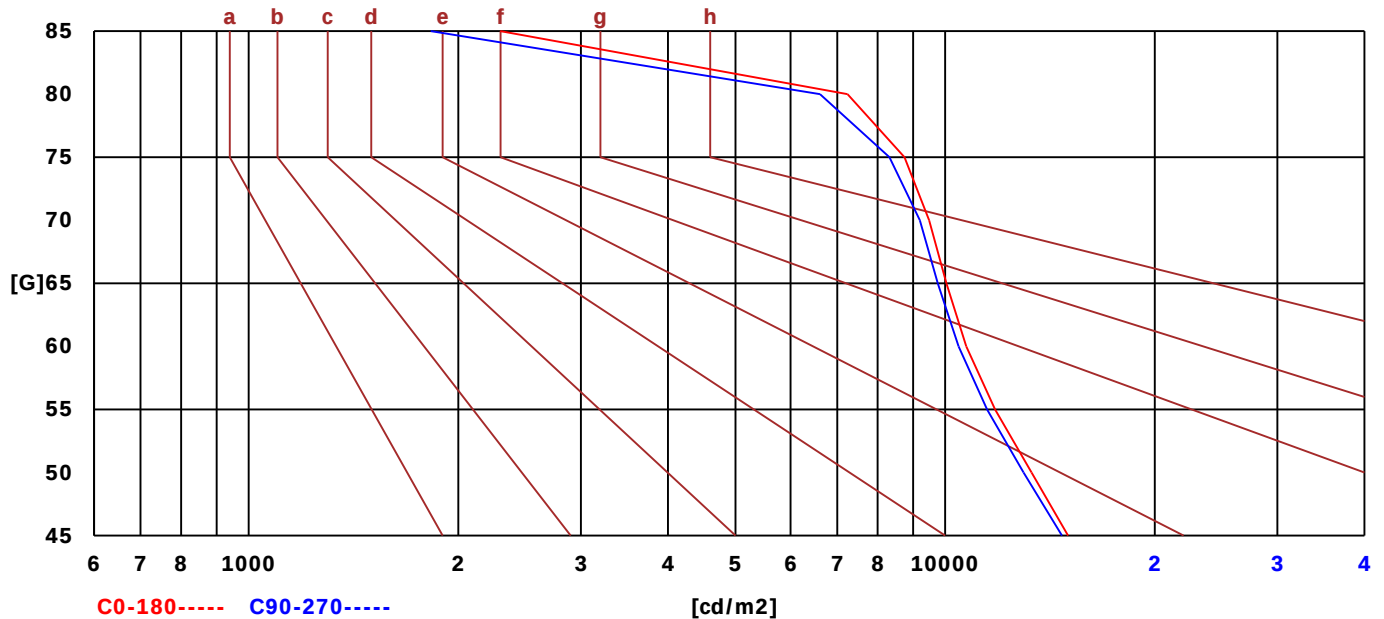
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 6.25 m
Remarks:

Report No.:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15020	13301	11792	10719	10040	9485	8739	7243	2297
C90	14719	12961	11489	10455	9765	9194	8320	6614	1826
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



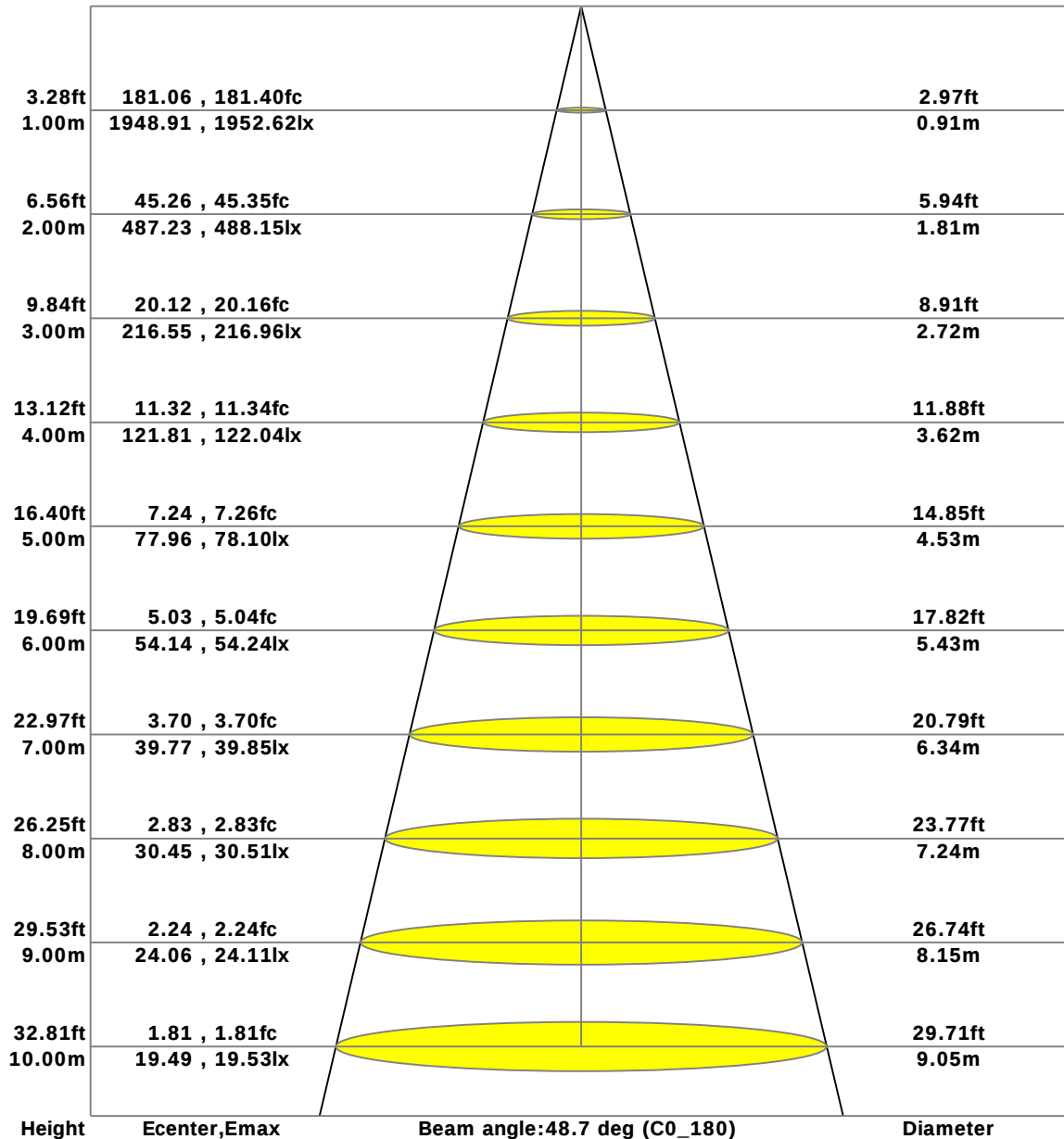
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 6.25 m
Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

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	20.60	21.13	20.56	21.34	21.62	21.06	21.60	21.02	21.81	22.08
3H	20.42	20.92	20.43	21.16	21.47	20.85	21.35	20.86	21.58	21.89
4H	20.28	20.76	20.32	21.01	21.34	20.69	21.17	20.73	21.42	21.76
6H	20.10	20.56	20.18	20.83	21.18	20.51	20.97	20.59	21.23	21.59
8H	20.00	20.45	20.10	20.72	21.10	20.41	20.86	20.51	21.13	21.51
12H	19.90	20.33	20.02	20.62	21.01	20.31	20.74	20.42	21.03	21.41
4H 2H	22.32	22.80	22.36	23.05	23.39	23.04	23.52	23.08	23.77	24.10
3H	22.25	22.68	22.36	22.96	23.35	22.92	23.34	23.03	23.63	24.02
4H	22.14	22.54	22.30	22.84	23.26	22.79	23.18	22.94	23.49	23.91
6H	21.98	22.34	22.18	22.67	23.12	22.61	22.97	22.80	23.29	23.75
8H	21.88	22.22	22.10	22.56	23.03	22.50	22.84	22.72	23.18	23.65
12H	21.78	22.09	22.02	22.44	22.93	22.40	22.71	22.64	23.06	23.55
8H 4H	22.65	23.09	22.74	23.37	23.74	23.56	24.01	23.66	24.28	24.66
6H	22.45	22.74	22.72	23.10	23.61	23.29	23.58	23.56	23.94	24.45
8H	22.36	22.61	22.65	22.99	23.52	23.19	23.45	23.49	23.82	24.36
12H	22.26	22.48	22.58	22.87	23.42	23.09	23.31	23.41	23.69	24.25
12H 4H	22.58	22.89	22.83	23.24	23.73	23.52	23.84	23.77	24.19	24.68
6H	22.46	22.71	22.75	23.08	23.62	23.39	23.64	23.68	24.01	24.55

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

ZONAL LUMINOUS FLUX TABLE-1

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

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Test Time: 2024/10/7 14:41:11

ZONAL LUMINOUS FLUX TABLE-2

Y	C0	C45	C90	C135	C180	C225	C270	C315	Y	φ zonal	φ total	%lum	%lamp
10	1688.5	1592.5	1616.1	1584.8	1717.3	1826.0	1756.8	1761.3	10	172.7	172.7	7.1	7.1
20	1165.5	1131.6	1203.9	1127.9	1184.7	1373.1	1298.6	1321.1	20	407.3	580.0	24.0	24.0
30	766.3	766.9	843.7	757.5	759.3	909.6	897.7	904.0	30	463.3	1043.3	43.1	43.1
40	510.8	519.5	584.6	510.0	497.4	610.6	619.6	625.3	40	426.6	1469.9	60.7	60.7
50	329.1	342.0	393.9	333.2	317.7	398.9	410.3	413.4	50	352.8	1822.7	75.3	75.3
60	216.4	214.4	260.9	209.1	206.8	250.7	270.4	265.7	60	265.8	2088.5	86.2	86.2
70	135.4	129.8	166.9	125.8	126.4	155.7	175.2	164.5	70	188.1	2276.6	94.0	94.0
80	57.7	50.3	79.1	45.9	49.8	77.1	89.6	84.8	80	112.9	2389.5	98.7	98.7
90	3.1	0.0	0.0	0.0	0.7	8.3	7.3	11.1	90	32.0	2421.5	100.0	100.0

Conical surface Flux(90deg) : 1657.1 lm

%lum = 68.4%

%lamp = 68.4%

Conical surface Flux(120deg) : 2088.5 lm

%lum = 86.2%

%lamp = 86.2%

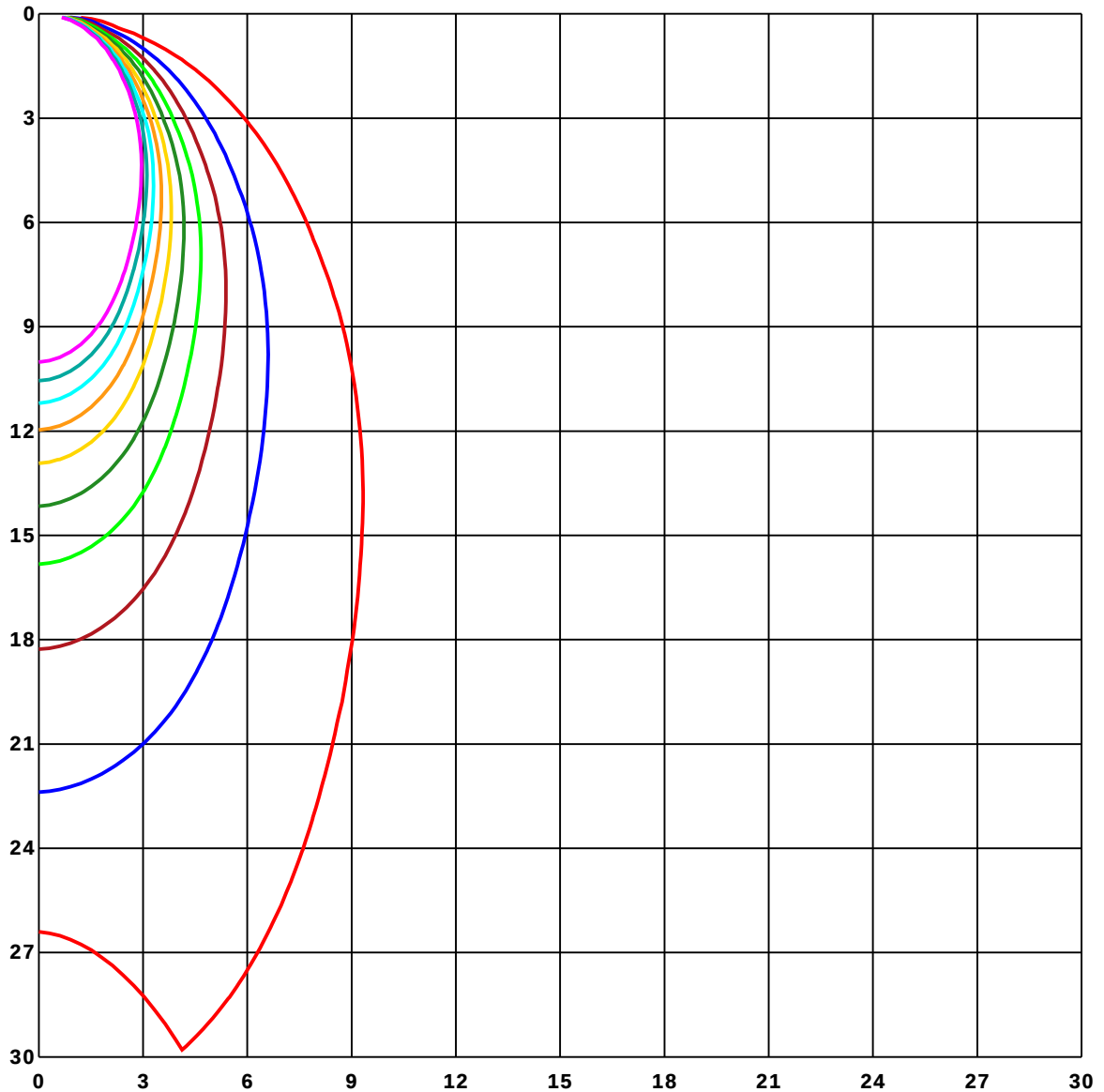
C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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 Humidity:
 Test Distance: 6.25 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

19.447
 17.503
 15.558
 13.613
 11.668

9.724
 7.779
 5.834
 3.889
 1.945

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1948.91	1929.88	1942.5	1931.88	1948.91	1929.88	1942.5	1931.88	1948.91	
G1	1943.32	1912.42	1927.77	1915.12	1949.26	1942.23	1950.66	1941.91	1943.32	
G2	1932.38	1890.35	1907.5	1892.7	1944.26	1949.92	1952.62	1945.43	1932.38	
G3	1916.56	1864.1	1882.31	1865.51	1933.44	1952.31	1948.36	1942.7	1916.56	
G4	1895.74	1832.7	1852.66	1833.75	1916.84	1948.87	1936.6	1933.52	1895.74	
G5	1871.09	1798.75	1817.77	1797.31	1895.31	1940.47	1918.63	1917.85	1871.09	
G6	1842.03	1761.37	1780.7	1759.3	1868.36	1927.03	1894.45	1896.68	1842.03	
G7	1809.1	1722.31	1741.64	1717.27	1838.13	1909.26	1865.9	1869.06	1809.1	
G8	1772.23	1679.92	1700.12	1674.41	1801.88	1886.56	1832.77	1836.68	1772.23	
G9	1732.11	1637.07	1658.13	1630.47	1762.11	1858.4	1795.31	1800.43	1732.11	
G10	1688.52	1592.5	1616.13	1584.84	1717.34	1825.98	1756.8	1761.25	1688.52	
G11	1643.05	1547.34	1573.56	1538.87	1670.0	1789.41	1714.69	1718.95	1643.05	
G12	1593.05	1501.13	1531.84	1491.95	1618.83	1748.2	1671.64	1677.07	1593.05	
G13	1541.48	1454.65	1488.75	1445.35	1566.13	1704.38	1626.29	1633.2	1541.48	
G14	1486.56	1407.54	1448.32	1399.81	1510.43	1659.77	1581.25	1589.38	1486.56	
G15	1434.18	1360.16	1406.48	1352.27	1455.2	1613.24	1535.31	1546.13	1434.18	
G16	1378.52	1312.42	1365.27	1306.72	1399.53	1566.21	1488.05	1505.31	1378.52	
G17	1324.57	1267.73	1324.18	1261.76	1343.67	1520.12	1440.43	1462.7	1324.57	
G18	1270.12	1221.48	1284.3	1217.11	1289.88	1471.88	1393.01	1418.75	1270.12	
G19	1217.54	1176.88	1243.2	1171.88	1237.5	1424.1	1345.35	1370.04	1217.54	
G20	1165.47	1131.6	1203.87	1127.93	1184.69	1373.13	1298.56	1321.09	1165.47	
G21	1117.46	1088.67	1163.24	1085.16	1134.69	1319.84	1252.23	1274.02	1117.46	
G22	1071.13	1049.88	1125.16	1043.98	1086.02	1264.92	1207.15	1226.95	1071.13	
G23	1023.87	1008.05	1087.15	1004.26	1038.95	1212.77	1162.34	1180.9	1023.87	
G24	986.33	968.95	1051.76	963.91	995.04	1161.37	1119.06	1135.63	986.33	
G25	940.98	930.31	1012.77	924.3	950.78	1114.38	1081.76	1093.13	940.98	
G26	904.02	896.13	977.77	886.02	909.8	1073.28	1041.21	1053.59	904.02	
G27	868.71	859.65	943.98	853.05	868.55	1026.45	1002.66	1014.69	868.71	
G28	833.2	827.42	907.62	820.27	829.18	985.63	966.84	975.2	833.2	
G29	797.97	795.63	877.3	789.61	792.3	946.25	932.27	938.79	797.97	
G30	766.33	766.91	843.71	757.5	759.3	909.57	897.7	904.02	766.33	
G31	735.04	738.63	814.65	730.47	725.55	871.09	868.55	870.94	735.04	
G32	706.29	710.59	786.05	702.46	696.45	838.28	834.69	838.59	706.29	
G33	678.28	684.02	757.58	676.6	665.59	802.97	806.8	809.22	678.28	
G34	653.05	659.37	728.32	648.95	639.06	773.2	775.43	779.26	653.05	
G35	625.59	634.22	703.36	623.2	611.48	744.02	747.85	752.7	625.59	
G36	602.15	609.61	678.28	597.77	587.46	715.82	720.78	724.84	602.15	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	577.3	584.8	654.45	574.3	562.77	686.95	694.1	699.65	577.3	
G38	553.52	564.77	630.0	550.9	539.65	661.45	671.6	675.86	553.52	
G39	530.39	540.27	607.19	530.55	516.68	636.45	645.2	648.75	530.39	
G40	510.82	519.49	584.65	509.96	497.38	610.63	619.57	625.31	510.82	
G41	488.4	499.84	564.57	489.41	476.02	584.49	596.02	598.4	488.4	
G42	468.83	480.31	542.93	470.63	456.99	560.98	572.77	574.49	468.83	
G43	448.98	460.2	523.48	452.54	436.52	536.88	551.68	552.11	448.98	
G44	431.17	442.77	503.09	432.62	418.32	515.9	527.97	528.48	431.17	
G45	411.37	424.84	484.73	416.33	399.34	492.77	507.15	508.79	411.37	
G46	393.55	408.67	464.53	397.46	382.62	472.7	486.48	487.77	393.55	
G47	375.63	389.88	447.42	382.03	365.63	453.05	466.33	468.83	375.63	
G48	359.8	373.87	428.32	364.45	348.98	434.3	446.88	450.39	359.8	
G49	343.52	357.5	412.3	348.05	332.27	416.91	427.93	432.07	343.52	
G50	329.1	341.99	393.91	333.24	317.73	398.91	410.27	413.36	329.1	
G51	314.8	327.5	378.95	318.4	304.65	381.72	392.93	397.11	314.8	
G52	302.97	312.62	363.16	303.28	291.52	365.47	376.45	379.88	302.97	
G53	290.51	298.01	348.05	289.84	278.63	348.63	361.41	363.67	290.51	
G54	278.2	284.41	333.75	276.02	267.19	334.06	346.6	347.58	278.2	
G55	267.15	270.55	320.74	263.59	255.51	318.63	333.2	333.13	267.15	
G56	256.33	258.16	307.5	251.52	245.63	303.44	319.06	317.97	256.33	
G57	245.82	246.33	295.12	240.23	234.61	289.22	306.21	304.49	245.82	
G58	235.35	235.39	283.52	228.87	225.43	276.02	294.3	290.31	235.35	
G59	226.13	224.38	271.84	219.34	215.51	262.62	282.3	277.46	226.13	
G60	216.41	214.38	260.86	209.1	206.76	250.7	270.35	265.66	216.41	
G61	207.46	204.73	250.27	199.77	197.93	239.49	259.88	253.13	207.46	
G62	198.83	195.63	239.88	190.43	189.69	228.98	249.02	241.29	198.83	
G63	190.27	186.33	230.27	182.15	181.33	218.48	238.71	230.55	190.27	
G64	181.76	178.2	220.55	173.32	173.48	208.79	227.93	219.96	181.76	
G65	172.89	169.73	211.45	165.08	165.27	199.02	218.28	210.31	172.89	
G66	165.16	161.84	201.95	156.95	157.34	190.08	208.59	200.39	165.16	
G67	157.38	153.95	193.24	149.38	149.3	180.74	200.16	191.02	157.38	
G68	150.16	146.02	184.1	141.05	141.99	172.27	191.8	181.68	150.16	
G69	142.62	138.09	175.66	133.32	133.71	163.59	183.4	173.36	142.62	
G70	135.39	129.77	166.88	125.78	126.37	155.66	175.16	164.45	135.39	
G71	127.58	122.23	158.05	117.62	118.2	147.19	167.19	156.48	127.58	
G72	120.55	114.22	149.34	109.53	110.78	139.1	158.59	147.77	120.55	
G73	112.77	106.13	140.59	101.37	102.85	131.05	150.39	139.84	112.77	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/10/7 14:41:11

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/10/7 14:41:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks: