

Report No.:

Test Time: 2024/9/13 14:53:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
Luminaire Type: L-D332-6-30K-35-BK
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

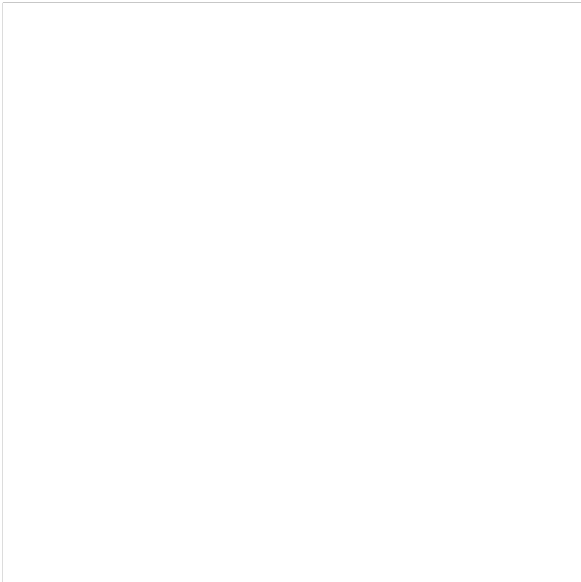
Voltage(V): 220.88 V
Current(A): 0.1185 A
Power(W): 14.48 W
Power Factor: 0.5527
Lamp Luminous Flux: 1040.35

Photometric Results

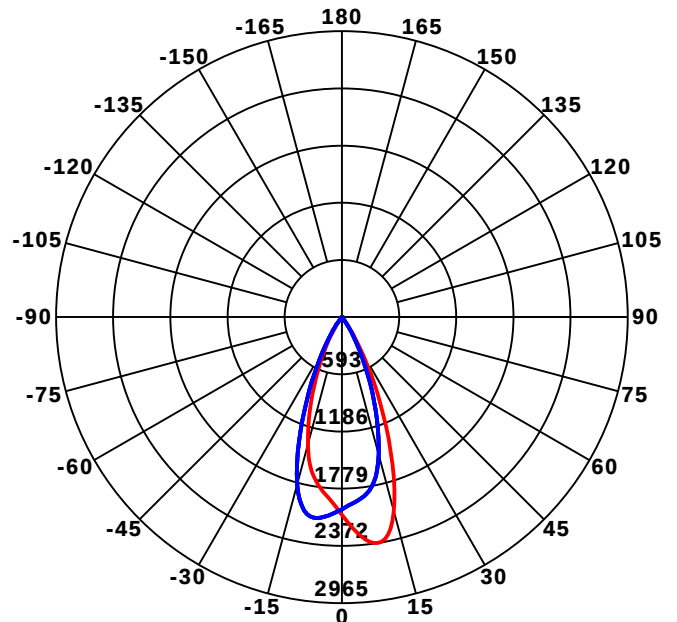
CIE Class: Direct
Luminaire Luminous Flux: 1040.347 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 71.85 lm/W
Beam Angle(50%) C0-180,C90-270: 39.4,41.5
Field Angle(10%) C0-180,C90-270: 63.2,64.4
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 2372.40 cd
Max.Intensity Angle: C=0 Gamma=9
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2049.86 cd
Effective Luminous Flux: 986.39 lm
ERP(ϕ use)(120deg): 1040.35 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.4 deg,41.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

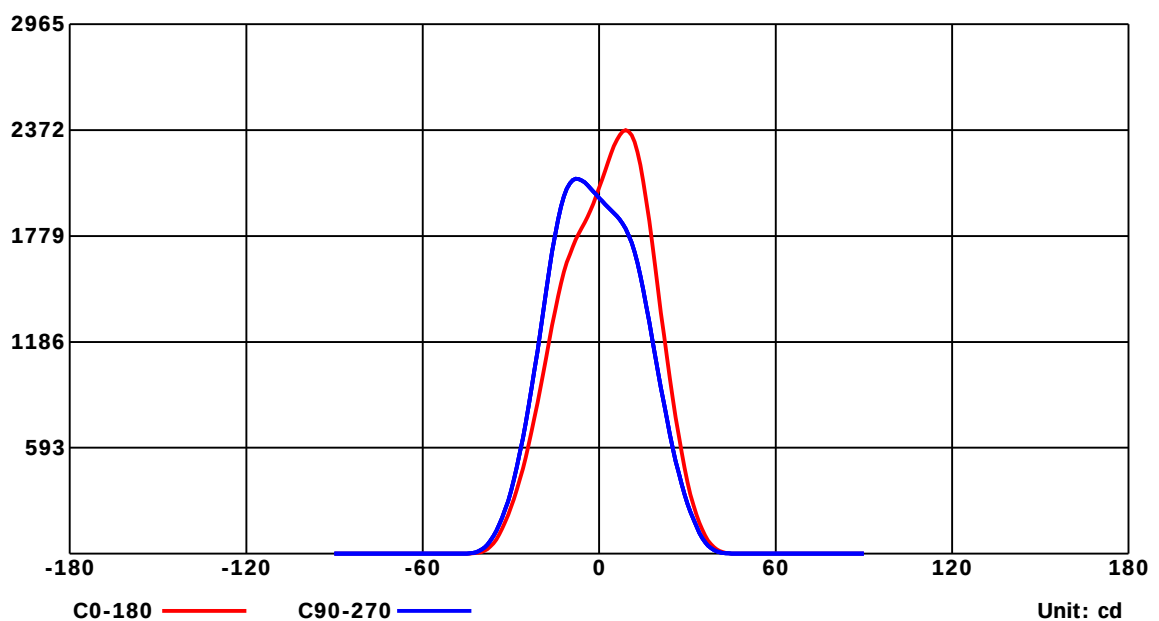
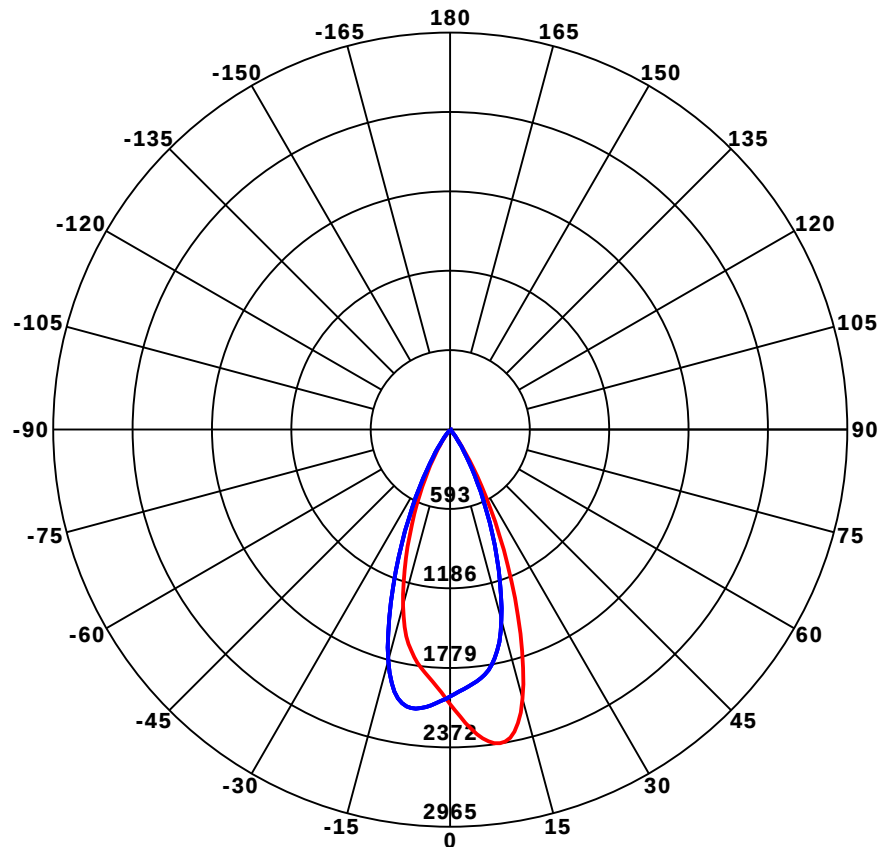
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

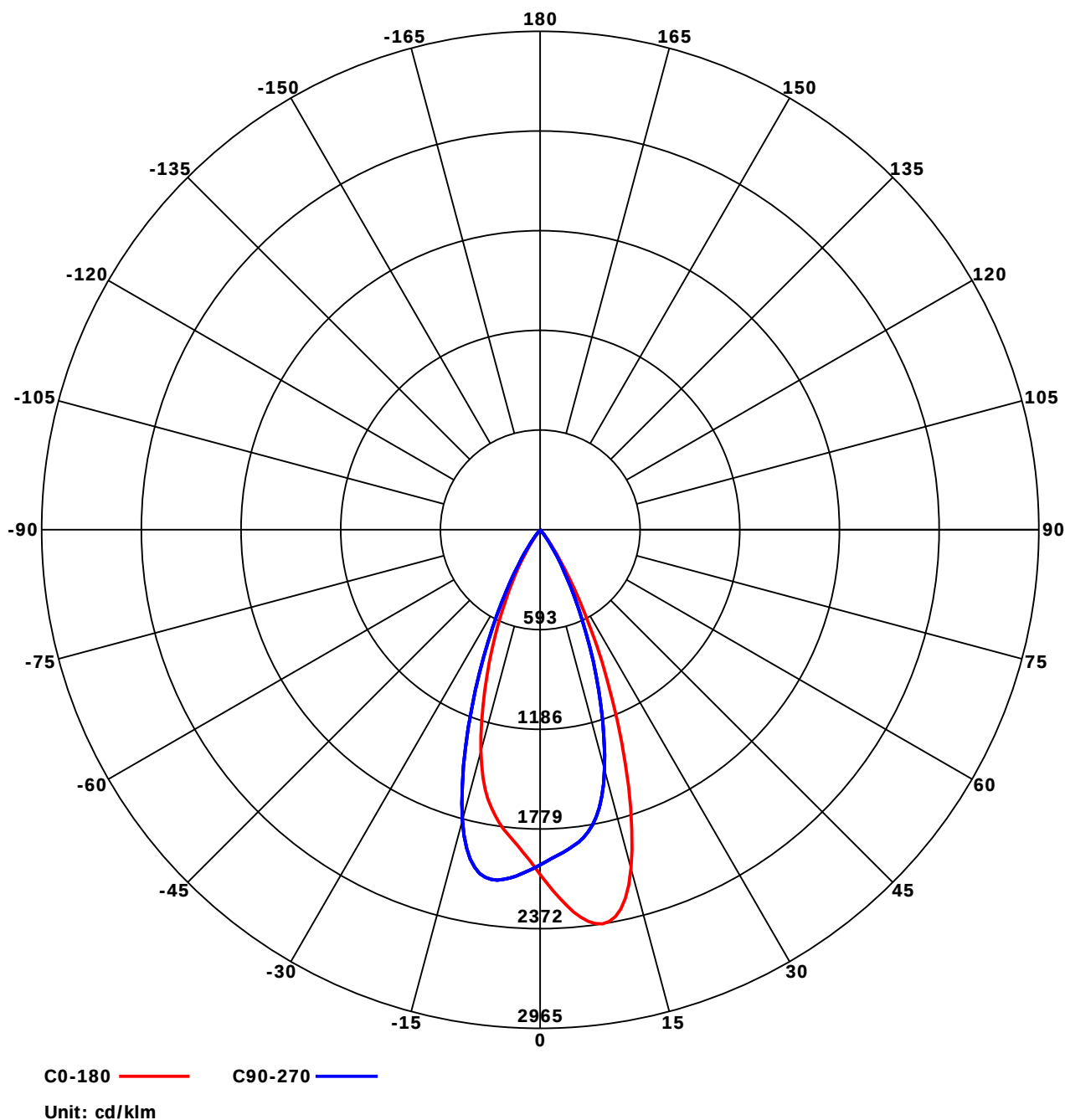
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

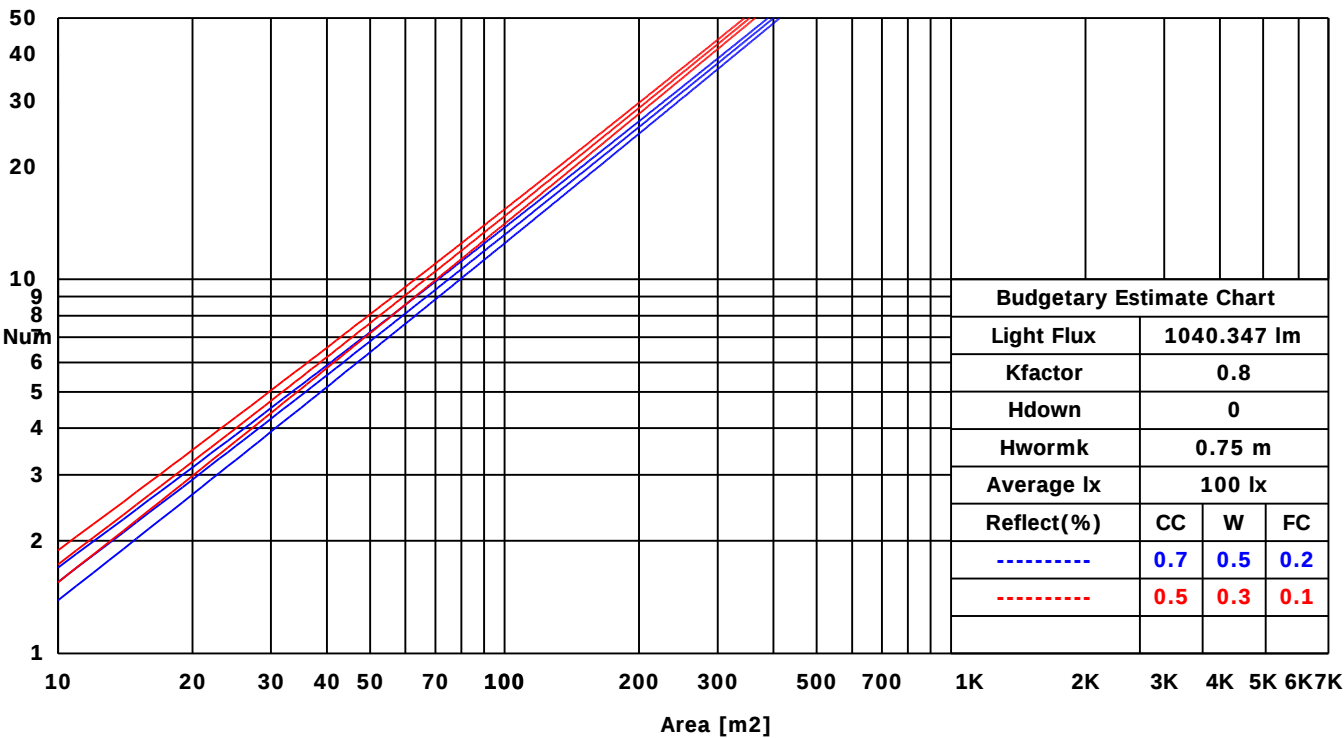
Test Distance: 7.91 m

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	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.84	0.84	0.81	0.78	0.73
3	0.95	0.93	0.92	0.94	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.74	0.70
5	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.83	0.80	0.78	0.80	0.76	0.73	0.69
6	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.76	0.78	0.75	0.71	0.68
7	0.87	0.85	0.85	0.86	0.84	0.83	0.83	0.80	0.79	0.80	0.77	0.74	0.77	0.73	0.70	0.67
8	0.85	0.84	0.83	0.84	0.82	0.81	0.81	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.65
9	0.83	0.82	0.82	0.82	0.81	0.80	0.80	0.77	0.76	0.77	0.74	0.72	0.74	0.70	0.68	0.64
10	0.82	0.81	0.80	0.81	0.79	0.78	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.69	0.66	0.63

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

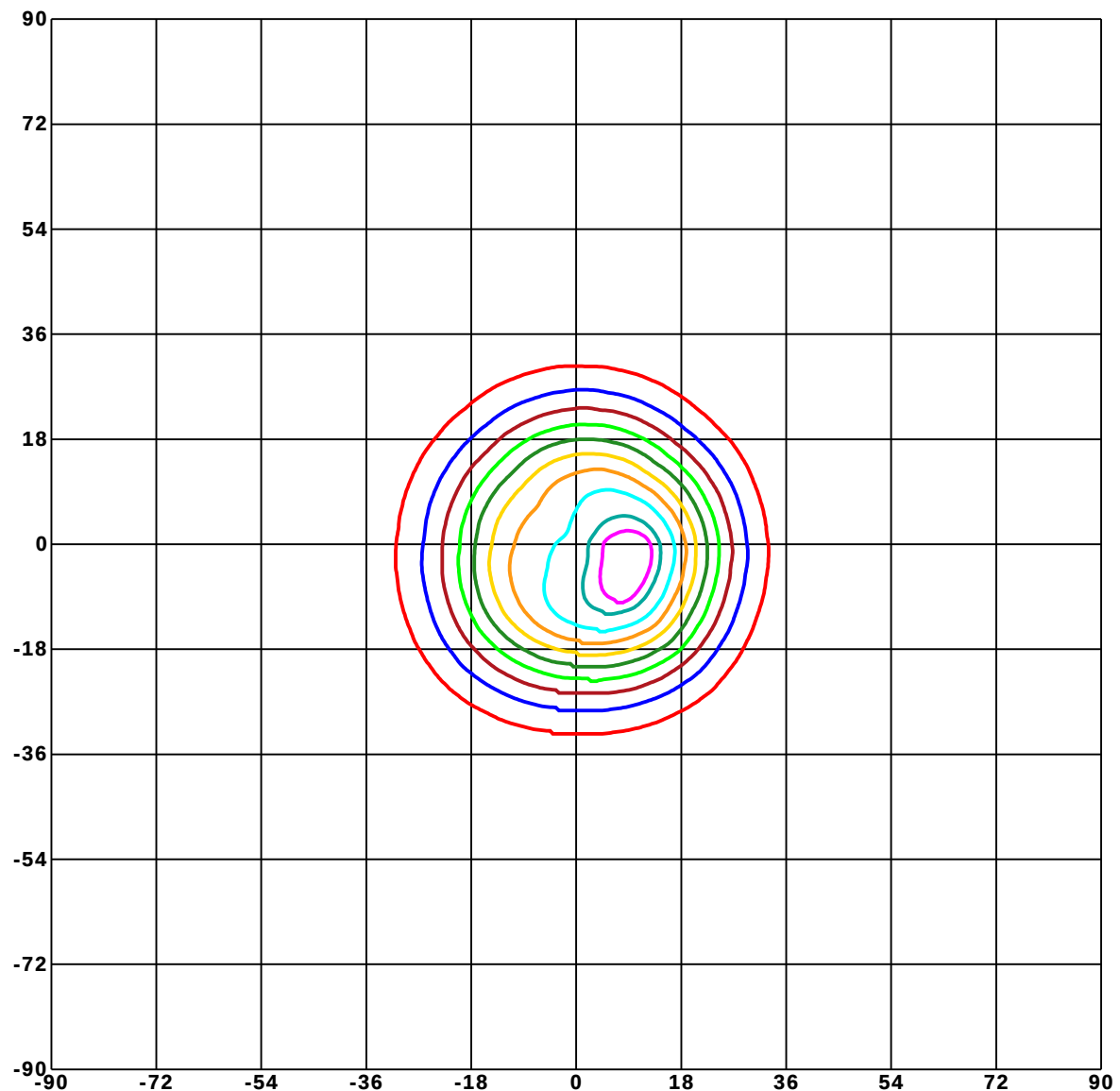
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

ISOCANDELA DIAGRAM (RECTANGULAR)


Unit of intensity:cd I_{max}(100%): 2372.395 cd

2253.775(95%I_{max})

1186.197(50%I_{max})

2135.155(90%I_{max})

948.958(40%I_{max})

1897.916(80%I_{max})

711.718(30%I_{max})

1660.676(70%I_{max})

474.479(20%I_{max})

1423.437(60%I_{max})

237.24(10%I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

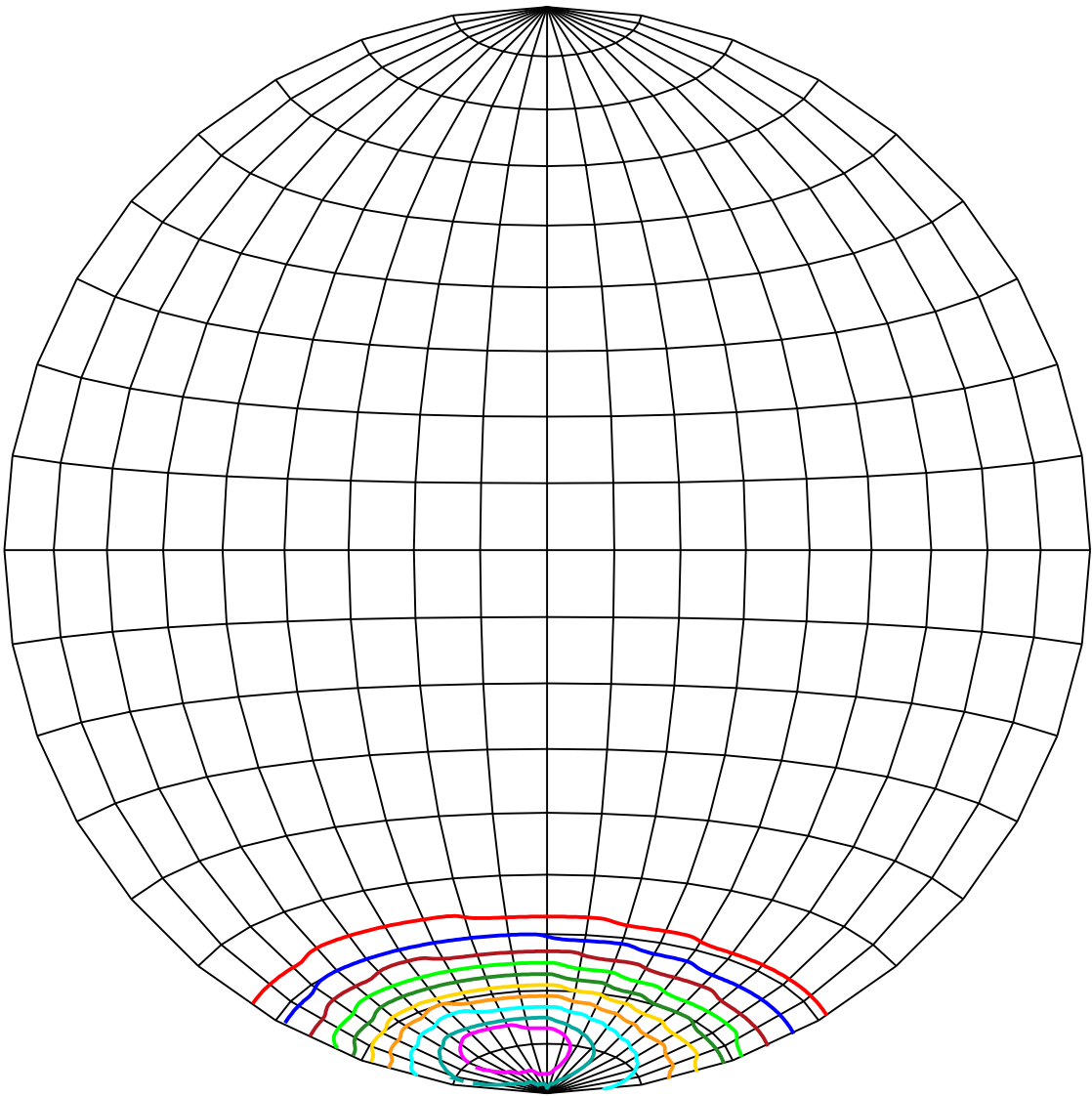
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2372.395 cd

2253.775(95%I _{max})	1186.197(50%I _{max})
2135.155(90%I _{max})	948.958(40%I _{max})
1897.916(80%I _{max})	711.718(30%I _{max})
1660.676(70%I _{max})	474.479(20%I _{max})
1423.437(60%I _{max})	237.24(10%I _{max})

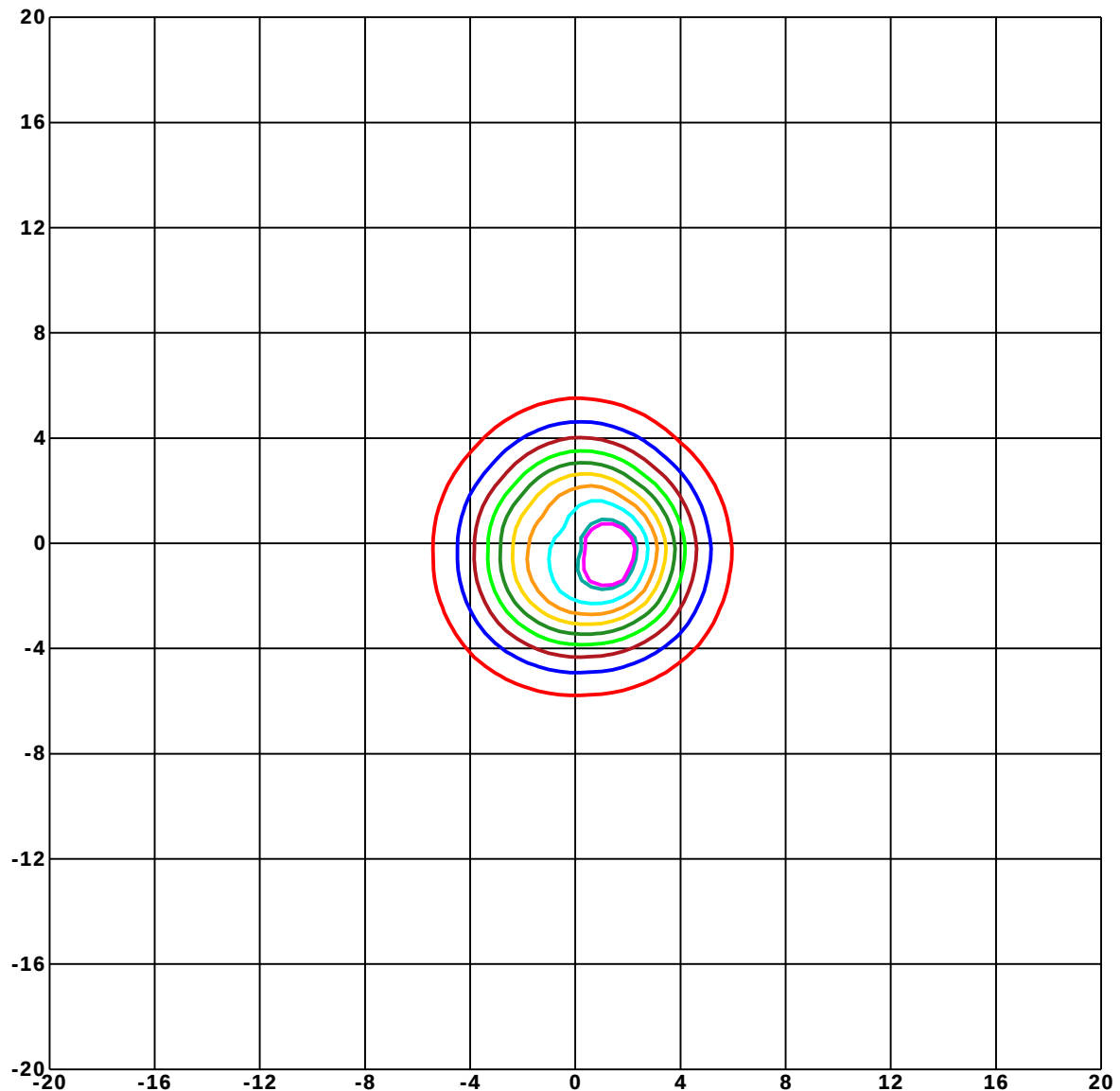
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 7.91 m
Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

ISOLX DIAGRAM



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

21.132(92%Emax)	11.485(50%Emax)
20.672(90%Emax)	9.188(40%Emax)
18.375(80%Emax)	6.891(30%Emax)
16.079(70%Emax)	4.594(20%Emax)
13.782(60%Emax)	2.297(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

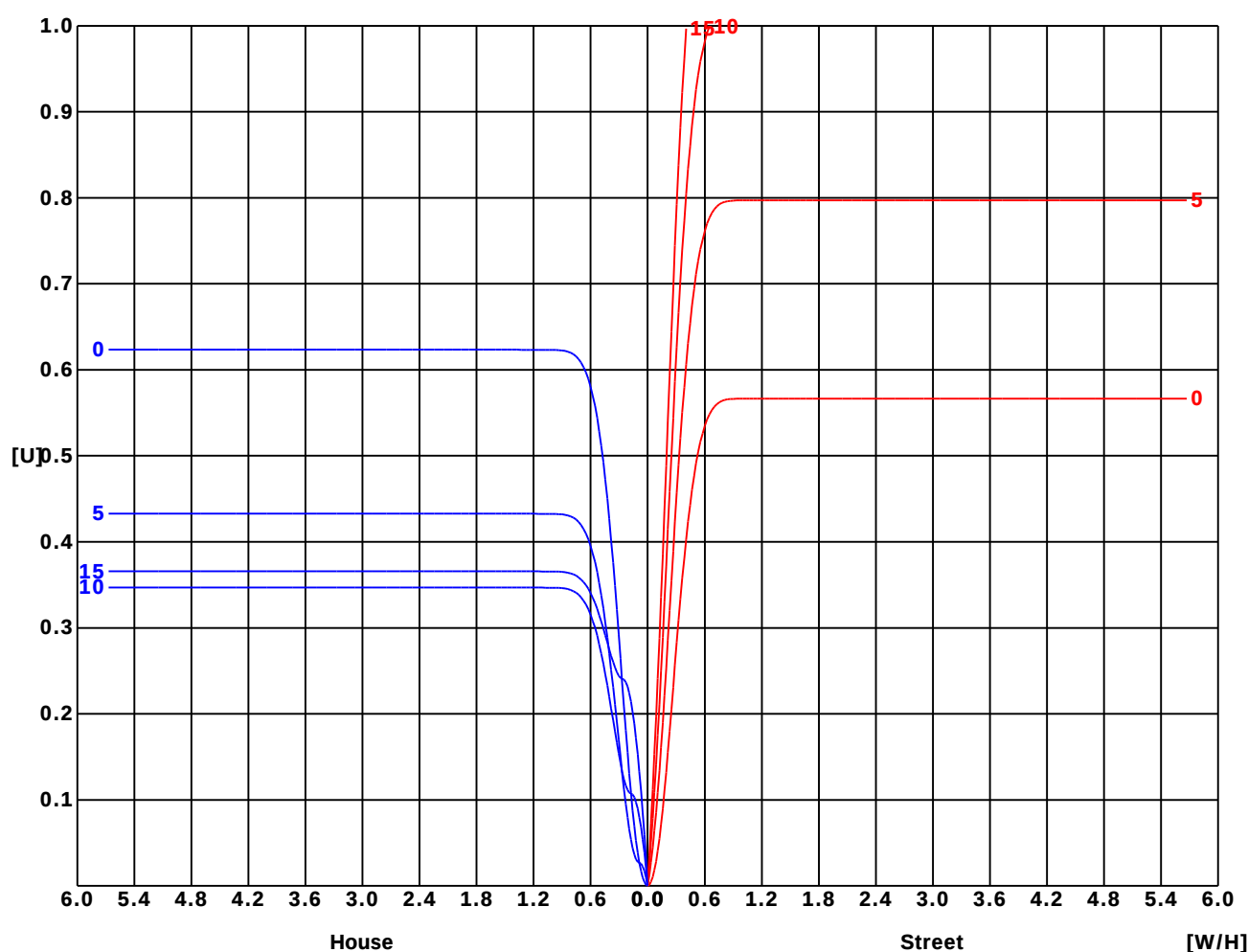
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

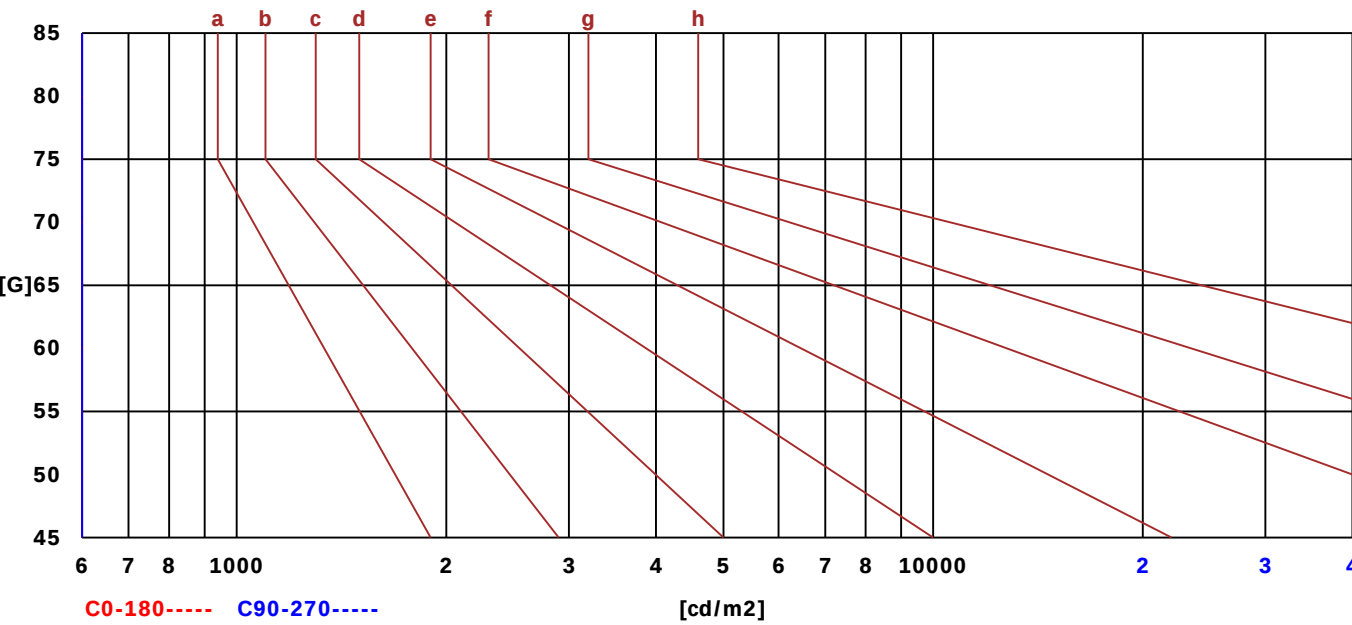
Humidity:

Test Distance: 7.91 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: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

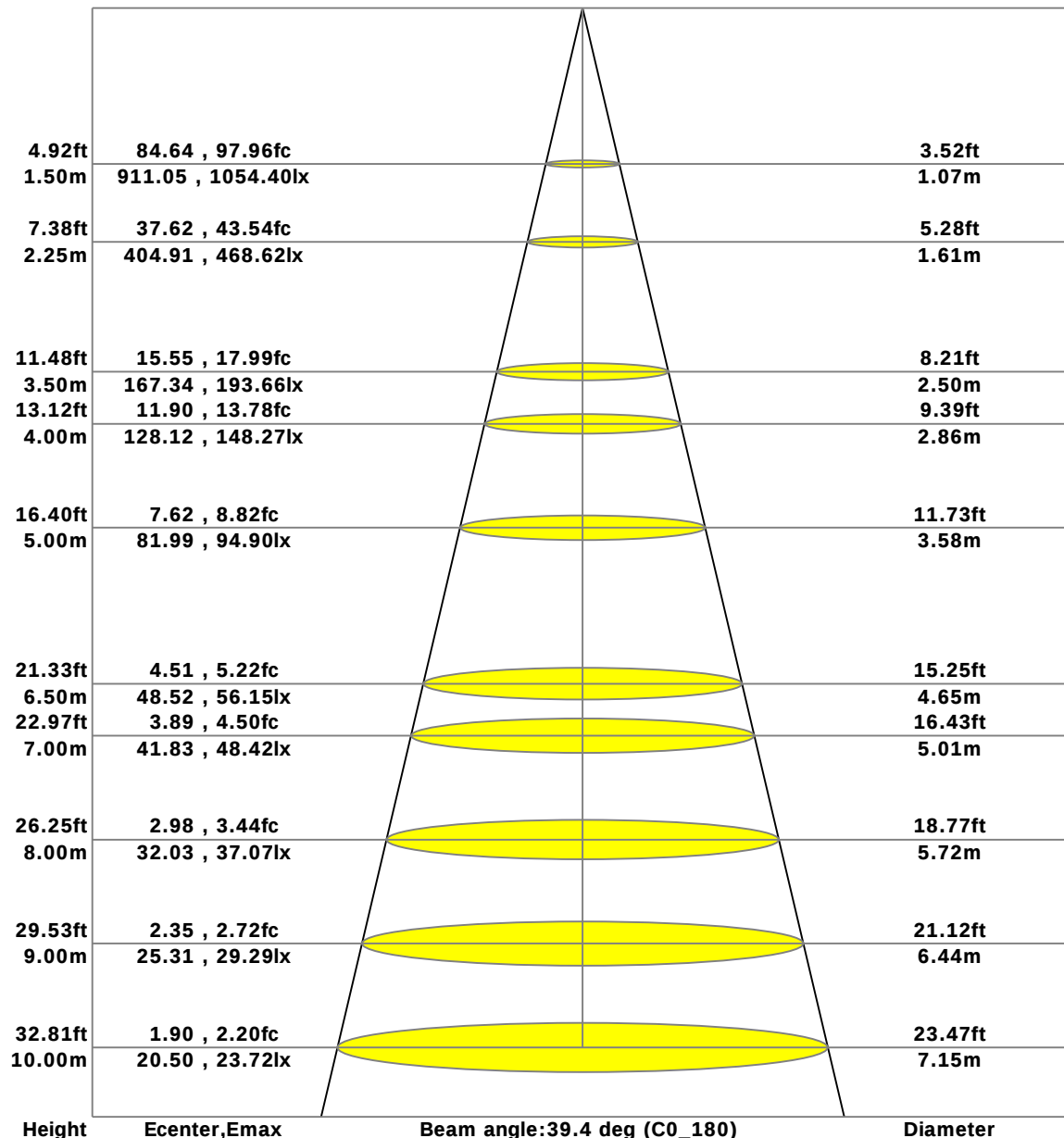
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

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	4.05	4.10	4.25	4.29	4.53	4.05	4.10	4.25	4.29	4.53
3H	4.03	4.08	4.24	4.27	4.52	4.03	4.08	4.24	4.27	4.52
4H	4.02	4.07	4.23	4.27	4.51	4.02	4.07	4.23	4.27	4.51
6H	4.01	4.06	4.22	4.26	4.51	4.01	4.06	4.22	4.26	4.51
8H	4.00	4.05	4.22	4.25	4.50	4.00	4.05	4.22	4.25	4.50
12H	3.99	4.04	4.21	4.25	4.50	3.99	4.04	4.21	4.25	4.50
4H 2H	4.02	4.07	4.23	4.27	4.51	4.02	4.07	4.23	4.27	4.51
3H	3.99	4.04	4.21	4.25	4.50	3.99	4.04	4.21	4.25	4.50
4H	3.97	4.02	4.20	4.23	4.49	3.97	4.02	4.20	4.23	4.49
6H	3.95	4.00	4.19	4.22	4.49	3.95	4.00	4.19	4.22	4.49
8H	3.94	3.99	4.18	4.22	4.48	3.94	3.99	4.18	4.22	4.48
12H	3.93	3.98	4.18	4.21	4.48	3.93	3.98	4.18	4.21	4.48
8H 4H	4.00	4.05	4.22	4.25	4.50	4.00	4.05	4.22	4.25	4.50
6H	3.92	3.96	4.17	4.20	4.47	3.92	3.96	4.17	4.20	4.47
8H	3.90	3.95	4.16	4.19	4.47	3.90	3.95	4.16	4.19	4.47
12H	3.89	3.93	4.16	4.18	4.46	3.89	3.93	4.16	4.18	4.46
12H 4H	3.93	3.98	4.18	4.21	4.48	3.93	3.98	4.18	4.21	4.48
6H	3.90	3.95	4.16	4.19	4.47	3.90	3.95	4.16	4.19	4.47

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

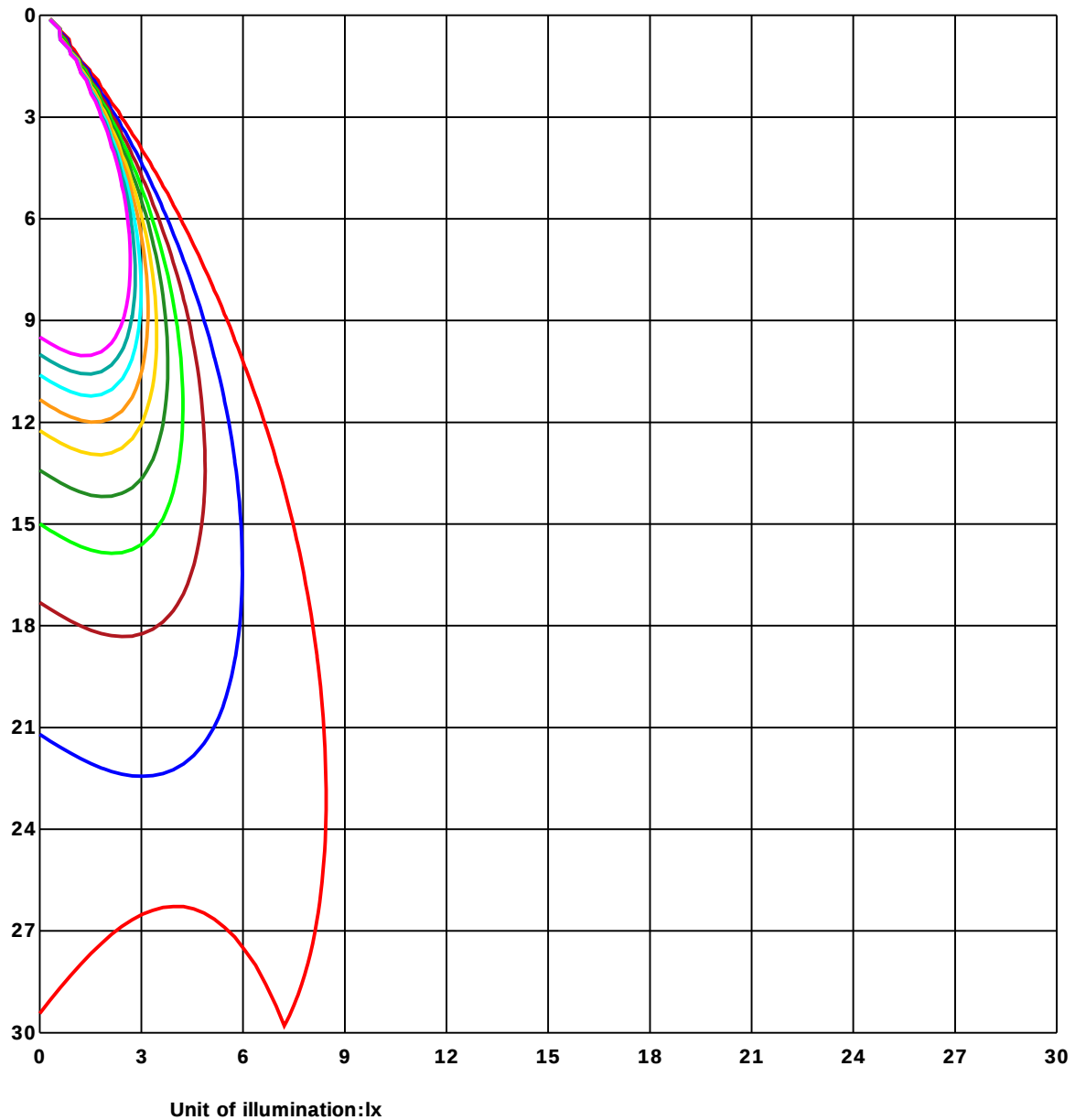
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

SPACE ISOLX DIAGRAM



22.805
 20.524
 18.244
 15.963
 13.683

11.402
 9.122
 6.841
 4.561
 2.28

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

LUMINOUS DISTRIBUTION INTENSITY DATA

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2049.86	2017.63	1992.86	1978.15	2049.86	2017.63	1992.86	1978.15	2049.86	
G1	2097.6	2038.97	1974.21	1934.61	2004.93	1999.05	2011.82	2022.26	2097.6	
G2	2145.27	2059.18	1956.57	1894.31	1959.95	1980.53	2028.9	2068.44	2145.27	
G3	2193.7	2078.01	1940.42	1858.46	1922.47	1963.14	2046.48	2116.87	2193.7	
G4	2239.81	2092.59	1924.03	1824.17	1885.87	1944.99	2064.43	2164.73	2239.81	
G5	2282.74	2102.6	1908.08	1792.7	1854.14	1929.66	2079.45	2208.65	2282.74	
G6	2318.34	2107.17	1890.81	1760.35	1822.98	1914.46	2091.09	2250.07	2318.34	
G7	2346.37	2103.1	1871.35	1731.2	1792.26	1898.57	2098.97	2287.68	2346.37	
G8	2365.32	2089.71	1848.07	1699.29	1758.54	1882.11	2099.41	2317.46	2365.32	
G9	2372.4	2065.06	1819.98	1662.94	1719.62	1861.28	2092.59	2335.86	2372.4	
G10	2364.95	2028.9	1784.32	1622.7	1676.64	1834.37	2075.2	2342.11	2364.95	
G11	2343.86	1981.28	1741.02	1574.4	1631.65	1802.27	2045.16	2332.98	2343.86	
G12	2306.51	1918.53	1688.9	1518.22	1577.47	1761.86	2001.24	2307.57	2306.51	
G13	2249.57	1842.19	1627.77	1452.02	1513.9	1712.74	1943.93	2264.53	2249.57	
G14	2176.24	1754.22	1555.88	1378.25	1441.19	1653.17	1872.98	2202.52	2176.24	
G15	2084.14	1657.99	1477.42	1298.73	1363.42	1584.54	1788.07	2121.43	2084.14	
G16	1979.97	1556.44	1390.26	1215.2	1279.08	1506.26	1691.84	2024.02	1979.97	
G17	1862.78	1448.14	1297.29	1128.92	1191.05	1421.3	1585.16	1916.34	1862.78	
G18	1739.52	1337.46	1202.31	1040.26	1102.07	1330.76	1476.23	1800.15	1739.52	
G19	1612.63	1229.53	1110.4	954.23	1015.36	1237.22	1363.67	1676.2	1612.63	
G20	1481.3	1123.6	1018.05	869.63	931.26	1142.62	1249.99	1551.0	1481.3	
G21	1349.59	1019.17	928.95	785.61	846.55	1050.83	1137.43	1424.86	1349.59	
G22	1223.58	918.0	839.6	704.39	763.08	960.3	1030.06	1300.23	1223.58	
G23	1101.39	820.96	754.7	629.31	686.12	872.39	928.07	1176.66	1101.39	
G24	983.45	727.98	670.1	558.73	611.17	786.11	829.28	1058.4	983.45	
G25	871.26	637.51	591.58	492.04	540.46	704.2	734.05	947.16	871.26	
G26	764.08	551.73	519.13	428.84	475.58	625.99	645.39	838.79	764.08	
G27	662.91	472.14	451.74	370.97	415.39	551.23	563.36	733.36	662.91	
G28	568.93	399.87	389.42	318.03	358.95	481.4	486.28	635.5	568.93	
G29	480.77	334.43	331.92	269.98	306.58	416.58	415.64	546.22	480.77	
G30	402.06	276.18	280.43	224.81	261.66	357.08	351.26	463.82	402.06	
G31	331.74	226.81	235.82	184.08	217.67	301.83	295.2	386.23	331.74	
G32	271.36	182.57	192.83	146.28	176.88	254.03	246.27	318.72	271.36	
G33	219.05	142.84	153.92	112.56	140.22	211.1	201.91	262.66	219.05	
G34	174.88	108.74	117.57	82.97	107.24	171.81	162.93	212.42	174.88	
G35	135.9	81.15	89.16	59.82	79.77	136.77	127.51	168.81	135.9	
G36	101.99	57.44	65.26	40.92	57.31	106.68	98.23	132.27	101.99	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/9/13 14:53:34

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	74.27	39.92	45.49	25.97	39.73	80.09	72.2	101.61	74.27	
G38	53.25	26.28	30.35	15.7	26.09	59.0	50.37	75.27	53.25	
G39	36.41	16.39	19.71	9.01	16.64	41.48	34.79	53.68	36.41	
G40	23.59	9.76	12.7	4.38	10.2	27.97	23.21	38.17	23.59	
G41	14.52	5.01	7.57	1.69	5.94	18.4	14.39	26.53	14.52	
G42	8.7	2.5	4.44	0.38	3.32	11.32	8.51	17.52	8.7	
G43	4.76	0.94	2.69	0.0	2.0	6.63	4.32	11.2	4.76	
G44	2.25	0.06	1.63	0.0	1.38	3.63	1.69	6.88	2.25	
G45	0.88	0.0	1.19	0.0	1.25	2.13	0.19	3.94	0.88	
G46	0.13	0.0	0.88	0.0	0.75	1.44	0.0	2.63	0.13	
G47	0.0	0.0	0.81	0.0	0.5	1.13	0.0	1.69	0.0	
G48	0.0	0.0	0.38	0.0	0.44	0.88	0.0	1.38	0.0	
G49	0.0	0.0	0.25	0.0	0.31	0.63	0.0	0.81	0.0	
G50	0.0	0.0	0.13	0.0	0.19	0.38	0.0	0.63	0.0	
G51	0.0	0.0	0.06	0.0	0.06	0.34	0.0	0.38	0.0	
G52	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.25	0.0	
G53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	
G54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	
G55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/9/13 14:53:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks: