

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 220V-2835-198L-5000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

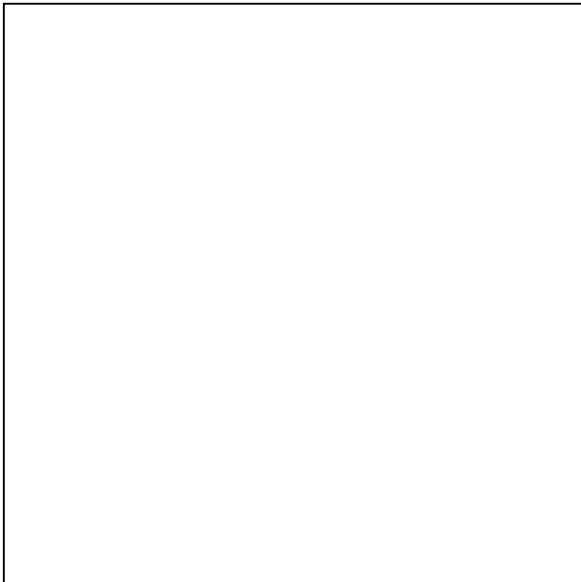
Voltage(V): 219.62 V
Current(A): 0.0550 A
Power(W): 11.27 W
Power Factor: 0.9230
Lamp Luminous Flux: 1031.67

Photometric Results

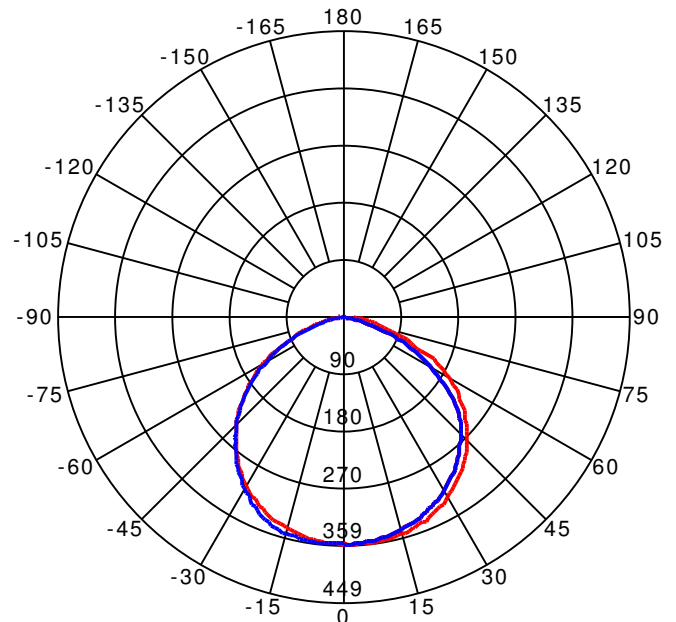
CIE Class: Direct
Luminaire Luminous Flux: 1031.666
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.54 lm/W
Beam Angle(50%) C0-180,C90-270: 116.5,111.6
Field Angle(10%) C0-180,C90-270: 159.4,149.8

Max. Intensity: 359.43 cd
Max.Intensity Angle: C= 0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 356.25 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



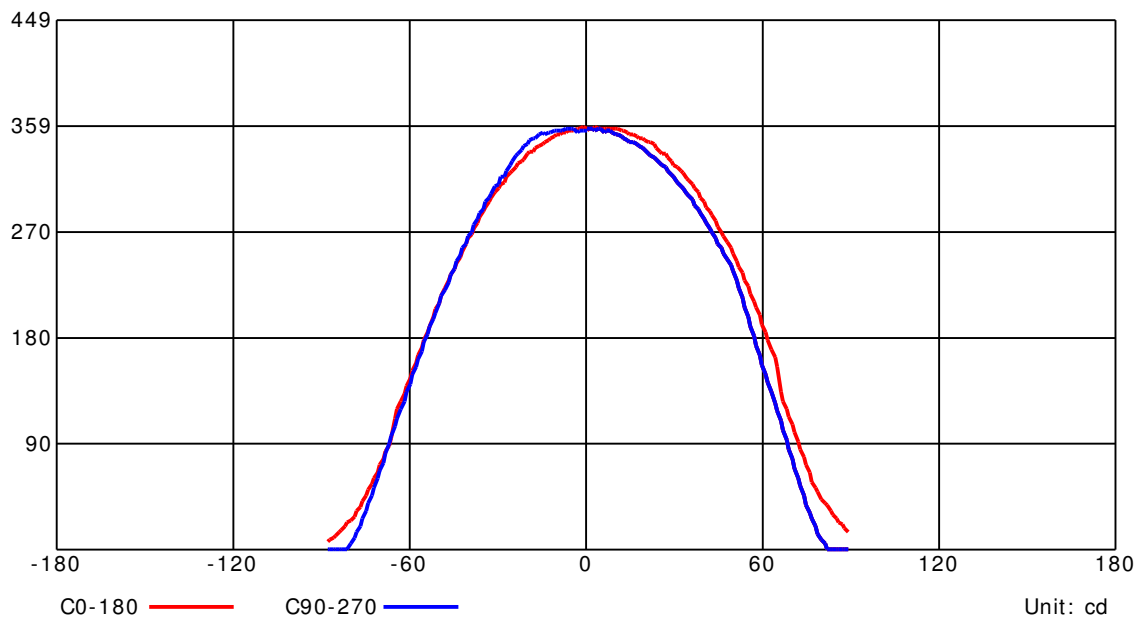
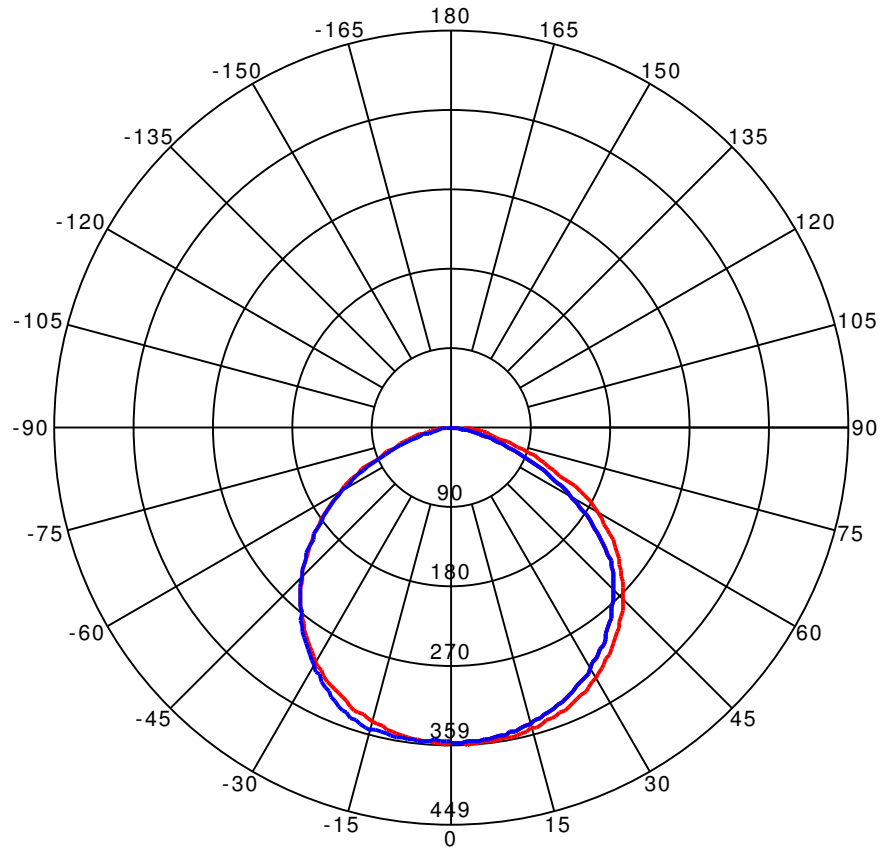
Beam Angle(50%) C0-180,C90-270: 111.6 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.35 m
Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

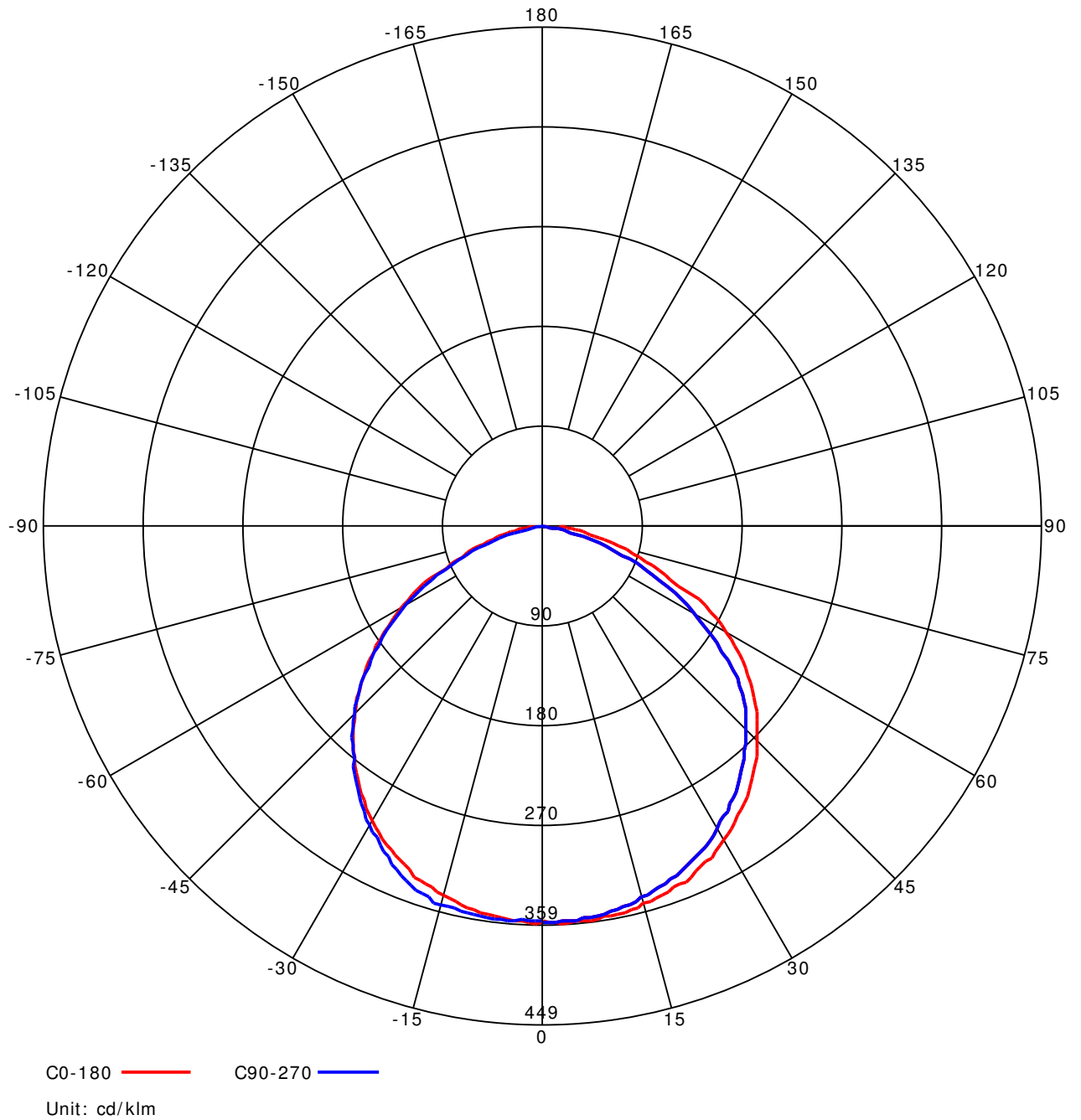
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

Luminous Intensity Distribution Curve



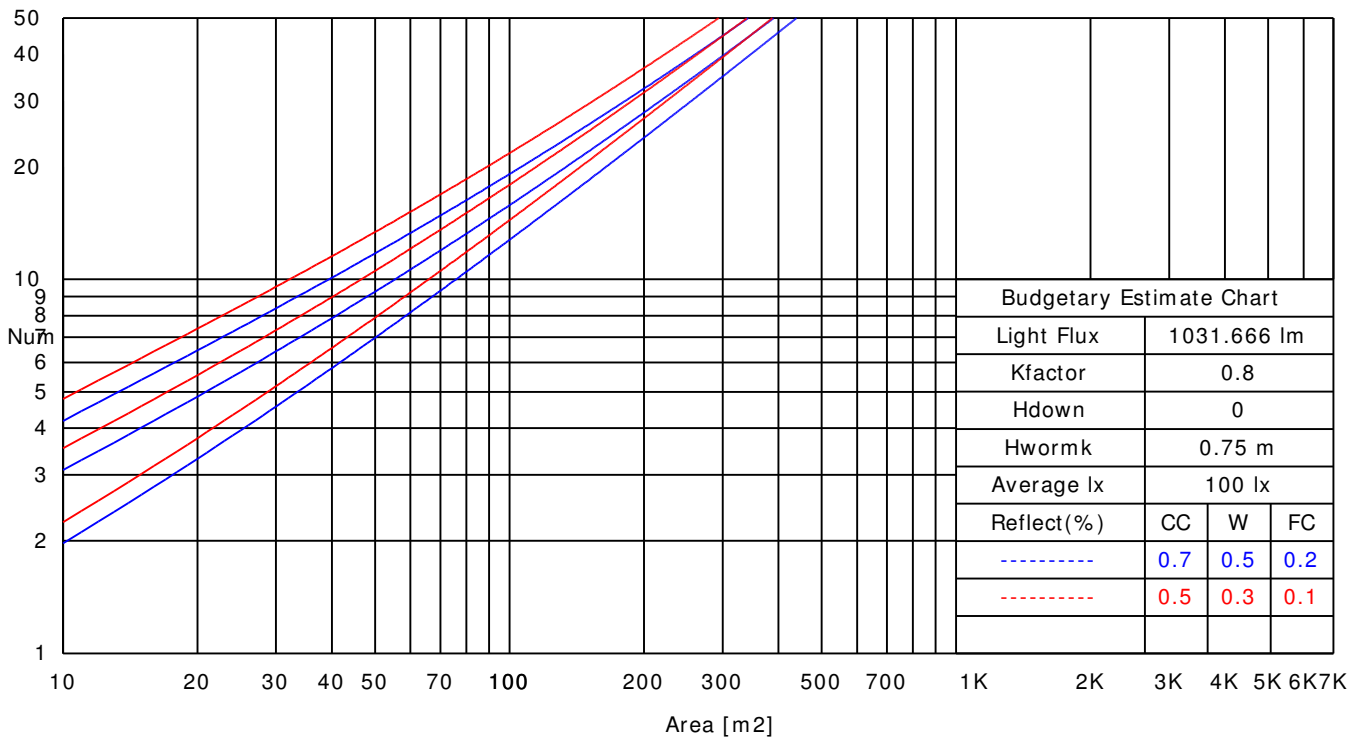
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.35 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	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	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.90	0.88	0.87	0.81
2	0.96	0.94	0.92	0.95	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.86	0.83	0.82	0.85	0.82	0.80	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.77	0.75	0.73	0.77	0.74	0.72	0.75	0.71	0.68	0.73	0.69	0.65	0.70	0.65	0.61	0.57
5	0.70	0.67	0.66	0.69	0.66	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.65	0.60	0.55	0.51
6	0.63	0.61	0.59	0.63	0.60	0.58	0.63	0.59	0.56	0.62	0.57	0.53	0.60	0.55	0.50	0.46
7	0.58	0.56	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.56	0.50	0.46	0.42
8	0.53	0.51	0.50	0.54	0.51	0.49	0.54	0.49	0.47	0.53	0.48	0.44	0.53	0.47	0.42	0.39
9	0.49	0.47	0.46	0.50	0.47	0.45	0.50	0.46	0.43	0.50	0.45	0.41	0.49	0.43	0.39	0.36
10	0.46	0.44	0.43	0.46	0.44	0.42	0.47	0.43	0.40	0.47	0.42	0.38	0.46	0.41	0.36	0.33

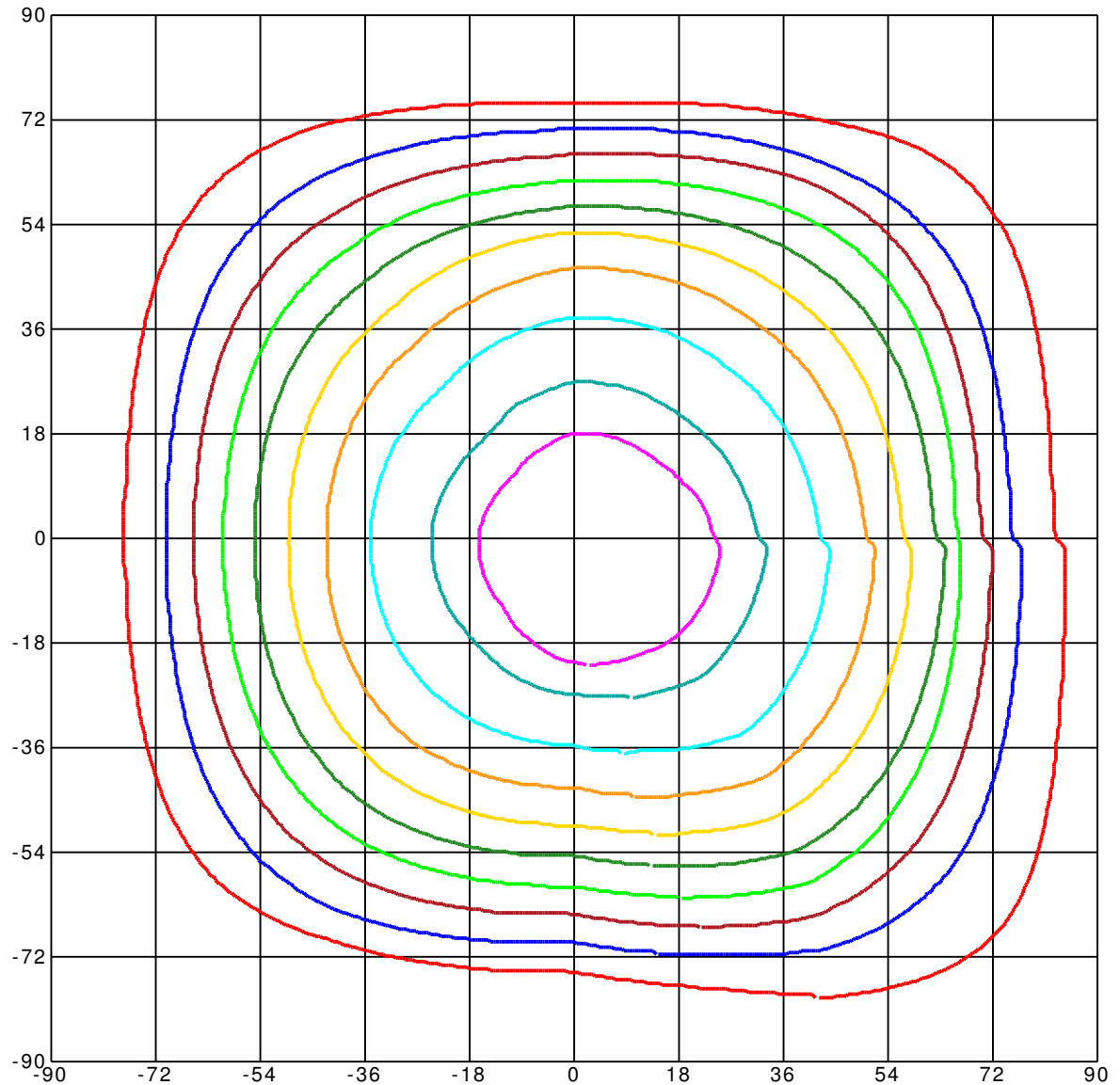
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.35 m
 Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd $I_{max}(100\%): 359.435 \text{ cd}$

341.463(95% I_{max})	179.717(50% I_{max})
323.491(90% I_{max})	143.774(40% I_{max})
287.548(80% I_{max})	107.83(30% I_{max})
251.604(70% I_{max})	71.887(20% I_{max})
215.661(60% I_{max})	35.943(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

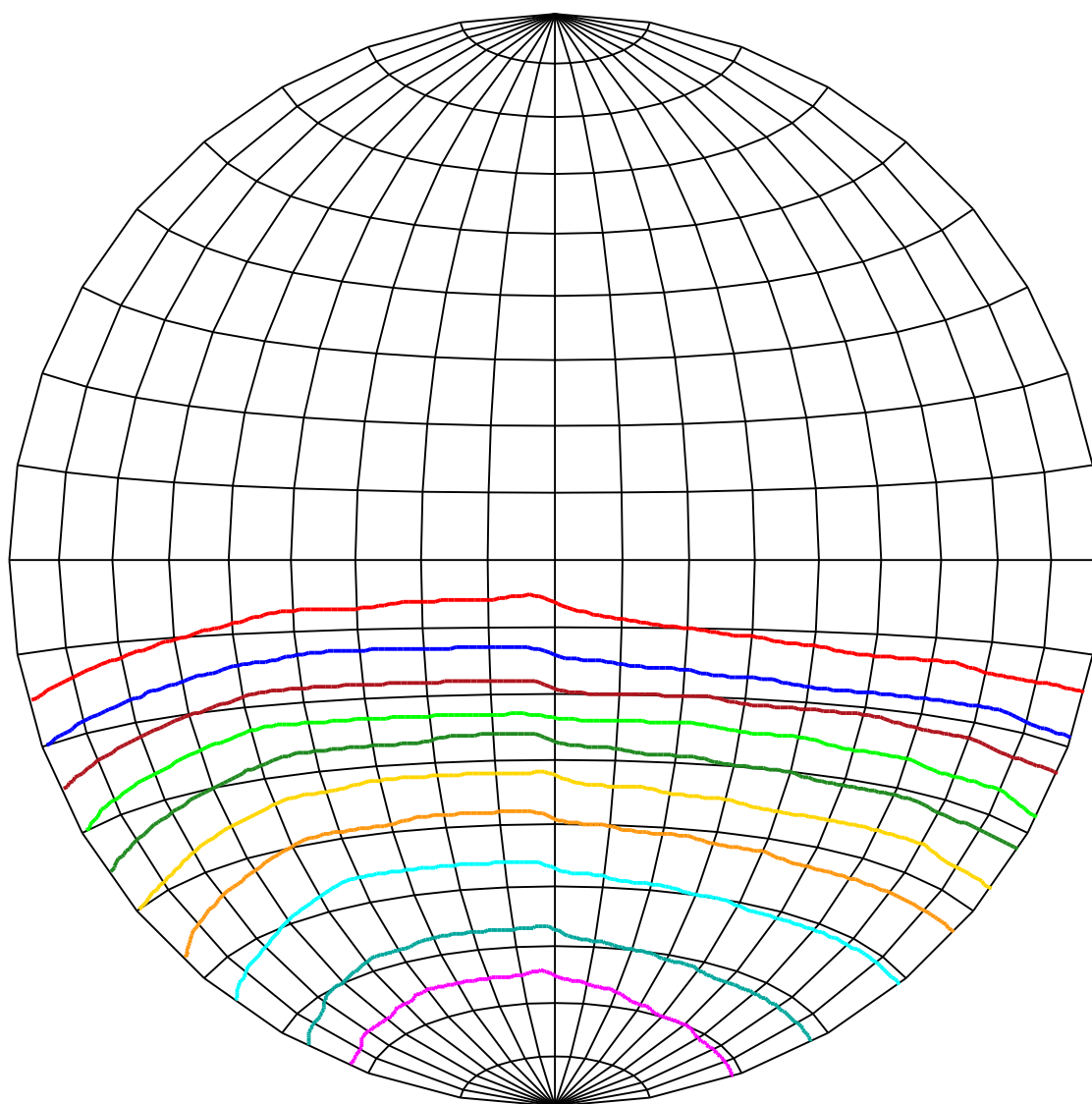
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 359.435 cd

341.463(95%Imax)
323.491(90%Imax)
287.548(80%Imax)
251.604(70%Imax)
215.661(60%Imax)

179.717(50%Imax)
143.774(40%Imax)
107.83(30%Imax)
71.887(20%Imax)
35.943(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

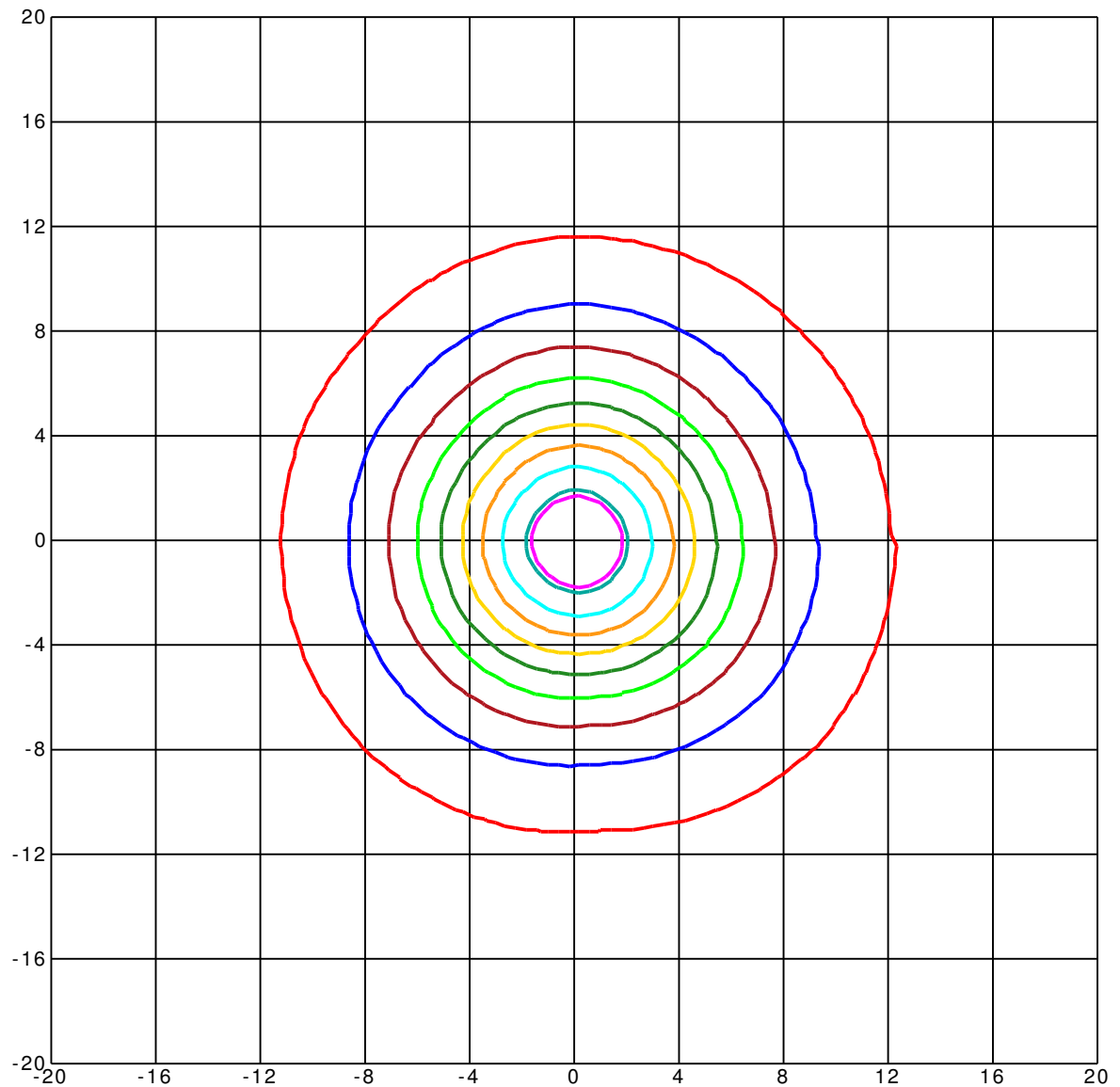
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOLX DIAGRAM



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

5.155(1% Emax)	2.801(1% Emax)
5.043(1% Emax)	2.241(1% Emax)
4.482(1% Emax)	1.681(0% Emax)
3.922(1% Emax)	1.121(0% Emax)
3.362(1% Emax)	0.56(0% Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

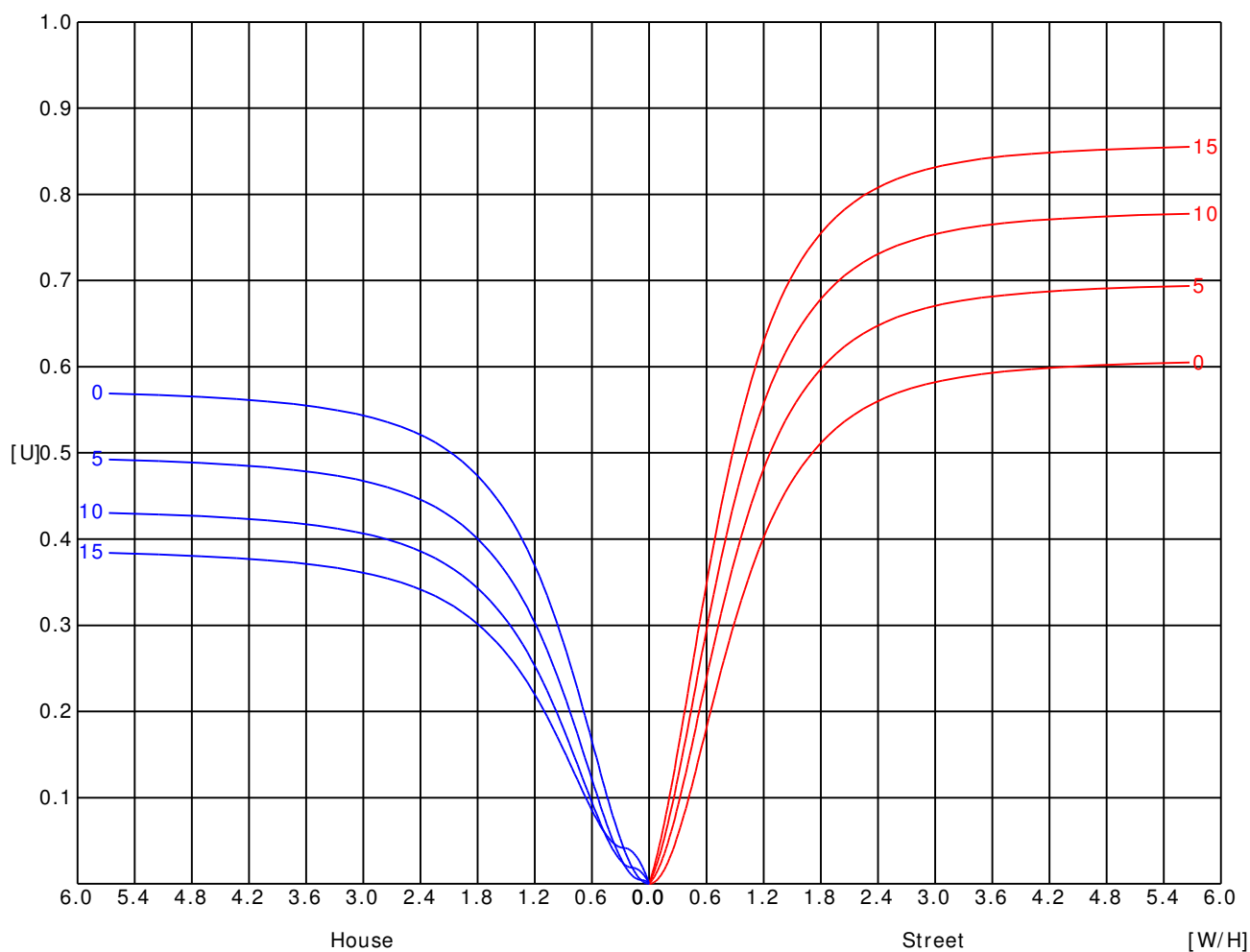
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

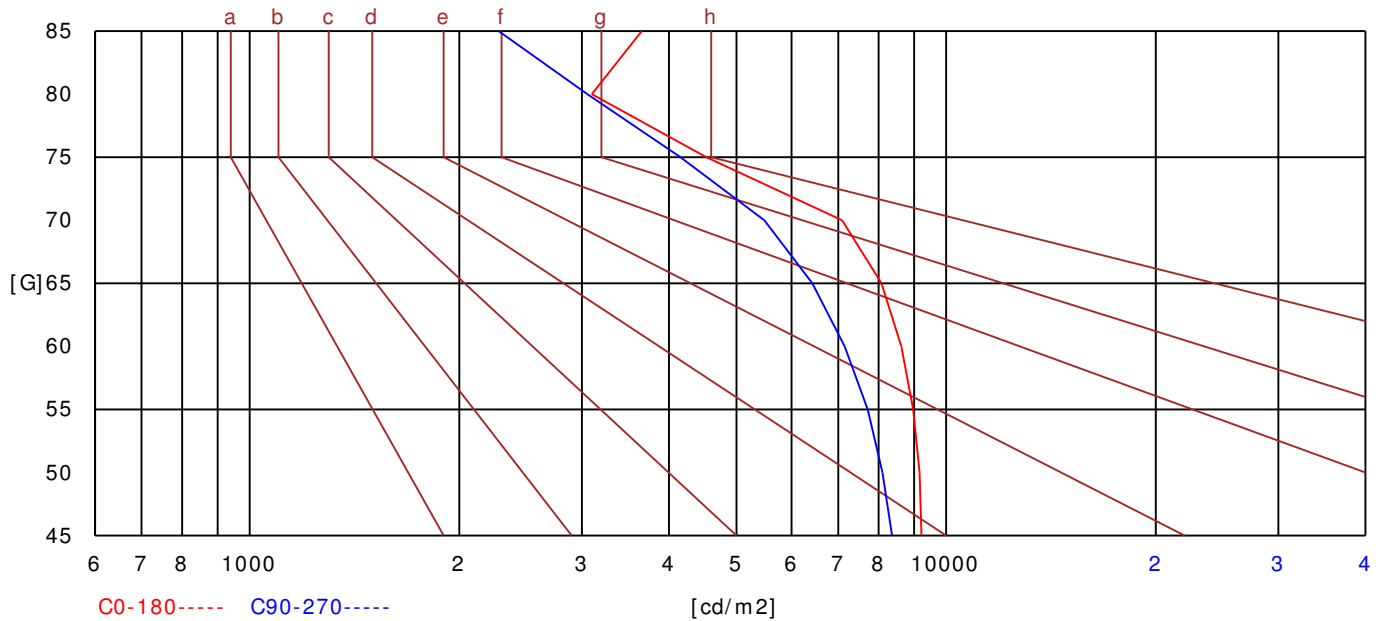


C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.35 m
Remarks:

B R I G H T L I M I T D I A G R A M

C/G	45	50	55	60	65	70	75	80	85
C0	9221	9157	8967	8621	8074	7094	4530	3100	3655
C90	8364	8099	7715	7151	6426	5482	4156	3054	2279
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: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

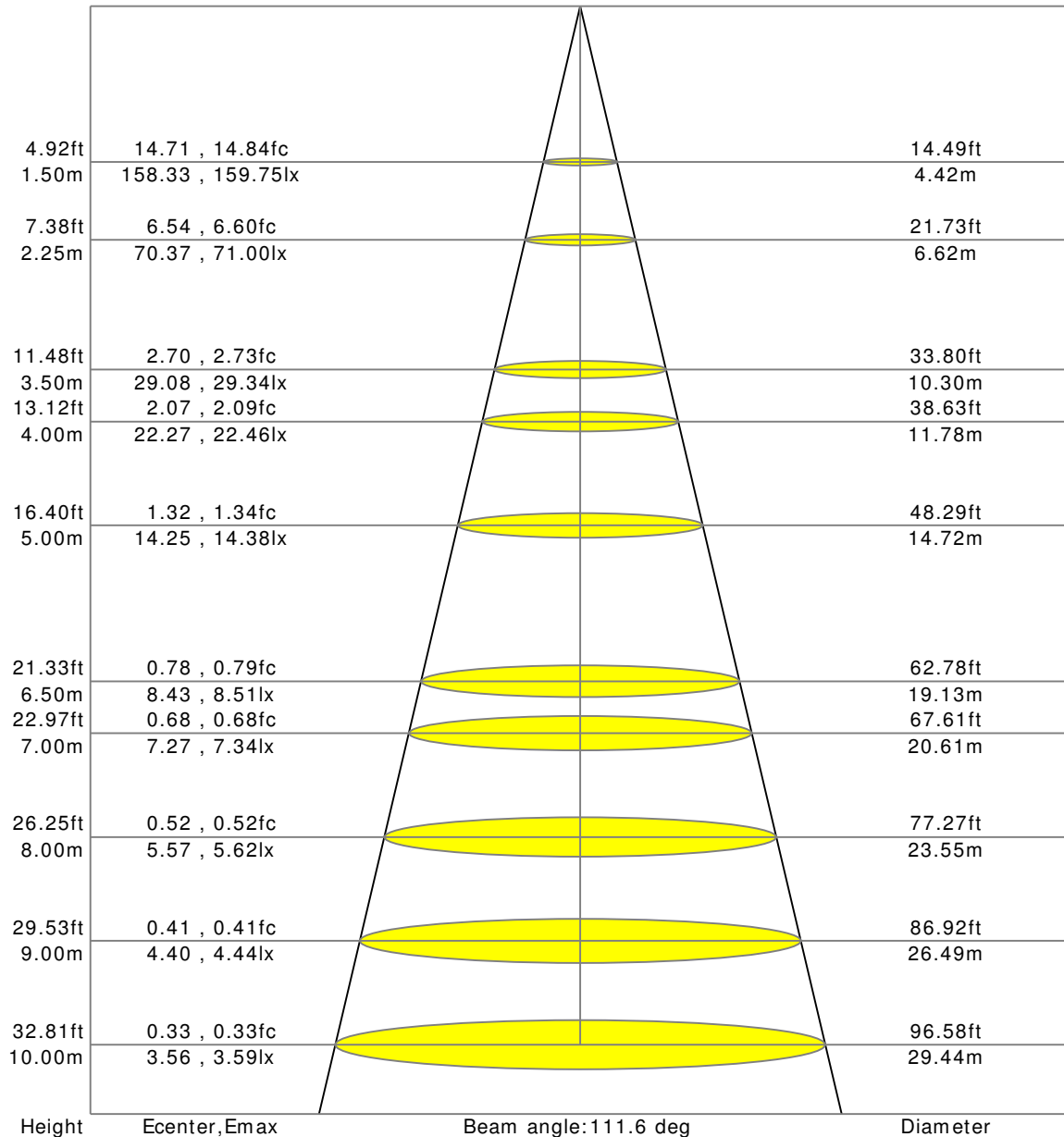
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

LX-DI STANCE DI AGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	70	70	50	50	30	70	70	50	50	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	19.79	19.87	19.99	20.06	20.30	19.42	19.50	19.62	19.69	19.93
3H	19.86	19.94	20.07	20.13	20.38	19.54	19.61	19.74	19.80	20.05
4H	19.85	19.92	20.06	20.12	20.37	19.54	19.61	19.75	19.80	20.05
6H	19.82	19.89	20.04	20.09	20.35	19.51	19.58	19.73	19.79	20.04
8H	19.81	19.88	20.03	20.08	20.33	19.50	19.57	19.72	19.77	20.02
12H	19.79	19.86	20.01	20.06	20.32	19.48	19.55	19.71	19.76	20.01
4H 2H	21.97	22.04	22.18	22.24	22.49	21.10	21.18	21.32	21.37	21.62
3H	22.11	22.18	22.33	22.38	22.64	21.28	21.35	21.51	21.56	21.81
4H	22.11	22.17	22.34	22.39	22.65	21.31	21.37	21.54	21.58	21.84
6H	22.08	22.14	22.32	22.36	22.63	21.30	21.36	21.54	21.58	21.84
8H	22.07	22.12	22.31	22.35	22.61	21.29	21.35	21.53	21.57	21.84
12H	22.05	22.10	22.29	22.33	22.60	21.27	21.33	21.52	21.56	21.83
8H 4H	22.49	22.56	22.71	22.76	23.02	21.17	21.24	21.39	21.44	21.70
6H	22.77	22.82	23.02	23.05	23.33	21.44	21.49	21.69	21.73	22.00
8H	22.76	22.80	23.02	23.05	23.32	21.45	21.49	21.71	21.74	22.01
12H	22.74	22.78	23.01	23.03	23.31	21.45	21.49	21.72	21.74	22.02
12H 4H	22.98	23.04	23.23	23.27	23.54	21.41	21.46	21.66	21.69	21.96
6H	23.03	23.07	23.29	23.32	23.60	21.44	21.48	21.70	21.73	22.01

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.35 m
 Remarks:

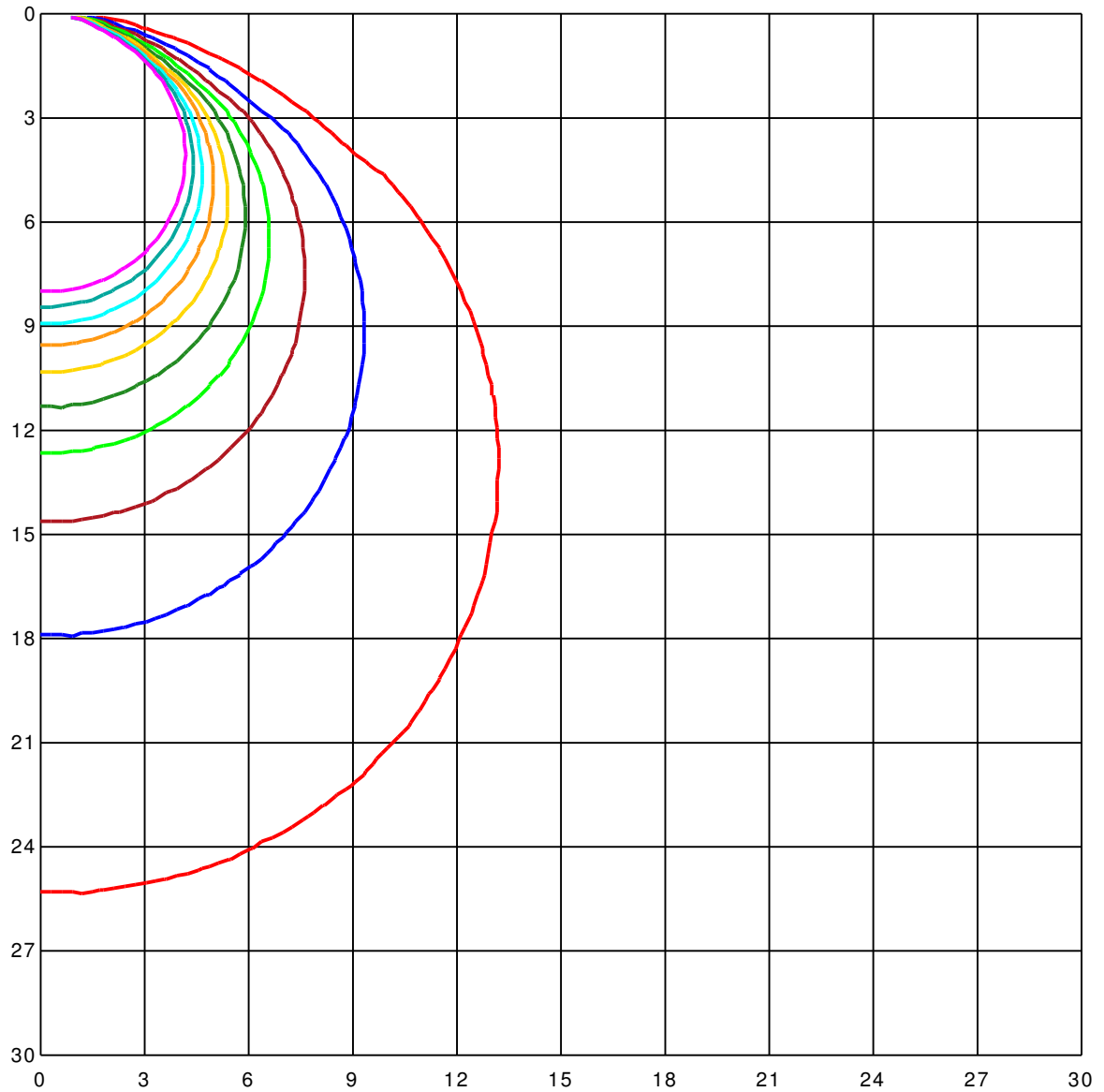
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.35 m
Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

5.571
5.014
4.457
3.9
3.343

2.786
2.229
1.671
1.114
0.557

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

LUMINOUS DI STRI BUTI ON I N T E N S I T Y DATA

Gamma\ C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	356.25	357.02	356.98	357.7	357.22	356.65	355.04	354.96	354.68	
G1	356.73	357.26	357.02	358.1	358.75	356.49	355.52	355.36	355.28	
G2	357.18	357.26	356.89	355.64	356.81	354.96	355.93	355.81	355.85	
G3	359.43	357.22	356.01	355.08	356.69	355.89	354.39	356.17	356.29	
G4	357.42	357.1	356.69	354.31	356.21	355.48	356.53	356.57	356.61	
G5	357.66	356.73	356.37	353.71	355.81	355.89	356.77	356.81	354.8	
G6	357.66	356.17	353.99	352.7	355.2	355.2	356.69	356.93	356.81	
G7	357.7	355.68	355.16	351.93	354.56	355.24	356.49	357.1	356.77	
G8	357.86	354.88	354.76	350.81	353.59	352.42	356.25	355.85	356.61	
G9	356.41	354.15	353.91	349.92	352.62	353.67	355.16	356.81	356.21	
G10	356.81	353.18	352.9	348.63	351.57	350.52	355.36	356.61	356.01	
G11	356.57	352.18	351.61	347.5	350.04	349.31	354.76	356.21	355.48	
G12	355.81	351.21	350.89	345.93	348.87	349.76	354.07	355.73	355.12	
G13	355.24	352.14	349.52	342.26	347.18	346.93	353.35	355.08	354.48	
G14	354.35	348.87	347.94	342.82	345.64	346.05	352.62	354.56	353.91	
G15	351.61	347.54	346.37	341.17	344.03	344.11	353.43	353.67	353.35	
G16	352.38	348.18	345.32	339.23	342.14	342.82	352.94	352.5	352.46	
G17	351.29	344.88	343.83	335.52	340.4	341.09	349.68	351.65	353.63	
G18	349.19	344.31	342.06	334.48	338.27	339.48	348.63	350.24	350.89	
G19	348.51	341.81	340.4	332.38	337.94	335.77	347.14	350.16	349.92	
G20	346.81	340.28	338.67	330.44	336.21	335.52	343.87	349.52	348.95	
G21	345.48	338.55	336.77	328.06	331.85	333.47	342.3	348.18	347.62	
G22	345.64	336.73	334.92	325.44	329.68	329.35	339.88	344.72	345.04	
G23	343.75	334.76	332.82	322.9	327.1	328.47	335.77	342.98	345.0	
G24	340.2	330.56	330.89	320.0	324.68	324.11	334.19	341.45	343.47	
G25	338.23	330.32	328.63	319.07	322.02	321.57	328.87	339.56	341.77	
G26	336.29	327.94	325.93	314.15	319.43	318.63	326.69	337.62	339.76	
G27	335.81	325.52	323.87	311.09	316.25	315.85	321.98	335.56	337.82	
G28	332.62	322.82	321.29	308.99	311.77	312.86	316.81	333.35	335.44	
G29	329.43	320.2	318.63	304.84	310.0	309.43	316.29	331.05	333.35	
G30	326.89	317.14	315.73	301.41	306.61	306.33	310.4	328.23	331.01	
G31	324.43	314.11	310.73	297.94	302.9	302.82	307.62	325.68	328.43	
G32	321.21	311.21	307.74	294.48	299.15	299.27	302.46	322.78	325.77	
G33	318.95	308.18	306.41	290.89	295.24	295.64	298.27	317.86	324.03	
G34	314.43	304.64	301.49	287.1	291.05	292.06	295.24	316.89	320.2	
G35	312.82	300.77	299.56	283.18	286.81	288.27	288.83	312.14	317.18	
G36	309.64	297.5	296.13	279.11	282.38	284.84	285.81	311.29	314.19	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\ C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	306.25	293.83	292.42	274.84	277.74	281.05	280.68	308.23	312.98	
G38	302.62	290.08	288.87	270.52	273.18	276.65	275.73	303.59	307.98	
G39	298.79	286.25	284.68	266.01	268.27	272.78	269.19	301.98	304.68	
G40	295.04	282.3	280.77	261.37	264.68	266.98	265.73	298.55	301.21	
G41	290.93	278.31	276.77	256.61	258.55	263.83	259.15	295.36	297.9	
G42	287.34	274.15	272.78	252.02	253.63	258.83	255.6	291.01	294.11	
G43	284.19	270.64	268.63	246.85	248.67	253.99	248.87	288.27	290.6	
G44	278.63	265.44	264.31	241.73	243.35	248.95	245.0	284.15	286.69	
G45	274.31	260.81	259.88	236.57	238.14	243.67	238.19	278.67	281.69	
G46	269.76	256.29	255.52	231.21	232.7	237.5	233.71	275.73	276.85	
G47	265.16	251.41	250.81	225.81	227.98	232.78	226.45	269.48	274.15	
G48	260.52	246.37	246.17	220.08	221.41	226.94	220.48	264.76	269.68	
G49	255.6	240.97	241.21	214.27	215.64	221.01	216.17	259.76	265.04	
G50	250.56	235.44	236.13	208.23	208.99	214.8	208.95	255.44	260.04	
G51	245.12	229.84	228.1	203.02	203.43	208.59	200.6	249.44	254.88	
G52	239.96	224.07	222.46	196.13	197.18	202.06	196.41	244.11	249.52	
G53	234.48	218.14	214.35	189.8	190.08	196.61	189.92	238.51	244.35	
G54	228.95	211.85	205.97	183.39	184.64	188.79	182.46	232.82	238.63	
G55	223.02	205.73	197.9	177.02	178.19	183.23	175.44	227.14	233.1	
G56	217.06	199.15	188.91	170.4	171.41	175.2	168.14	221.25	227.3	
G57	211.09	192.66	181.57	163.71	164.96	168.35	161.69	213.75	221.65	
G58	204.8	186.17	173.63	156.85	158.31	161.94	154.72	207.42	215.69	
G59	198.27	179.27	165.36	149.03	151.61	154.35	148.71	202.14	209.52	
G60	191.65	172.42	157.34	143.02	144.84	147.18	140.56	195.48	203.47	
G61	184.64	166.37	149.23	136.13	138.27	140.04	134.15	188.59	198.06	
G62	177.62	158.27	141.65	128.67	131.57	133.14	125.64	181.69	190.36	
G63	170.24	151.09	133.55	122.5	125.73	126.01	118.91	174.48	183.83	
G64	163.1	143.87	124.27	115.28	118.39	118.83	110.89	167.1	177.06	
G65	155.6	136.49	117.26	108.63	111.01	111.69	104.11	159.35	169.39	
G66	133.83	129.11	108.67	101.85	94.68	104.4	96.29	151.65	147.46	
G67	125.28	121.25	100.93	95.04	88.59	97.06	89.23	143.79	137.46	
G68	118.83	113.23	92.42	88.39	82.82	89.92	81.53	135.77	131.73	
G69	112.42	105.12	84.72	82.06	77.18	82.46	74.07	128.51	125.44	
G70	105.56	97.06	76.65	75.0	71.57	75.44	66.85	119.8	119.11	
G71	98.91	82.78	68.31	66.33	66.01	68.31	60.04	112.62	111.77	
G72	92.22	67.82	60.85	59.11	60.73	50.28	52.54	100.48	105.77	
G73	85.56	59.03	53.35	53.59	55.65	44.31	46.09	93.14	98.79	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 17:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 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: 2020/3/13 17:14:36

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.35 m
Remarks: