

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 220V-2835-198L-2700K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

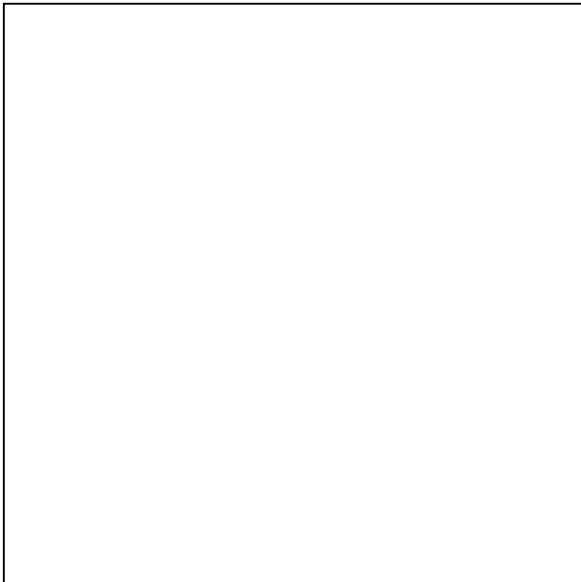
Voltage(V): 219.62 V
Current(A): 0.0560 A
Power(W): 11.38 W
Power Factor: 0.9220
Lamp Luminous Flux: 962.25

Photometric Results

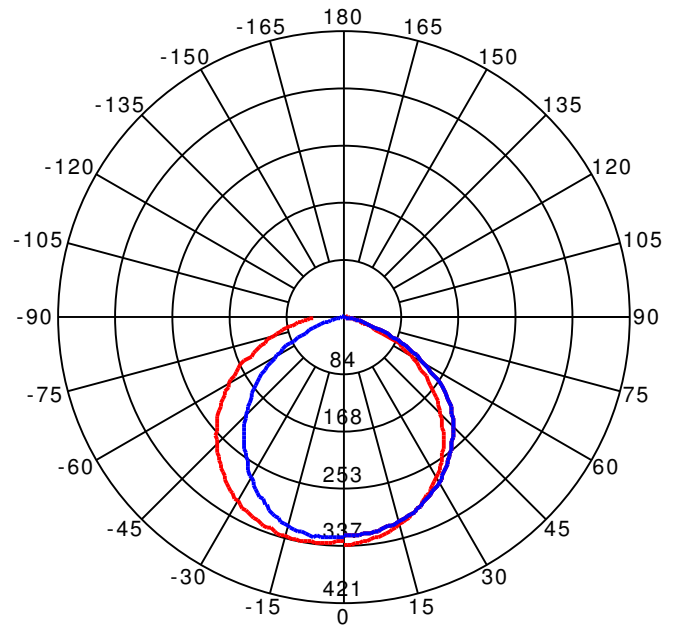
CIE Class: Direct
Luminaire Luminous Flux: 962.2469
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 84.56 lm/W
Beam Angle(50%) C0-180,C90-270: 115.7,107.0
Field Angle(10%) C0-180,C90-270: 161.5,146.8

Max. Intensity: 336.89 cd
Max.Intensity Angle: C=0 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 336.89 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



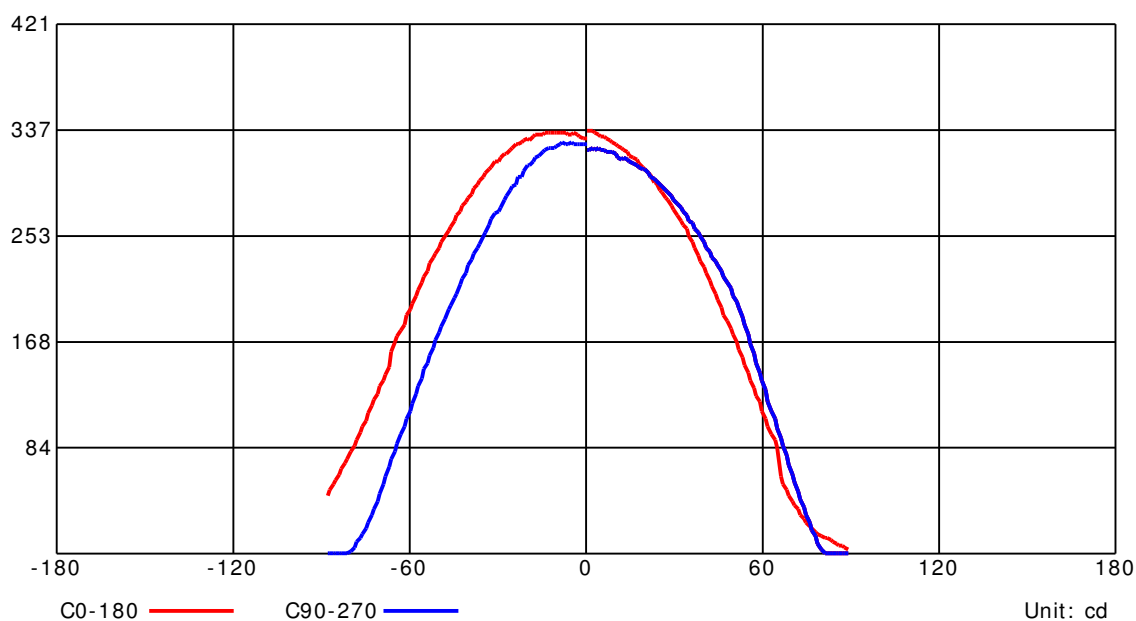
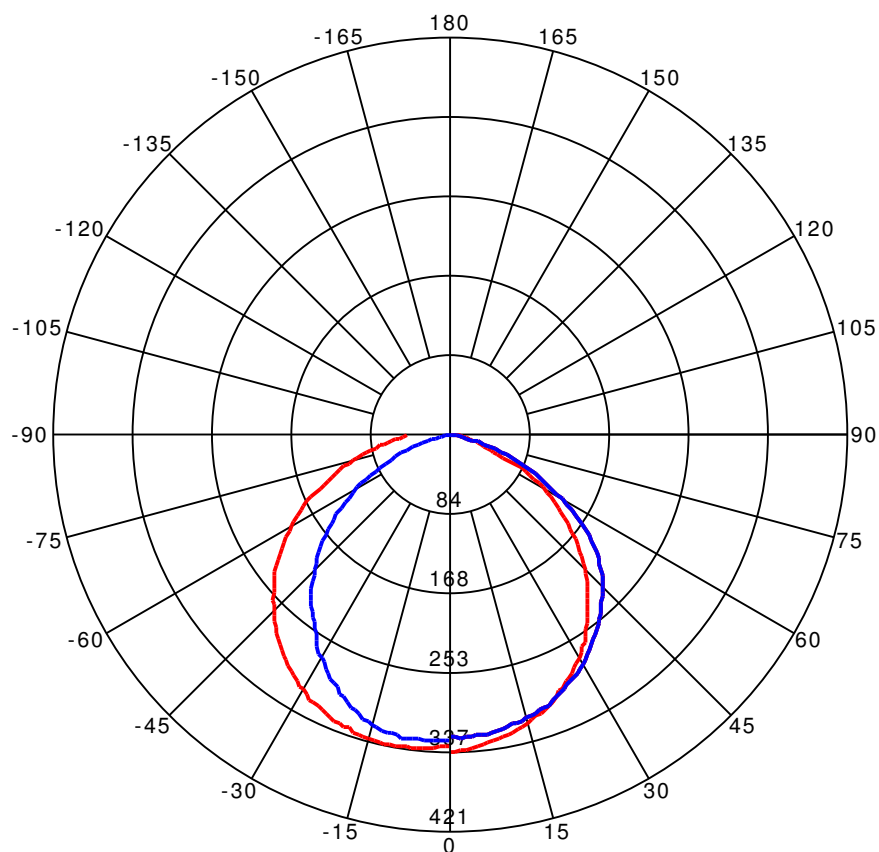
Beam Angle(50%) C0-180,C90-270: 107.0 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 16:58:52

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

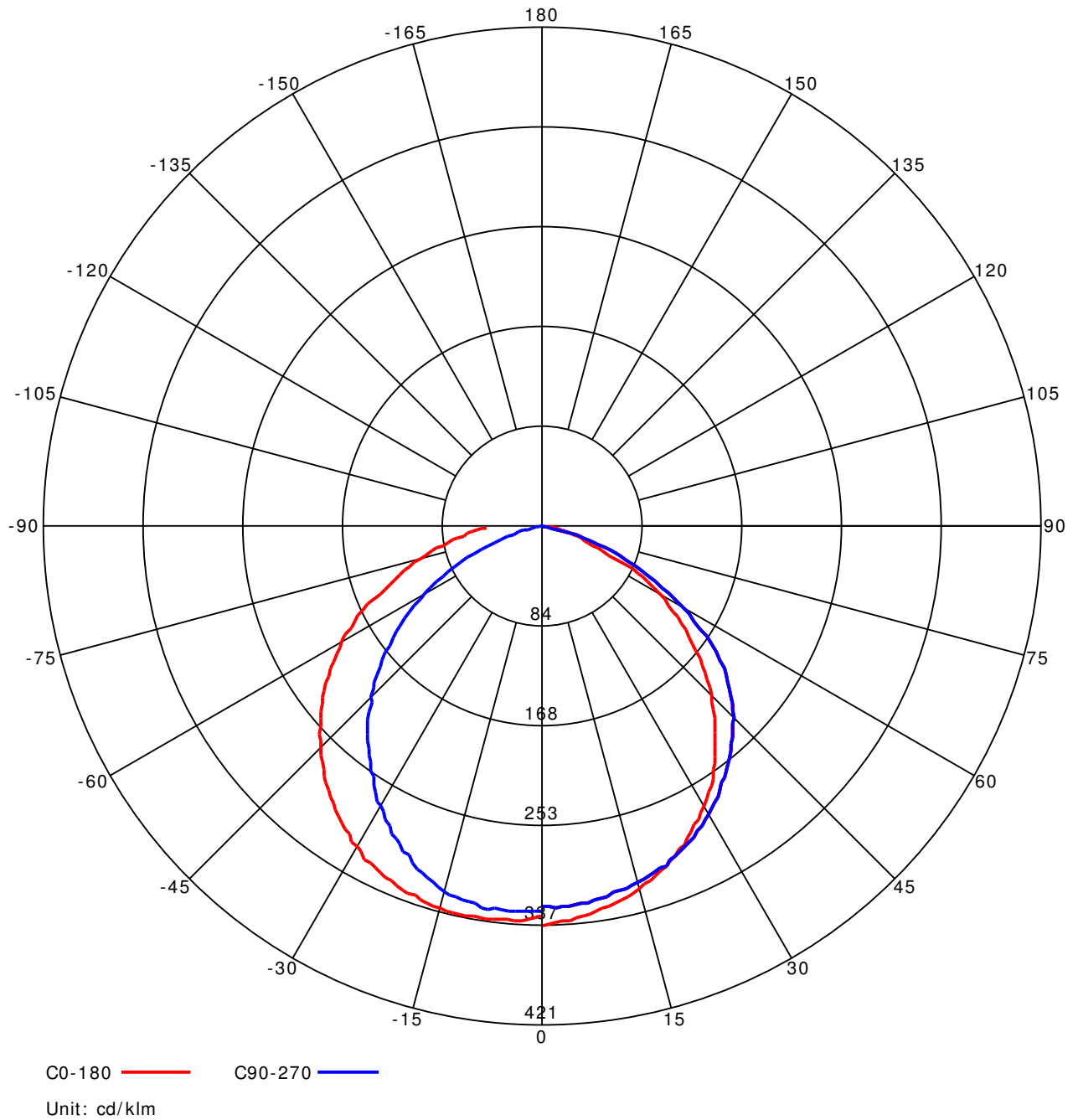
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 16:58:52

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



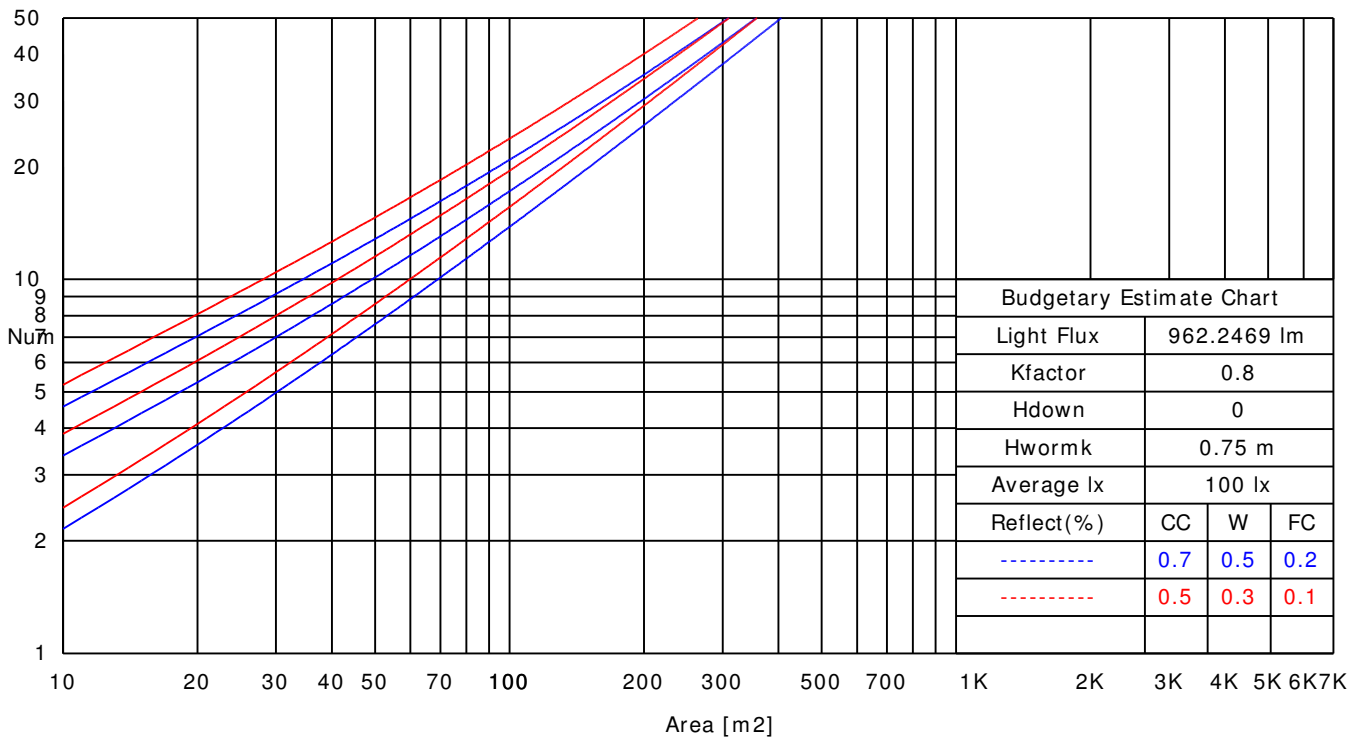
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 16:58:52

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	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
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	0.81	0.84	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.76	0.73	0.72	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.68	0.64	0.69	0.64	0.60	0.56
5	0.68	0.66	0.64	0.68	0.65	0.63	0.68	0.63	0.60	0.66	0.61	0.57	0.64	0.59	0.54	0.50
6	0.62	0.60	0.58	0.62	0.59	0.57	0.62	0.58	0.54	0.61	0.56	0.52	0.59	0.54	0.49	0.45
7	0.57	0.54	0.53	0.57	0.54	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.55	0.49	0.45	0.41
8	0.52	0.50	0.49	0.53	0.50	0.48	0.53	0.49	0.46	0.53	0.47	0.43	0.52	0.46	0.41	0.38
9	0.48	0.46	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.49	0.43	0.38	0.35
10	0.45	0.43	0.42	0.45	0.43	0.41	0.46	0.42	0.39	0.46	0.41	0.37	0.46	0.40	0.35	0.33

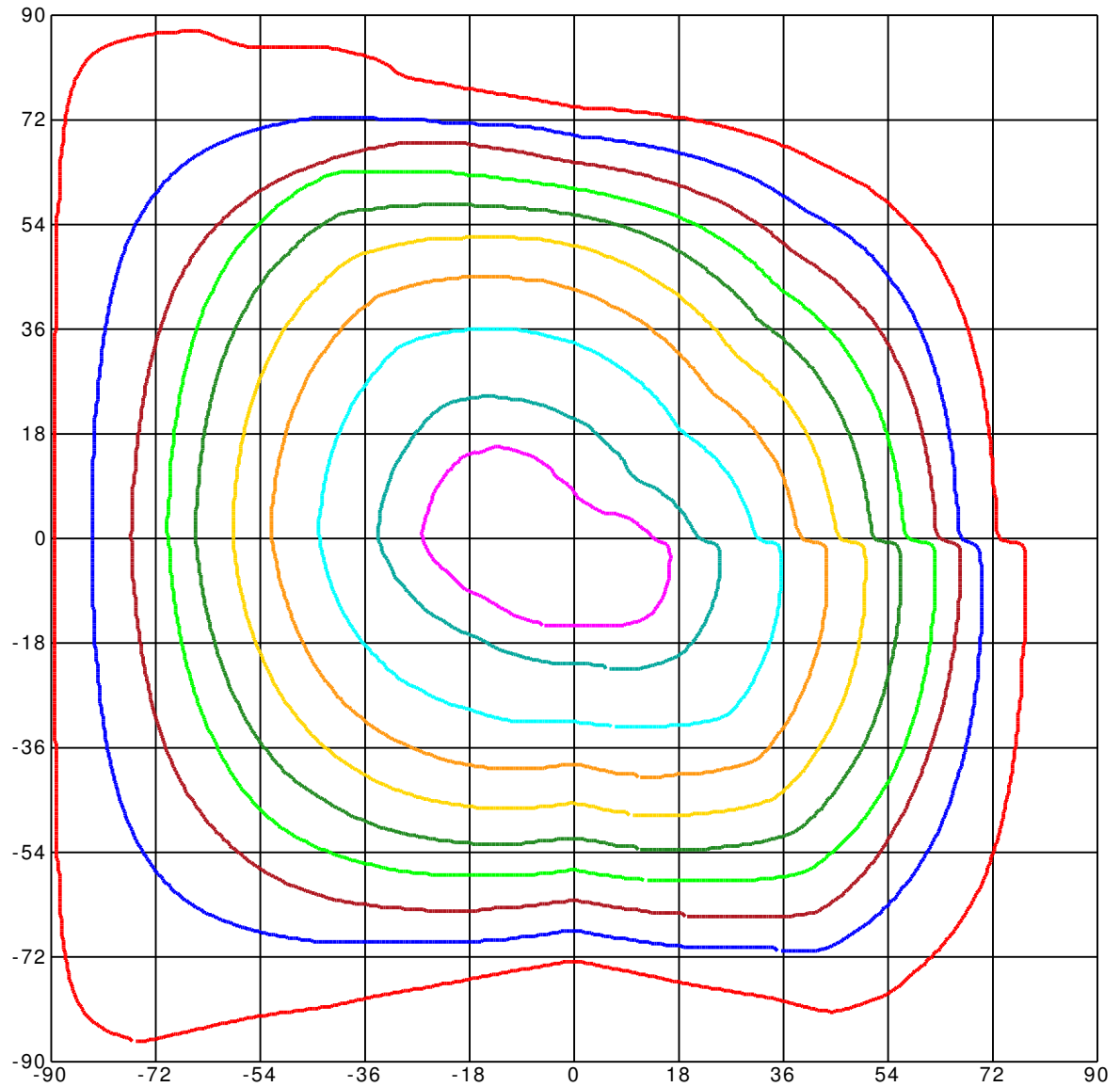
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/13 16:58:52

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 Imax(100%): 336.895 cd

320.05(95%Imax)	168.447(50%Imax)
303.205(90%Imax)	134.758(40%Imax)
269.516(80%Imax)	101.068(30%Imax)
235.826(70%Imax)	67.379(20%Imax)
202.137(60%Imax)	33.689(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 16:58:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

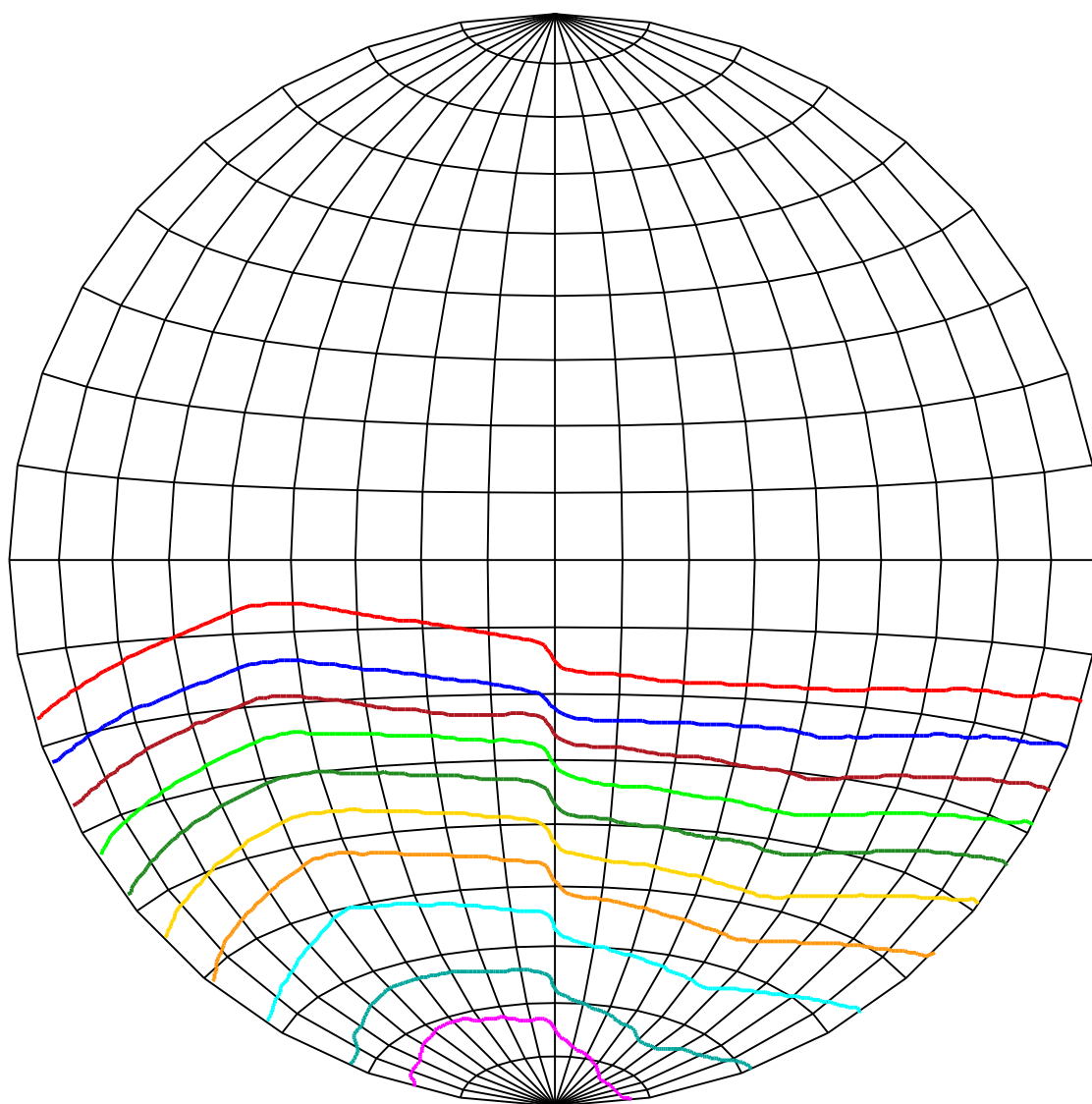
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd $I_{max}(100\%)$: 336.895 cd

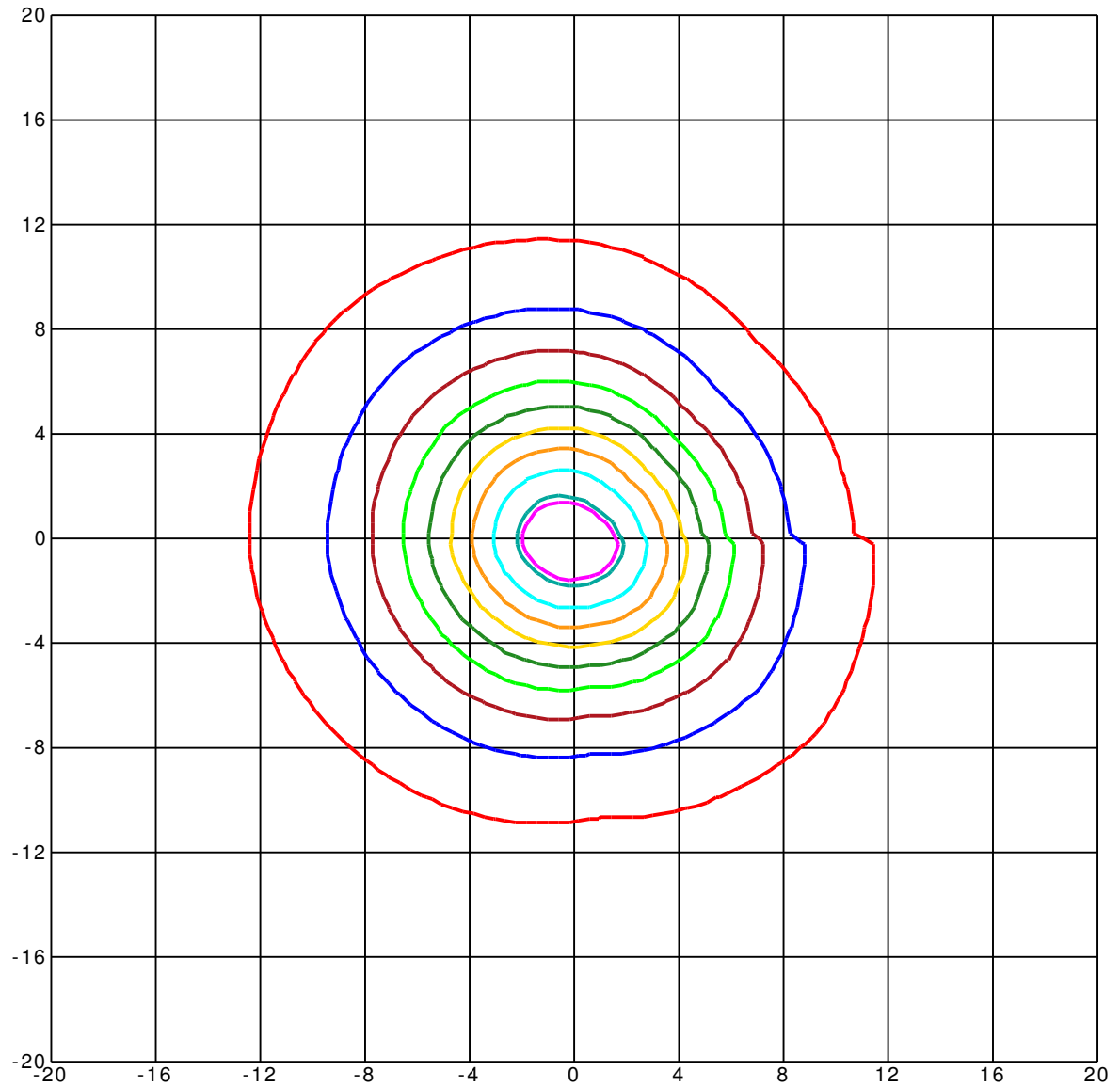
320.05(95% I_{max})
303.205(90% I_{max})
269.516(80% I_{max})
235.826(70% I_{max})
202.137(60% I_{max})

168.447(50% I_{max})
134.758(40% I_{max})
101.068(30% I_{max})
67.379(20% I_{max})
33.689(10% I_{max})

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 16:58:52

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)

4.843(1% Emax)

4.738(1% Emax)

4.211(1% Emax)

3.685(1% Emax)

3.158(1% Emax)

2.632(1% Emax)

2.106(1% Emax)

1.579(0% Emax)

1.053(0% Emax)

0.526(0% Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 16:58:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

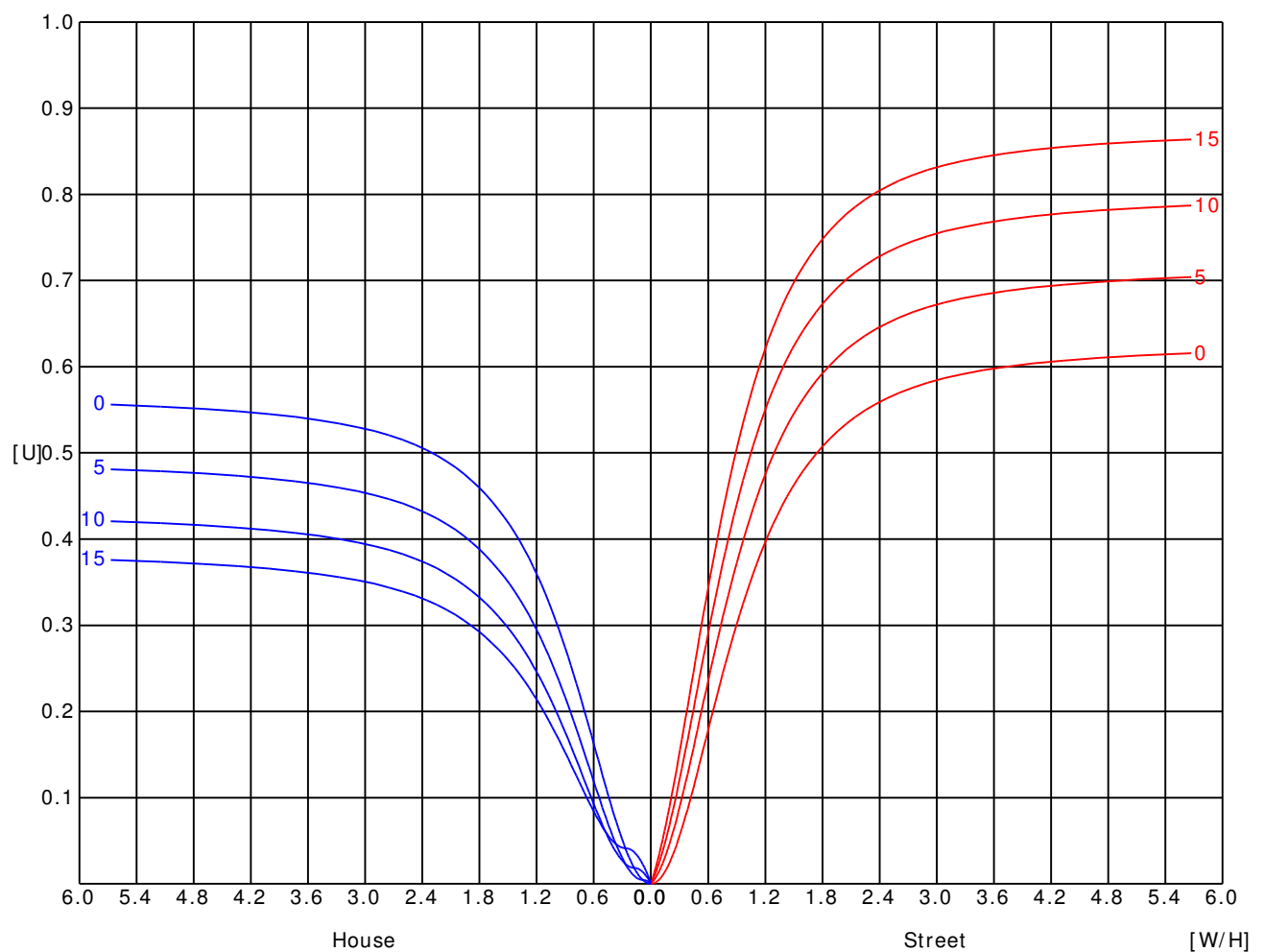
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

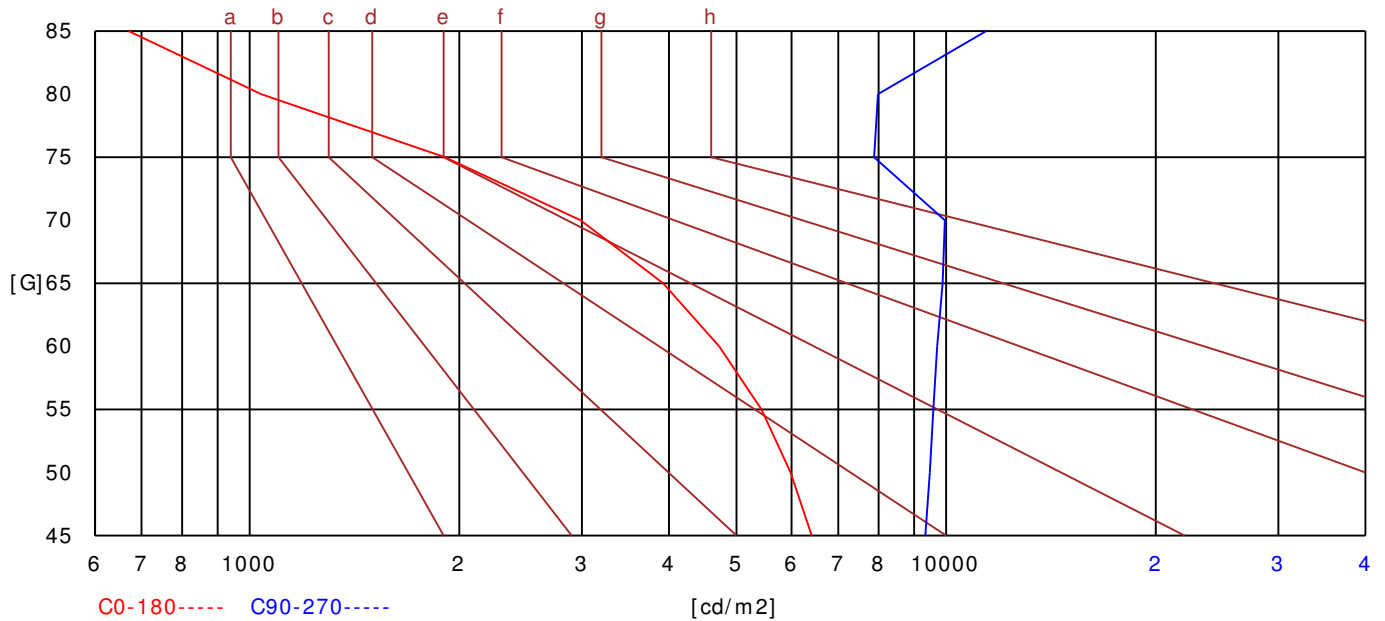


C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/13 16:58:52

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

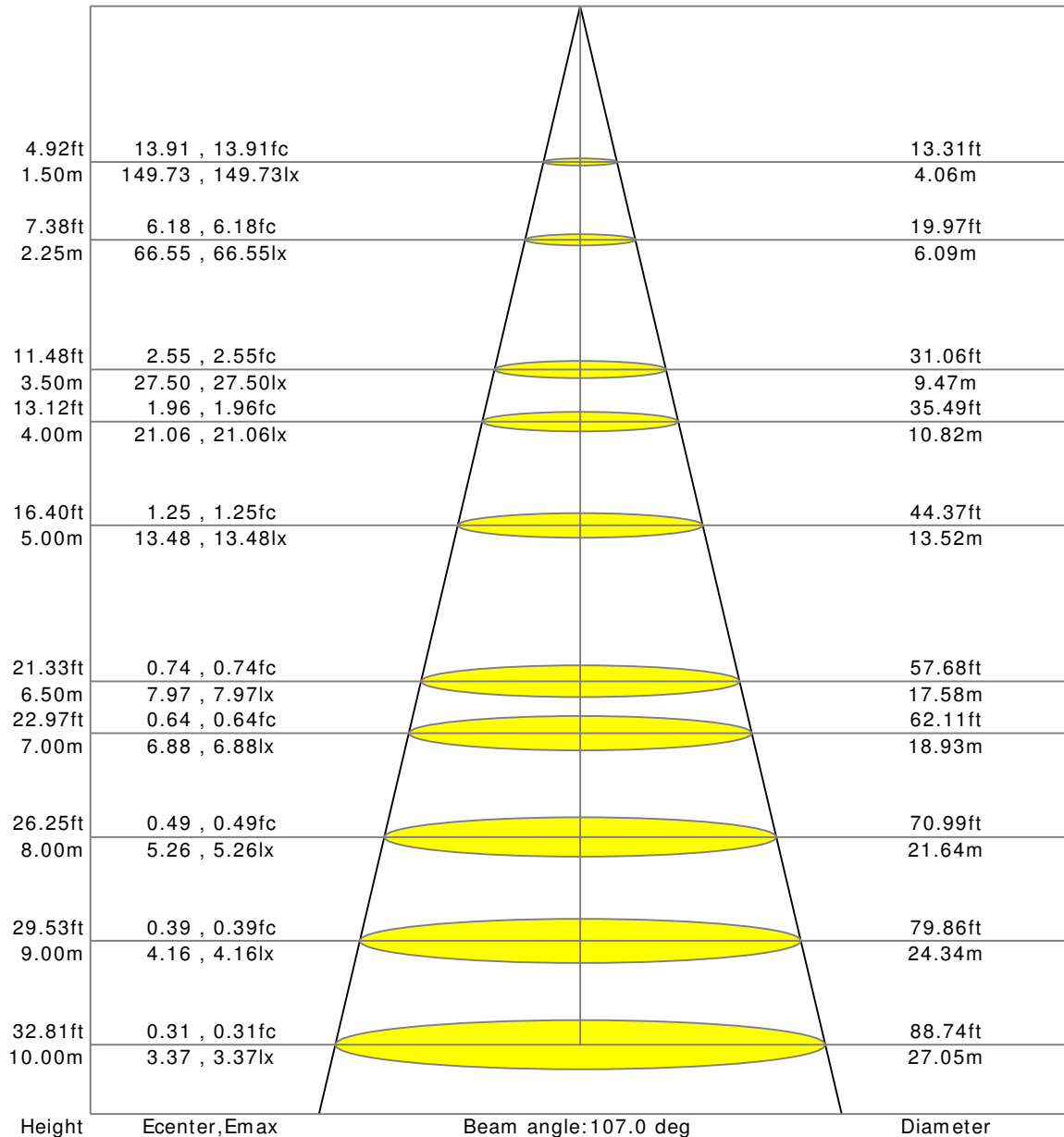
C/G	45	50	55	60	65	70	75	80	85
C0	6411	5978	5429	4724	3926	2986	1908	1039	671
C90	9334	9472	9591	9712	9885	9956	7879	7982	11416
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<= 300				
1.5	B		2000	1000	500	<= 300			
1.85	C			2000	1000	500	<= 300		
2.2	D				2000	1000	500	<= 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 16:58:52

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 16:58:52

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	16.90	16.98	17.10	17.17	17.41	17.42	17.50	17.62	17.69	17.93
3H	16.95	17.02	17.16	17.22	17.46	17.43	17.51	17.64	17.70	17.95
4H	16.93	17.01	17.14	17.20	17.45	17.42	17.49	17.63	17.69	17.94
6H	16.90	16.98	17.12	17.18	17.43	17.39	17.46	17.60	17.66	17.91
8H	16.89	16.96	17.11	17.16	17.42	17.37	17.44	17.59	17.64	17.90
12H	16.87	16.94	17.09	17.15	17.40	17.36	17.42	17.58	17.63	17.89
4H 2H	18.10	18.17	18.31	18.37	18.62	18.97	19.05	19.18	19.24	19.49
3H	18.19	18.26	18.41	18.46	18.72	19.02	19.08	19.24	19.29	19.55
4H	18.18	18.24	18.41	18.46	18.72	19.00	19.06	19.23	19.28	19.54
6H	18.15	18.21	18.39	18.43	18.69	18.97	19.03	19.21	19.25	19.52
8H	18.13	18.18	18.37	18.41	18.68	18.95	19.01	19.20	19.24	19.50
12H	18.11	18.16	18.36	18.39	18.66	18.93	18.99	19.18	19.22	19.49
8H 4H	18.28	18.35	18.50	18.56	18.81	19.00	19.07	19.22	19.27	19.53
6H	18.39	18.44	18.64	18.67	18.95	19.00	19.05	19.26	19.29	19.57
8H	18.37	18.41	18.63	18.66	18.93	18.99	19.03	19.25	19.28	19.55
12H	18.34	18.38	18.61	18.64	18.92	18.97	19.01	19.23	19.26	19.54
12H 4H	18.49	18.54	18.74	18.77	19.04	19.01	19.07	19.26	19.30	19.57
6H	18.47	18.52	18.74	18.77	19.04	18.98	19.03	19.25	19.28	19.55

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/13 16:58:52

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

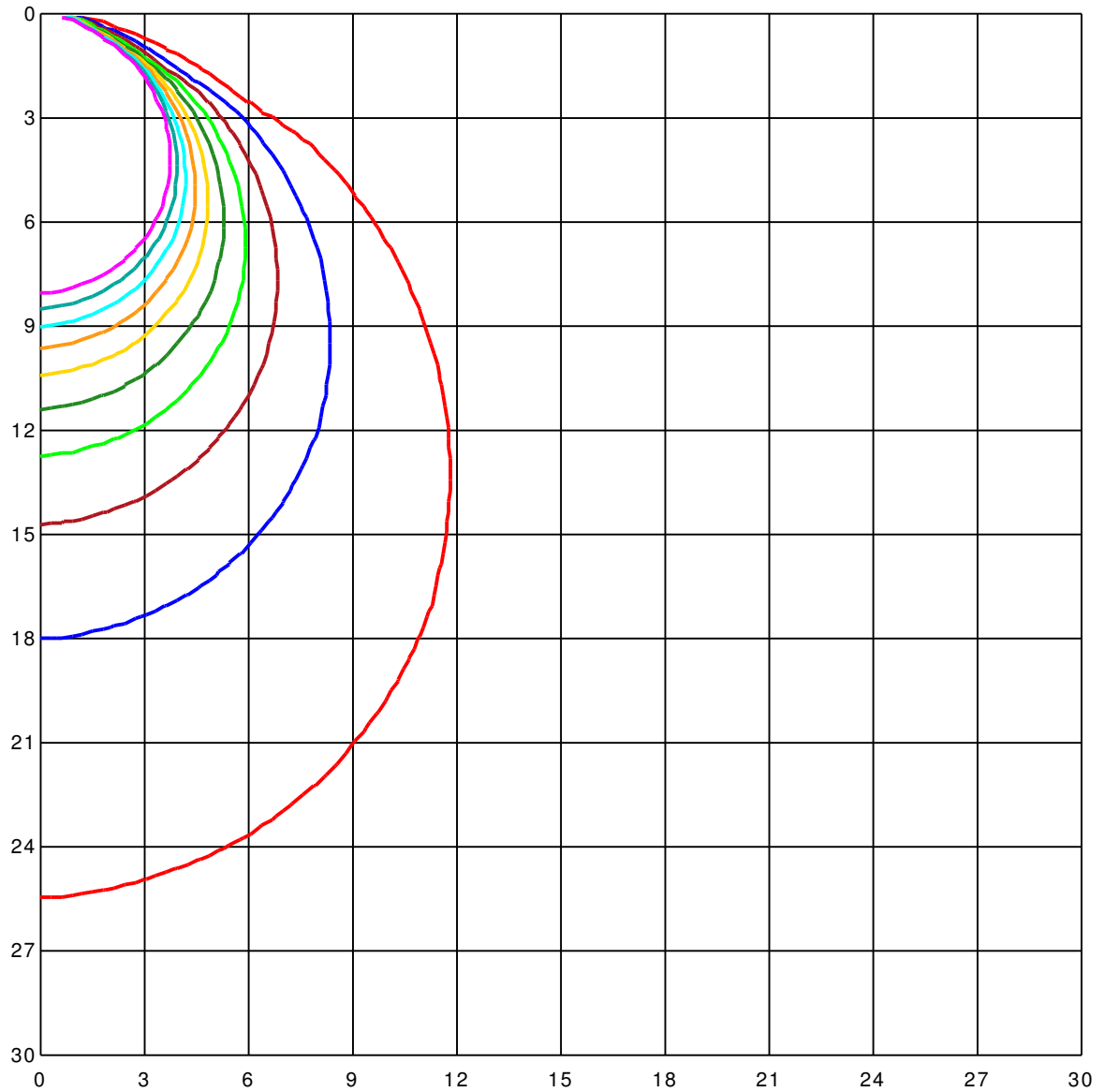
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/13 16:58:52

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

SPACE I SOLX DI AGRAM



Unit of illumination:lx

5.189
4.67
4.152
3.633
3.114

2.595
2.076
1.557
1.038
0.519

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 16:58:52

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

Gamma\ C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	336.89	329.43	321.21	322.5	329.72	332.46	324.84	326.53	332.74	
G1	336.17	327.22	321.29	323.63	330.64	332.86	325.32	325.2	332.62	
G2	335.6	326.13	322.94	324.52	331.61	332.86	325.6	325.68	332.58	
G3	334.43	324.84	321.29	325.4	333.63	332.82	325.56	326.45	332.66	
G4	333.75	323.43	321.93	326.05	334.39	330.68	325.64	326.77	332.42	
G5	332.46	321.98	320.64	326.57	333.39	332.22	326.73	327.06	332.3	
G6	331.33	320.48	320.48	327.1	333.99	331.89	325.32	327.5	331.89	
G7	329.88	319.03	320.2	327.3	334.48	331.13	325.24	327.86	331.49	
G8	328.71	317.26	319.48	327.62	334.6	330.44	326.61	327.82	330.77	
G9	327.1	315.68	318.87	327.46	335.08	329.6	326.13	327.74	330.28	
G10	325.64	313.71	317.94	328.79	334.96	328.83	323.67	327.46	329.15	
G11	324.03	309.92	315.2	327.3	335.36	327.74	323.14	327.02	328.23	
G12	322.5	309.64	314.07	327.22	335.0	326.77	322.66	326.73	327.26	
G13	320.77	305.68	314.6	328.83	334.92	325.52	321.81	324.31	326.13	
G14	319.8	305.24	313.43	326.65	334.68	324.48	320.85	325.32	324.68	
G15	316.69	301.01	311.25	326.01	333.99	323.18	319.27	324.48	323.18	
G16	314.92	300.28	310.52	326.81	333.59	321.85	316.53	323.31	320.2	
G17	312.62	296.45	309.07	325.0	332.86	319.92	315.2	322.38	318.75	
G18	310.68	294.8	307.34	324.23	332.02	316.49	312.14	320.93	318.06	
G19	307.94	291.98	305.77	323.63	329.03	314.68	309.43	319.27	316.17	
G20	305.89	288.91	305.85	322.5	329.84	313.18	308.1	318.43	314.03	
G21	303.1	286.01	302.18	321.53	328.75	311.05	304.19	314.96	312.14	
G22	300.4	282.54	300.28	318.79	327.14	306.13	299.31	313.31	309.84	
G23	295.48	279.19	298.1	319.31	325.97	303.87	299.43	311.65	307.58	
G24	294.48	275.73	296.05	317.94	325.2	301.73	293.87	311.17	305.28	
G25	289.43	272.18	293.83	316.45	322.5	299.23	291.81	309.19	302.74	
G26	287.9	268.39	291.69	313.39	320.52	295.64	289.39	305.85	300.24	
G27	283.43	264.72	289.15	311.57	318.59	293.43	283.63	302.74	298.67	
G28	280.68	260.73	286.65	311.05	318.47	291.13	281.17	300.0	294.68	
G29	277.02	256.73	283.99	309.11	314.6	288.35	275.56	297.06	291.69	
G30	273.18	252.38	281.13	307.02	312.18	285.4	272.74	294.35	288.55	
G31	268.95	248.27	278.31	304.6	311.21	282.38	271.29	292.02	285.44	
G32	265.0	243.99	275.28	302.3	307.3	279.72	265.32	289.52	281.33	
G33	262.1	239.76	272.14	299.76	305.24	277.94	261.09	287.42	277.26	
G34	257.86	235.08	269.11	297.46	301.98	274.07	254.88	285.32	273.67	
G35	251.65	230.69	264.56	296.37	299.39	271.61	251.98	282.38	271.33	
G36	247.3	225.97	262.26	292.14	296.29	268.23	245.93	280.32	265.85	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 16:58:52

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	243.43	221.33	258.71	290.56	293.27	265.44	242.7	277.18	263.67	
G38	237.58	216.25	255.12	286.37	289.92	262.46	238.14	274.68	259.56	
G39	232.62	211.53	252.06	283.67	286.57	258.83	233.19	271.25	254.72	
G40	227.62	206.57	247.58	280.6	283.18	254.96	229.48	268.02	250.52	
G41	222.62	201.65	243.75	277.66	279.6	251.69	223.83	265.85	246.01	
G42	217.66	196.57	239.84	274.27	275.97	247.58	219.35	260.48	241.61	
G43	212.5	191.57	235.97	270.93	271.89	243.83	213.87	256.73	236.29	
G44	206.09	186.41	231.85	267.54	268.43	239.19	206.69	252.58	231.33	
G45	201.98	181.33	229.15	263.99	264.68	234.39	203.87	248.35	226.77	
G46	196.45	175.93	224.48	258.51	260.4	230.4	197.3	243.87	221.49	
G47	189.8	170.64	220.16	256.33	257.26	225.64	193.47	239.52	216.25	
G48	185.44	165.97	215.16	252.34	252.06	220.89	186.98	235.0	212.34	
G49	179.64	159.48	210.28	247.98	248.06	215.81	181.09	230.0	206.21	
G50	173.83	153.71	205.44	243.55	243.63	210.69	176.33	225.08	201.05	
G51	167.7	148.06	199.96	238.55	238.95	205.36	169.72	219.27	195.24	
G52	161.81	142.34	195.36	234.52	235.56	200.16	163.31	214.72	189.76	
G53	156.09	136.45	188.35	229.8	230.97	194.19	157.46	208.83	184.39	
G54	150.0	130.48	181.94	224.76	225.08	188.91	152.06	203.19	177.94	
G55	143.99	124.56	175.0	220.04	220.2	183.31	147.06	195.97	173.1	
G56	138.02	118.63	167.26	216.33	215.12	178.02	139.64	191.61	167.14	
G57	132.22	112.7	159.76	210.04	209.84	173.02	133.23	184.64	161.85	
G58	126.09	106.49	151.41	204.72	204.84	166.29	126.53	179.48	155.16	
G59	120.4	99.88	144.39	199.52	198.95	160.64	120.04	173.59	150.12	
G60	113.47	94.48	137.3	194.23	194.64	155.85	113.47	167.58	144.48	
G61	107.42	88.71	129.84	189.27	189.44	149.07	107.18	161.53	138.51	
G62	101.21	82.94	121.45	183.43	182.62	144.15	100.65	155.56	133.59	
G63	95.56	77.46	113.75	178.02	177.42	137.58	94.44	149.56	127.22	
G64	90.12	71.9	106.94	172.58	172.98	132.02	87.94	143.71	121.73	
G65	84.19	66.37	99.88	167.1	167.58	126.37	81.61	137.74	116.45	
G66	61.37	60.81	91.85	161.17	161.01	120.4	74.6	131.77	107.54	
G67	54.64	55.73	85.36	155.56	148.39	114.84	68.39	125.97	83.43	
G68	50.08	50.69	77.58	148.55	142.82	108.67	61.98	120.24	73.71	
G69	46.01	45.77	70.6	143.31	137.82	103.39	54.96	114.23	69.15	
G70	41.85	40.85	63.43	136.21	132.66	97.06	48.27	108.31	64.23	
G71	38.19	36.25	56.05	125.32	127.54	91.65	41.81	101.85	59.07	
G72	34.68	31.65	49.27	100.12	122.5	81.94	35.93	88.75	54.72	
G73	31.29	27.18	42.9	93.14	117.38	76.94	30.28	83.63	50.44	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/13 16:58:52

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 16:58:52

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