

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 127V-2835-198L-5000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

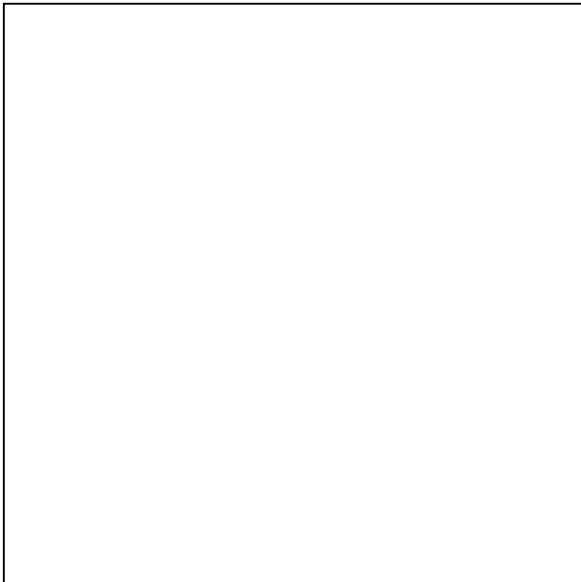
Voltage(V): 126.80 V
Current(A): 0.0870 A
Power(W): 10.52 W
Power Factor: 0.9450
Lamp Luminous Flux: 929.51

Photometric Results

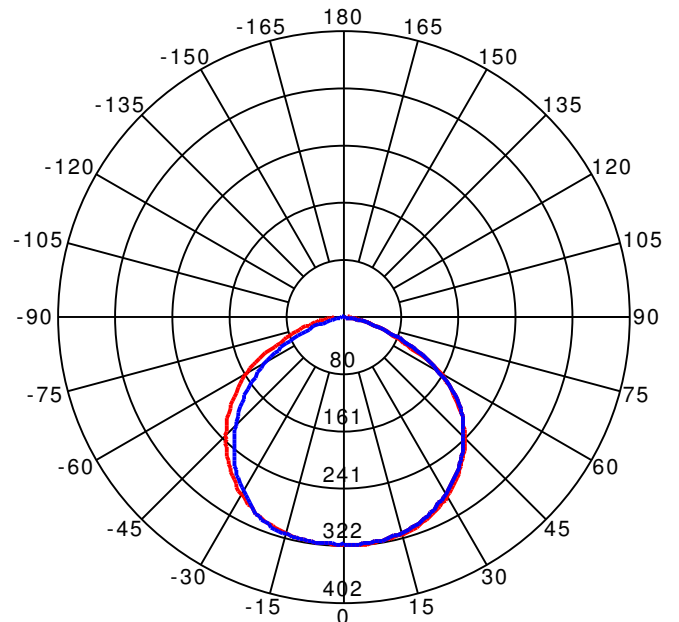
CIE Class: Direct
Luminaire Luminous Flux: 929.5129
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.36 lm/W
Beam Angle(50%) C0-180,C90-270: 118.6,113.5
Field Angle(10%) C0-180,C90-270: 159.7,149.9

Max. Intensity: 321.77 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 321.37 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



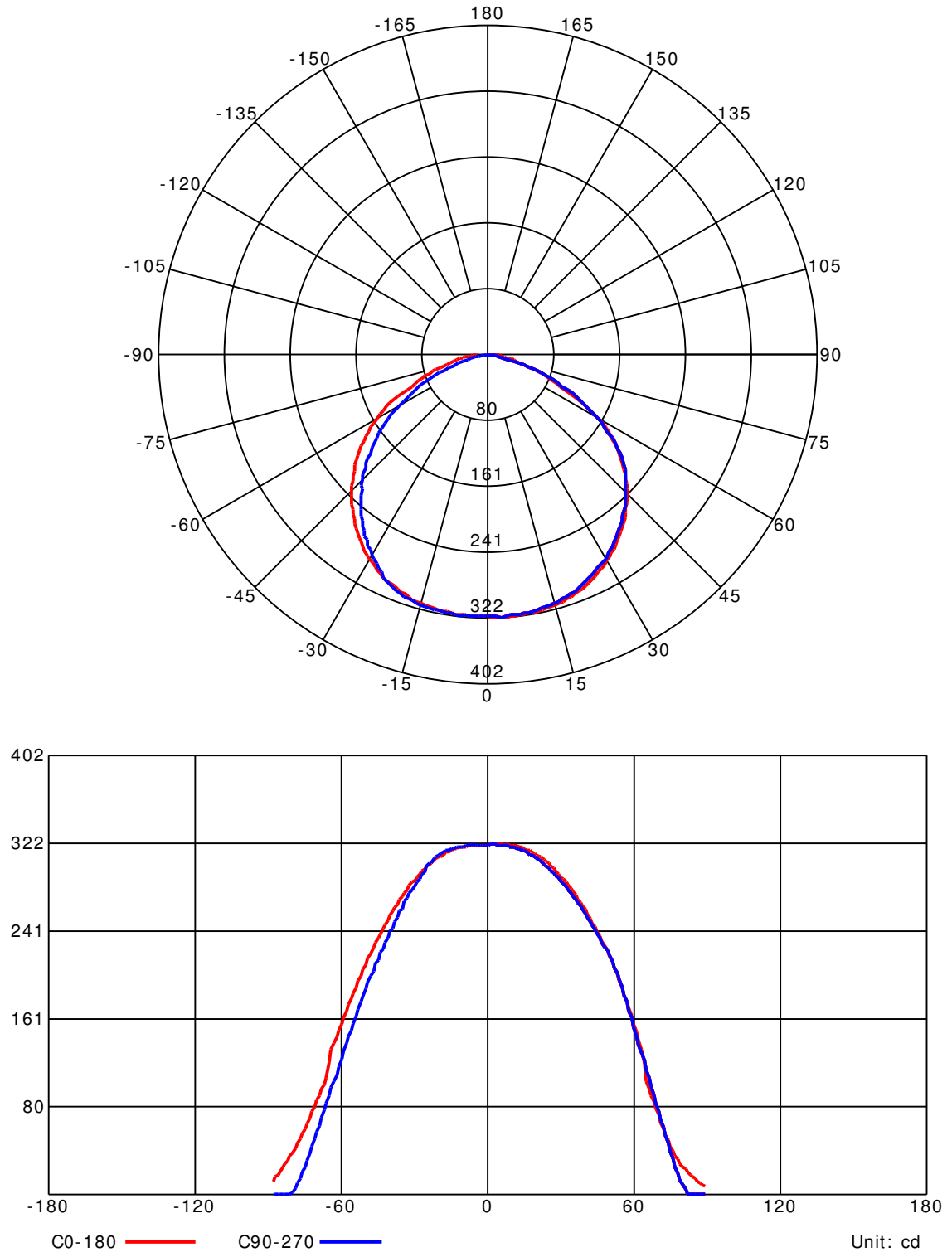
Beam Angle(50%) C0-180,C90-270: 113.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:30:29

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

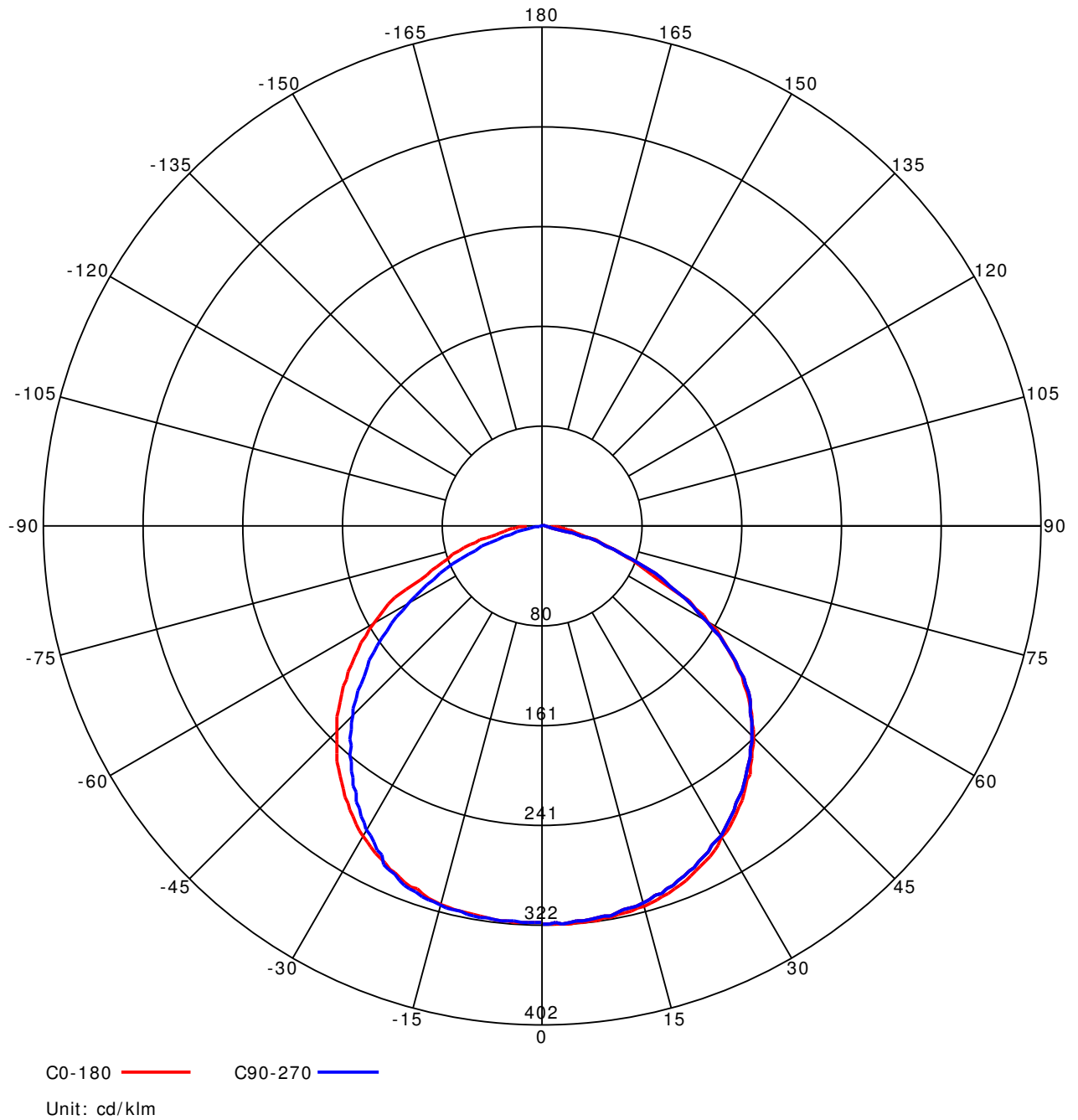
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:30:29

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



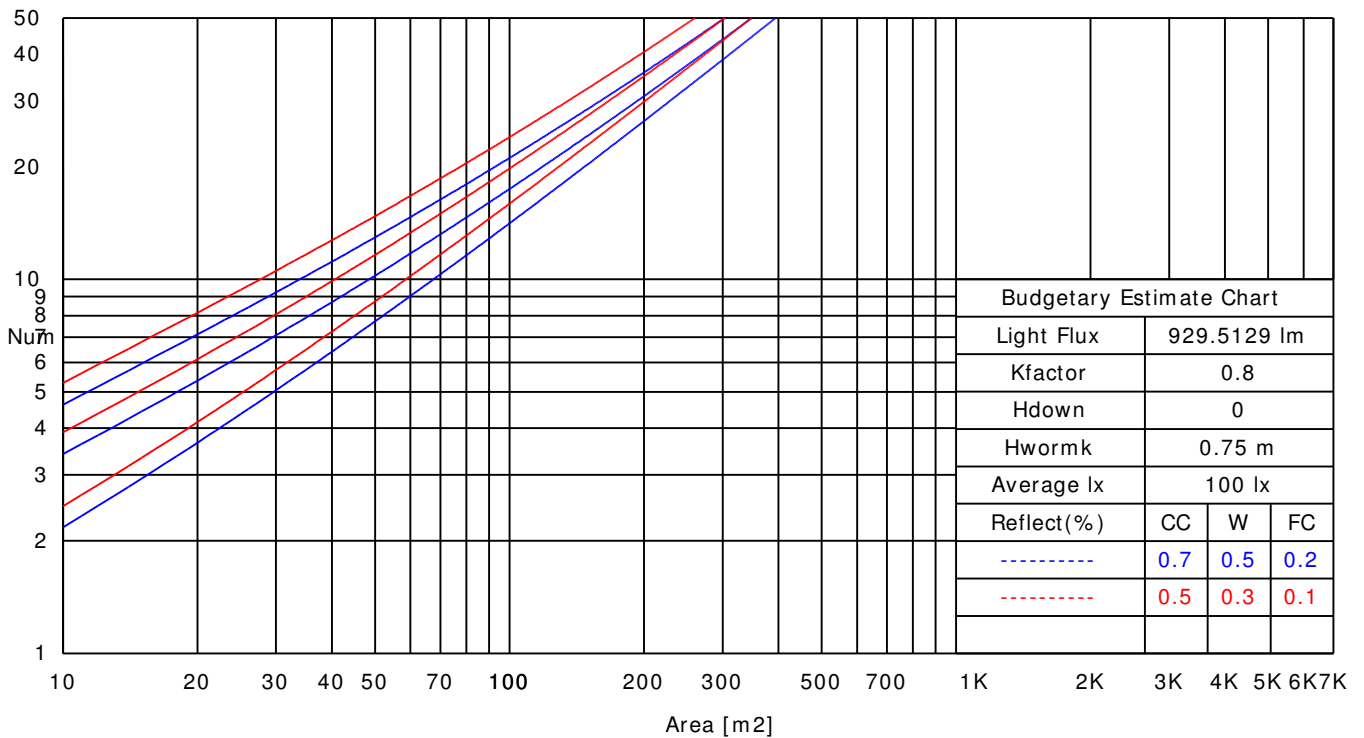
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:30:29

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	1.08	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.82
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.84	0.82	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.64
4	0.77	0.75	0.73	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.65	0.71	0.66	0.61	0.57
5	0.70	0.68	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.55	0.52
6	0.64	0.61	0.60	0.64	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.61	0.55	0.50	0.47
7	0.58	0.56	0.55	0.58	0.55	0.53	0.58	0.54	0.51	0.58	0.52	0.49	0.56	0.51	0.46	0.43
8	0.54	0.51	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.54	0.48	0.45	0.53	0.47	0.42	0.39
9	0.50	0.48	0.46	0.50	0.47	0.45	0.50	0.46	0.43	0.50	0.45	0.41	0.49	0.44	0.39	0.36
10	0.46	0.44	0.43	0.47	0.44	0.42	0.47	0.43	0.40	0.47	0.42	0.38	0.47	0.41	0.36	0.34

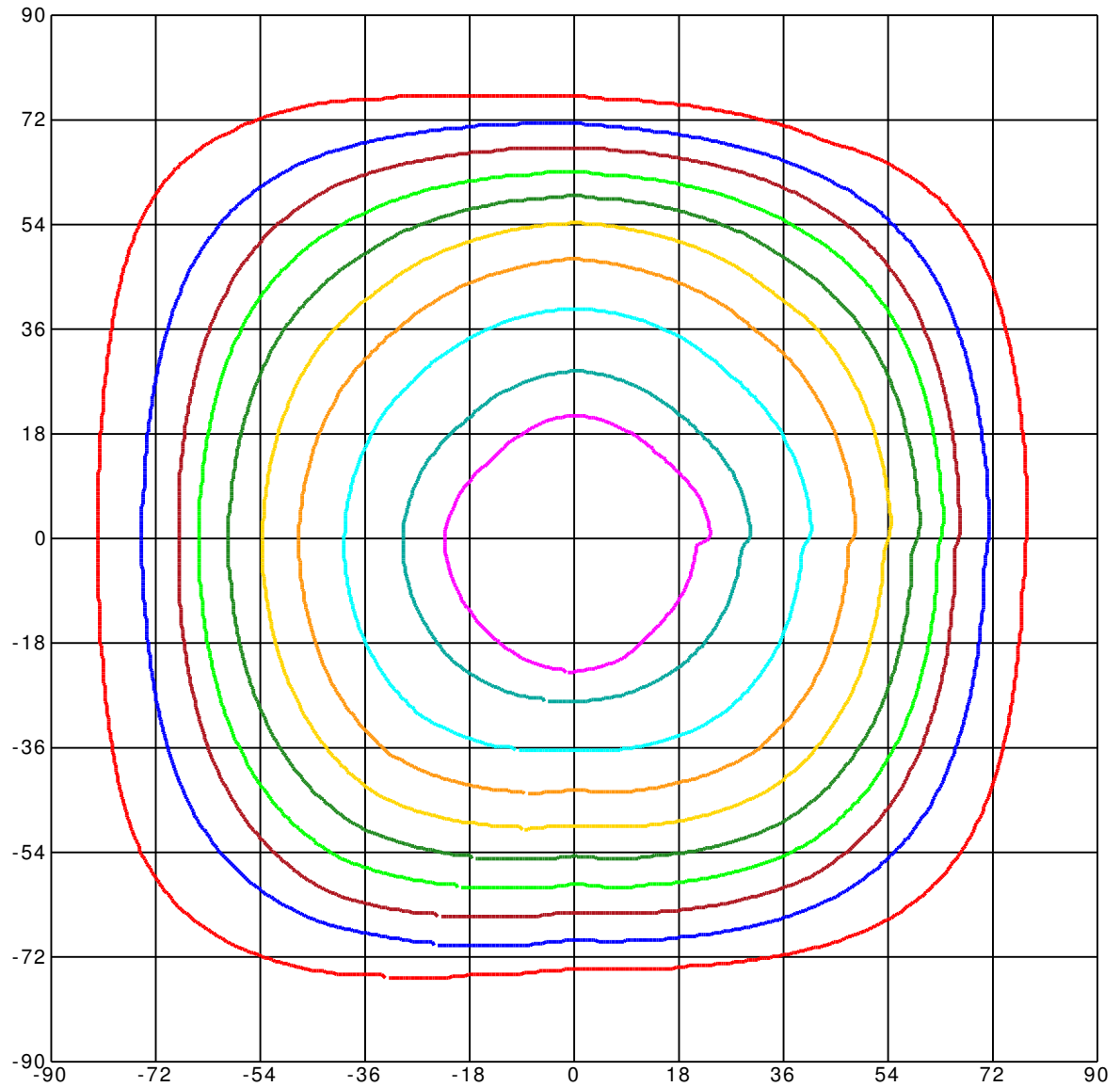
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:30:29

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 $I_{max}(100\%): 321.774 \text{ cd}$

305.685(95% I_{max})	160.887(50% I_{max})
289.596(90% I_{max})	128.709(40% I_{max})
257.419(80% I_{max})	96.532(30% I_{max})
225.242(70% I_{max})	64.355(20% I_{max})
193.064(60% I_{max})	32.177(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:30:29

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

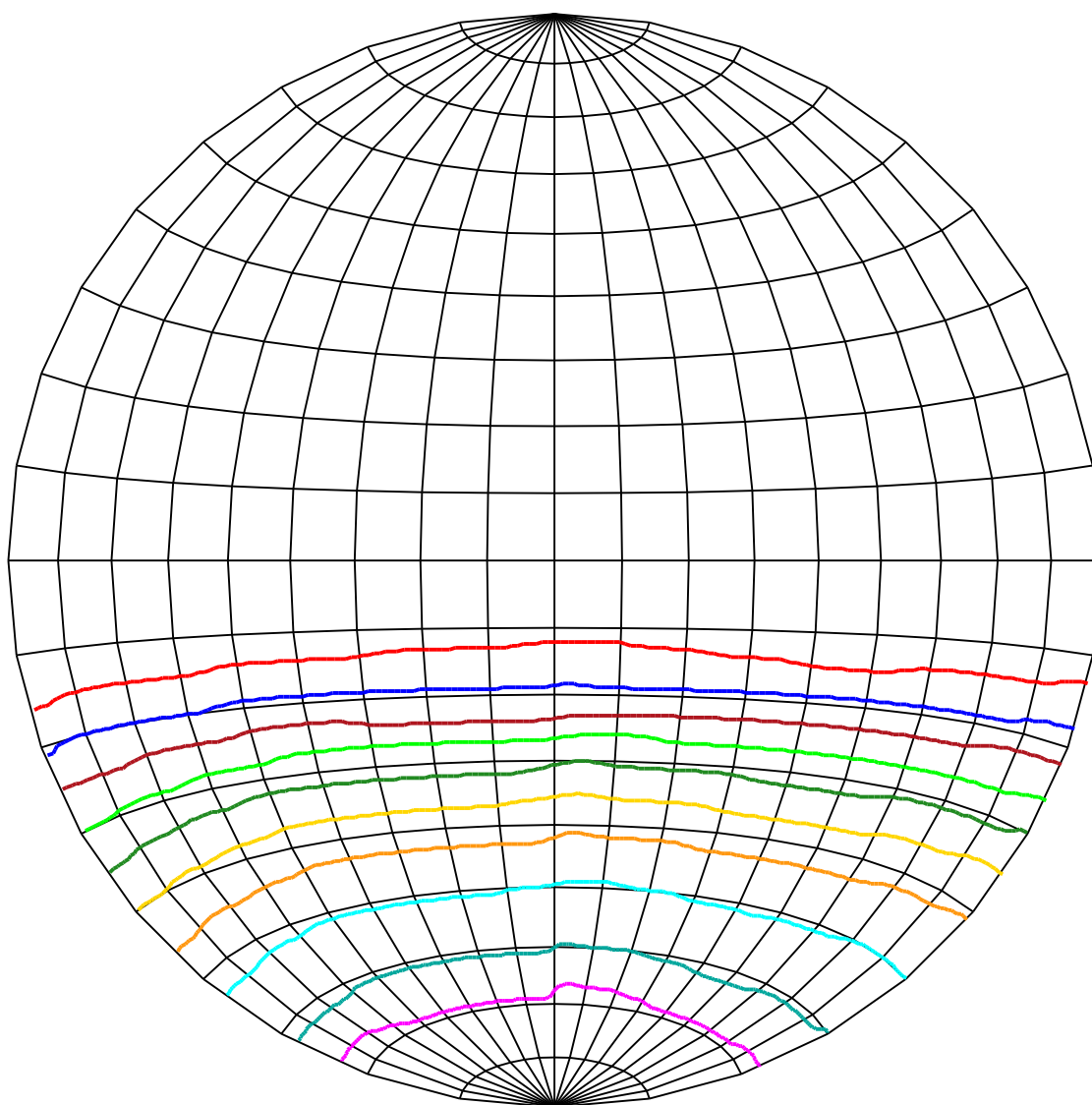
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd $I_{max}(100\%)$: 321.774 cd

305.685(95% I_{max})
289.596(90% I_{max})
257.419(80% I_{max})
225.242(70% I_{max})
193.064(60% I_{max})

160.887(50% I_{max})
128.709(40% I_{max})
96.532(30% I_{max})
64.355(20% I_{max})
32.177(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:30:29

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

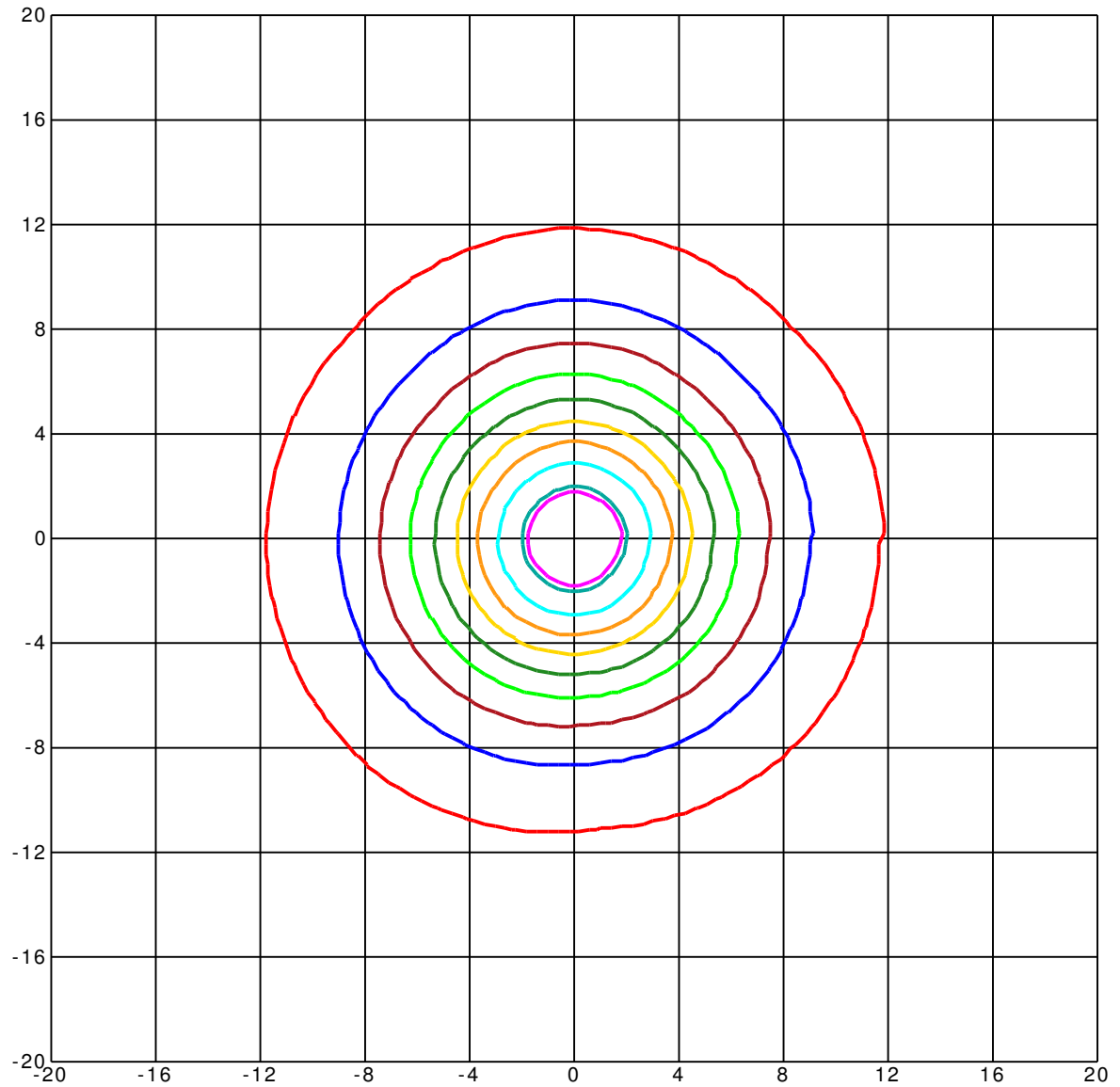
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOLX DIAGRAM



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

4.62(1% Emax)	2.511(1% Emax)
4.52(1% Emax)	2.009(1% Emax)
4.018(1% Emax)	1.507(0% Emax)
3.516(1% Emax)	1.004(0% Emax)
3.013(1% Emax)	0.502(0% Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:30:29

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

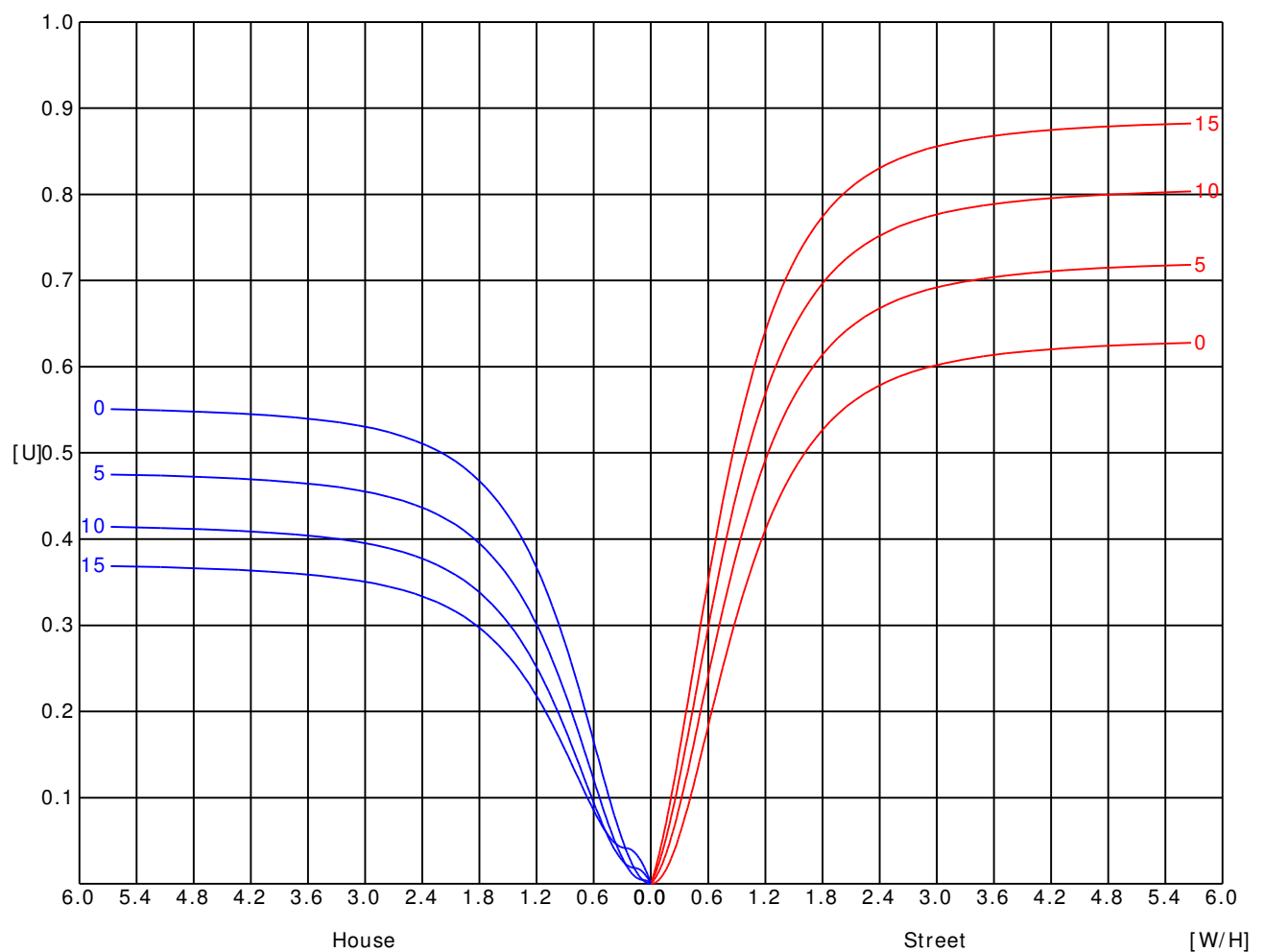
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

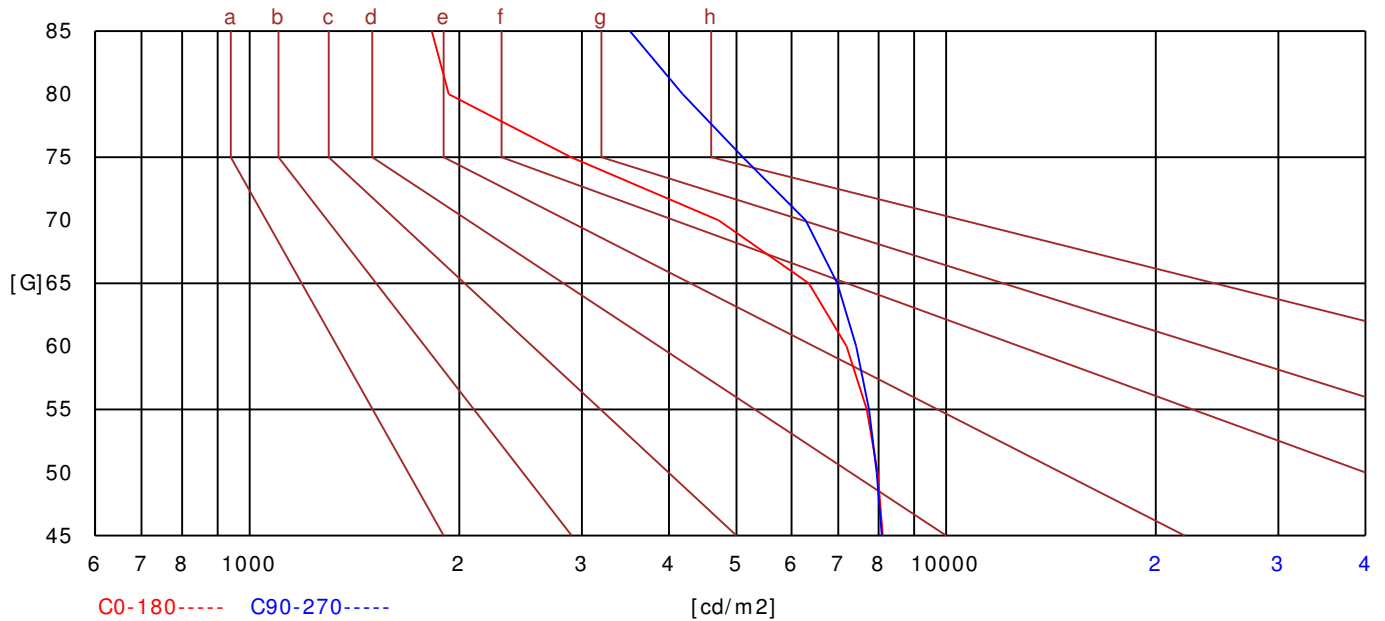


C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:30:29

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

BRIGHT LIMIT DIAGRAM

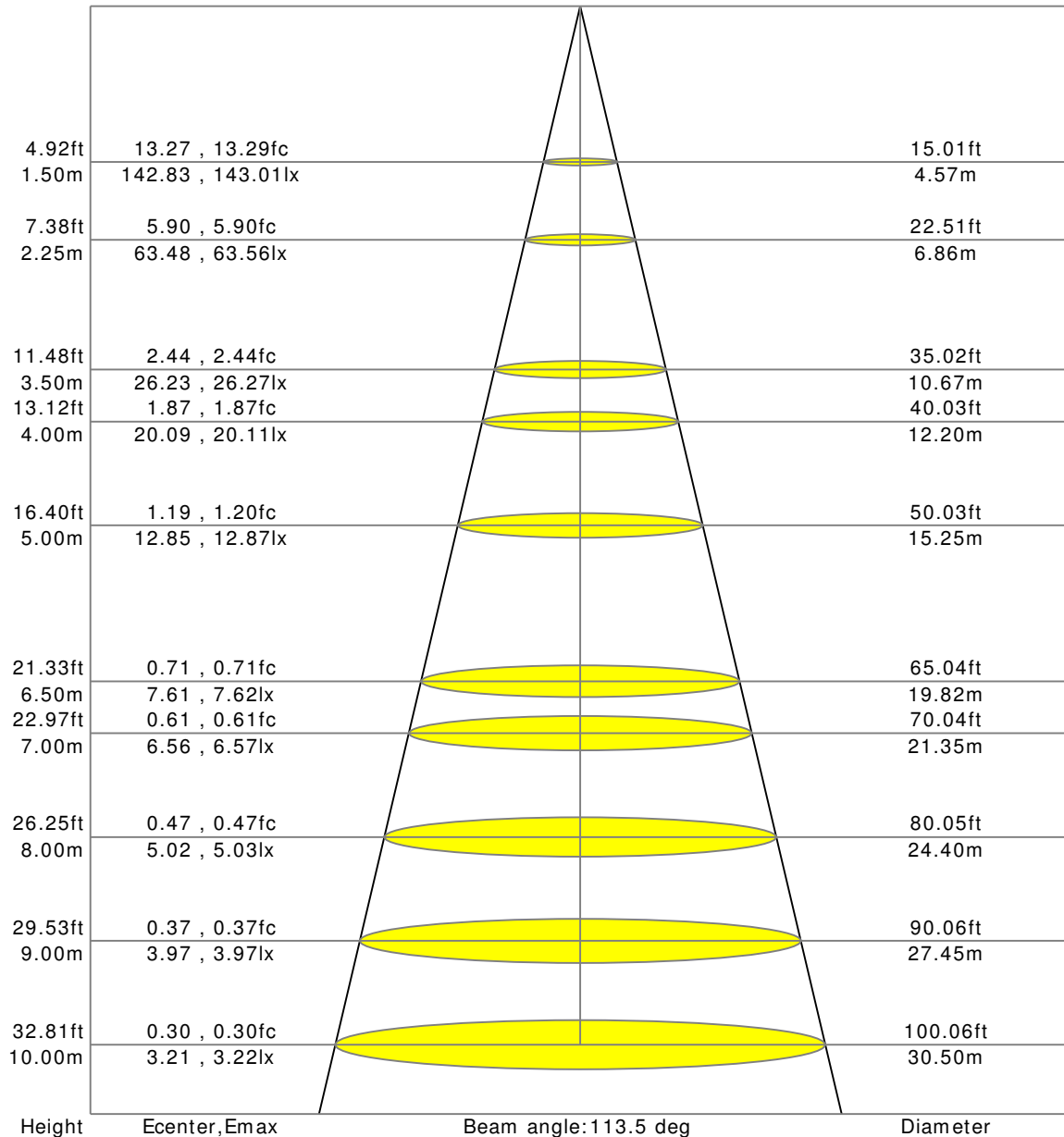
C/G	45	50	55	60	65	70	75	80	85
C0	8113	7976	7693	7198	6352	4716	2894	1933	1827
C90	8082	7946	7749	7425	6977	6284	5110	4186	3516
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<= 300				
1.5	B		2000	1000	500	<= 300			
1.85	C			2000	1000	500	<= 300		
2.2	D				2000	1000	500	<= 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: 2020/3/14 10:30:29

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: 2020/3/14 10:30:29

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	19.26	19.34	19.46	19.52	19.77	19.24	19.32	19.44	19.51	19.75
3H	19.32	19.39	19.52	19.58	19.83	19.29	19.37	19.50	19.56	19.81
4H	19.30	19.37	19.51	19.57	19.82	19.28	19.35	19.49	19.55	19.80
6H	19.27	19.34	19.49	19.54	19.80	19.26	19.32	19.47	19.53	19.78
8H	19.26	19.33	19.48	19.53	19.78	19.24	19.31	19.46	19.51	19.77
12H	19.24	19.31	19.47	19.51	19.77	19.22	19.29	19.45	19.50	19.75
4H 2H	20.85	20.92	21.06	21.12	21.37	20.88	20.95	21.09	21.15	21.40
3H	20.95	21.02	21.17	21.22	21.48	20.97	21.04	21.19	21.24	21.50
4H	20.94	21.01	21.17	21.22	21.48	20.97	21.03	21.20	21.24	21.50
6H	20.92	20.97	21.15	21.19	21.46	20.94	21.00	21.18	21.22	21.49
8H	20.90	20.95	21.14	21.18	21.44	20.93	20.98	21.17	21.21	21.48
12H	20.88	20.93	21.12	21.16	21.43	20.91	20.96	21.16	21.19	21.46
8H 4H	21.15	21.22	21.37	21.42	21.68	20.95	21.02	21.17	21.22	21.47
6H	21.31	21.36	21.57	21.60	21.87	21.04	21.09	21.30	21.33	21.60
8H	21.30	21.34	21.56	21.59	21.86	21.03	21.08	21.29	21.32	21.60
12H	21.28	21.32	21.54	21.57	21.85	21.02	21.06	21.29	21.31	21.59
12H 4H	21.44	21.49	21.69	21.72	21.99	21.04	21.09	21.29	21.32	21.59
6H	21.45	21.49	21.71	21.74	22.01	21.03	21.07	21.29	21.32	21.59

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:30:29

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

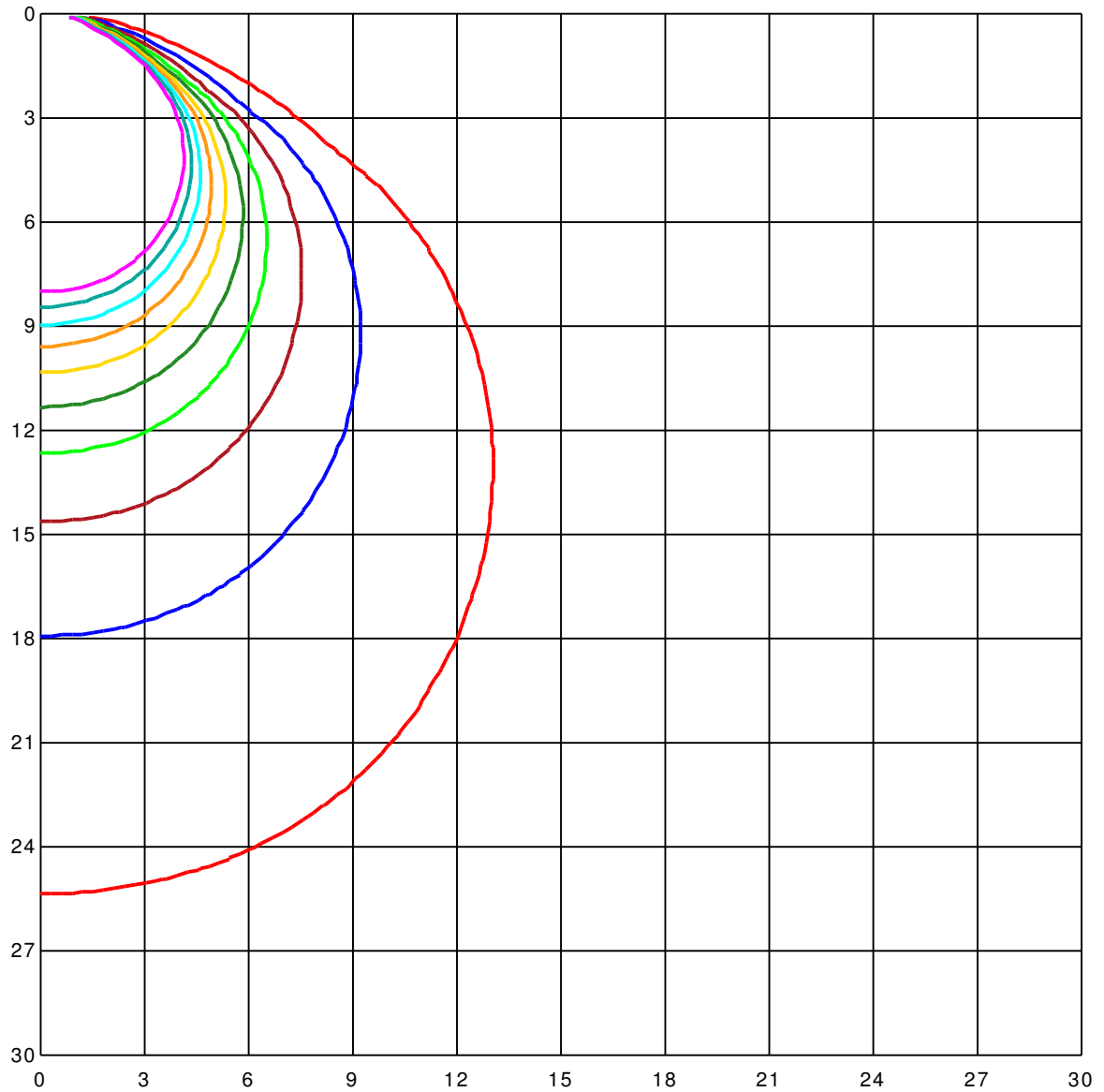
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:30:29

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



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:30:29

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	321.37	321.17	320.36	320.32	320.12	320.0	319.19	318.83	319.15	
G1	321.57	321.01	320.48	320.24	319.56	320.16	319.35	319.84	319.15	
G2	321.57	320.89	320.52	319.6	320.0	320.24	319.76	319.88	320.4	
G3	321.77	320.64	321.33	320.08	320.16	319.31	319.52	319.68	320.32	
G4	321.65	320.48	320.2	319.11	320.04	320.16	319.72	319.56	319.31	
G5	320.81	320.12	320.0	319.68	319.92	320.12	319.6	319.19	319.31	
G6	321.45	319.84	319.84	319.31	319.68	319.88	320.68	319.56	319.03	
G7	320.44	319.52	319.64	318.27	319.48	319.31	319.43	318.59	318.91	
G8	321.09	319.92	319.27	318.59	319.11	319.27	319.23	319.27	318.43	
G9	319.88	318.71	318.95	317.82	318.71	318.83	319.11	317.66	318.18	
G10	320.28	318.1	318.87	317.38	318.43	318.47	318.71	317.02	317.7	
G11	319.68	317.54	317.74	316.53	318.18	317.66	318.59	316.37	317.14	
G12	319.23	316.61	316.89	315.85	317.62	316.98	318.1	315.93	316.61	
G13	318.71	315.85	316.53	314.8	317.06	316.41	317.58	315.36	315.89	
G14	317.78	313.67	315.93	313.35	316.33	315.81	317.06	314.68	314.92	
G15	317.02	313.67	314.8	312.34	315.68	316.13	316.45	313.51	313.02	
G16	316.05	312.5	313.79	310.73	314.6	314.88	315.68	312.54	312.82	
G17	315.12	310.97	311.37	309.39	313.59	312.86	314.8	310.64	310.93	
G18	314.07	309.64	311.01	308.87	311.21	311.73	313.71	310.16	310.16	
G19	312.82	308.14	309.84	306.41	309.8	310.2	312.54	307.58	308.79	
G20	311.61	306.29	308.23	304.6	309.48	308.83	310.97	307.22	307.18	
G21	309.96	304.03	306.53	302.86	307.86	307.26	309.88	304.35	305.44	
G22	308.99	302.46	304.8	301.09	306.05	304.52	308.02	303.79	303.71	
G23	306.69	300.97	302.9	299.19	303.75	303.83	304.35	301.85	301.81	
G24	305.04	298.31	301.01	297.22	302.42	301.89	302.98	299.72	299.92	
G25	303.06	295.97	298.99	294.76	300.4	299.8	301.05	297.5	297.78	
G26	301.05	294.6	296.81	292.5	297.9	297.58	295.4	295.0	295.64	
G27	298.83	291.98	294.43	290.16	296.41	295.24	293.27	292.66	293.47	
G28	296.45	288.47	292.1	287.62	293.14	292.7	288.47	290.12	291.13	
G29	294.11	285.89	289.84	285.0	290.73	289.84	286.09	287.58	288.67	
G30	290.44	283.91	288.02	282.34	288.1	287.5	283.02	284.84	286.05	
G31	288.87	280.08	284.76	279.52	286.29	284.72	278.79	282.02	282.78	
G32	286.21	277.3	282.1	276.33	283.43	281.85	276.09	279.11	280.52	
G33	283.31	274.23	279.39	273.18	279.52	278.91	270.89	277.06	277.66	
G34	280.08	271.13	276.49	270.2	276.33	275.73	268.1	273.14	273.67	
G35	276.98	267.58	273.1	267.54	273.23	272.34	261.89	270.0	270.44	
G36	274.03	263.55	270.64	263.43	269.92	269.27	259.48	266.69	268.23	

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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	270.48	260.89	267.62	259.84	265.97	265.73	253.67	263.31	264.23	
G38	267.14	257.3	264.35	257.22	262.82	262.3	250.4	259.8	261.41	
G39	263.59	253.99	260.85	252.7	259.19	258.71	244.44	256.29	257.74	
G40	261.05	250.2	256.69	248.91	255.36	255.08	241.01	252.46	254.07	
G41	256.49	246.41	253.91	245.2	251.45	251.33	234.84	248.75	250.73	
G42	252.9	242.34	250.36	241.25	247.38	247.42	231.33	244.68	246.85	
G43	248.91	238.06	246.37	236.94	243.27	243.39	225.16	240.64	242.98	
G44	245.0	233.91	242.9	232.9	238.43	239.19	221.41	236.41	238.27	
G45	240.93	229.48	239.03	228.59	234.68	234.8	214.96	232.02	234.07	
G46	236.85	225.56	234.96	224.11	230.36	230.4	211.09	227.34	230.69	
G47	232.3	220.36	230.85	219.64	225.89	225.89	204.64	222.86	225.28	
G48	227.26	215.4	226.57	214.8	221.13	220.97	199.39	217.9	221.17	
G49	223.1	210.4	223.02	210.04	216.25	215.89	194.03	212.82	216.37	
G50	217.9	205.08	218.51	204.31	211.01	210.77	187.7	207.26	210.24	
G51	212.58	199.92	213.79	199.15	205.85	205.69	181.17	202.5	204.88	
G52	207.06	194.35	208.06	194.6	200.69	200.24	176.57	196.21	199.15	
G53	201.49	188.55	203.02	189.07	195.36	194.88	170.16	190.44	193.63	
G54	195.4	182.74	196.57	183.43	190.24	188.99	163.59	184.19	187.42	
G55	189.39	176.49	190.32	177.78	184.76	183.23	156.98	177.98	181.45	
G56	183.02	170.52	183.27	172.22	179.19	177.38	150.81	171.69	175.08	
G57	176.98	163.83	176.09	166.49	173.79	171.45	144.56	165.12	168.55	
G58	170.2	157.74	168.71	160.81	168.02	165.6	138.27	158.75	161.09	
G59	163.43	150.97	161.57	154.68	162.38	159.52	131.21	151.69	154.96	
G60	155.64	143.95	153.91	148.51	156.57	153.35	124.03	144.52	147.54	
G61	148.47	136.89	145.24	142.38	150.6	147.1	116.53	137.26	140.08	
G62	141.01	129.68	137.26	136.21	144.52	140.64	110.04	129.48	131.77	
G63	132.86	122.14	129.68	130.28	138.51	134.27	103.87	122.38	124.68	
G64	119.35	115.04	122.06	124.15	132.66	127.82	97.74	114.6	110.16	
G65	104.03	107.38	114.27	117.94	120.97	121.41	90.24	106.73	98.55	
G66	97.22	99.64	106.53	111.73	106.85	114.8	83.79	98.71	92.02	
G67	91.21	91.81	99.19	105.52	101.33	108.19	77.74	90.81	86.05	
G68	85.16	84.15	91.17	99.11	96.13	101.45	70.36	83.35	79.8	
G69	78.63	76.73	83.43	92.74	90.85	94.6	63.63	75.73	74.15	
G70	72.5	64.52	76.25	85.97	85.56	87.94	57.7	66.13	67.62	
G71	66.17	51.33	68.55	75.12	80.52	81.25	51.29	56.05	61.94	
G72	60.36	44.11	61.13	68.59	75.4	68.55	44.07	49.72	55.93	
G73	54.88	39.03	53.47	63.55	70.08	62.58	37.74	44.07	50.65	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:30:29

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: 2020/3/14 10:30:29

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