

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 127V-2835-198L-2700K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

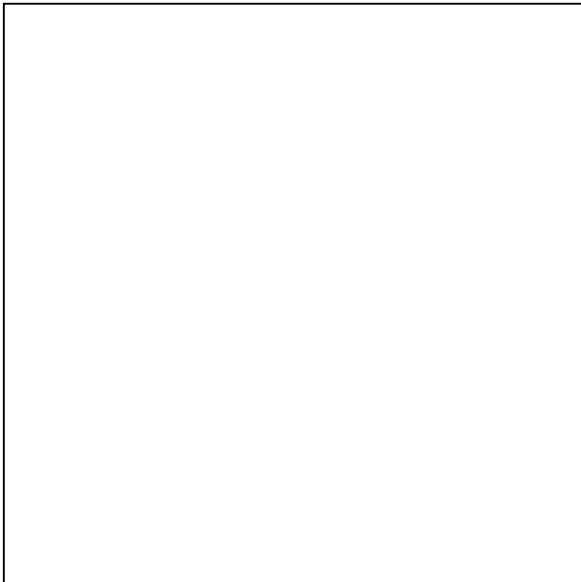
Voltage(V): 126.81 V
Current(A): 0.0880 A
Power(W): 10.63 W
Power Factor: 0.9440
Lamp Luminous Flux: 870.83

Photometric Results

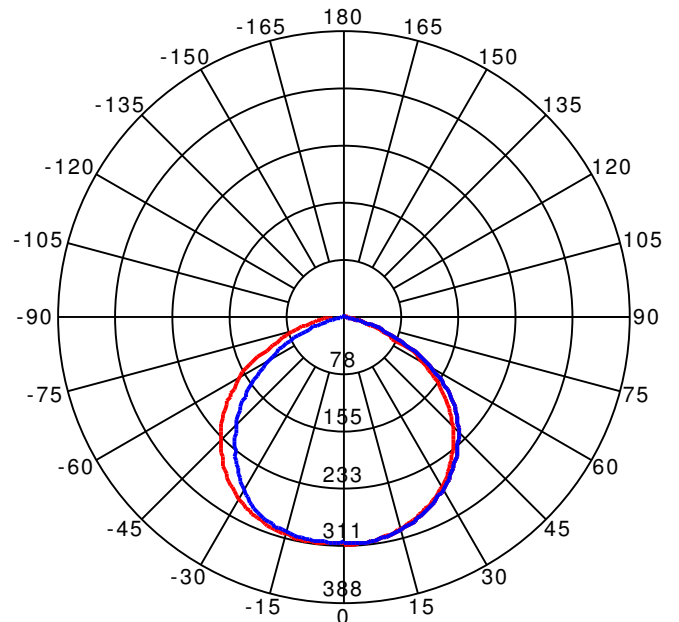
CIE Class: Direct
Luminaire Luminous Flux: 870.8339
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 81.92 lm/W
Beam Angle(50%) C0-180,C90-270: 116.1,111.3
Field Angle(10%) C0-180,C90-270: 158.0,149.2

Max. Intensity: 310.77 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 309.64 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



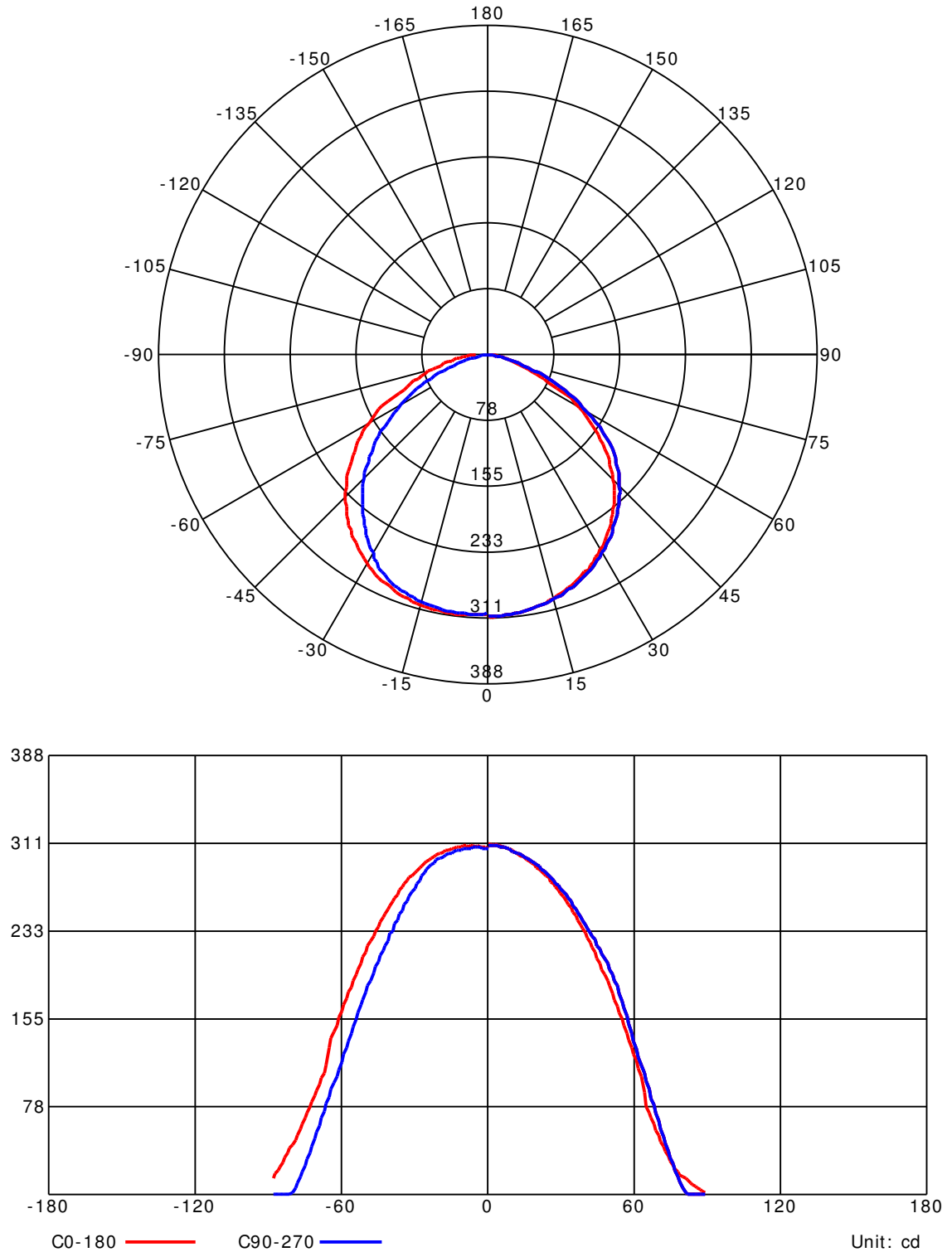
Beam Angle(50%) C0-180,C90-270: 111.3 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:15:34

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 10:15:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

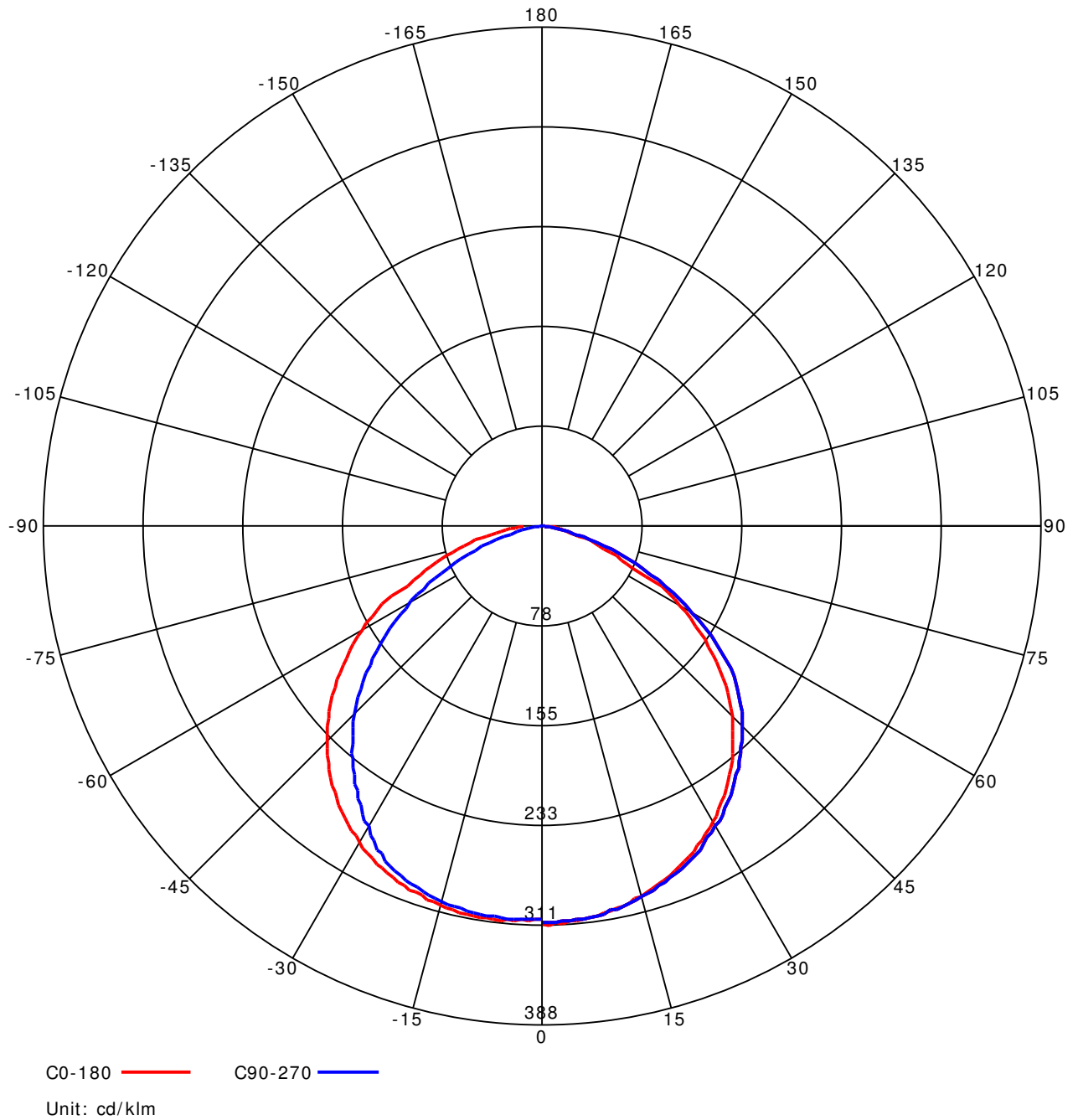
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

Luminous Intensity Distribution Curve



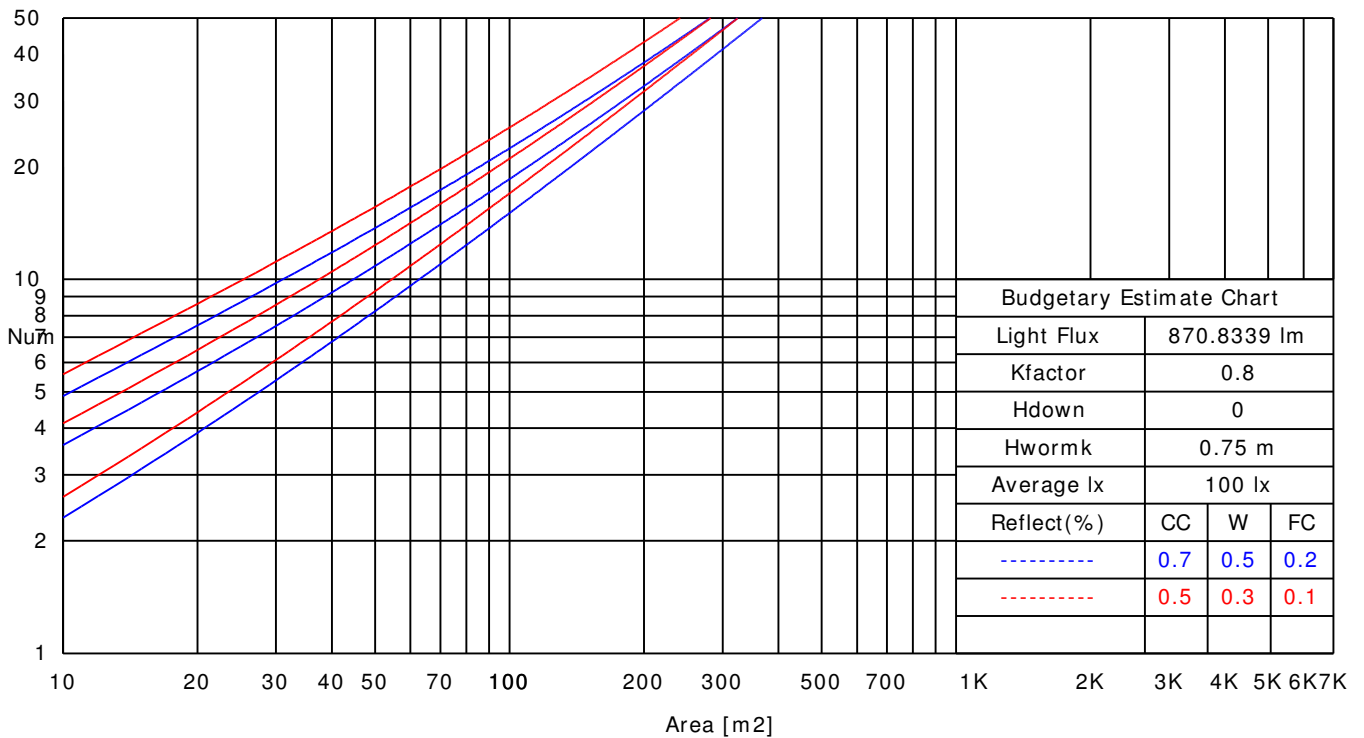
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:15:34

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	0.94	0.91	0.89	0.87	0.82
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.89	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.70	0.68	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.68	0.63	0.59	0.65	0.60	0.56	0.52
6	0.64	0.62	0.60	0.64	0.61	0.59	0.64	0.59	0.56	0.62	0.57	0.54	0.61	0.55	0.51	0.47
7	0.59	0.56	0.55	0.59	0.56	0.54	0.59	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.46	0.43
8	0.54	0.52	0.51	0.54	0.51	0.49	0.54	0.50	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.39
9	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.36
10	0.47	0.45	0.43	0.47	0.44	0.42	0.47	0.43	0.41	0.47	0.42	0.39	0.47	0.41	0.37	0.34

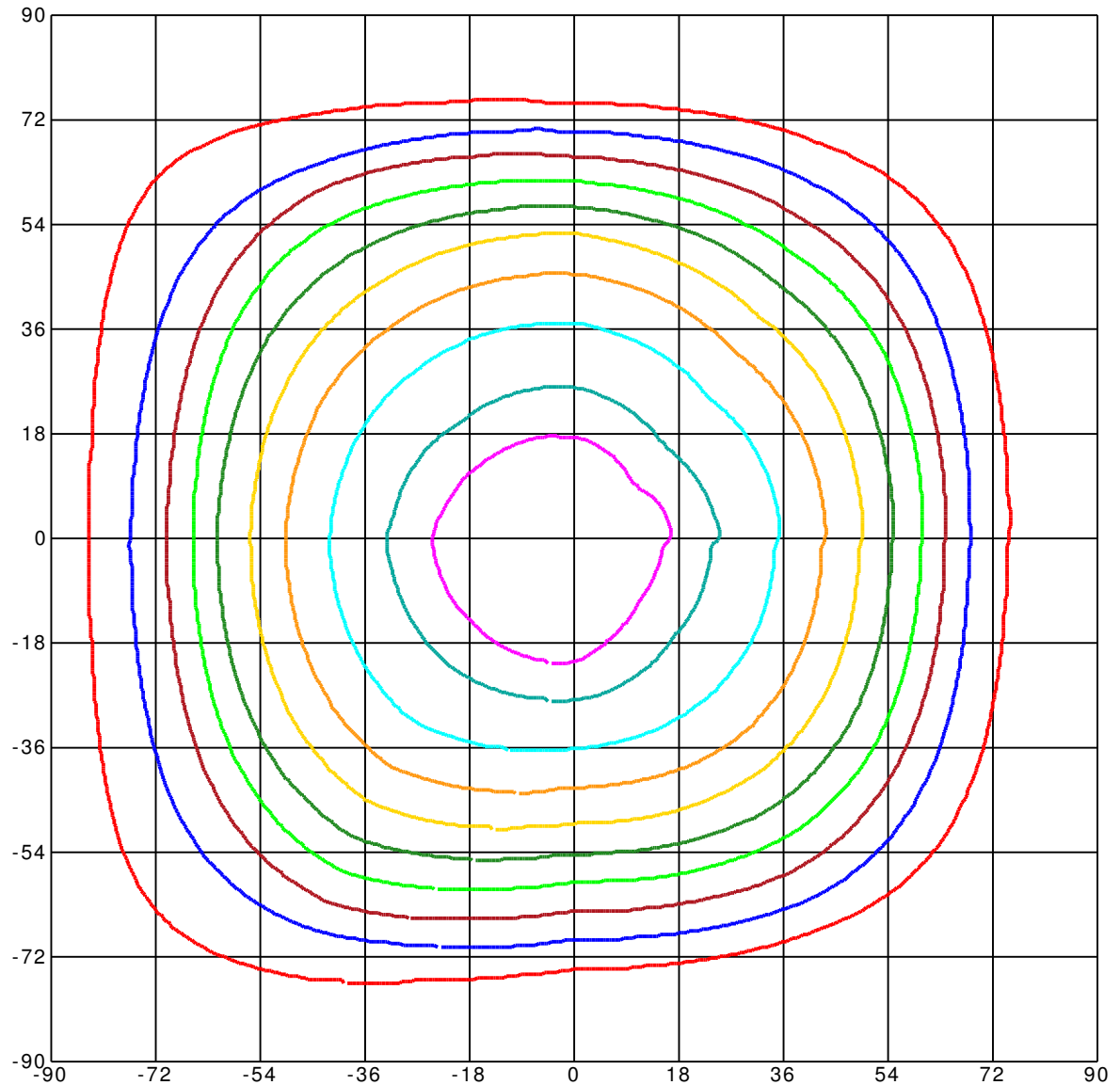
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:15:34

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 $I_{max}(100\%)$: 310.766 cd

295.227(95% I_{max})
279.689(90% I_{max})
248.612(80% I_{max})
217.536(70% I_{max})
186.459(60% I_{max})

155.383(50% I_{max})
124.306(40% I_{max})
93.23(30% I_{max})
62.153(20% I_{max})
31.077(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:15:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

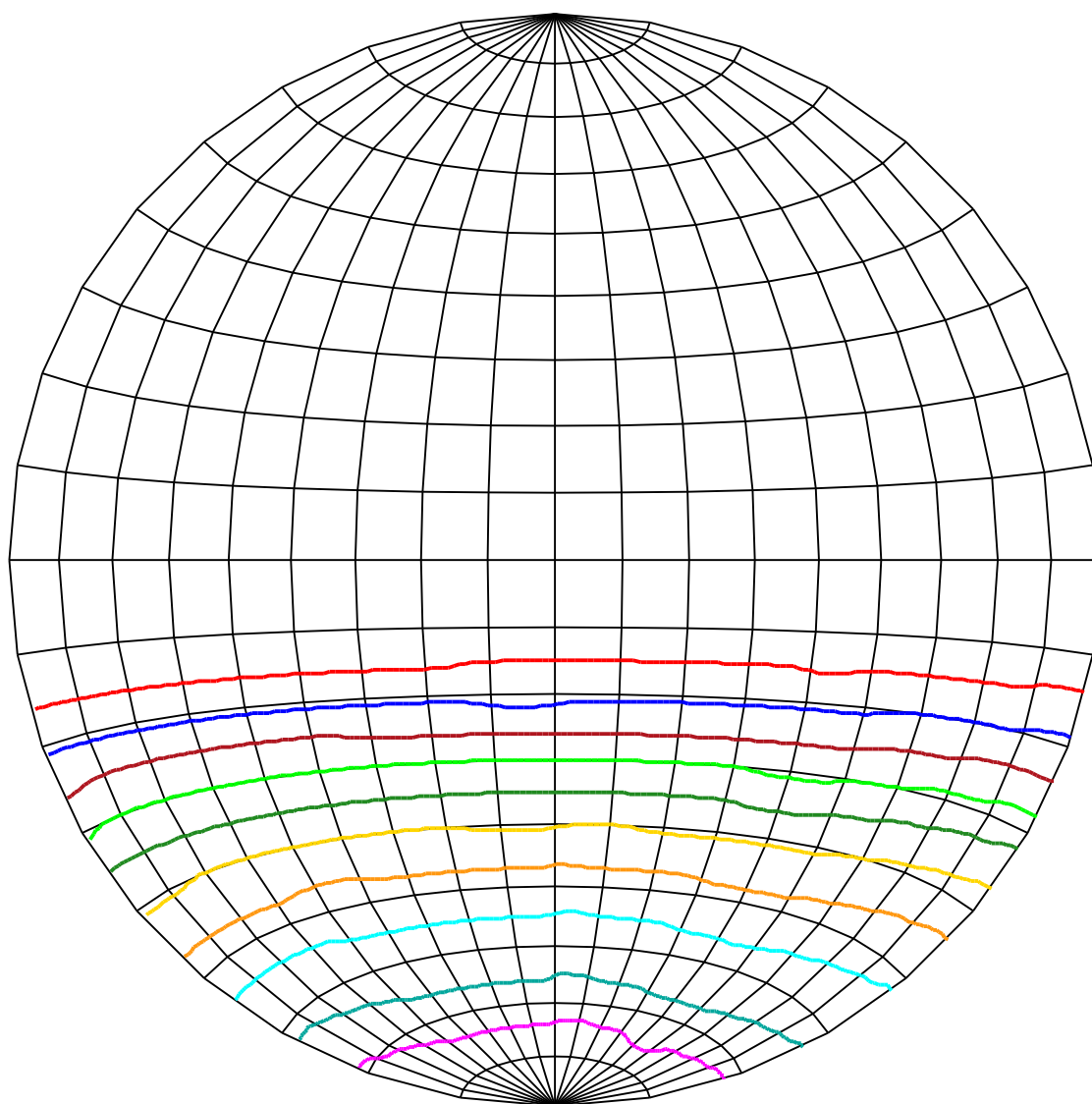
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 310.766 cd

— 295.227(95%Imax)
— 279.689(90%Imax)
— 248.612(80%Imax)
— 217.536(70%Imax)
— 186.459(60%Imax)

— 155.383(50%Imax)
— 124.306(40%Imax)
— 93.23(30%Imax)
— 62.153(20%Imax)
— 31.077(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:15:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

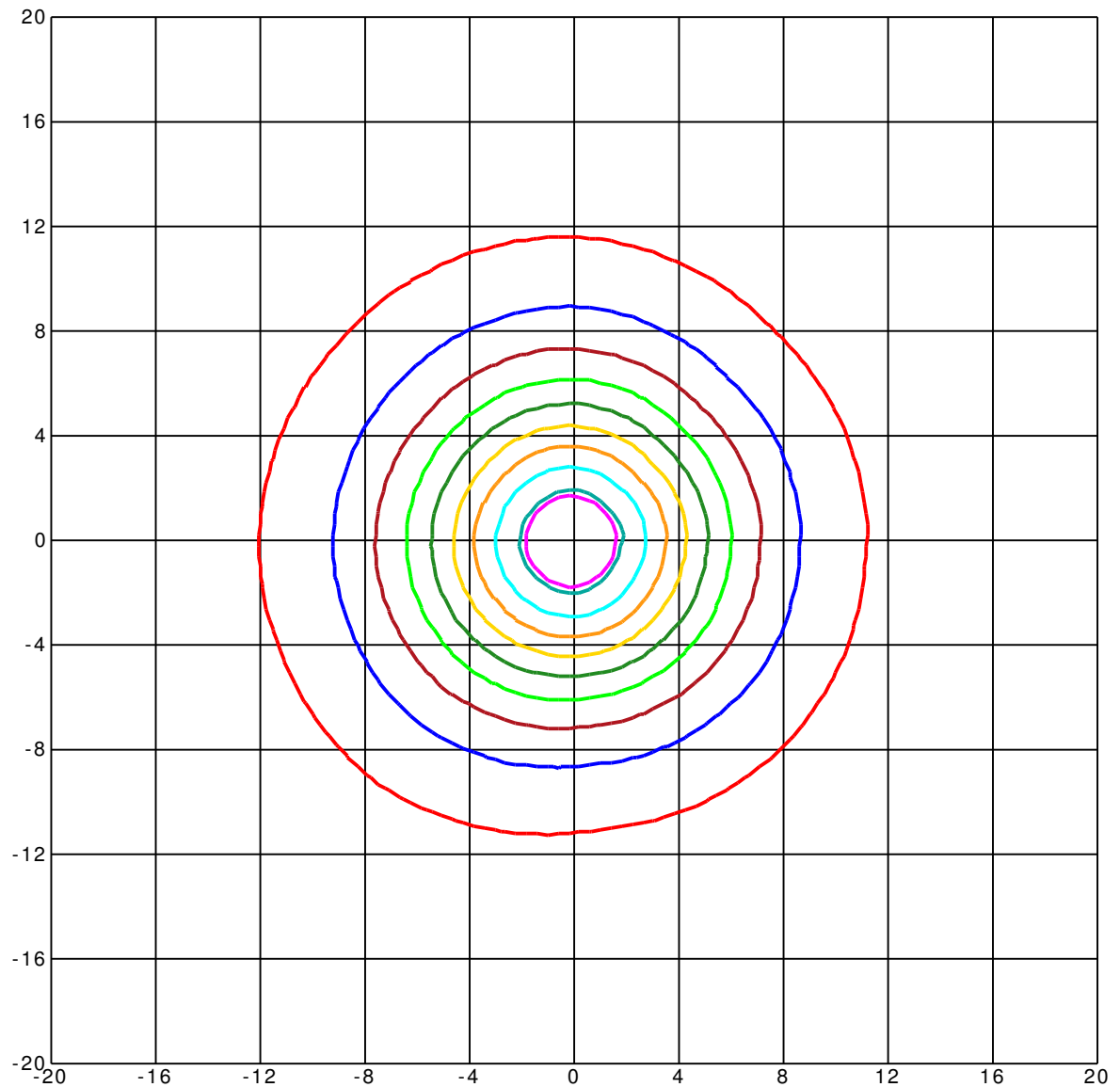
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOLX DIAGRAM



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

4.465(1% Emax)	2.427(1% Emax)
4.368(1% Emax)	1.941(1% Emax)
3.883(1% Emax)	1.456(0% Emax)
3.397(1% Emax)	0.971(0% Emax)
2.912(1% Emax)	0.485(0% Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:15:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

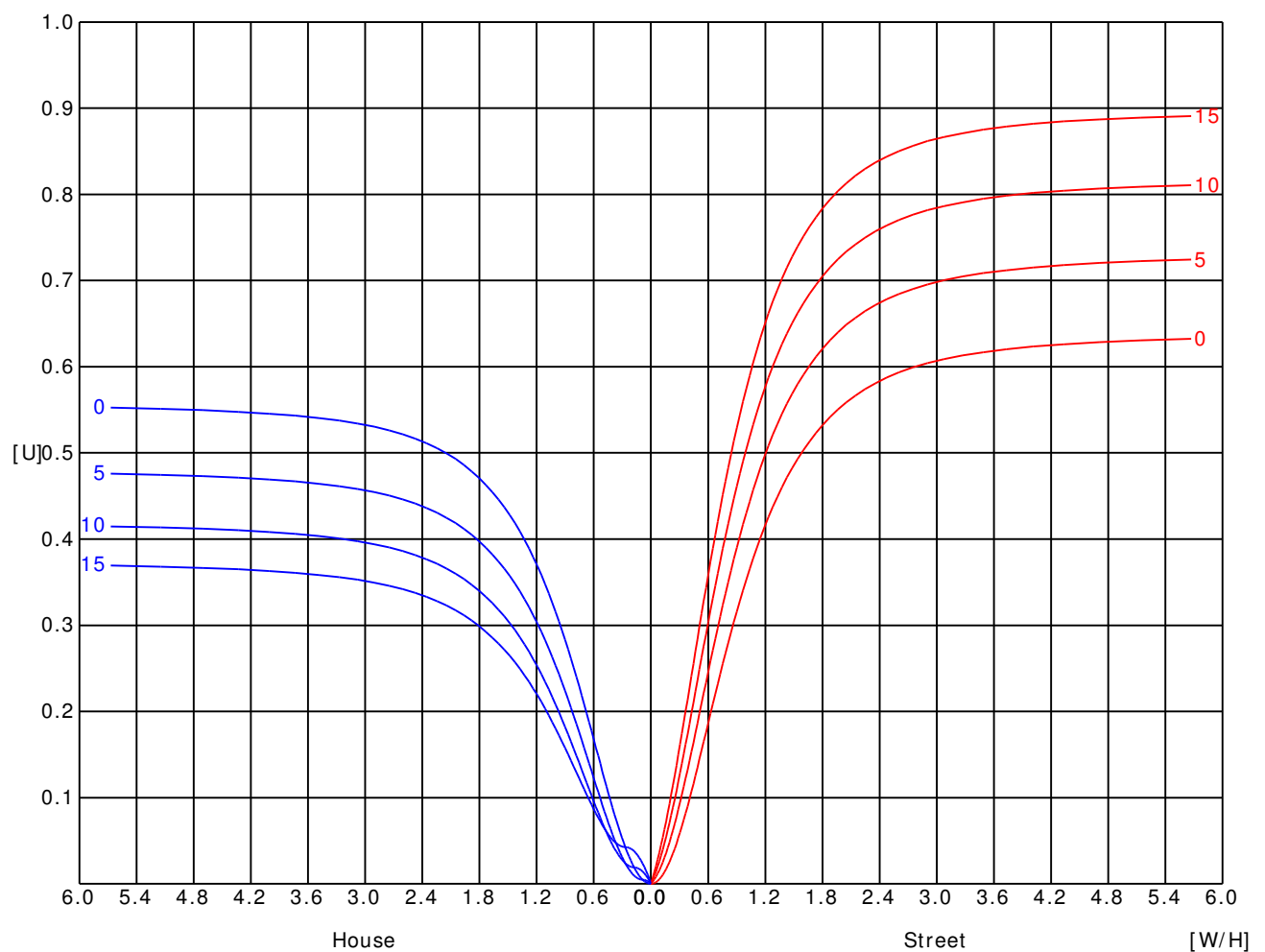
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

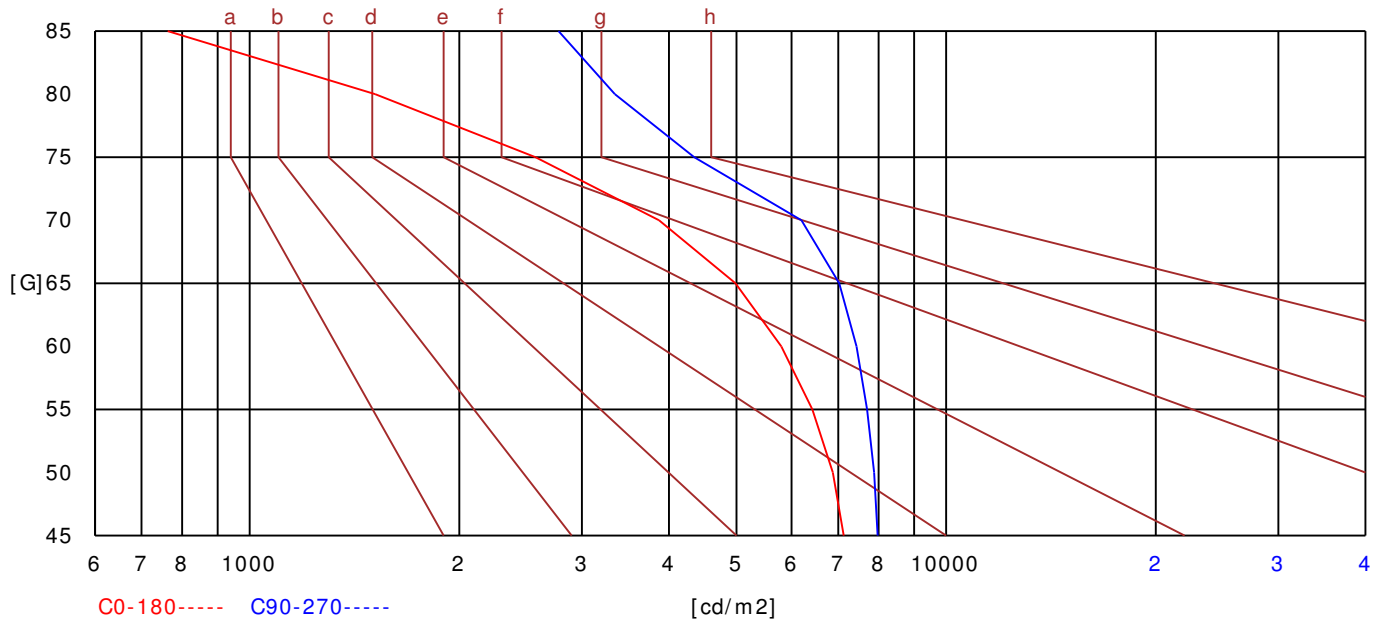


C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:15:34

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

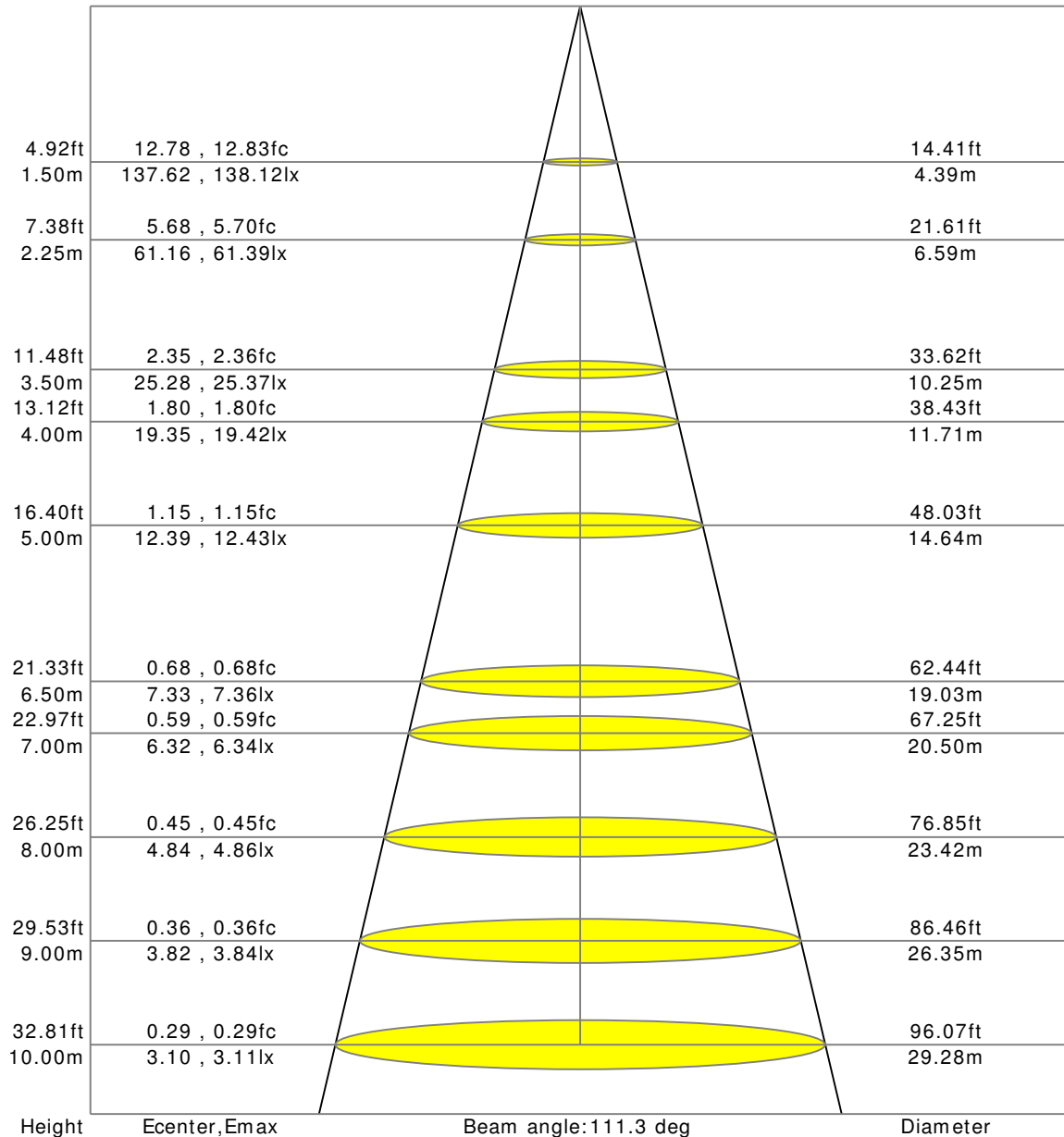
C/G	45	50	55	60	65	70	75	80	85
C0	7131	6877	6427	5798	4985	3873	2574	1515	763
C90	7971	7884	7705	7440	7025	6201	4351	3344	2776
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<= 300				
1.5	B		2000	1000	500	<= 300			
1.85	C			2000	1000	500	<= 300		
2.2	D				2000	1000	500	<= 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 10:15:34

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 10:15:34

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	18.36	18.44	18.56	18.63	18.87	18.60	18.68	18.80	18.87	19.11
3H	18.42	18.49	18.63	18.69	18.93	18.64	18.71	18.85	18.91	19.15
4H	18.41	18.48	18.62	18.68	18.92	18.62	18.70	18.84	18.89	19.14
6H	18.38	18.45	18.60	18.65	18.90	18.60	18.67	18.81	18.87	19.12
8H	18.36	18.43	18.58	18.64	18.89	18.58	18.65	18.80	18.85	19.11
12H	18.35	18.41	18.57	18.62	18.88	18.57	18.63	18.79	18.84	19.09
4H 2H	19.73	19.80	19.94	20.00	20.25	20.19	20.26	20.40	20.46	20.71
3H	19.85	19.91	20.07	20.12	20.37	20.28	20.34	20.50	20.55	20.80
4H	19.84	19.91	20.07	20.12	20.38	20.27	20.33	20.50	20.55	20.80
6H	19.81	19.87	20.05	20.09	20.36	20.24	20.30	20.48	20.52	20.79
8H	19.80	19.85	20.04	20.08	20.34	20.23	20.28	20.47	20.51	20.77
12H	19.78	19.83	20.02	20.06	20.33	20.21	20.26	20.46	20.49	20.76
8H 4H	19.92	19.98	20.14	20.19	20.44	20.24	20.31	20.46	20.52	20.77
6H	20.06	20.11	20.32	20.35	20.62	20.32	20.36	20.57	20.60	20.88
8H	20.04	20.09	20.30	20.33	20.61	20.30	20.34	20.56	20.59	20.87
12H	20.02	20.06	20.29	20.31	20.59	20.28	20.32	20.55	20.57	20.85
12H 4H	20.12	20.17	20.37	20.40	20.67	20.32	20.37	20.57	20.60	20.87
6H	20.11	20.15	20.37	20.40	20.67	20.30	20.34	20.56	20.59	20.86

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:15:34

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

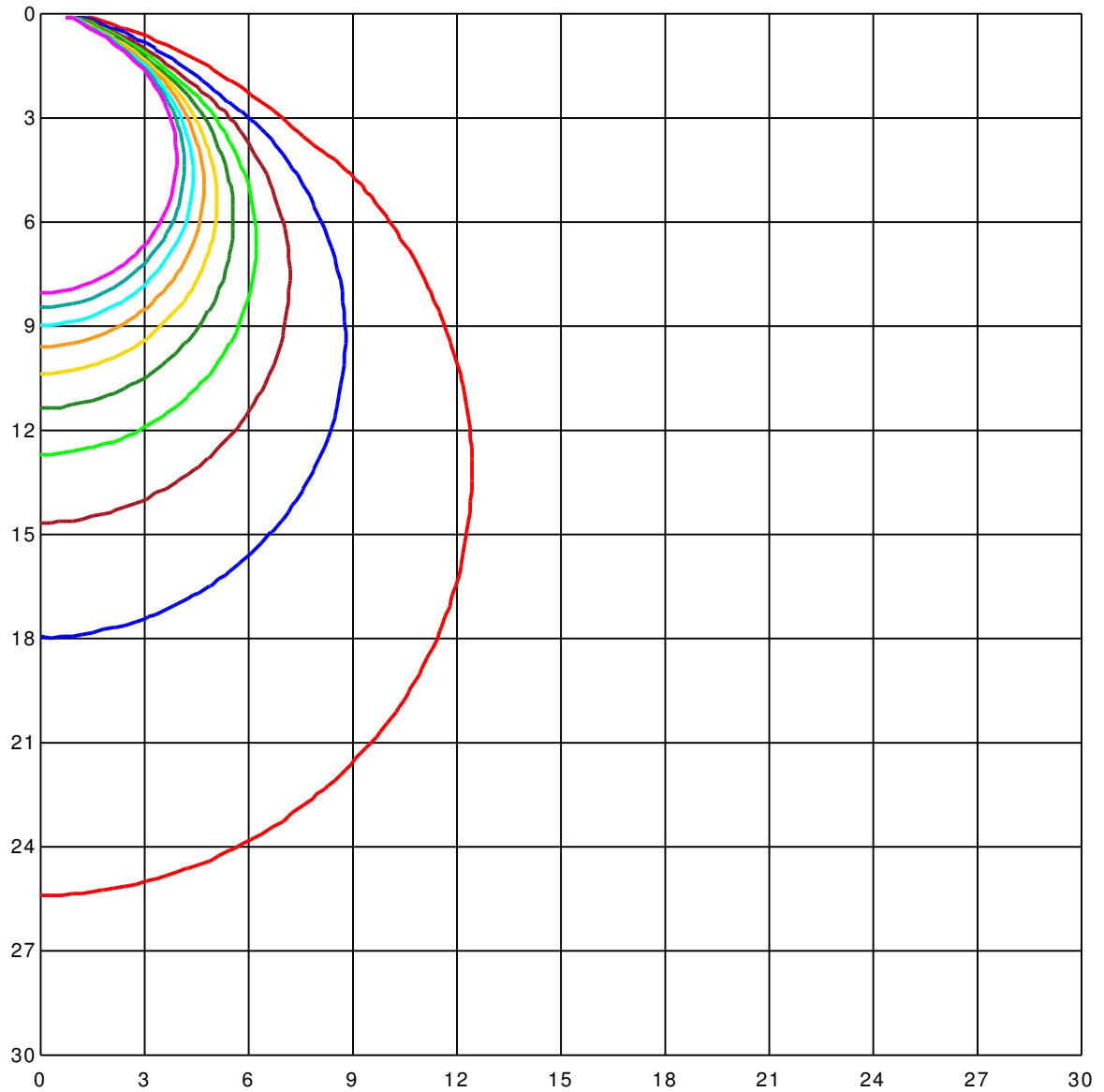
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:15:34

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

4.805
4.325
3.844
3.364
2.883

2.403
1.922
1.442
0.961
0.481

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:15:34

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	309.64	309.35	308.27	307.14	306.13	305.97	305.73	306.33	307.34	
G1	310.77	308.59	308.39	308.31	306.73	307.42	306.13	306.25	307.78	
G2	309.31	308.14	308.35	307.22	307.42	307.78	306.57	306.17	306.85	
G3	310.16	307.58	308.35	307.38	307.26	307.02	306.73	306.29	306.41	
G4	308.59	306.93	308.1	308.35	308.23	308.18	306.81	305.64	306.05	
G5	308.18	306.17	307.94	307.7	307.38	308.14	306.81	305.24	306.61	
G6	307.62	305.28	307.5	307.86	308.63	308.14	306.73	304.76	305.97	
G7	307.02	304.43	307.06	307.7	308.75	307.9	306.57	303.23	304.19	
G8	306.21	303.39	306.49	306.89	307.54	307.7	306.37	303.51	304.23	
G9	305.44	302.38	305.64	306.21	308.39	307.26	306.05	302.74	302.5	
G10	304.39	301.17	303.67	305.68	308.18	306.89	305.68	301.73	301.53	
G11	303.43	299.19	303.83	304.88	307.74	306.33	305.24	300.77	300.52	
G12	302.3	298.59	302.22	304.03	307.42	305.77	304.6	299.68	299.35	
G13	300.97	297.14	301.69	303.14	306.85	305.16	304.35	298.35	297.14	
G14	298.59	294.52	300.44	302.18	306.25	304.35	303.59	297.18	296.77	
G15	298.27	294.07	299.27	301.09	305.4	304.64	302.42	295.4	295.36	
G16	296.73	292.26	297.86	300.12	304.68	302.78	301.21	294.6	293.87	
G17	295.12	290.6	296.49	299.52	304.92	301.81	300.24	292.74	291.05	
G18	293.39	288.63	294.88	297.62	302.9	300.81	299.56	291.09	290.44	
G19	291.61	286.69	293.39	296.25	301.81	299.64	297.38	289.35	288.67	
G20	289.72	284.48	291.81	294.84	301.65	298.55	297.1	288.55	286.69	
G21	287.78	282.34	290.04	293.31	299.72	297.1	295.52	285.56	284.76	
G22	285.73	279.96	288.31	291.65	298.63	295.73	293.95	283.47	282.62	
G23	283.67	277.62	286.33	288.79	297.22	294.11	292.34	281.41	280.52	
G24	281.37	275.12	284.48	287.98	295.85	292.5	290.4	279.15	278.23	
G25	280.2	272.58	282.34	286.09	294.23	290.6	287.62	276.81	276.81	
G26	276.81	269.88	280.28	283.87	292.7	288.67	284.27	274.48	273.39	
G27	274.27	267.22	277.5	281.65	290.93	286.05	282.58	271.93	270.89	
G28	271.65	264.35	274.6	278.79	288.95	284.6	277.5	268.83	268.14	
G29	268.95	261.41	273.06	276.98	286.93	282.18	275.24	266.65	265.44	
G30	266.09	259.03	270.4	274.52	284.84	279.84	270.4	263.87	263.39	
G31	263.18	255.44	267.7	271.89	281.41	277.98	267.54	260.97	260.0	
G32	260.0	252.18	264.92	269.31	280.04	275.52	264.39	257.94	256.37	
G33	256.85	248.47	261.89	266.45	277.18	273.23	259.48	254.8	253.19	
G34	253.51	245.73	258.91	263.63	274.56	269.56	256.65	251.53	249.84	
G35	250.04	242.18	255.69	260.52	271.73	266.65	251.13	248.23	245.73	
G36	246.53	238.67	252.38	257.54	268.83	263.75	248.39	244.72	242.9	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:15:34

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	242.86	235.08	249.6	254.35	265.56	261.25	242.66	241.05	239.07	
G38	238.95	231.21	245.89	251.05	262.34	257.58	239.6	237.38	235.36	
G39	234.96	227.46	243.23	247.82	259.88	254.52	233.02	233.55	231.41	
G40	231.05	223.35	238.99	244.23	255.56	251.09	230.6	229.72	227.42	
G41	226.81	219.31	235.52	240.85	252.1	247.9	224.48	225.77	223.14	
G42	222.58	215.08	231.81	236.73	248.35	243.83	220.32	221.57	218.99	
G43	218.27	210.77	228.23	232.9	244.68	240.2	215.28	218.14	214.56	
G44	213.75	206.33	225.12	229.52	240.73	237.02	211.81	213.14	210.04	
G45	209.23	201.69	220.48	225.44	236.73	233.14	205.56	208.63	205.4	
G46	204.52	197.62	216.57	220.32	232.66	228.23	201.45	203.99	200.56	
G47	199.56	192.18	212.38	216.13	228.43	225.08	195.56	199.31	195.6	
G48	194.52	186.98	208.14	212.34	224.11	220.6	189.11	194.31	191.13	
G49	189.27	181.77	203.91	207.06	219.68	216.09	185.24	189.15	185.16	
G50	184.11	176.81	198.63	202.7	214.96	211.25	178.51	183.43	180.32	
G51	178.1	170.89	194.52	197.74	210.08	206.53	172.42	178.47	174.07	
G52	172.42	165.32	189.68	192.7	205.04	201.53	167.38	172.86	168.39	
G53	166.94	159.56	184.8	187.5	199.31	196.41	161.53	167.02	162.82	
G54	160.97	153.55	177.7	182.1	194.88	191.13	155.6	161.17	156.98	
G55	155.0	147.46	170.97	176.77	189.19	185.89	148.51	155.16	151.17	
G56	148.95	141.13	164.48	171.29	183.99	181.09	142.18	148.83	145.16	
G57	142.9	134.88	157.54	165.69	178.59	175.6	135.93	142.42	139.15	
G58	136.73	128.71	150.52	160.28	172.94	169.31	129.56	136.01	133.1	
G59	130.52	122.3	143.1	154.56	167.3	163.67	124.19	129.27	126.53	
G60	124.35	115.97	135.81	148.79	161.77	157.7	117.26	122.82	120.28	
G61	117.94	109.56	128.75	142.9	156.61	151.73	110.28	116.41	114.19	
G62	111.13	103.15	121.94	136.89	150.2	145.69	104.4	109.6	107.42	
G63	104.27	96.85	114.15	131.05	144.27	139.48	98.63	103.06	100.6	
G64	89.96	90.56	106.81	124.84	138.55	133.31	92.82	96.37	85.08	
G65	77.98	84.27	99.92	118.75	129.44	127.1	86.05	89.96	75.2	
G66	72.54	78.1	92.74	111.94	114.44	120.16	80.28	82.74	70.08	
G67	67.38	71.94	85.36	105.69	107.62	113.47	73.31	75.97	65.2	
G68	62.18	65.93	78.43	98.47	102.54	107.06	67.62	68.99	59.96	
G69	57.1	60.04	71.37	91.61	97.5	100.12	60.89	62.14	55.0	
G70	51.9	52.98	64.4	84.84	92.38	92.78	55.04	53.43	50.32	
G71	47.22	45.65	57.58	68.06	87.38	85.44	49.48	41.81	45.73	
G72	42.58	39.88	51.13	61.13	82.54	73.71	42.58	36.61	41.01	
G73	38.35	35.24	44.8	55.6	77.66	67.7	37.3	31.85	36.81	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:15:34

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 10:15:34

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