

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 127V-2835-99L-2700K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

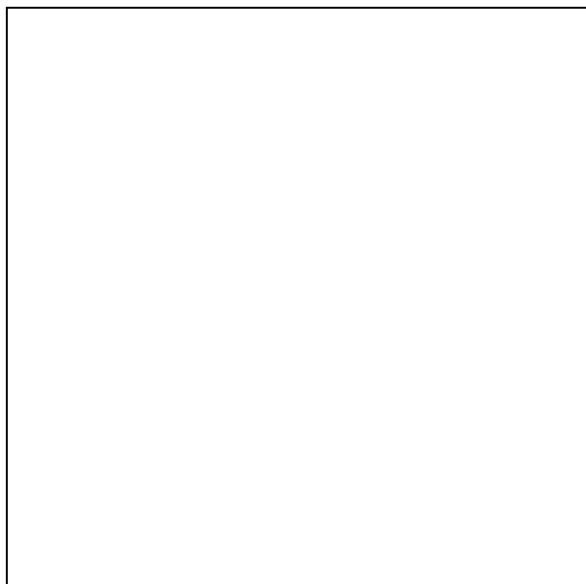
Voltage(V): 126.91 V
Current(A): 0.0540 A
Power(W): 6.52 W
Power Factor: 0.9440
Lamp Luminous Flux: 514.74

Photometric Results

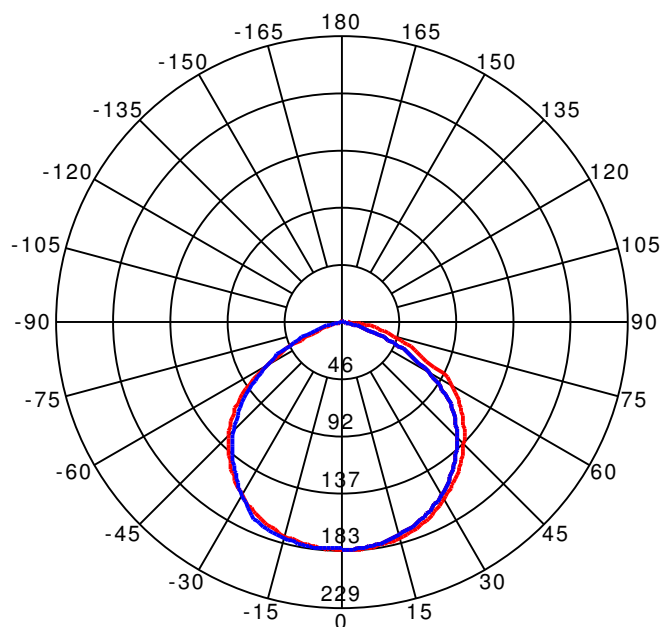
CIE Class: Direct
Luminaire Luminous Flux: 514.7365
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 78.95 lm/W
Beam Angle(50%) C0-180,C90-270: 118.5,111.4
Field Angle(10%) C0-180,C90-270: 154.5,147.6

Max. Intensity: 183.02 cd
Max.Intensity Angle: C=0 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 181.89 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



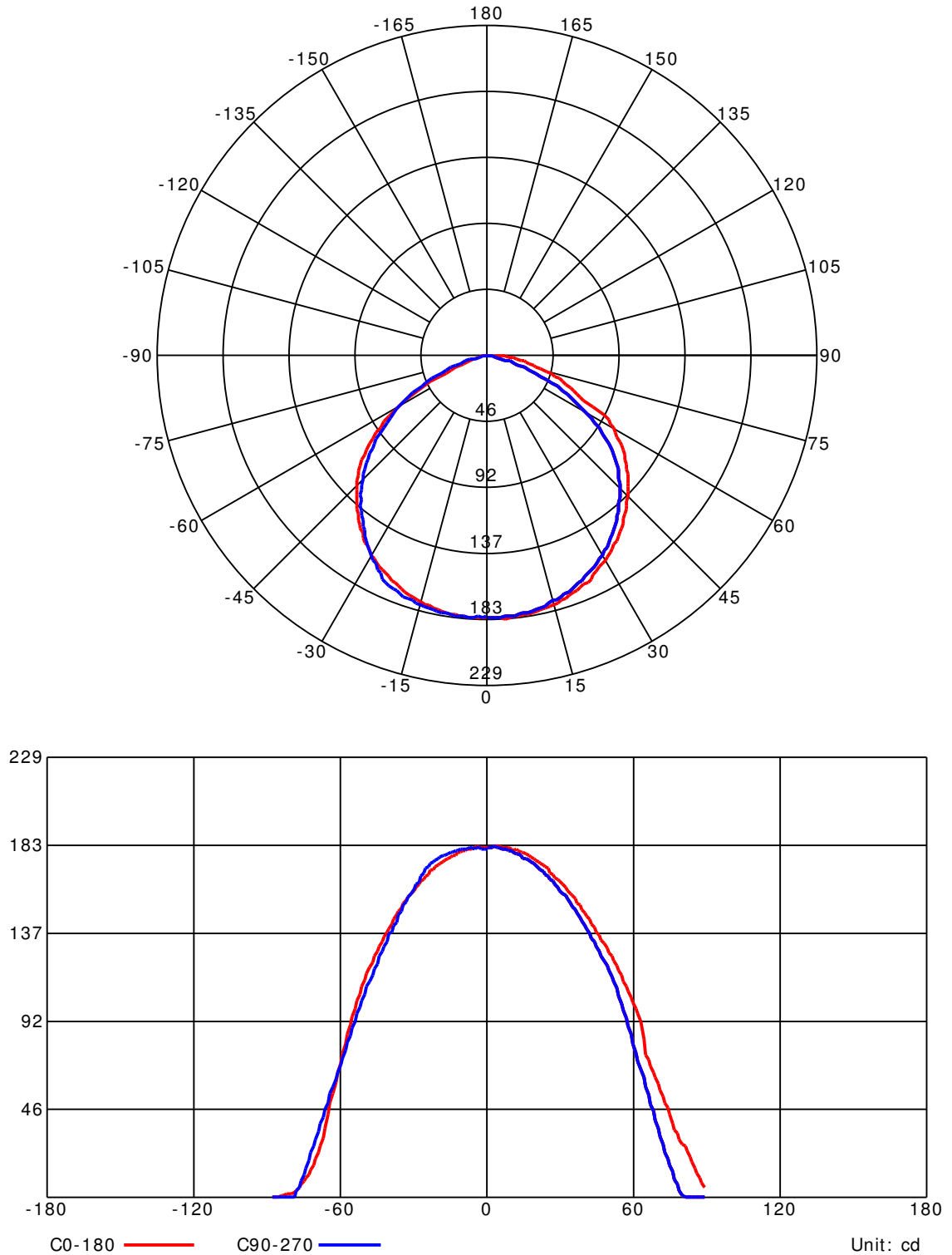
Beam Angle(50%) C0-180,C90-270: 111.4 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:59:47

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 10:59:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

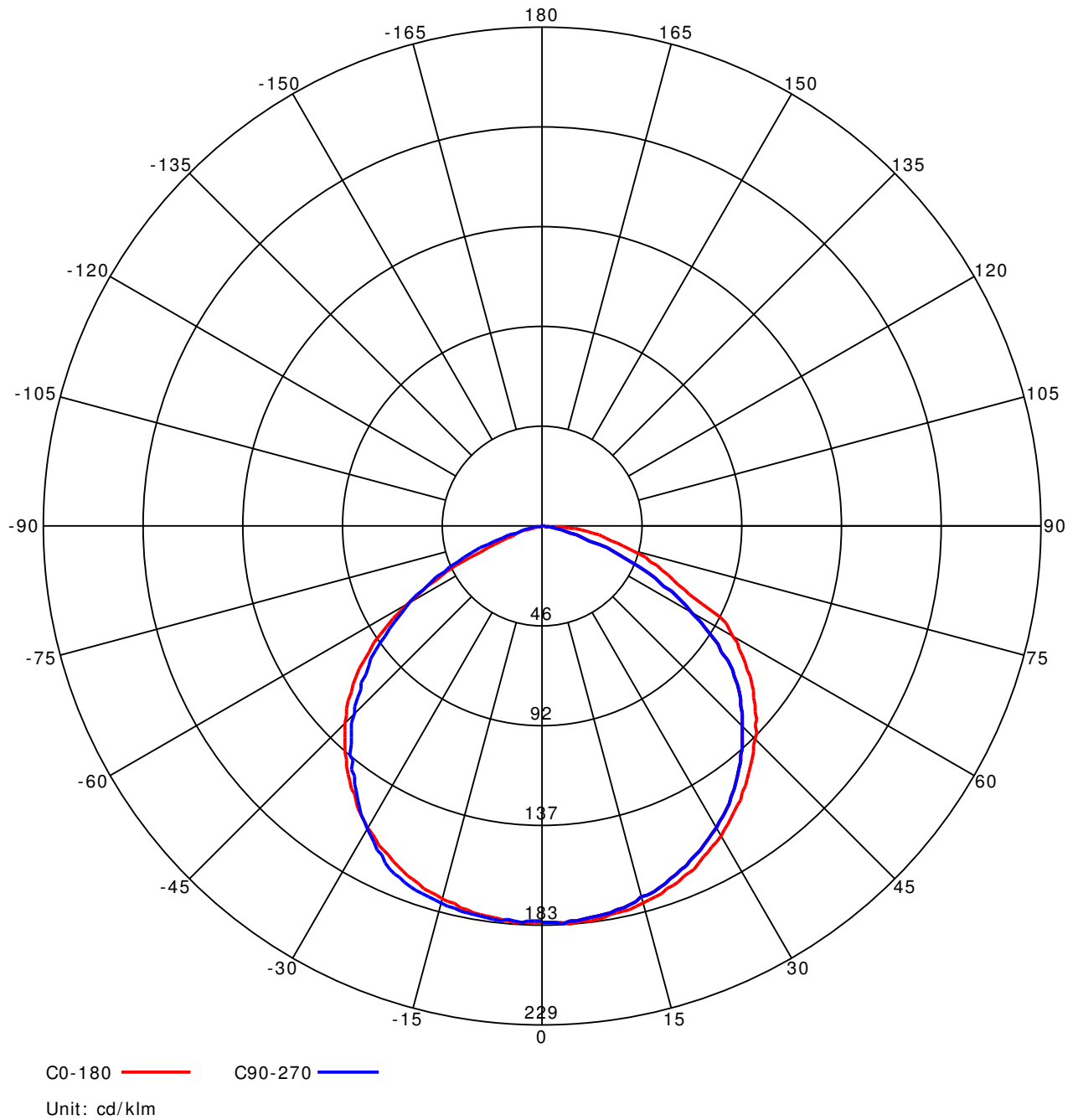
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

Luminous Intensity Distribution Curve



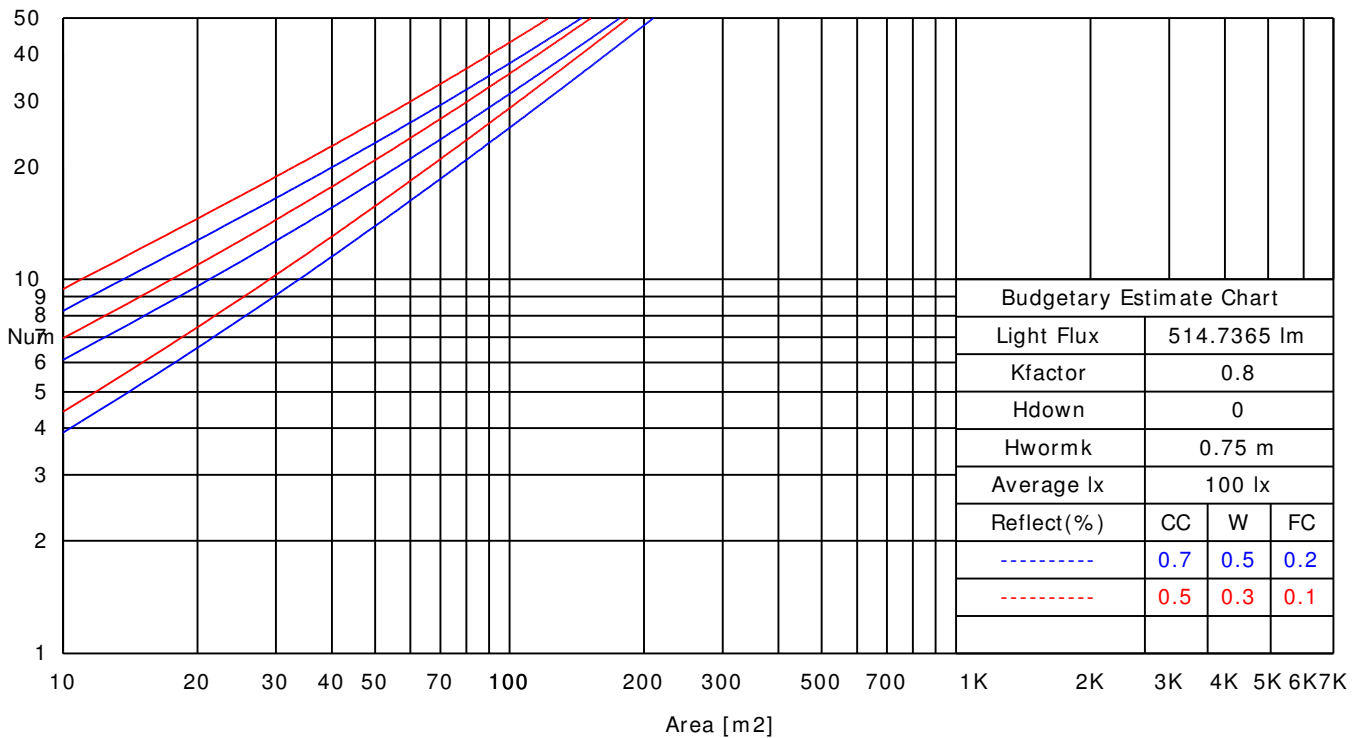
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:59:47

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	1.05	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	0.93	0.90	0.87	0.89	0.86	0.83	0.83	0.80	0.77	0.73
3	0.86	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.78	0.75	0.74	0.78	0.75	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	0.67	0.70	0.67	0.65	0.69	0.65	0.62	0.68	0.63	0.59	0.66	0.60	0.56	0.52
6	0.64	0.62	0.60	0.64	0.61	0.59	0.64	0.60	0.57	0.63	0.58	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	0.55	0.52	0.58	0.53	0.49	0.57	0.51	0.47	0.43
8	0.54	0.52	0.51	0.54	0.51	0.50	0.54	0.50	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.40
9	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.47	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.37
10	0.47	0.45	0.43	0.47	0.44	0.43	0.47	0.43	0.41	0.47	0.42	0.39	0.47	0.41	0.37	0.34

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



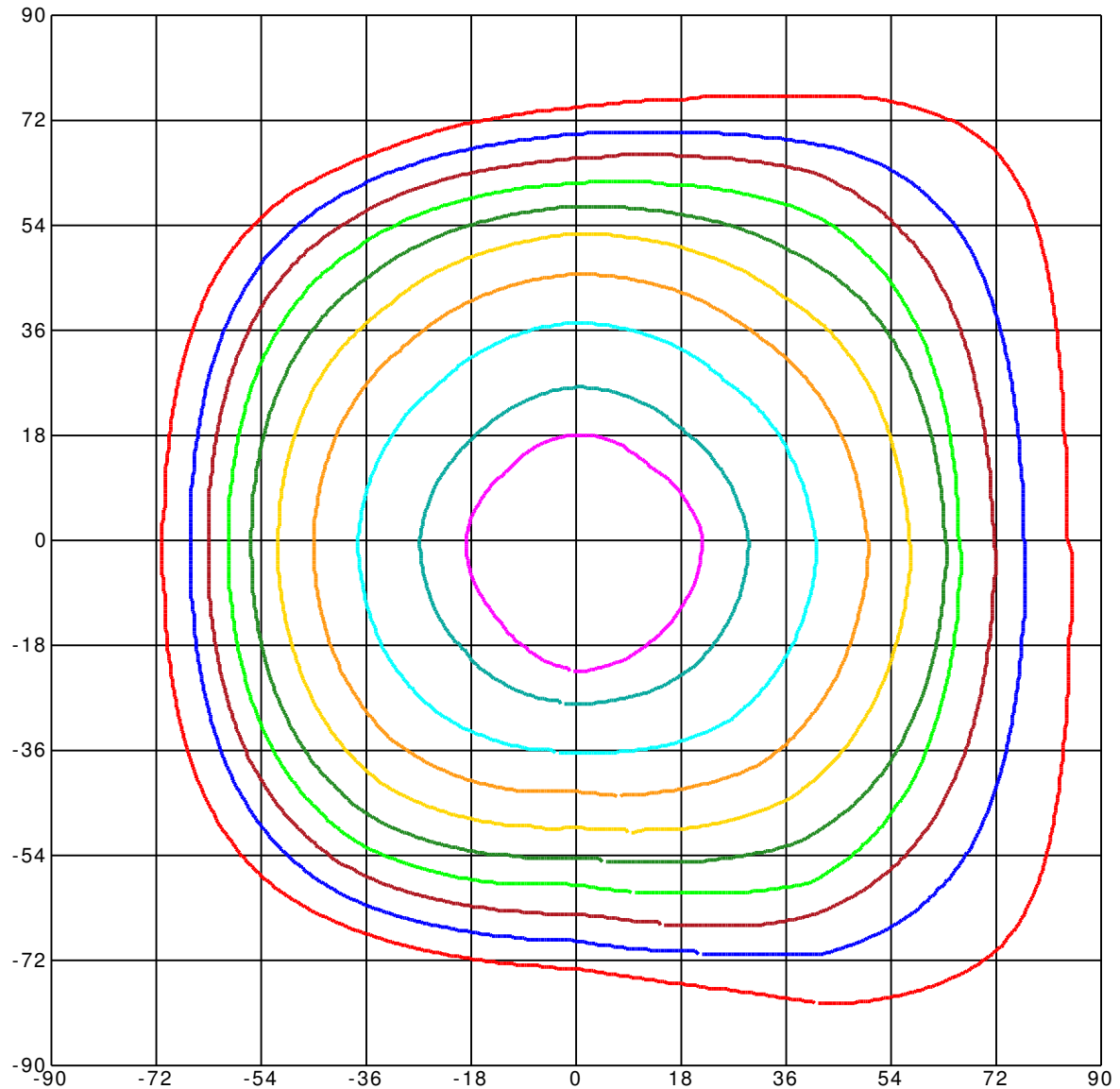
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:59:47

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

Report No.:

Test Time: 2020/3/14 10:59:47

ISOCANDELA DIAGRAM (RECTANGULAR)



173.873(95% I_{max})

164.721(90% I_{max})

146.419(80% I_{max})

128.117(70% I_{max})

109.814(60% I_{max})

91.512(50% I_{max})

73.21(40% I_{max})

54.907(30% I_{max})

36.605(20% I_{max})

18.302(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:59:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

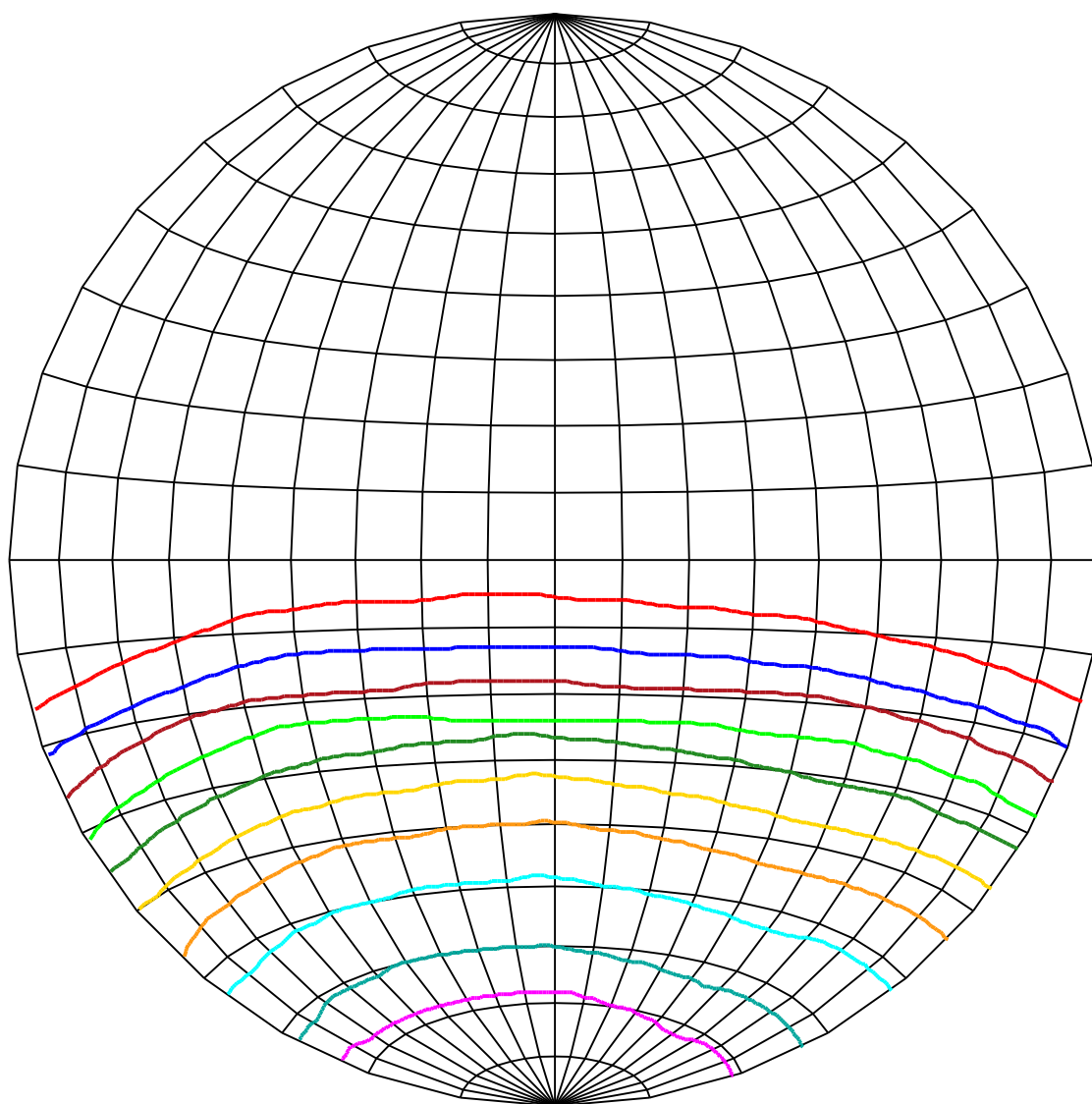
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd $I_{max}(100\%)$: 183.024 cd

173.873(95% I_{max})	91.512(50% I_{max})
164.721(90% I_{max})	73.21(40% I_{max})
146.419(80% I_{max})	54.907(30% I_{max})
128.117(70% I_{max})	36.605(20% I_{max})
109.814(60% I_{max})	18.302(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:59:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

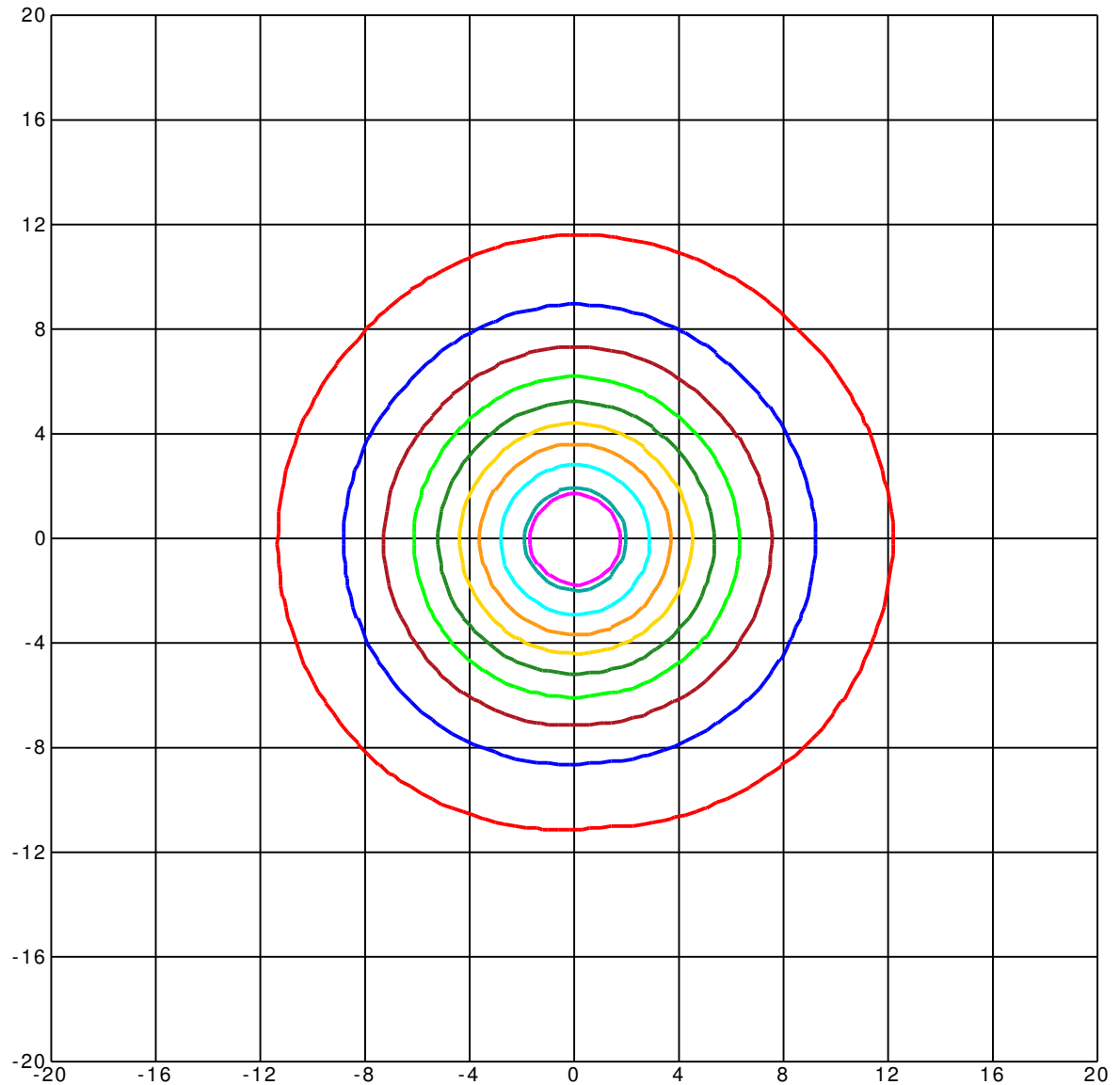
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:8.0(m)/26.25(ft)

2.62(1% Emax)

2.564(1% Emax)

2.279(1% Emax)

1.994(1% Emax)

1.709(1% Emax)

1.424(1% Emax)

1.139(1% Emax)

0.855(0% Emax)

0.57(0% Emax)

0.285(0% Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:59:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

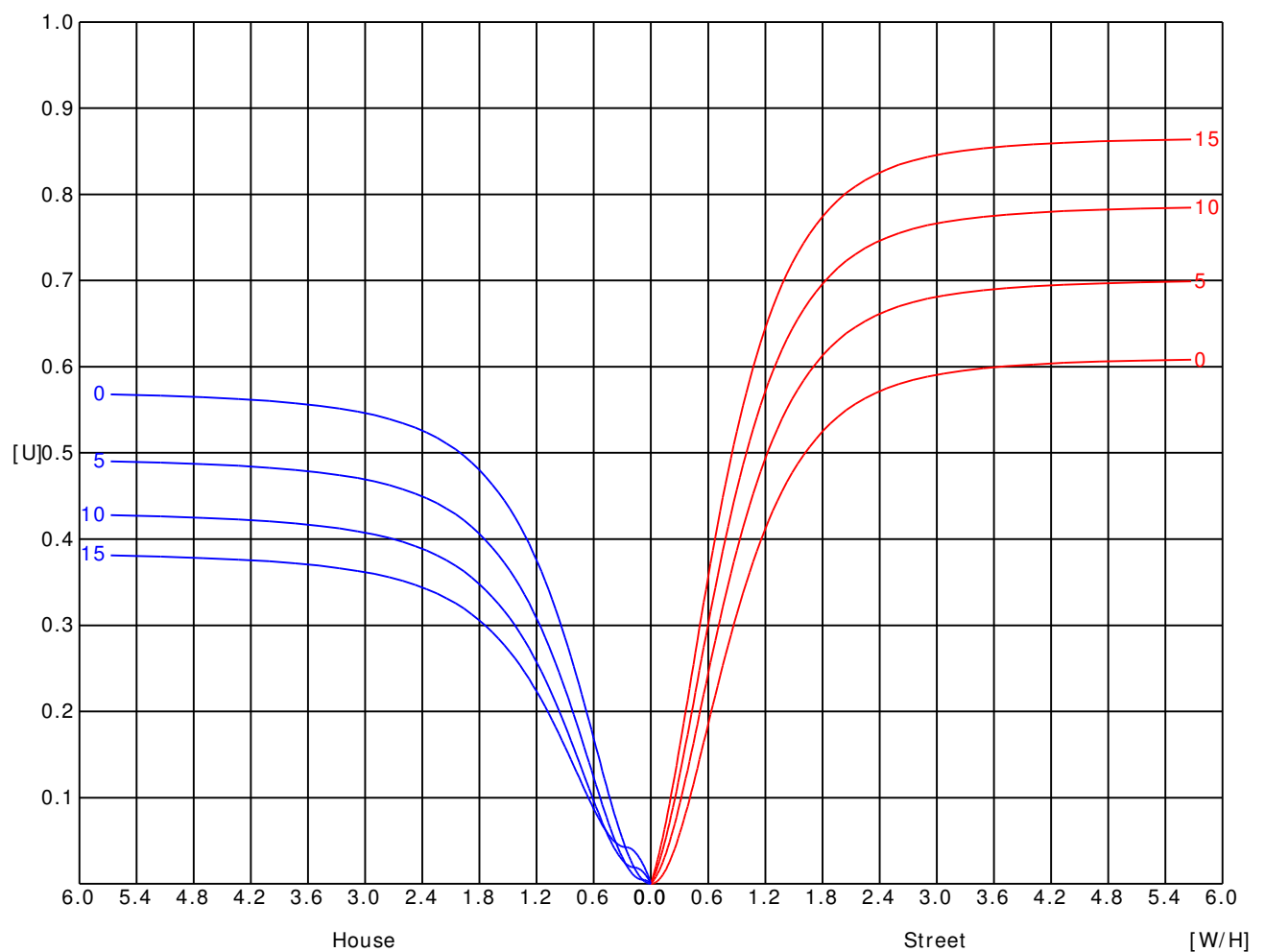
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

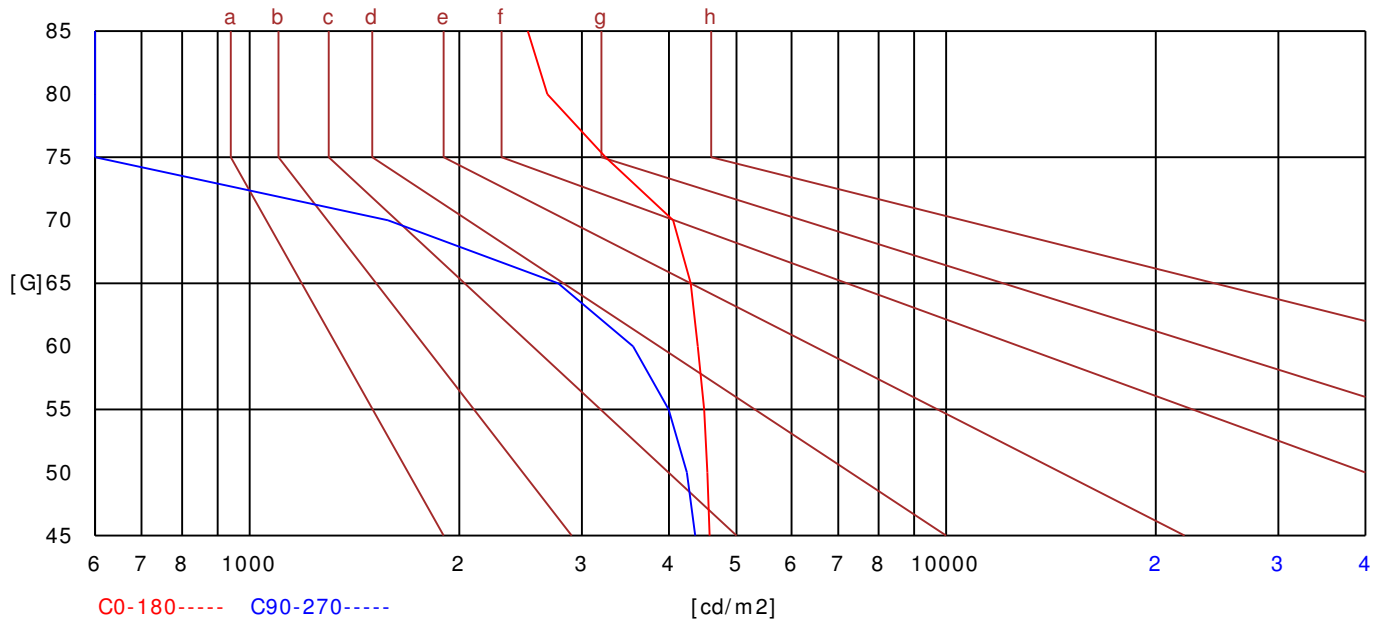


C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:59:47

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

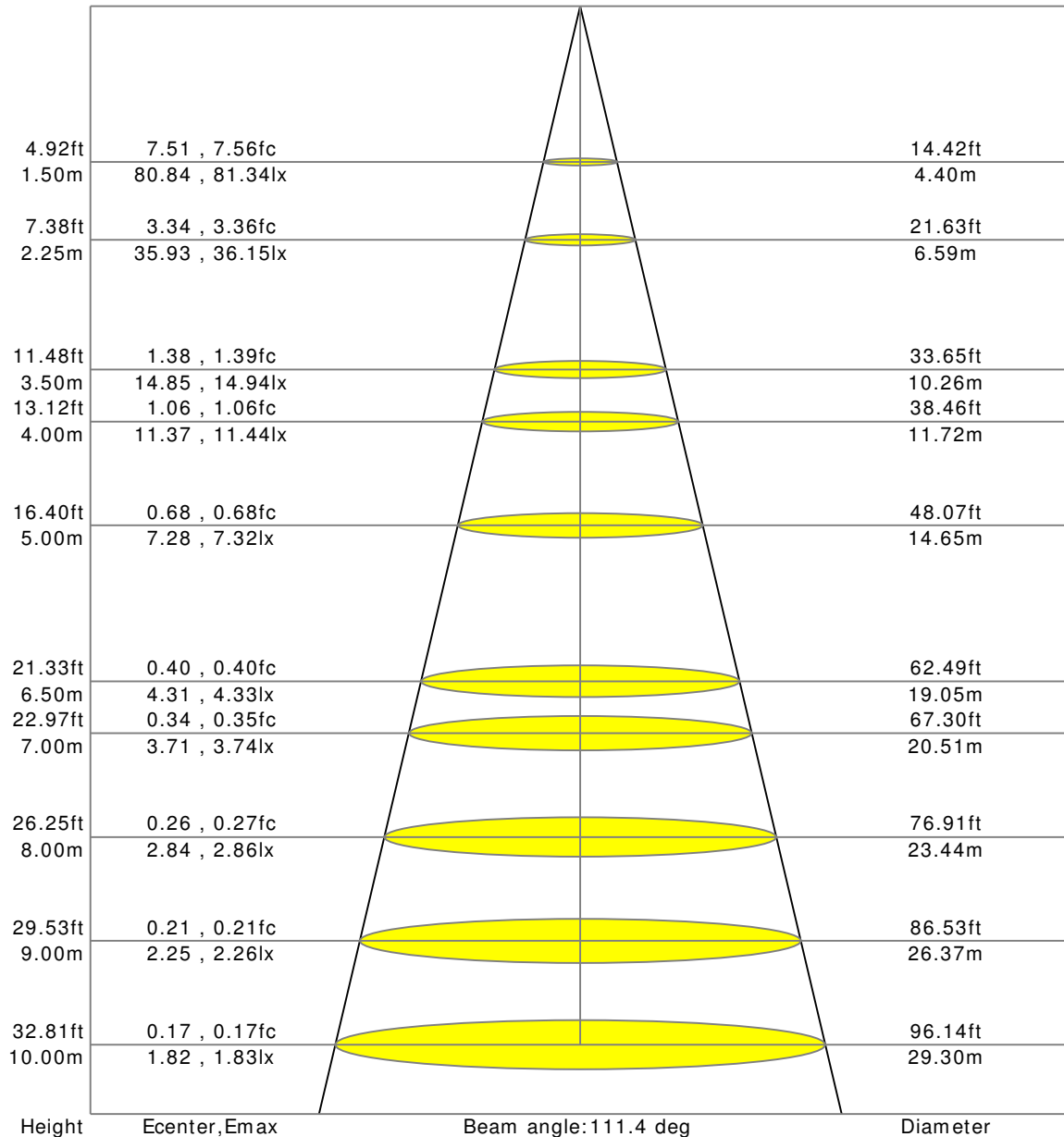
C/G	45	50	55	60	65	70	75	80	85
C0	4576	4540	4494	4399	4298	4056	3244	2676	2510
C90	4365	4245	3995	3552	2774	1580	475	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<= 300				
1.5	B		2000	1000	500	<= 300			
1.85	C			2000	1000	500	<= 300		
2.2	D				2000	1000	500	<= 300	
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: 2020/3/14 10:59:47

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 10:59:47

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	19.68	19.76	19.88	19.95	20.19	19.24	19.32	19.44	19.51	19.75
3H	19.77	19.85	19.98	20.04	20.29	19.39	19.47	19.60	19.66	19.91
4H	19.77	19.84	19.98	20.03	20.28	19.41	19.48	19.62	19.68	19.93
6H	19.74	19.81	19.96	20.01	20.26	19.39	19.46	19.61	19.66	19.92
8H	19.72	19.79	19.94	19.99	20.25	19.38	19.45	19.60	19.65	19.90
12H	19.71	19.77	19.93	19.98	20.23	19.36	19.43	19.59	19.63	19.89
4H 2H	22.22	22.29	22.43	22.48	22.73	20.99	21.06	21.20	21.26	21.51
3H	22.43	22.49	22.65	22.70	22.96	21.28	21.34	21.50	21.55	21.81
4H	22.46	22.52	22.69	22.73	22.99	21.35	21.41	21.58	21.63	21.89
6H	22.44	22.50	22.68	22.72	22.98	21.38	21.43	21.62	21.66	21.92
8H	22.42	22.48	22.66	22.70	22.97	21.37	21.43	21.62	21.66	21.92
12H	22.40	22.45	22.65	22.69	22.96	21.36	21.41	21.61	21.64	21.91
8H 4H	22.98	23.05	23.20	23.25	23.51	21.06	21.12	21.28	21.33	21.58
6H	23.47	23.52	23.72	23.76	24.03	21.62	21.67	21.87	21.91	22.18
8H	23.47	23.51	23.73	23.76	24.03	21.65	21.70	21.91	21.94	22.22
12H	23.45	23.49	23.72	23.75	24.03	21.66	21.70	21.93	21.96	22.24
12H 4H	23.69	23.74	23.94	23.97	24.24	21.52	21.57	21.77	21.80	22.07
6H	23.78	23.82	24.04	24.07	24.34	21.63	21.68	21.90	21.92	22.20

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:59:47

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

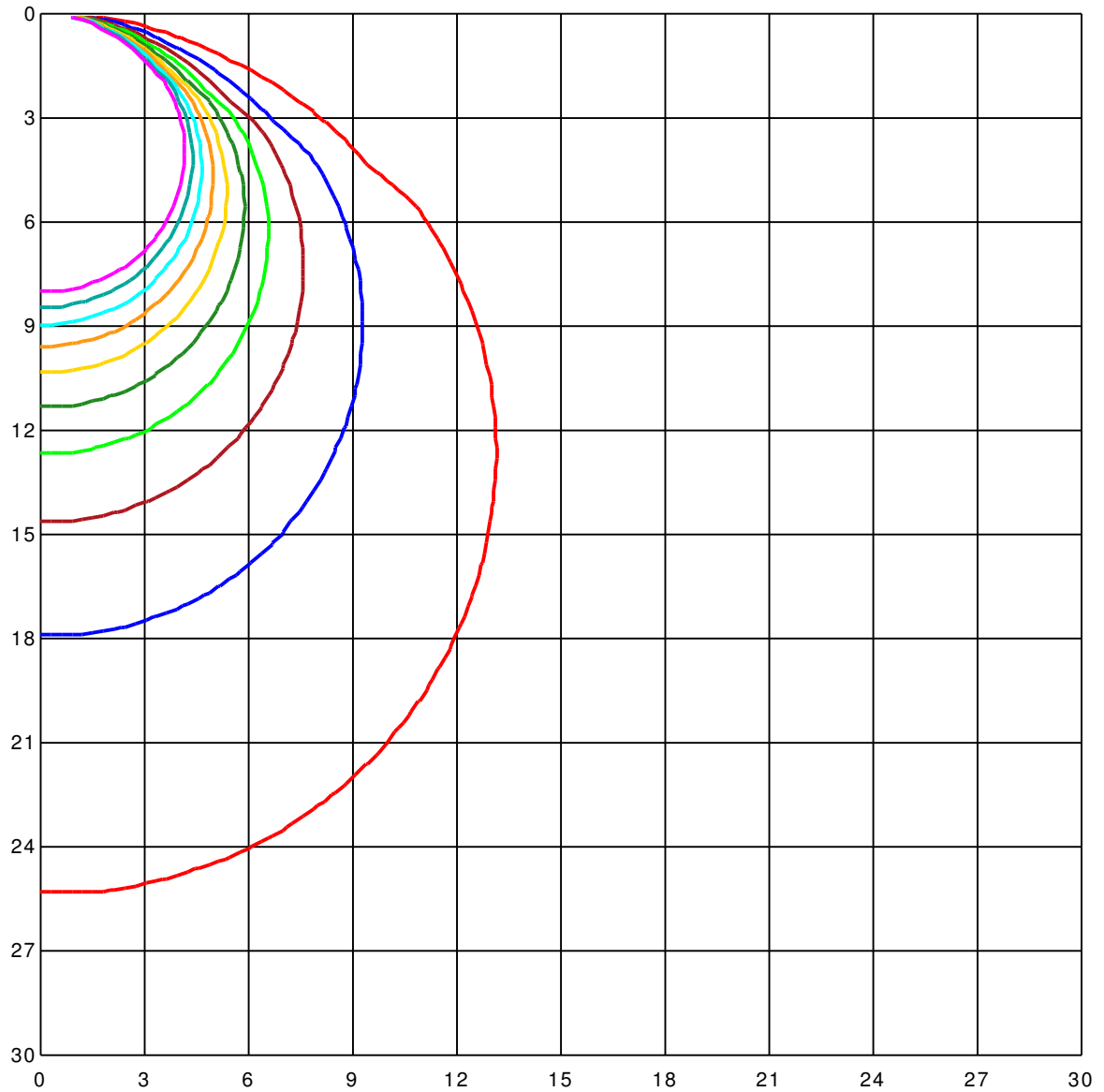
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 10:59:47

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

2.837
2.554
2.27
1.986
1.702

1.419
1.135
0.851
0.567
0.284

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 10:59:47

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 D A T A

Gamma\ C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	181.89	182.02	181.77	182.22	181.85	181.85	181.13	181.25	181.01	
G1	182.06	182.06	181.85	182.38	181.85	181.77	181.37	181.49	181.25	
G2	182.18	181.94	181.85	181.94	181.89	181.81	180.97	181.25	181.37	
G3	182.3	181.85	182.5	182.26	181.85	181.65	181.73	181.77	181.41	
G4	183.02	181.73	181.69	181.41	182.5	181.57	181.81	181.77	181.45	
G5	182.34	181.49	181.53	181.05	181.57	181.33	181.21	181.81	181.41	
G6	182.18	181.49	181.33	180.69	181.33	181.05	181.81	180.93	181.37	
G7	182.18	180.93	181.13	180.28	181.13	180.73	181.65	181.53	181.25	
G8	181.94	180.56	180.73	180.36	181.01	180.4	181.33	181.37	181.01	
G9	181.73	180.2	180.44	179.39	180.52	180.0	181.25	181.05	180.93	
G10	181.05	179.11	179.96	178.75	179.84	179.52	181.01	180.77	180.52	
G11	180.36	179.23	179.56	178.23	179.56	179.15	180.64	180.32	180.28	
G12	180.64	178.55	178.95	177.54	179.07	178.59	180.32	179.88	179.88	
G13	180.2	177.9	178.31	176.89	177.74	178.02	179.92	180.0	179.6	
G14	179.68	177.18	177.62	176.17	177.86	177.5	179.44	179.44	179.07	
G15	179.03	176.37	176.09	175.32	177.18	176.69	178.99	178.27	178.06	
G16	178.39	175.56	176.09	174.48	176.33	176.13	178.47	177.7	177.54	
G17	177.78	174.72	175.28	173.59	175.52	175.36	177.82	177.74	177.42	
G18	176.94	173.67	174.31	172.62	174.56	174.48	177.3	176.37	176.05	
G19	176.01	172.94	173.43	170.97	173.63	173.63	176.85	175.6	176.05	
G20	175.28	171.69	172.38	170.36	172.58	172.66	175.93	174.8	175.28	
G21	174.64	170.56	171.33	169.23	171.57	171.65	175.04	173.99	174.44	
G22	173.39	169.39	170.24	167.94	170.44	170.56	174.23	173.1	173.1	
G23	172.34	168.95	169.68	166.77	169.84	168.79	173.27	172.1	172.46	
G24	172.02	166.98	167.94	165.85	168.1	168.1	172.26	170.52	171.33	
G25	170.85	166.29	166.65	163.91	166.81	166.85	170.81	169.96	170.32	
G26	168.95	164.68	165.44	162.42	165.52	165.44	168.23	168.06	169.03	
G27	167.74	163.27	164.07	160.93	164.15	164.27	167.02	166.77	167.82	
G28	166.49	161.53	162.74	159.31	162.74	162.66	163.79	166.25	166.57	
G29	165.32	159.84	161.25	158.19	161.21	161.01	162.62	164.8	165.32	
G30	164.19	158.31	159.76	155.97	159.56	159.44	160.16	163.35	164.07	
G31	162.62	156.73	158.14	154.23	158.02	157.74	158.06	161.81	162.74	
G32	161.05	155.04	156.61	152.46	156.29	156.65	156.41	160.2	161.89	
G33	159.72	153.35	154.96	150.48	154.6	154.23	153.35	158.75	159.76	
G34	157.7	150.89	153.19	148.75	152.74	152.46	151.69	157.06	158.43	
G35	156.65	149.76	151.41	146.77	150.08	150.6	148.35	155.56	156.98	
G36	155.08	147.78	149.52	144.23	148.87	148.67	146.65	153.31	155.4	

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 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	152.82	145.89	147.62	142.62	146.69	146.69	143.27	151.41	153.87	
G38	151.61	143.87	145.64	140.4	144.52	144.6	141.41	149.56	151.77	
G39	149.8	141.81	143.31	138.23	141.89	142.06	138.06	147.62	149.8	
G40	147.98	139.76	141.41	135.89	139.92	140.2	136.77	145.64	148.75	
G41	146.17	137.66	139.31	133.23	137.66	137.42	132.7	143.67	146.85	
G42	144.15	135.52	137.1	131.17	135.28	135.69	130.77	141.57	145.0	
G43	142.14	133.71	134.96	128.67	132.9	133.27	127.66	139.44	143.02	
G44	140.16	131.17	132.62	126.09	130.28	130.89	125.32	137.34	141.01	
G45	138.19	129.44	130.28	123.47	127.7	128.27	121.57	135.08	139.07	
G46	136.53	126.61	127.9	121.01	125.04	125.56	119.15	132.46	136.94	
G47	133.99	124.31	125.48	117.94	122.26	122.62	115.6	130.56	134.88	
G48	132.46	121.81	122.98	114.88	119.39	119.92	111.85	128.02	132.78	
G49	129.72	119.35	120.44	111.89	116.29	116.94	109.6	125.52	130.64	
G50	127.46	116.73	117.78	109.15	113.06	113.99	105.73	122.82	128.39	
G51	125.08	114.15	114.92	106.05	109.6	110.56	101.9	120.24	126.05	
G52	122.66	111.45	112.1	102.26	105.89	107.18	99.27	117.46	124.23	
G53	120.24	108.71	109.23	98.83	102.18	104.15	95.6	114.6	121.29	
G54	117.7	105.93	104.96	95.28	98.06	100.08	91.57	111.65	118.79	
G55	115.08	103.1	100.85	91.65	93.83	96.41	87.7	108.79	116.17	
G56	112.38	99.8	97.02	87.86	89.39	92.82	83.75	105.89	113.55	
G57	109.68	97.34	93.19	83.91	84.64	88.39	80.32	102.86	110.93	
G58	106.89	94.39	88.59	79.6	80.16	84.15	76.53	99.92	108.19	
G59	104.15	91.09	84.64	75.52	75.2	79.84	72.58	96.85	105.48	
G60	101.25	87.98	79.88	71.05	69.92	75.24	69.07	93.79	102.66	
G61	98.31	85.16	75.12	66.53	64.8	70.56	65.04	90.69	99.84	
G62	95.28	82.1	70.65	61.85	59.6	65.93	61.41	87.62	96.85	
G63	91.77	78.99	66.41	56.98	54.11	61.05	57.78	84.52	93.75	
G64	82.02	75.85	62.3	51.81	48.79	55.93	53.79	81.33	84.96	
G65	74.23	72.66	57.42	46.9	43.27	51.21	49.44	78.23	75.56	
G66	71.13	69.64	53.35	41.53	35.6	46.13	46.05	74.96	72.14	
G67	68.1	66.05	48.55	36.45	31.17	40.97	41.77	71.61	69.4	
G68	65.04	62.7	44.52	31.41	27.02	36.09	38.31	68.23	66.41	
G69	62.02	59.27	40.16	26.41	23.35	31.41	34.27	64.64	63.31	
G70	58.83	55.48	35.77	21.61	20.0	26.85	30.08	59.4	60.24	
G71	55.93	46.9	31.33	14.35	17.02	22.66	26.49	52.82	57.06	
G72	52.58	42.46	27.38	11.25	14.44	15.93	23.19	49.52	53.99	
G73	49.48	39.4	23.1	8.83	12.06	12.66	18.95	46.29	50.93	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 10:59:47

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 10:59:47

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