

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 127V-2835-99L-3000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

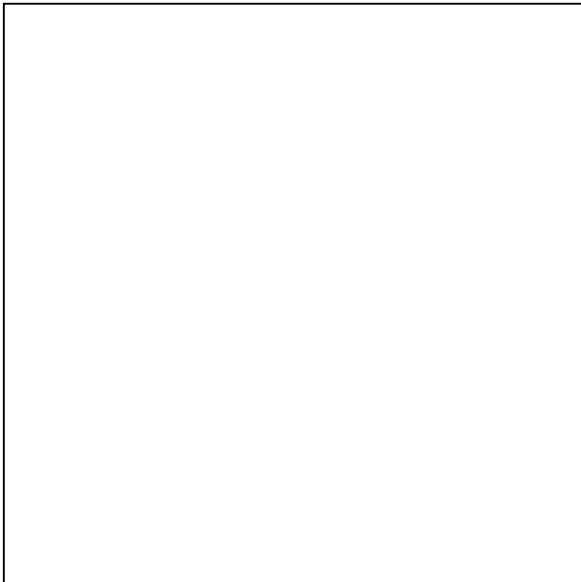
Voltage(V): 126.90 V
Current(A): 0.0540 A
Power(W): 6.49 W
Power Factor: 0.9440
Lamp Luminous Flux: 452.43

Photometric Results

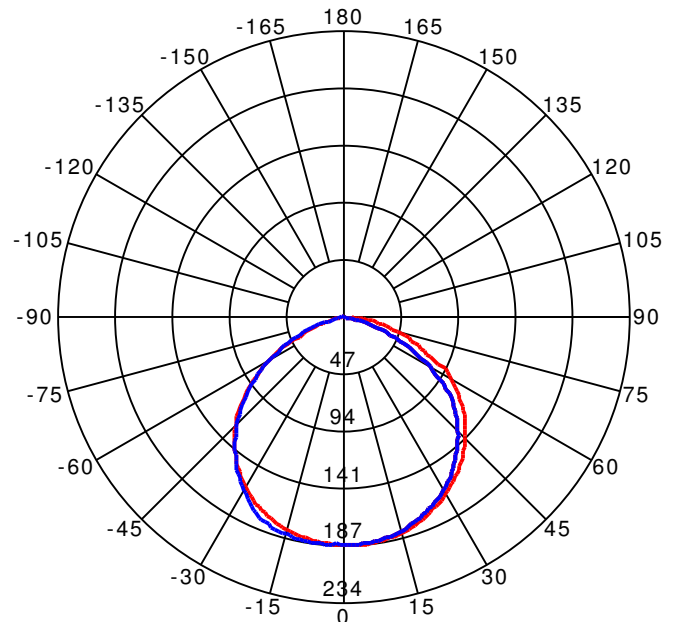
CIE Class: Direct
Luminaire Luminous Flux: 452.425
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 69.71 lm/W
Beam Angle(50%) C0-180,C90-270: 116.9,110.7
Field Angle(10%) C0-180,C90-270: 156.8,148.2

Max. Intensity: 187.38 cd
Max.Intensity Angle: C= 135 Gamma= 1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 186.94 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



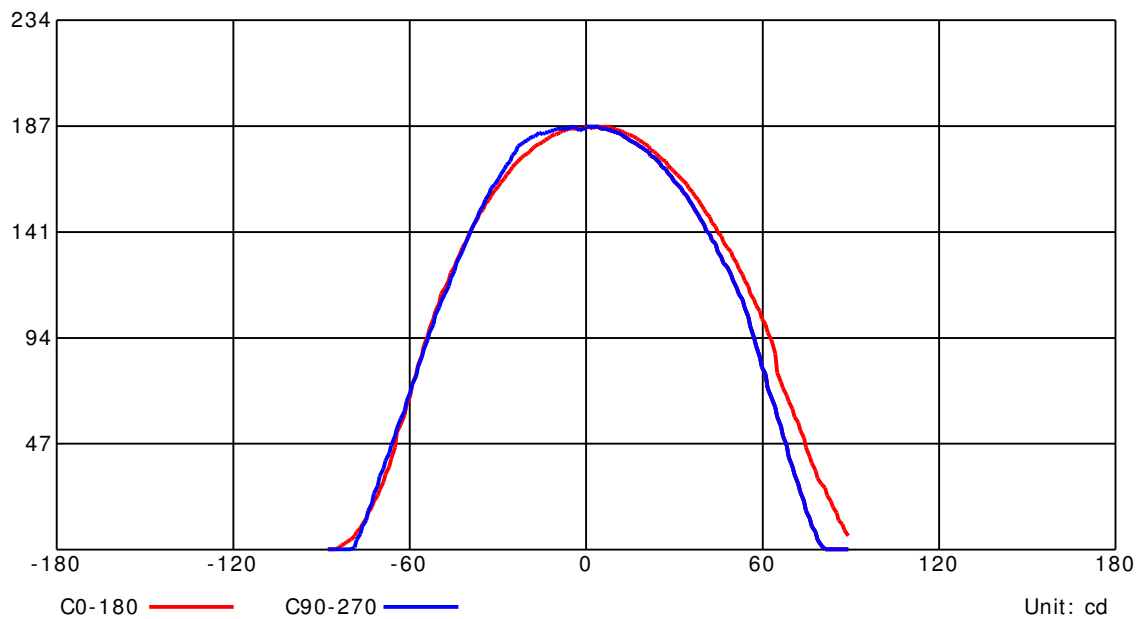
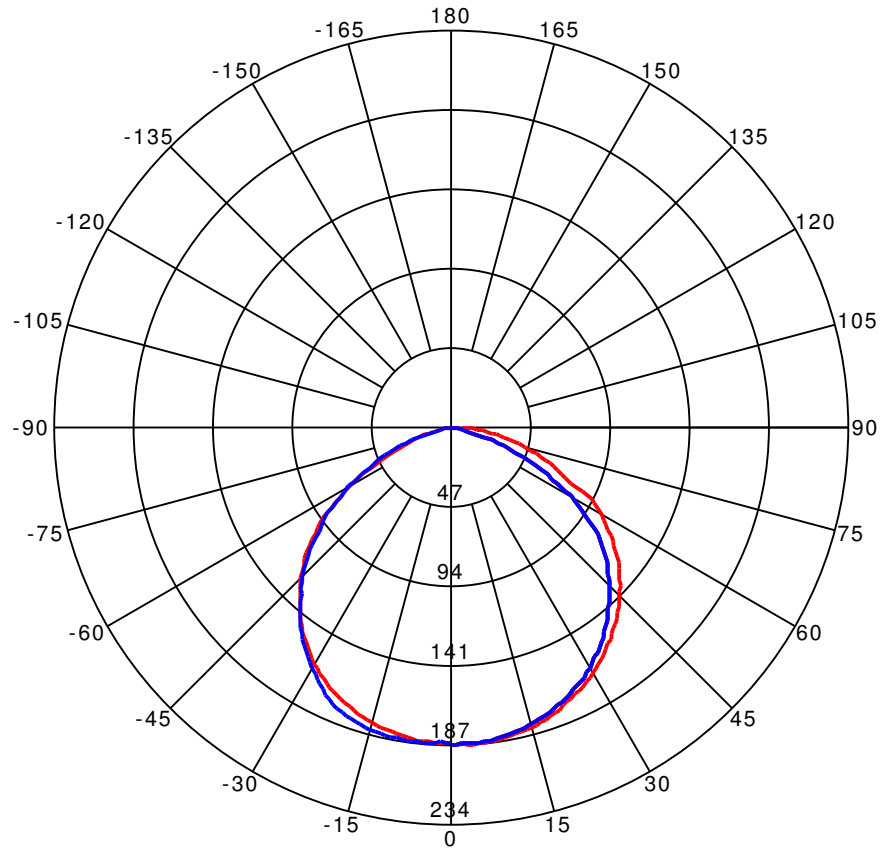
Beam Angle(50%) C0-180,C90-270: 110.7 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 11:12:42

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 11:12:42

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

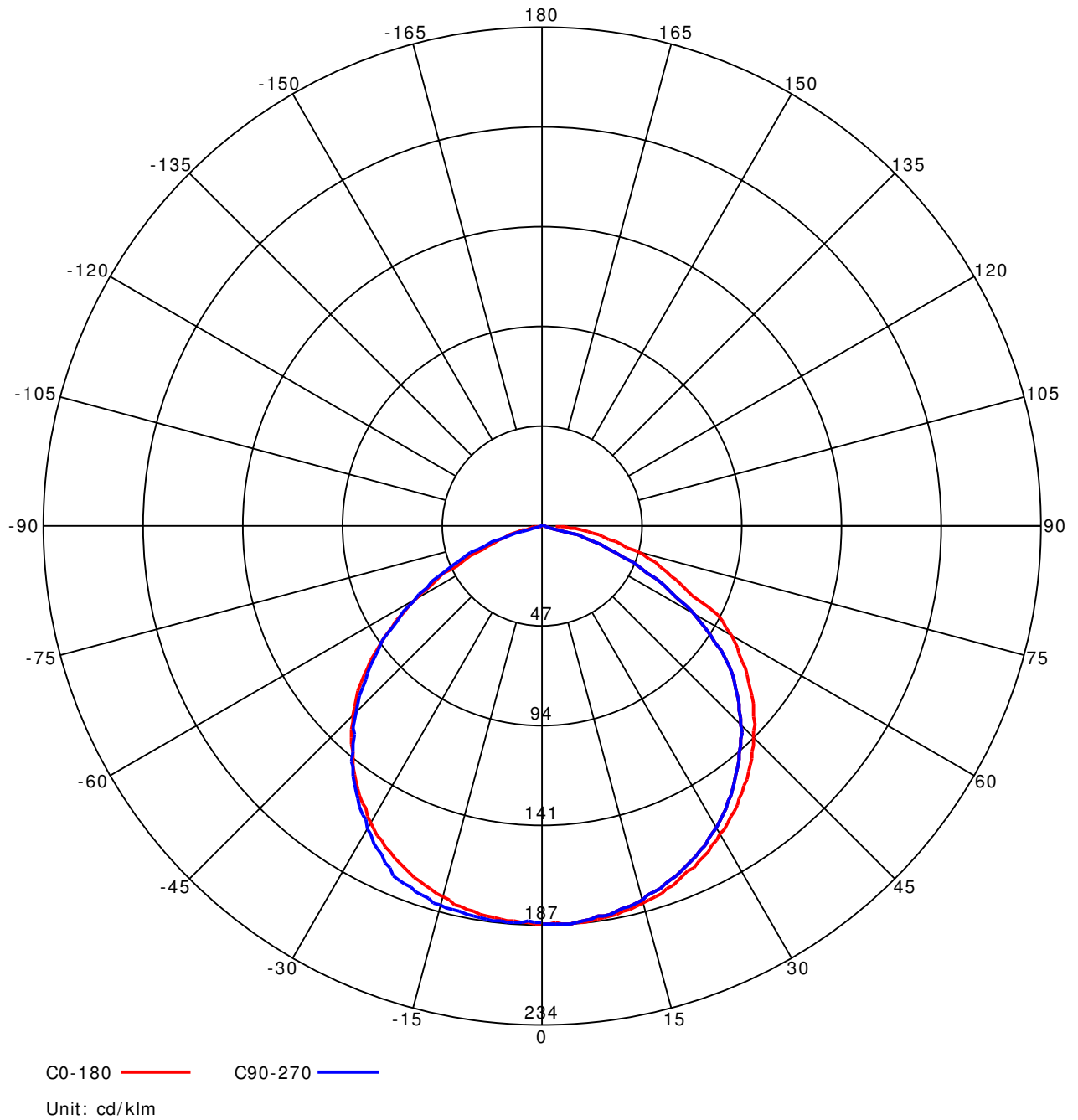
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

Luminous Intensity Distribution Curve



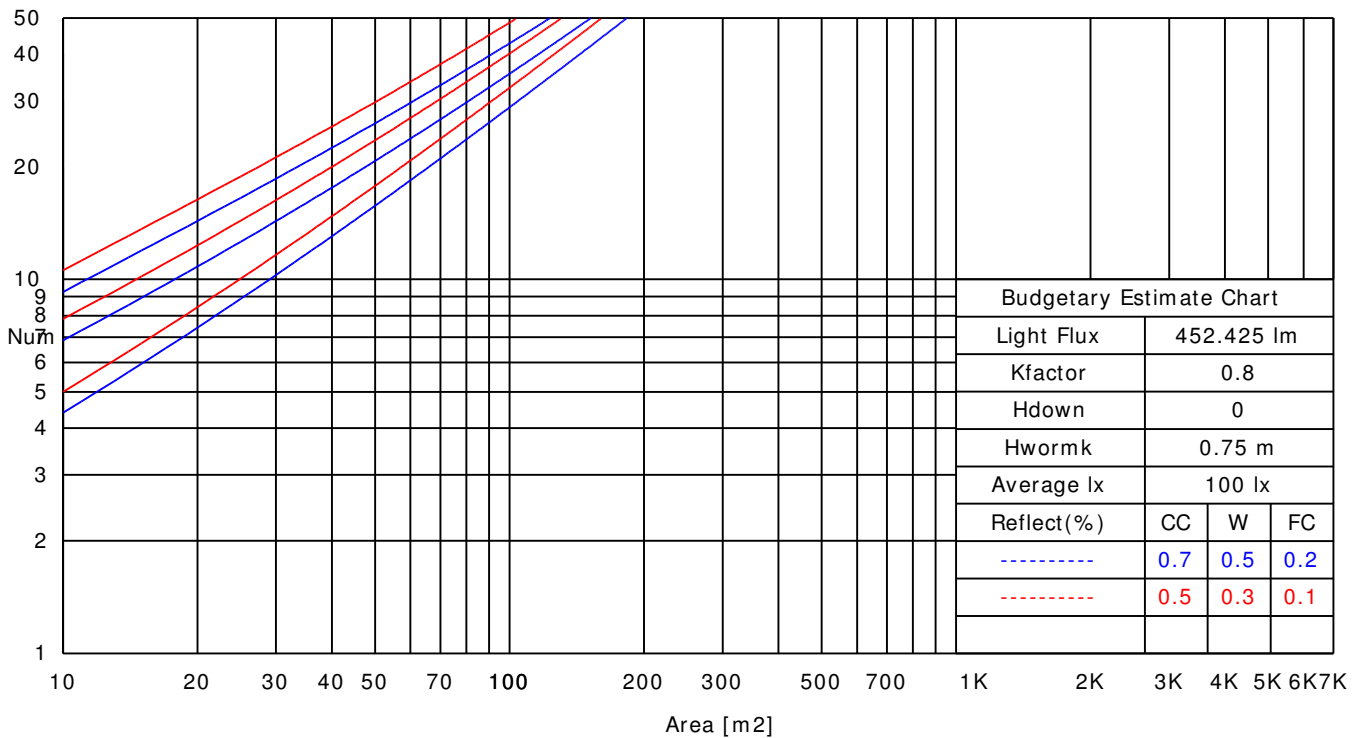
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 11:12:42

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	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.97	0.95	0.93	0.96	0.93	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.80	0.78	0.73
3	0.87	0.85	0.83	0.86	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.78	0.76	0.74	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.71	0.69	0.67	0.71	0.68	0.66	0.70	0.66	0.63	0.68	0.63	0.60	0.66	0.61	0.56	0.52
6	0.65	0.62	0.61	0.65	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.56	0.51	0.48
7	0.59	0.57	0.56	0.59	0.56	0.54	0.59	0.55	0.52	0.58	0.53	0.50	0.57	0.51	0.47	0.43
8	0.55	0.52	0.51	0.55	0.52	0.50	0.55	0.51	0.48	0.54	0.49	0.46	0.53	0.48	0.43	0.40
9	0.51	0.49	0.47	0.51	0.48	0.46	0.51	0.47	0.44	0.51	0.46	0.42	0.50	0.44	0.40	0.37
10	0.47	0.45	0.44	0.47	0.45	0.43	0.48	0.44	0.41	0.48	0.43	0.39	0.47	0.41	0.37	0.34

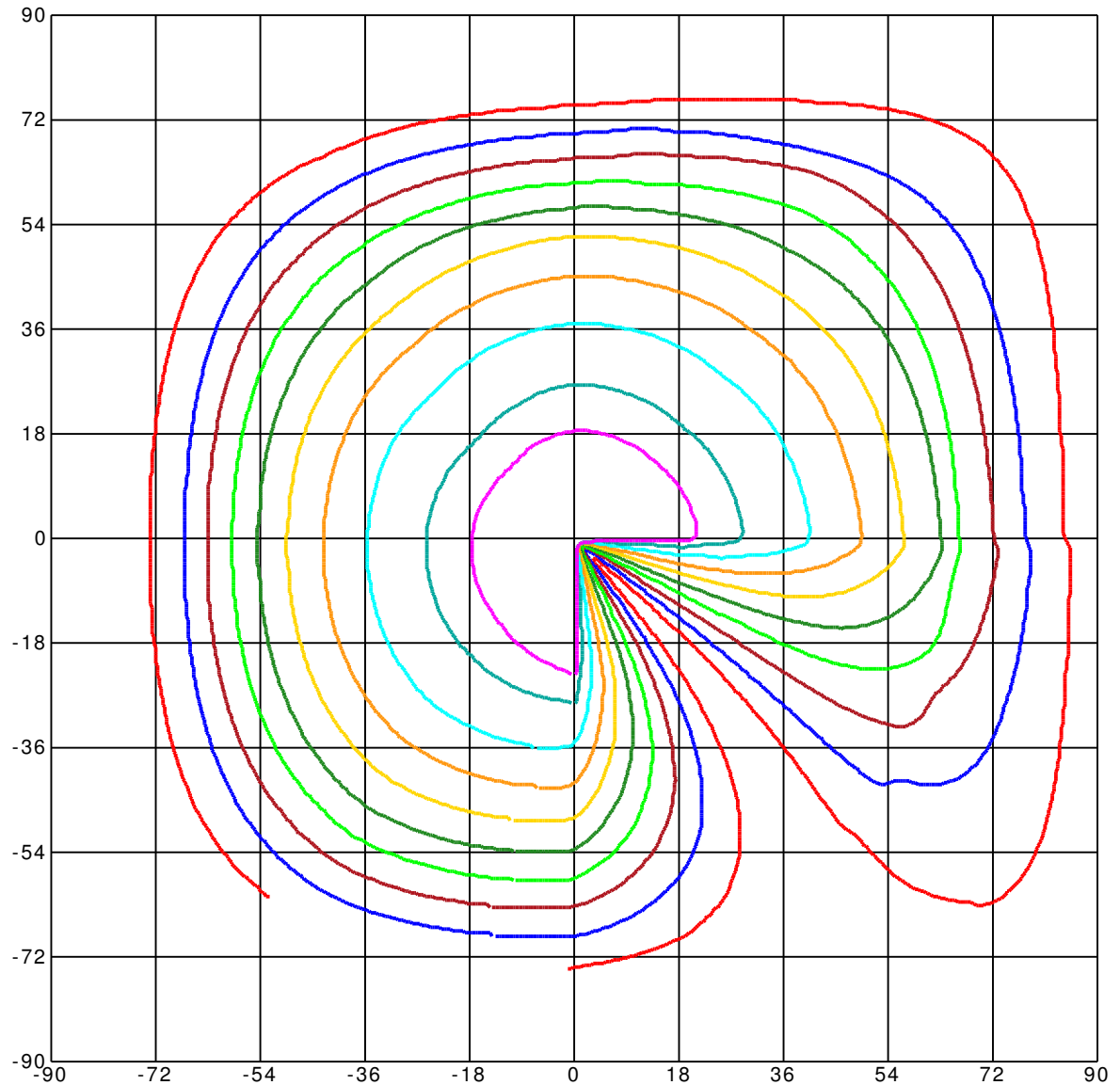
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 11:12:42

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 $I_{max}(100\%)$: 187.379 cd

178.01(95% I_{max})
168.641(90% I_{max})
149.903(80% I_{max})
131.165(70% I_{max})
112.427(60% I_{max})

93.689(50% I_{max})
74.951(40% I_{max})
56.214(30% I_{max})
37.476(20% I_{max})
18.738(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 11:12:42

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

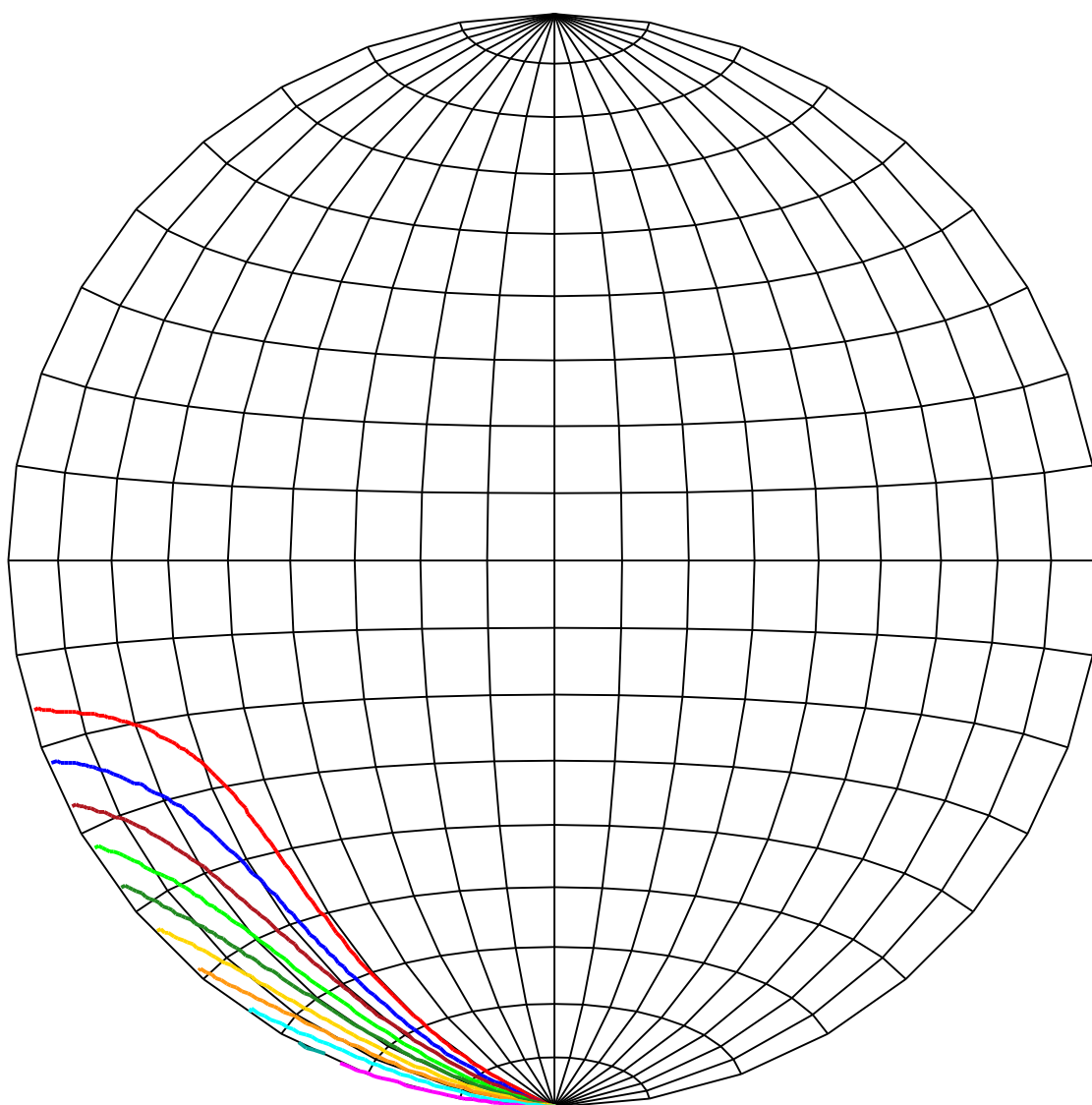
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 187.379 cd

178.01(95%Imax)	93.689(50%Imax)
168.641(90%Imax)	74.951(40%Imax)
149.903(80%Imax)	56.214(30%Imax)
131.165(70%Imax)	37.476(20%Imax)
112.427(60%Imax)	18.738(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 11:12:42

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

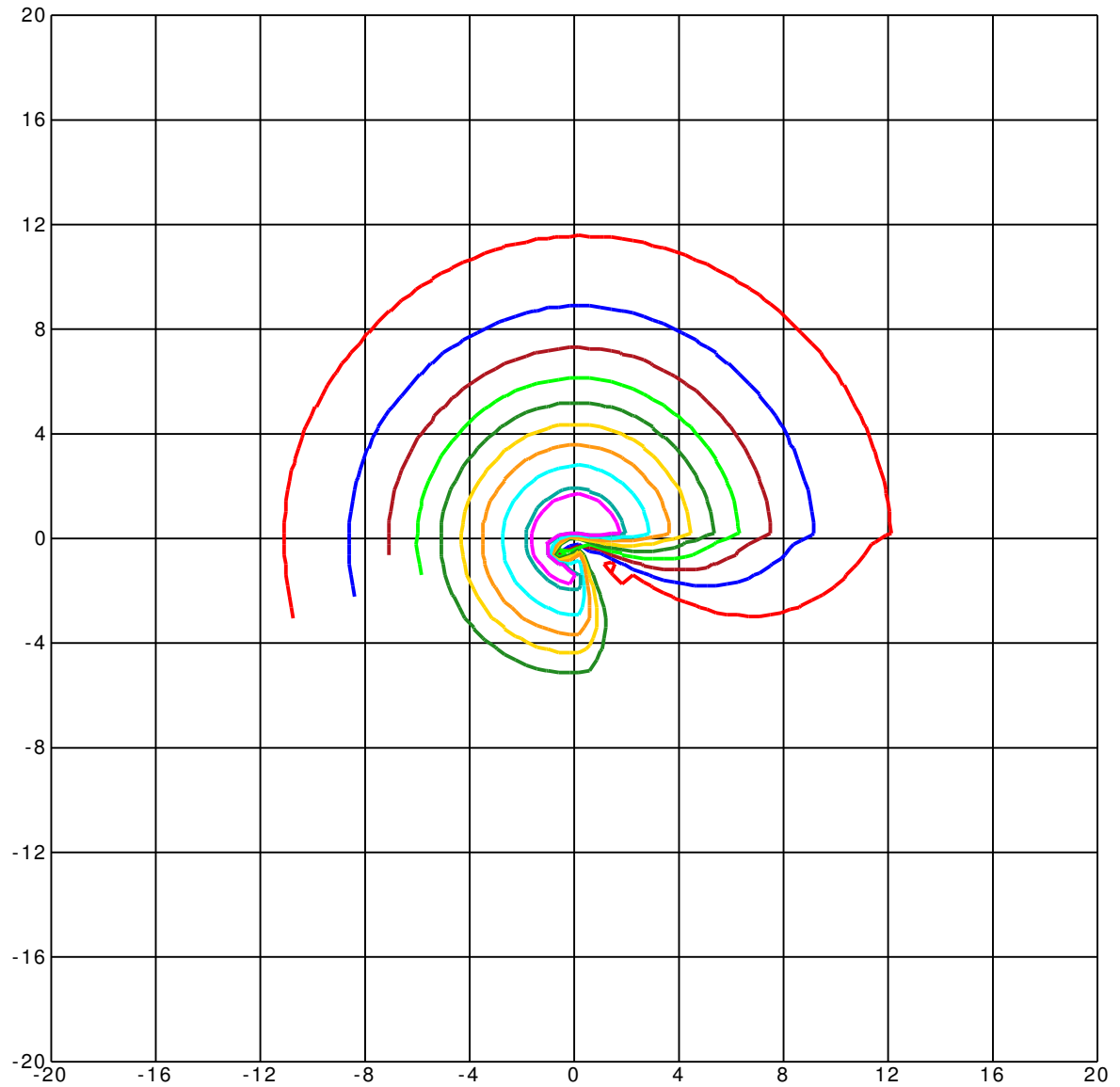
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

ISOLX DIAGRAM



Unit of illumination:lx

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

2.692(1% Emax)

2.634(1% Emax)

2.341(1% Emax)

2.049(1% Emax)

1.756(1% Emax)

1.463(1% Emax)

1.171(1% Emax)

0.878(0% Emax)

0.585(0% Emax)

0.293(0% Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 11:12:42

G Range: 0 - 90 Deg

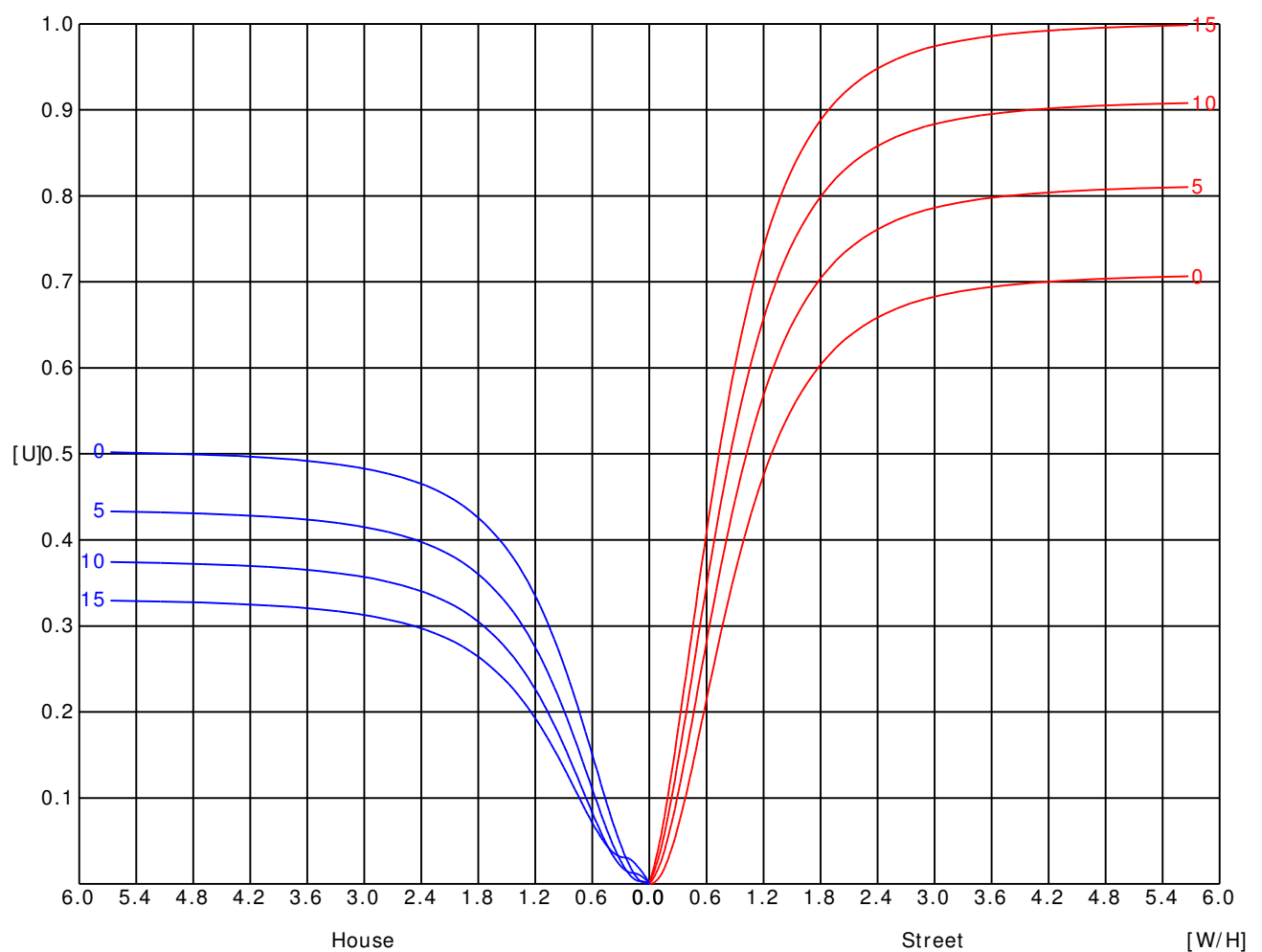
G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks:

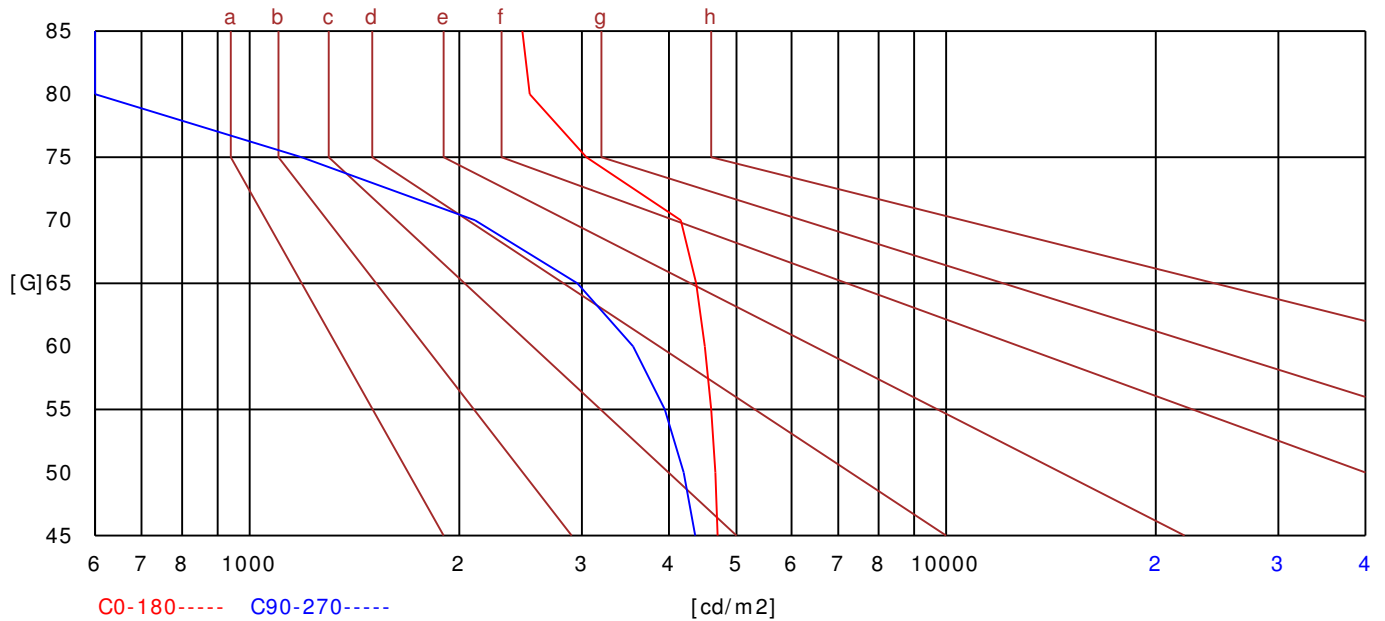


C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 11:12:42

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	4697	4664	4598	4504	4377	4159	3046	2525	2464
C90	4365	4198	3947	3552	2955	2107	1188	459	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 11:12:42

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

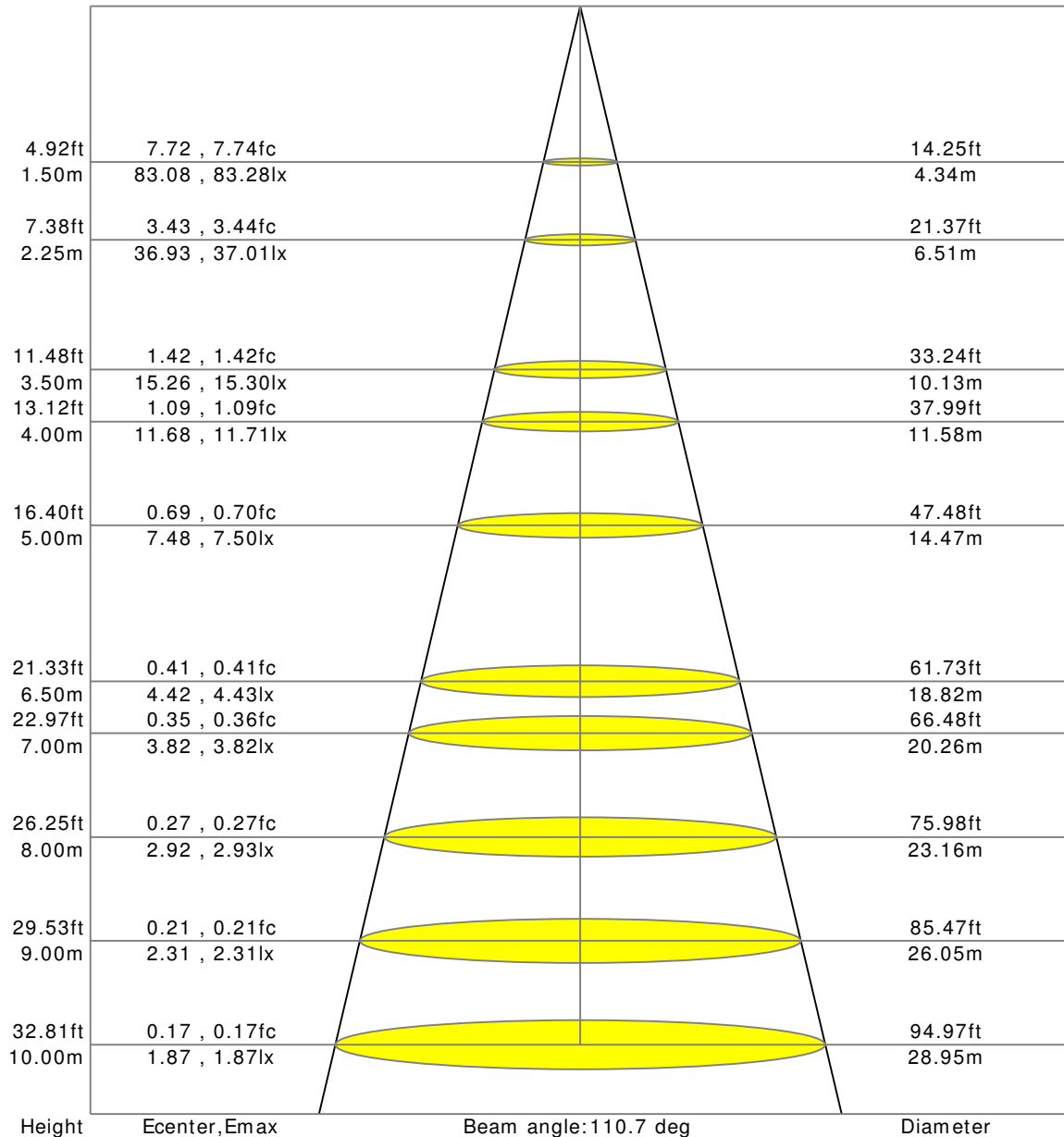
Test System: Huipu CPM-1800B Goniophotometer

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 11:12:42

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	20.65	20.73	20.85	20.91	21.16	20.22	20.30	20.42	20.48	20.73
3H	20.74	20.81	20.95	21.01	21.25	20.37	20.45	20.58	20.64	20.89
4H	20.73	20.80	20.94	21.00	21.25	20.39	20.46	20.60	20.65	20.90
6H	20.71	20.77	20.92	20.97	21.23	20.37	20.44	20.59	20.64	20.89
8H	20.69	20.76	20.91	20.96	21.21	20.36	20.42	20.58	20.63	20.88
12H	20.67	20.74	20.90	20.95	21.20	20.34	20.41	20.56	20.61	20.87
4H 2H	23.24	23.31	23.45	23.51	23.76	21.96	22.03	22.17	22.23	22.48
3H	23.43	23.49	23.65	23.70	23.96	22.23	22.29	22.45	22.50	22.75
4H	23.45	23.51	23.68	23.72	23.98	22.29	22.35	22.52	22.57	22.82
6H	23.43	23.49	23.67	23.71	23.97	22.31	22.37	22.55	22.59	22.85
8H	23.41	23.47	23.65	23.69	23.96	22.31	22.36	22.55	22.59	22.85
12H	23.39	23.44	23.64	23.67	23.94	22.29	22.34	22.54	22.58	22.84
8H 4H	24.01	24.07	24.22	24.28	24.53	22.03	22.09	22.25	22.30	22.55
6H	24.43	24.48	24.69	24.72	24.99	22.52	22.57	22.78	22.81	23.08
8H	24.43	24.47	24.69	24.72	25.00	22.55	22.60	22.81	22.84	23.12
12H	24.41	24.45	24.68	24.71	24.99	22.56	22.60	22.83	22.85	23.14
12H 4H	24.67	24.72	24.91	24.95	25.22	22.44	22.49	22.69	22.72	22.99
6H	24.74	24.79	25.00	25.03	25.31	22.53	22.58	22.80	22.82	23.10

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/14 11:12:42

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

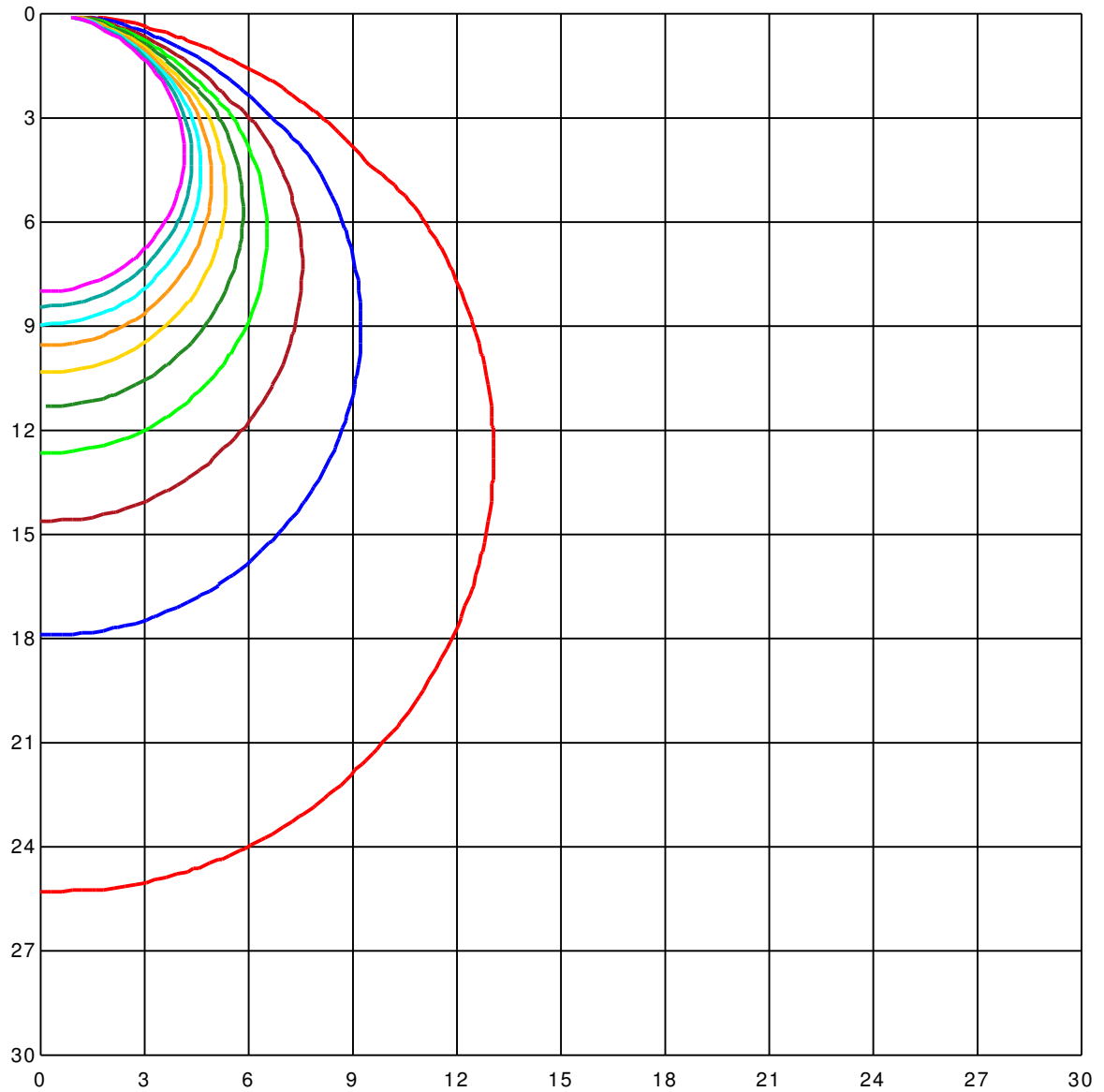
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/14 11:12:42

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

2.918
2.626
2.335
2.043
1.751

1.459
1.167
0.875
0.584
0.292

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 11:12:42

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	186.94	186.29	186.89	186.89	186.73	0.0	185.97	0.0	186.09	
G1	187.06	186.45	186.98	187.38	186.61	0.0	186.17	0.0	186.13	
G2	186.49	187.06	186.85	187.18	186.61	0.0	185.69	0.0	186.57	
G3	187.22	186.94	186.81	186.21	186.49	0.0	186.57	0.0	186.57	
G4	187.26	186.49	187.14	185.89	185.93	0.0	186.73	0.0	186.69	
G5	187.14	186.49	186.53	185.6	186.09	0.0	186.69	0.0	186.61	
G6	187.02	186.25	186.33	185.16	185.77	0.0	186.09	0.0	186.57	
G7	186.77	186.37	186.05	185.0	185.4	92.38	186.57	0.0	186.53	
G8	186.65	185.44	185.28	184.19	185.04	184.76	186.45	0.0	186.37	
G9	186.29	185.0	185.28	183.71	184.48	185.16	186.17	0.0	186.85	
G10	185.97	184.44	184.84	183.1	183.43	184.03	186.01	0.0	185.97	
G11	185.52	183.99	184.23	182.46	183.27	183.47	185.69	0.0	185.73	
G12	185.04	183.39	183.71	181.69	182.62	182.94	185.28	0.0	185.32	
G13	184.52	182.78	182.98	180.97	182.22	182.46	184.88	0.0	184.96	
G14	183.91	182.46	182.34	180.12	181.05	181.77	184.52	0.0	184.48	
G15	183.35	181.37	181.45	179.27	180.28	181.09	184.03	0.0	183.95	
G16	182.62	180.64	180.64	178.23	179.31	180.2	184.15	0.0	183.35	
G17	181.89	179.84	179.8	177.3	178.39	179.39	182.94	0.0	182.14	
G18	181.09	178.99	178.83	176.17	177.46	178.87	182.38	0.0	181.94	
G19	180.28	178.02	177.86	175.04	176.37	177.94	181.69	0.0	180.4	
G20	179.39	177.1	176.81	173.79	175.36	177.02	180.77	0.0	180.24	
G21	178.43	175.2	175.69	172.54	174.19	175.89	179.96	0.0	179.35	
G22	176.81	174.8	174.6	171.13	173.1	173.91	179.27	0.0	178.31	
G23	175.73	172.86	173.39	170.16	171.73	172.82	178.27	0.0	177.34	
G24	175.32	172.26	172.22	168.23	170.52	172.06	175.93	0.0	176.17	
G25	173.43	170.89	170.85	166.65	169.07	170.85	174.72	0.0	175.12	
G26	172.9	169.31	169.56	165.77	167.58	169.39	172.06	0.0	173.87	
G27	171.61	167.86	168.35	164.15	166.05	167.9	170.2	0.0	172.58	
G28	170.16	166.33	166.65	161.85	164.39	166.25	168.75	0.0	171.29	
G29	168.75	164.8	165.12	160.08	162.7	163.95	165.77	0.0	170.0	
G30	167.38	163.14	163.51	158.27	160.89	163.1	164.11	0.0	168.67	
G31	165.97	161.41	161.89	156.45	158.91	161.25	161.17	0.0	167.34	
G32	164.44	159.64	159.64	154.52	156.45	159.27	159.52	0.0	165.93	
G33	162.9	157.86	158.35	152.18	154.92	157.5	157.06	0.0	164.6	
G34	161.94	156.05	156.49	150.52	152.82	155.6	154.39	0.0	163.06	
G35	159.68	154.19	154.52	148.39	150.6	153.87	152.54	0.0	161.53	
G36	158.02	152.22	152.58	146.25	148.51	151.29	149.84	0.0	159.96	

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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	156.29	150.28	150.44	143.95	146.05	149.19	147.38	0.0	158.39	
G38	154.52	148.23	148.31	141.61	143.59	146.94	143.67	0.0	156.65	
G39	152.7	146.25	146.09	139.19	141.61	144.72	141.98	0.0	154.88	
G40	150.81	144.11	143.87	136.77	138.51	141.98	138.1	0.0	153.06	
G41	148.99	141.98	141.53	134.23	135.93	139.92	135.81	0.0	151.21	
G42	147.02	139.68	139.19	131.61	133.35	137.38	132.06	0.0	149.27	
G43	144.96	137.5	136.89	128.95	130.81	134.6	130.04	0.0	147.38	
G44	142.9	134.72	135.04	126.21	127.94	131.49	126.29	0.0	145.28	
G45	140.28	132.86	132.06	123.47	125.16	129.27	123.67	0.0	143.23	
G46	138.59	130.44	129.6	120.48	122.22	126.41	120.08	0.0	141.01	
G47	136.41	128.02	127.02	117.54	119.19	123.47	116.89	0.0	138.75	
G48	133.67	125.36	124.68	114.44	116.05	120.28	113.47	0.0	136.57	
G49	131.85	122.7	121.77	111.21	112.74	117.1	110.04	0.0	134.35	
G50	129.35	119.92	118.99	107.94	108.75	113.71	107.38	0.0	131.98	
G51	126.85	117.26	116.05	104.64	105.64	110.4	103.43	0.0	129.48	
G52	124.23	114.31	113.14	101.53	101.85	107.1	99.19	0.0	127.06	
G53	121.77	111.81	110.16	97.82	98.19	103.43	95.97	0.0	124.64	
G54	118.99	108.39	106.89	94.19	94.11	99.68	92.46	0.0	121.98	
G55	116.29	105.48	102.62	90.56	89.96	96.37	88.55	0.0	119.39	
G56	113.51	102.5	98.27	86.81	85.6	92.3	84.68	0.0	116.73	
G57	110.77	99.48	93.99	83.06	81.45	88.47	80.44	0.0	114.03	
G58	107.9	96.69	90.0	79.19	77.18	84.52	76.85	0.0	111.21	
G59	105.44	93.27	85.48	75.16	73.02	80.44	73.43	0.0	108.47	
G60	102.46	90.08	81.13	71.05	68.43	76.21	69.6	0.0	105.32	
G61	99.11	86.89	77.02	66.98	64.15	72.06	65.65	0.0	102.62	
G62	96.05	83.71	71.81	62.7	59.84	67.82	61.25	0.0	99.64	
G63	92.98	80.52	67.38	58.51	55.65	63.63	57.66	0.0	96.57	
G64	86.81	77.26	63.31	54.23	51.53	59.44	54.03	0.0	91.29	
G65	78.06	73.99	58.79	49.96	44.88	55.16	50.6	0.0	80.93	
G66	74.23	70.6	54.11	45.77	39.84	50.89	46.05	0.0	77.26	
G67	71.33	67.02	49.92	41.69	36.41	46.53	42.78	0.0	74.52	
G68	68.35	63.95	45.69	37.5	33.06	42.26	39.15	0.0	71.65	
G69	65.4	60.44	41.17	33.39	29.84	37.78	35.65	0.0	68.71	
G70	62.06	56.9	36.94	28.83	26.81	33.67	32.1	0.0	65.65	
G71	59.03	48.27	33.15	24.19	23.79	29.64	28.27	0.0	62.5	
G72	55.89	40.56	29.11	20.65	21.09	22.42	24.35	0.0	59.4	
G73	52.58	37.18	25.24	17.62	18.43	19.03	20.73	0.0	56.17	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/14 11:12:42

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 11:12:42

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.35 m

Remarks: