

Report No.:

Test Time: 2020/3/3 8:30:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: RP-5'-12W-CCT-4000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

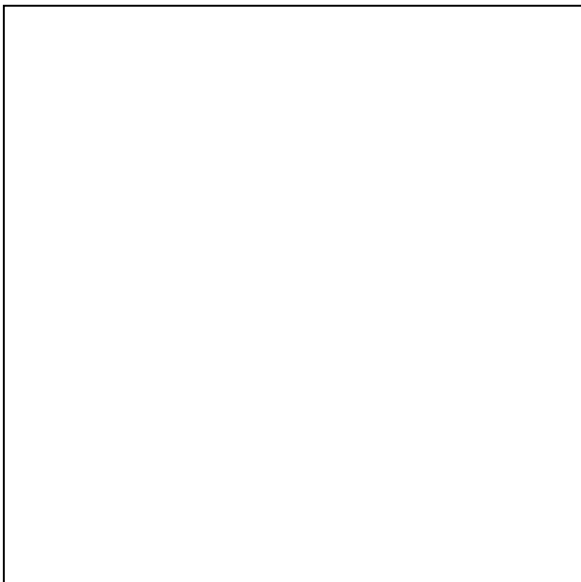
Voltage(V): 229.84 V
Current(A): 0.0540 A
Power(W): 12.16 W
Power Factor: 0.9690
Lamp Luminous Flux: 1072.07

Photometric Results

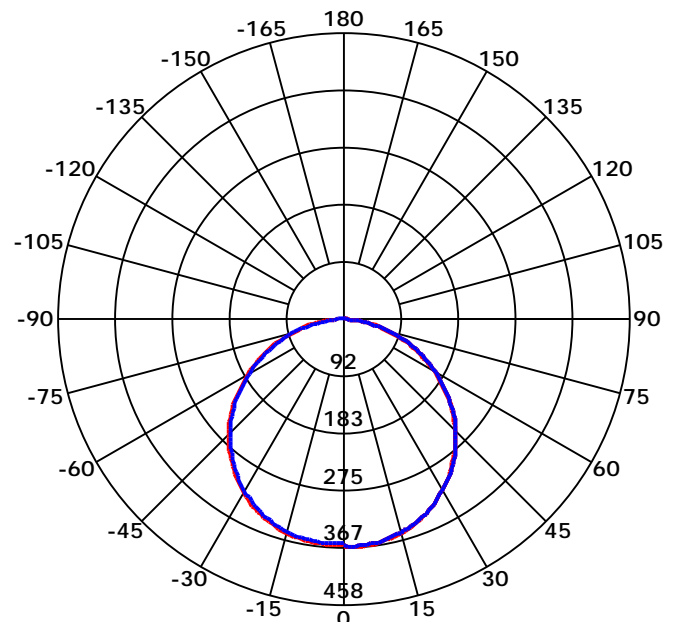
CIE Class: Direct
Luminaire Luminous Flux: 1072.065
Downward Ratio: 0.09%
Luminaire Efficacy Rating(LER): 88.16 lm/W
Beam Angle(50%) C0-180,C90-270: 116.4,116.2
Field Angle(10%) C0-180,C90-270: 164.3,163.4

Max. Intensity: 366.72 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 99.91%
Efficacy: 100.00%
Center Intensity: 366.64 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



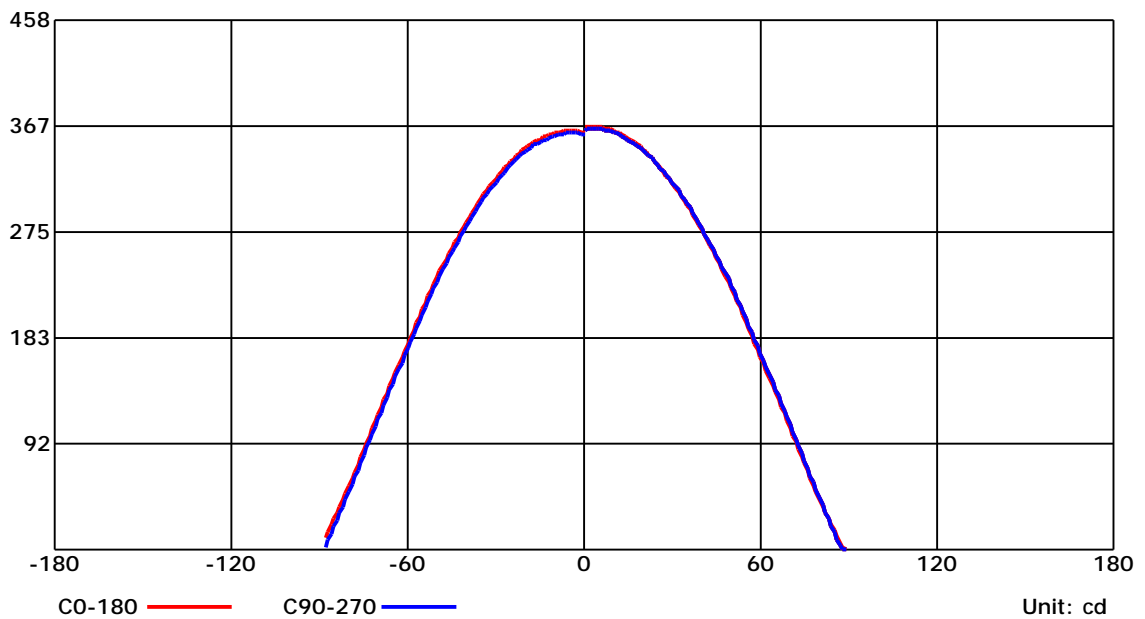
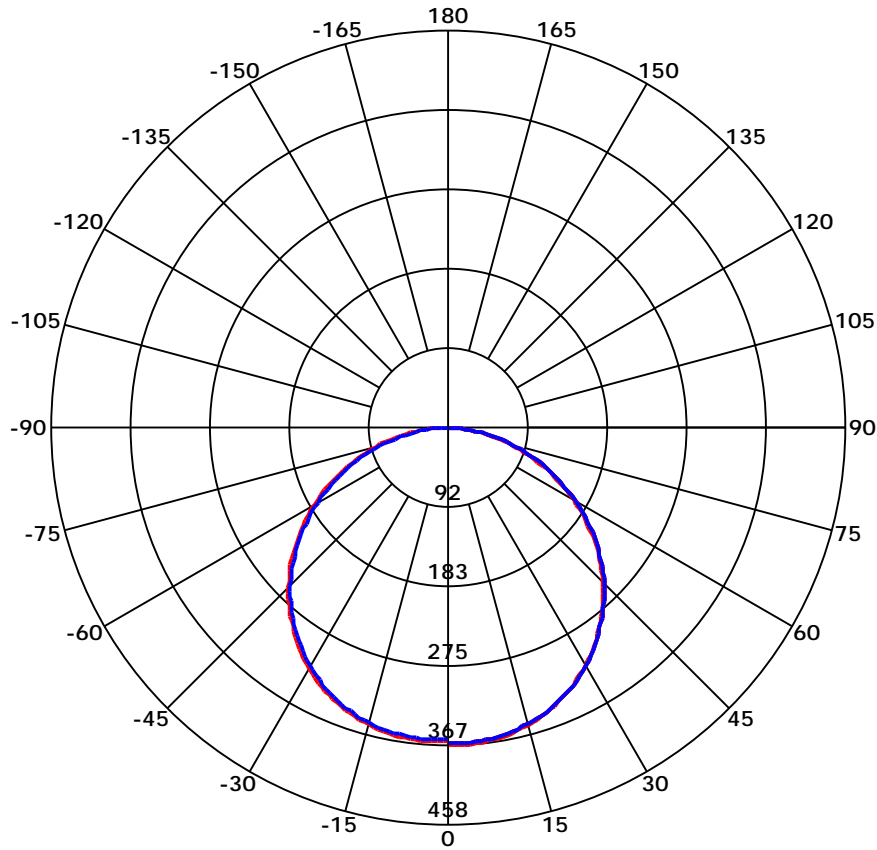
Beam Angle(50%) C0-180,C90-270: 116.2 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

Luminous Intensity Distribution Curve



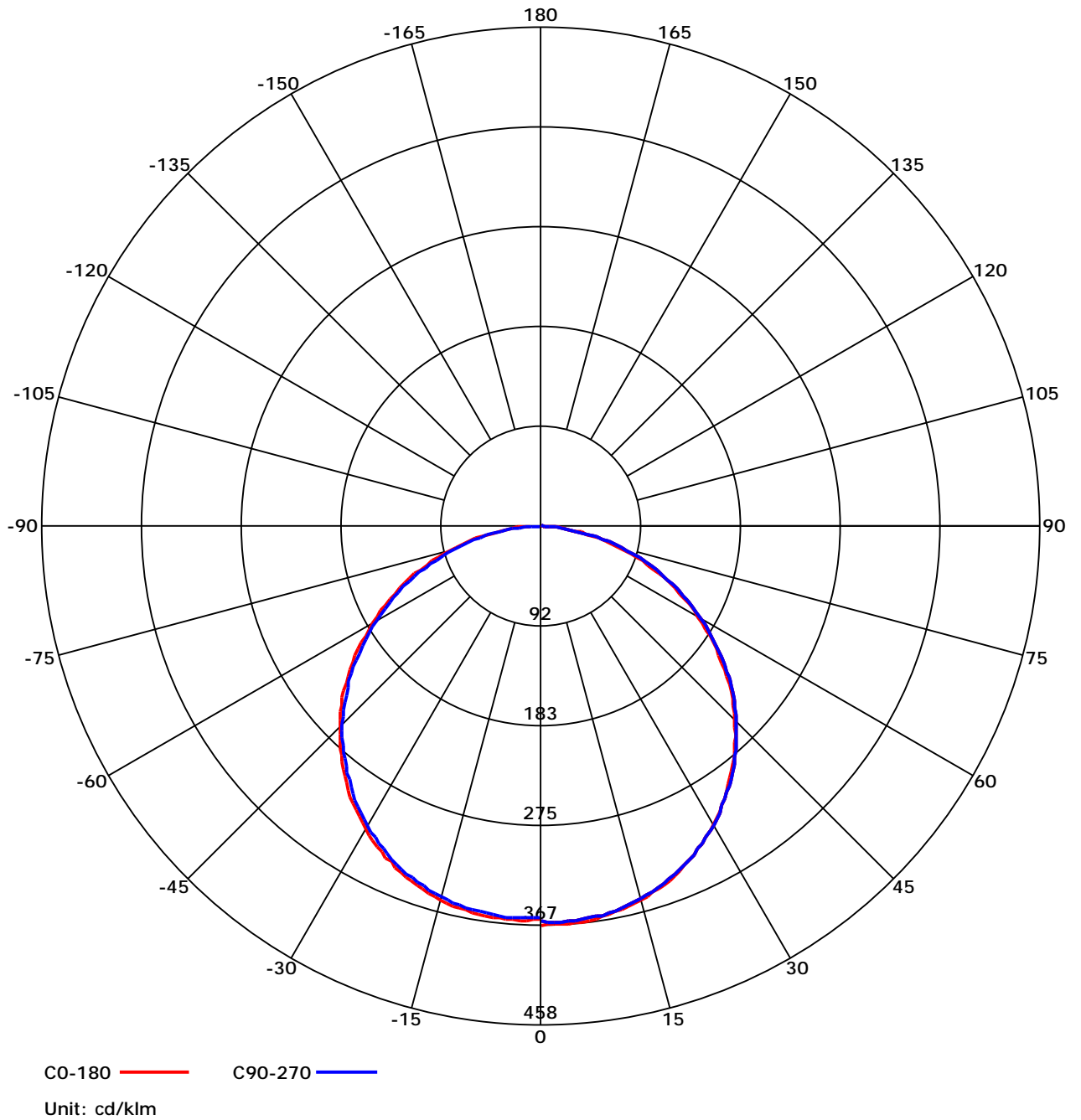
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

Report No.:

Test Time: 2020/3/3 8:30:01

Luminous Intensity Distribution Curve



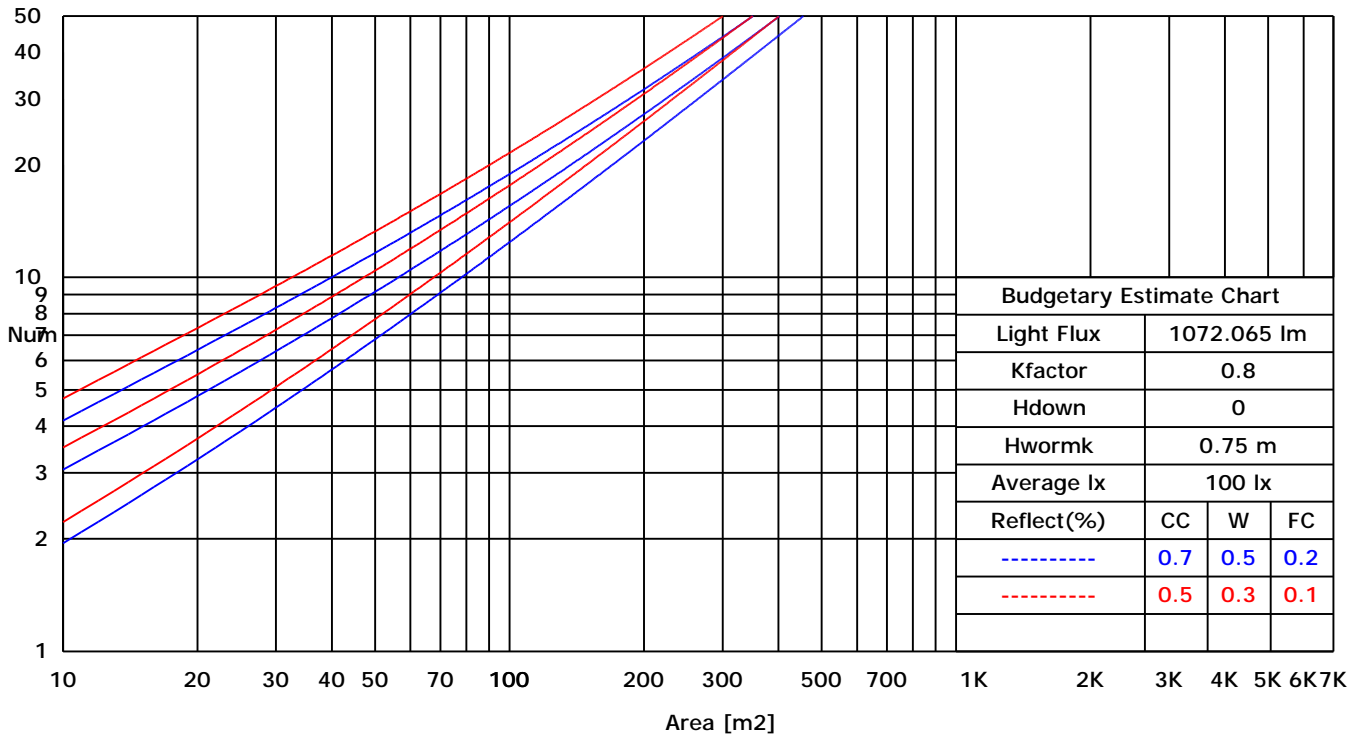
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 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	0.80	0.84	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.63
4	0.75	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.60	0.56
5	0.68	0.65	0.64	0.68	0.65	0.62	0.67	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
6	0.61	0.59	0.58	0.62	0.59	0.56	0.61	0.57	0.54	0.61	0.55	0.51	0.59	0.53	0.49	0.45
7	0.56	0.54	0.52	0.57	0.53	0.51	0.57	0.52	0.49	0.56	0.51	0.47	0.55	0.49	0.44	0.41
8	0.52	0.49	0.48	0.52	0.49	0.47	0.52	0.48	0.45	0.52	0.47	0.43	0.51	0.45	0.41	0.38
9	0.48	0.46	0.44	0.48	0.45	0.43	0.49	0.44	0.42	0.49	0.43	0.40	0.48	0.42	0.38	0.35
10	0.44	0.42	0.41	0.45	0.42	0.40	0.46	0.41	0.39	0.46	0.40	0.37	0.45	0.39	0.35	0.32

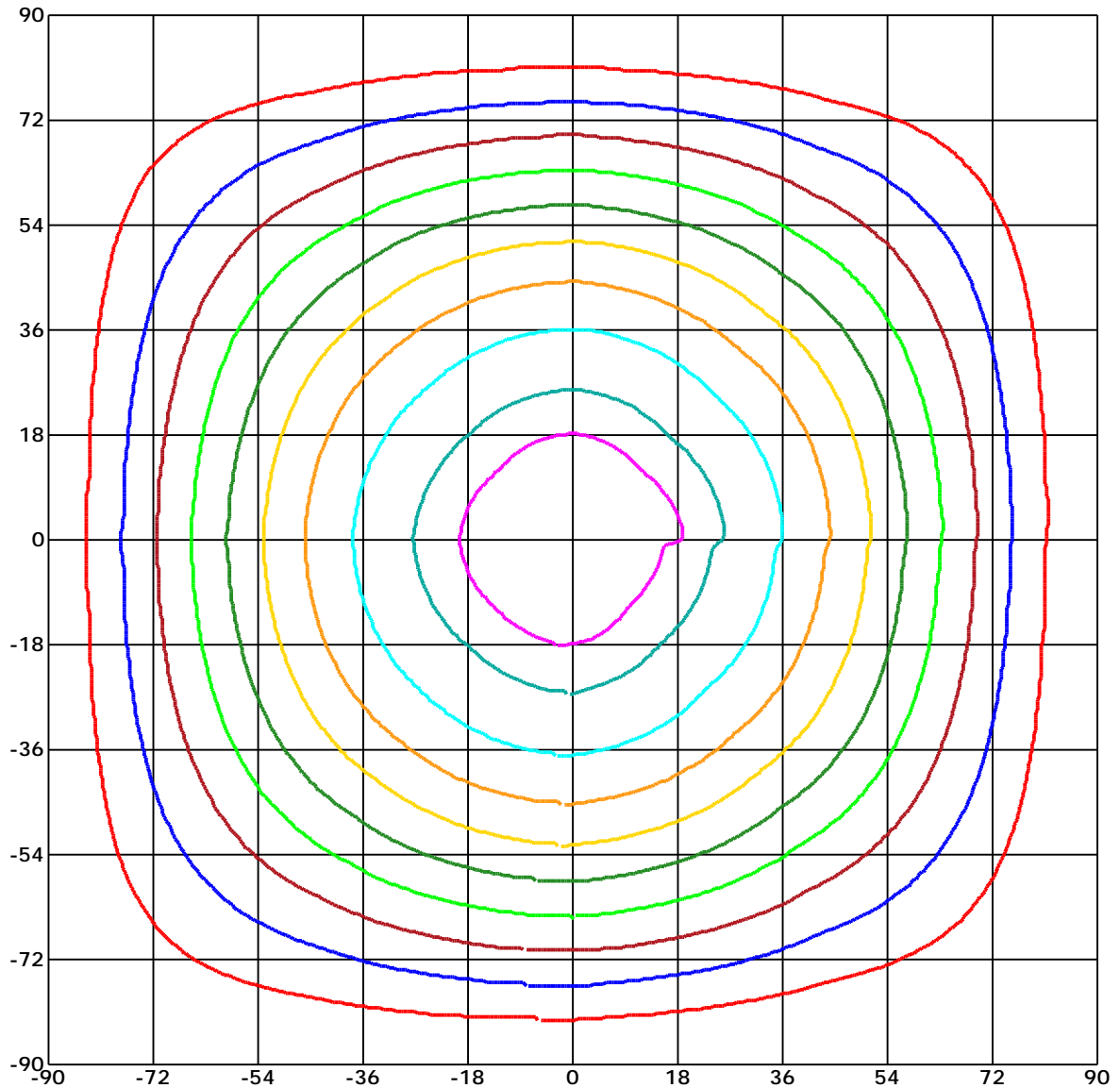
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.2 m
 Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



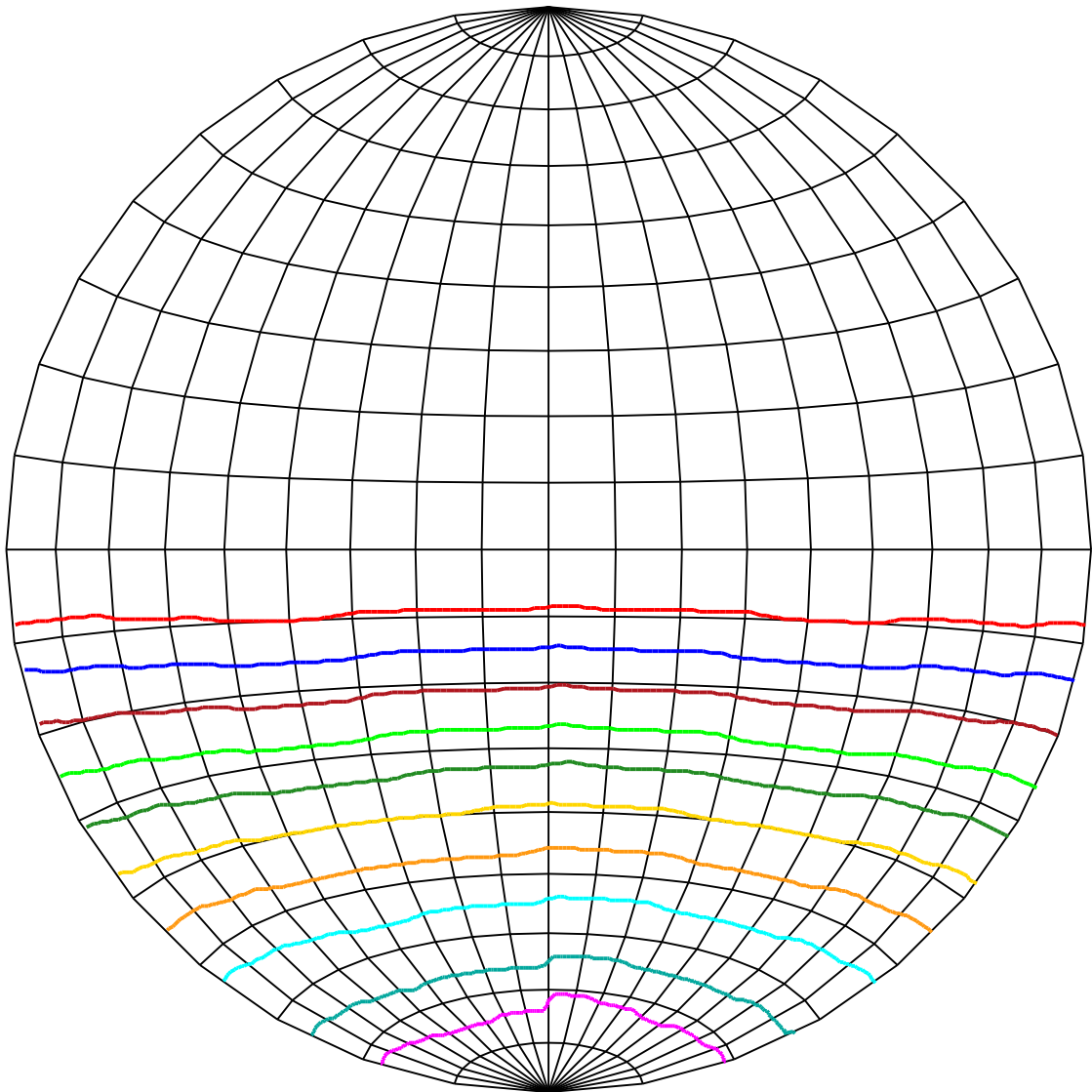
Unit of intensity:cd Imax(100%): 366.718 cd

- | | |
|------------------|------------------|
| 348.382(95%Imax) | 183.359(50%Imax) |
| 330.046(90%Imax) | 146.687(40%Imax) |
| 293.374(80%Imax) | 110.015(30%Imax) |
| 256.702(70%Imax) | 73.344(20%Imax) |
| 220.031(60%Imax) | 36.672(10%Imax) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



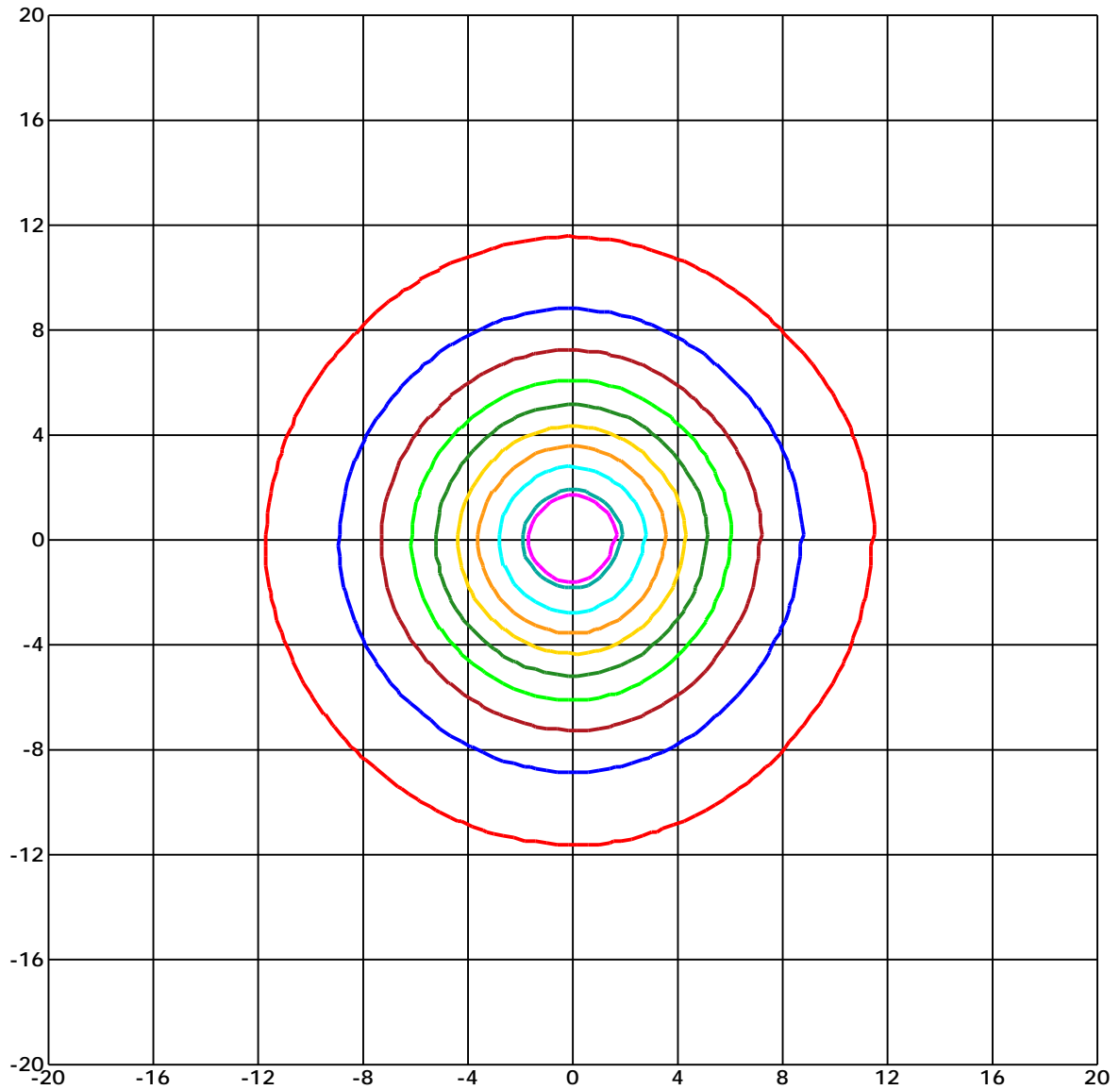
Unit of intensity:cd I_{max}(100%): 366.718 cd

348.382(95%I _{max})	183.359(50%I _{max})
330.046(90%I _{max})	146.687(40%I _{max})
293.374(80%I _{max})	110.015(30%I _{max})
256.702(70%I _{max})	73.344(20%I _{max})
220.031(60%I _{max})	36.672(10%I _{max})

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

ISOLX DIAGRAM



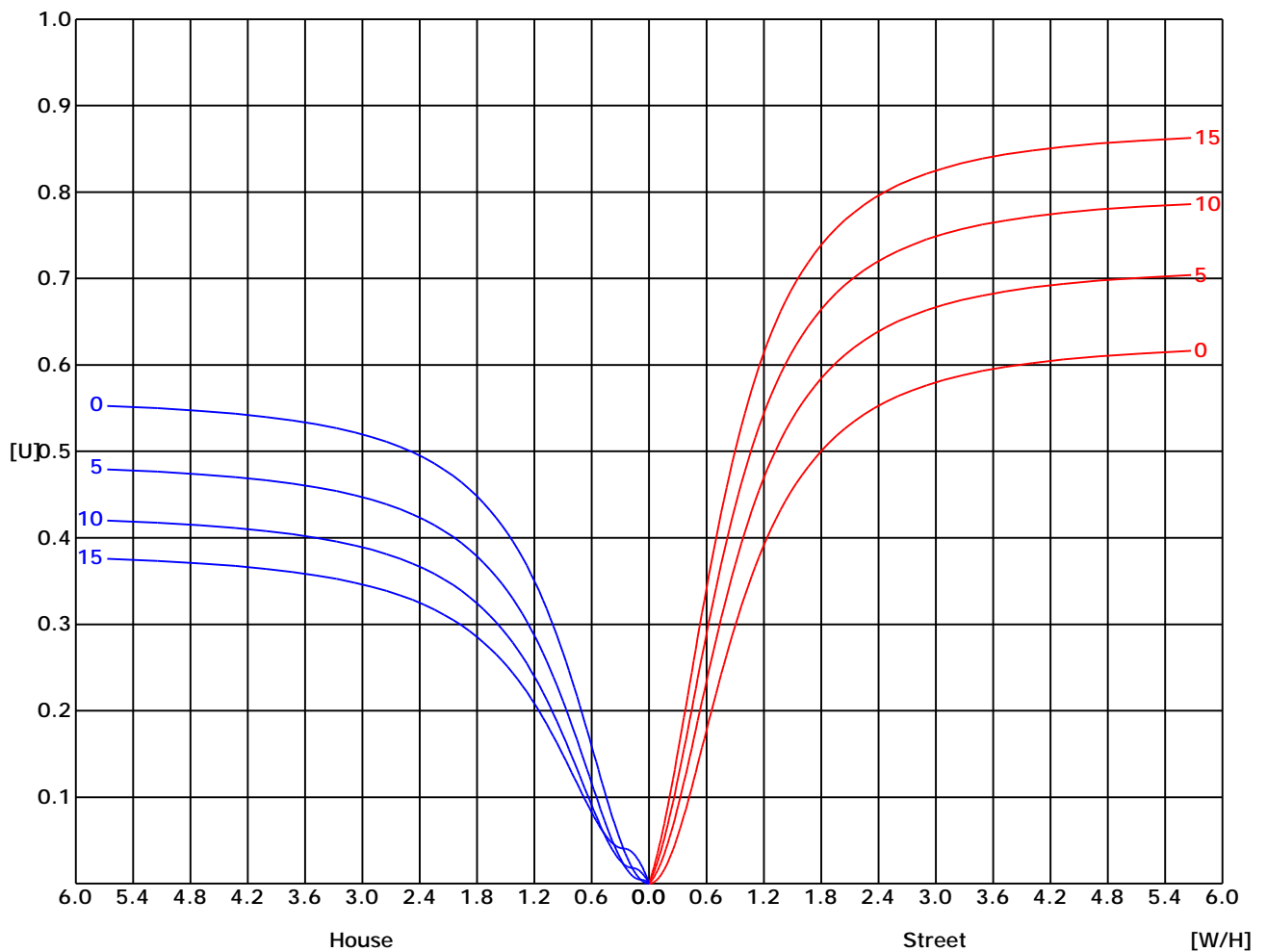
Unit of illumination: lx Height of plane: 8.0(m)/26.25(ft)

- | | |
|---------------|---------------|
| 5.27(1%Emax) | 2.864(1%Emax) |
| 5.156(1%Emax) | 2.292(1%Emax) |
| 4.583(1%Emax) | 1.719(0%Emax) |
| 4.01(1%Emax) | 1.146(0%Emax) |
| 3.437(1%Emax) | 0.573(0%Emax) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

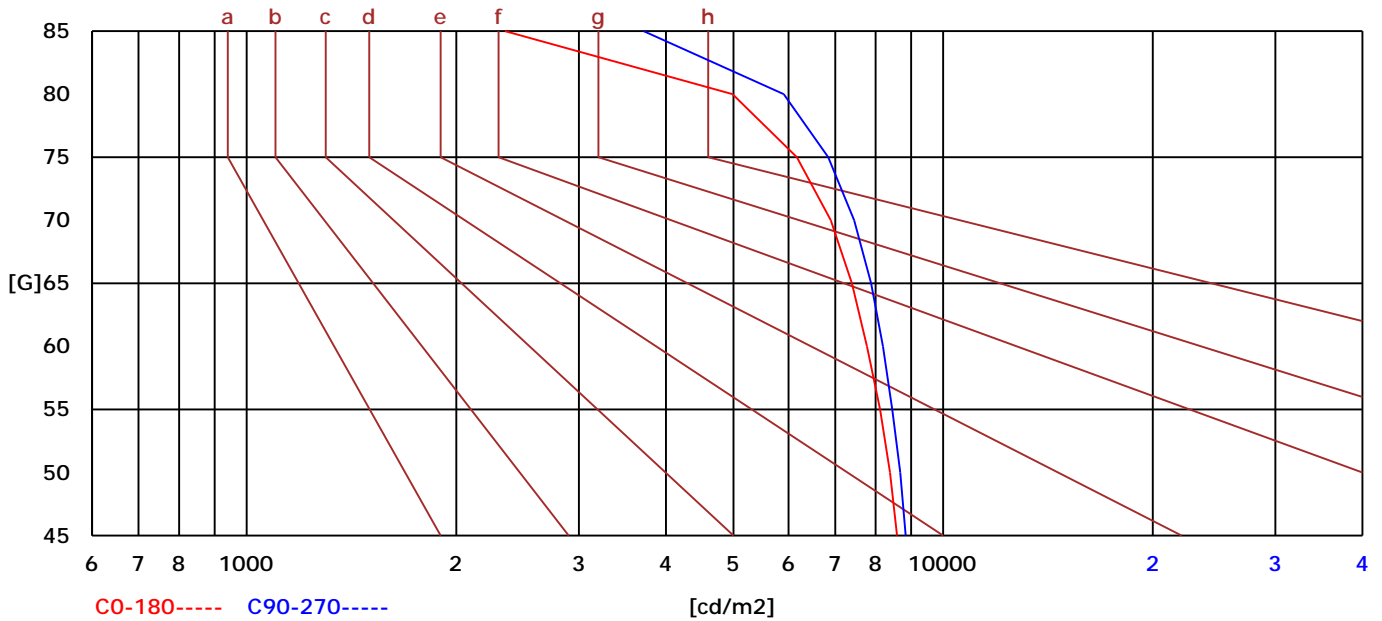
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)



BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8592	8392	8118	7774	7399	6895	6164	4986	2349
C90	8837	8683	8454	8195	7884	7454	6843	5905	3716
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



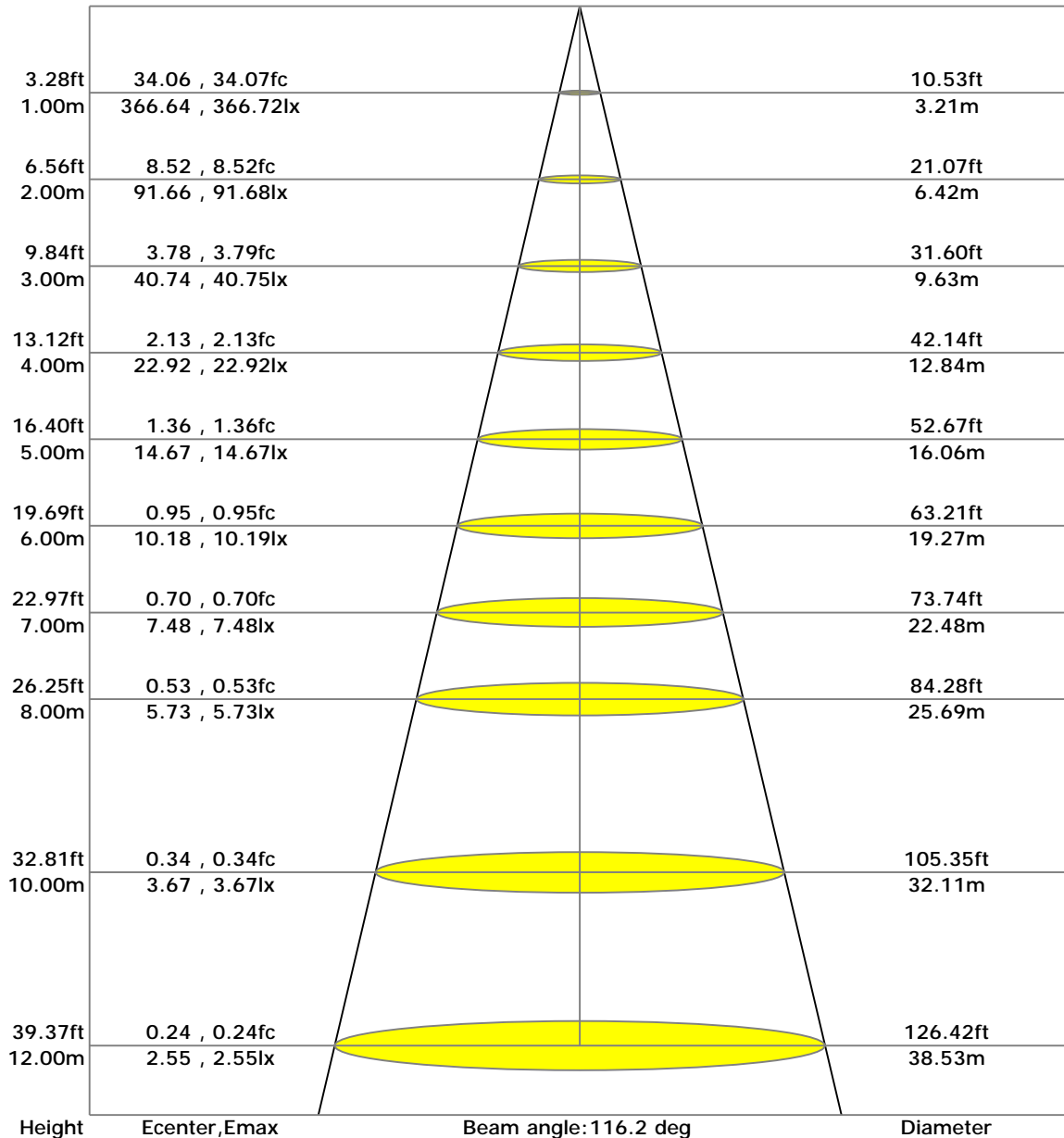
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.2 m
 Remarks:

Report No.:

Test Time: 2020/3/3 8:30:01

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.2 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	18.86	18.94	19.06	19.13	19.37	18.90	18.98	19.10	19.16	19.41
	3H	18.99	19.07	19.20	19.26	19.51	19.02	19.10	19.23	19.29	19.54
	4H	19.00	19.08	19.21	19.27	19.52	19.03	19.11	19.25	19.30	19.55
	6H	18.99	19.06	19.20	19.26	19.51	19.02	19.09	19.23	19.29	19.54
	8H	18.97	19.04	19.19	19.24	19.50	19.00	19.07	19.22	19.27	19.53
	12H	18.95	19.02	19.18	19.23	19.48	18.98	19.05	19.21	19.26	19.51
4H	2H	21.43	21.50	21.64	21.70	21.95	21.51	21.58	21.72	21.78	22.03
	3H	21.68	21.75	21.90	21.95	22.21	21.75	21.82	21.98	22.03	22.28
	4H	21.73	21.80	21.96	22.01	22.27	21.80	21.87	22.03	22.08	22.34
	6H	21.74	21.80	21.98	22.02	22.28	21.81	21.87	22.05	22.09	22.35
	8H	21.72	21.78	21.97	22.01	22.27	21.79	21.85	22.04	22.08	22.34
	12H	21.71	21.76	21.95	21.99	22.26	21.77	21.83	22.02	22.06	22.33
8H	4H	22.06	22.13	22.28	22.33	22.58	22.15	22.22	22.37	22.42	22.68
	6H	22.55	22.60	22.81	22.84	23.11	22.63	22.68	22.89	22.92	23.20
	8H	22.55	22.59	22.81	22.84	23.12	22.63	22.67	22.89	22.92	23.20
	12H	22.53	22.57	22.80	22.83	23.11	22.61	22.65	22.88	22.91	23.19
12H	4H	22.62	22.67	22.87	22.90	23.17	22.69	22.74	22.94	22.98	23.25
	6H	22.68	22.72	22.94	22.97	23.24	22.74	22.79	23.00	23.03	23.31

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.2 m
 Remarks:

Report No.:

Test Time: 2020/3/3 8:30:01

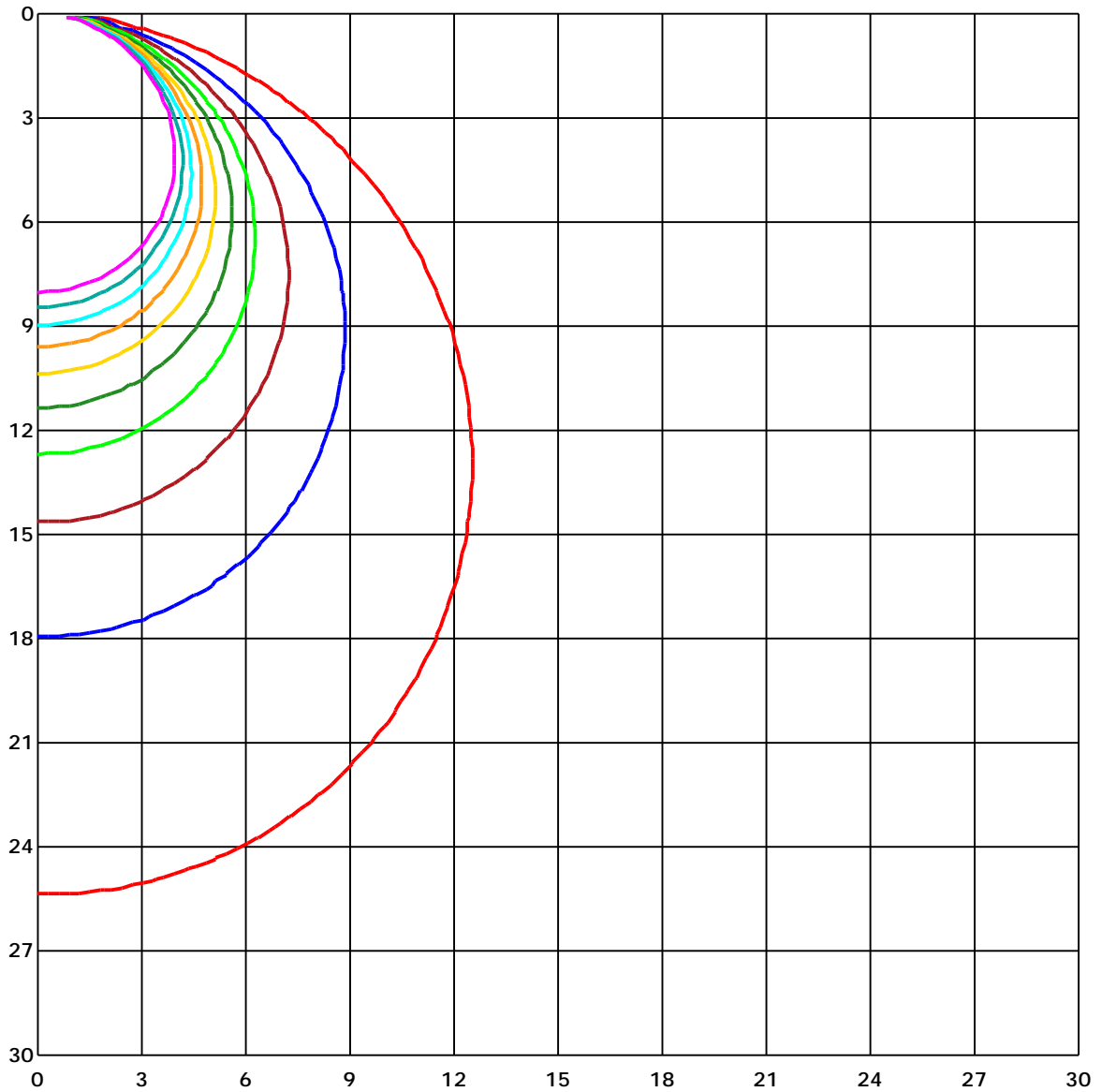
ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	362.71	0.00	0.00	0.00	0.00
5	362.78	8.67	8.67	0.81	0.81
10	360.19	25.80	34.46	2.41	3.21
15	354.34	42.20	76.66	3.94	7.15
20	345.69	57.33	133.98	5.35	12.50
25	333.66	70.66	204.64	6.59	19.09
30	318.54	81.65	286.30	7.62	26.71
35	300.26	89.94	376.23	8.39	35.09
40	279.59	95.22	471.46	8.88	43.98
45	256.50	97.42	568.88	9.09	53.06
50	230.78	96.29	665.16	8.98	62.05
55	202.36	91.61	756.77	8.54	70.59
60	172.54	83.77	840.54	7.81	78.40
65	142.07	73.36	913.90	6.84	85.25
70	111.33	60.95	974.85	5.69	90.93
75	80.39	46.79	1021.65	4.36	95.30
80	49.76	31.45	1053.09	2.93	98.23
85	20.78	15.88	1068.97	1.48	99.71
90	0.93	3.10	1072.07	0.29	100.00

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 5.698 | — 2.849 |
| — 5.129 | — 2.279 |
| — 4.559 | — 1.71 |
| — 3.989 | — 1.14 |
| — 3.419 | — 0.57 |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

Report No.:

Test Time: 2020/3/3 8:30:01

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	366.64	365.53	363.41	363.3	361.53	361.26	359.88	360.11	359.38	
G1	366.6	365.53	364.41	363.22	361.49	361.41	359.72	359.91	359.53	
G2	366.68	365.41	364.56	363.18	362.37	361.41	360.49	359.8	359.61	
G3	366.72	365.03	364.53	363.1	362.64	362.14	360.61	360.26	359.61	
G4	366.49	364.6	364.3	362.87	362.8	361.34	360.76	359.07	359.45	
G5	366.33	364.07	364.07	362.6	362.87	361.18	360.68	359.3	359.14	
G6	365.83	363.41	363.72	362.22	362.57	360.8	360.38	358.18	358.57	
G7	365.14	362.6	363.22	361.68	362.18	360.41	360.03	357.45	358.18	
G8	364.41	361.61	362.41	360.95	361.84	359.76	359.49	356.95	357.42	
G9	363.6	360.64	362.18	360.34	361.14	359.14	358.84	355.65	355.99	
G10	362.64	359.49	361.3	359.38	360.45	358.26	358.22	354.61	355.49	
G11	361.14	358.65	360.45	358.26	359.64	357.42	357.65	353.49	354.22	
G12	360.38	356.65	358.68	357.07	358.72	356.3	356.38	352.15	353.15	
G13	358.91	355.69	357.3	355.07	358.41	354.96	355.22	350.77	351.84	
G14	357.34	353.34	355.95	353.65	357.3	353.76	353.99	349.38	350.34	
G15	355.88	351.53	354.46	352.69	355.22	352.3	352.61	347.57	349.23	
G16	354.72	349.69	352.84	351.03	353.8	350.77	351.19	345.96	347.15	
G17	352.34	347.69	351.57	349.3	352.46	349.04	350.38	344.0	345.31	
G18	350.3	345.65	349.46	347.23	350.84	347.11	348.04	342.0	343.46	
G19	349.0	343.35	347.42	345.15	349.0	345.15	346.65	339.81	342.08	
G20	346.08	341.08	345.5	343.04	347.27	343.08	344.27	337.58	339.31	
G21	344.38	338.58	343.31	340.66	345.34	340.85	342.35	335.16	337.08	
G22	341.27	335.93	340.96	338.2	343.23	338.46	340.39	332.51	334.7	
G23	338.73	333.08	338.66	335.66	340.66	336.0	338.08	329.89	332.43	
G24	336.2	330.28	335.97	332.97	337.96	333.39	335.54	326.97	329.43	
G25	333.31	327.39	333.27	330.7	336.2	330.58	332.47	323.97	326.82	
G26	330.39	324.05	330.24	327.12	333.51	327.78	330.35	320.86	323.97	
G27	326.82	320.67	327.28	323.97	330.62	325.24	326.86	317.63	320.94	
G28	323.32	316.67	323.93	320.82	327.59	321.63	323.9	314.4	317.78	
G29	320.74	313.75	320.86	317.51	324.63	318.51	321.36	310.94	313.94	
G30	317.25	310.06	317.55	314.09	321.4	315.28	317.63	307.29	311.06	
G31	313.67	306.17	314.36	310.6	318.05	311.9	314.82	303.75	306.98	
G32	309.94	302.29	310.36	306.83	314.55	308.25	311.17	299.83	303.79	
G33	306.02	298.22	306.56	303.14	311.06	304.52	307.64	296.03	299.91	
G34	301.68	294.26	302.72	298.91	307.33	300.79	304.18	292.22	296.06	
G35	297.95	290.38	298.83	295.3	304.14	296.95	300.68	288.15	292.11	
G36	293.87	285.53	295.45	291.18	299.76	292.99	296.26	283.96	288.03	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.2 m

Remarks:

Report No.:

Test Time: 2020/3/3 8:30:01

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	289.61	281.07	290.76	286.95	295.76	288.76	292.26	279.57	283.88	
G38	285.15	276.65	286.49	282.73	291.68	284.15	288.18	274.85	279.5	
G39	281.3	272.12	282.19	278.11	287.61	280.27	284.07	271.04	275.61	
G40	276.23	267.5	277.81	273.77	283.38	275.85	279.77	266.43	271.31	
G41	272.31	262.89	273.35	269.27	279.19	271.39	275.58	261.81	266.39	
G42	266.93	258.05	268.77	264.54	274.65	266.74	271.08	257.05	261.66	
G43	262.81	253.13	264.28	259.82	270.27	262.08	266.66	252.24	257.13	
G44	257.43	248.13	259.39	254.86	265.66	257.24	261.97	247.28	252.74	
G45	252.47	243.02	254.55	249.94	260.97	252.44	257.2	242.29	247.4	
G46	247.52	237.87	249.71	244.82	255.74	247.28	252.4	237.29	242.75	
G47	242.29	232.64	244.17	240.17	251.28	242.29	247.48	231.95	237.52	
G48	237.14	227.03	238.9	234.68	246.21	236.91	242.44	226.41	232.37	
G49	231.79	221.11	234.14	228.83	241.06	231.52	236.87	220.95	227.1	
G50	226.18	215.76	228.53	223.26	235.68	226.22	231.52	215.73	221.65	
G51	220.53	209.69	222.99	217.72	229.83	220.57	226.49	209.69	216.11	
G52	214.76	204.19	217.22	211.96	224.68	214.92	220.8	203.89	210.38	
G53	209.08	198.24	211.57	206.12	219.11	209.11	215.34	198.04	204.89	
G54	202.69	192.12	205.73	200.12	213.27	203.23	209.57	192.12	198.93	
G55	197.08	186.24	199.81	193.97	207.61	197.43	203.62	186.32	193.08	
G56	190.97	180.09	193.78	188.36	201.96	191.59	197.74	180.44	186.97	
G57	185.09	174.02	187.78	182.32	195.85	185.67	191.97	174.4	181.32	
G58	178.86	168.1	181.74	176.29	189.86	179.75	186.01	168.37	175.32	
G59	172.86	161.64	176.13	170.14	183.94	173.36	180.01	162.22	169.21	
G60	166.68	155.49	169.56	163.91	177.94	167.29	174.02	156.07	163.22	
G61	160.76	149.38	163.45	157.76	171.98	161.49	167.98	149.99	157.07	
G62	154.18	143.57	157.45	151.45	166.14	155.45	162.1	143.96	151.22	
G63	148.11	137.31	151.18	145.5	159.76	149.42	155.87	137.88	144.96	
G64	142.04	131.16	145.03	139.38	153.95	143.38	149.8	131.81	139.04	
G65	135.96	125.08	138.96	133.27	147.76	137.35	143.65	125.58	133.04	
G66	129.77	118.97	132.81	127.27	141.69	131.31	137.54	119.59	127.04	
G67	123.82	112.9	126.7	120.89	135.73	125.16	131.46	113.4	121.01	
G68	117.7	106.71	120.2	114.67	129.47	119.01	125.35	107.29	115.17	
G69	111.48	100.48	114.21	108.29	123.51	112.71	118.97	100.98	109.02	
G70	105.29	94.33	107.9	101.98	117.28	106.71	112.98	94.83	102.94	
G71	98.91	88.41	101.64	95.91	110.86	100.56	106.67	88.95	96.72	
G72	92.95	81.99	95.41	89.57	104.83	94.25	100.48	82.68	90.8	
G73	86.91	75.96	89.33	83.3	98.79	88.22	94.25	76.5	84.95	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks:

Report No.:

Test Time: 2020/3/3 8:30:01

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	80.69	69.65	83.03	77.03	92.45	81.84	88.14	70.31	78.84	
G75	74.3	63.81	76.73	70.84	86.18	75.8	81.8	64.5	72.5	
G76	67.89	57.78	70.19	64.69	80.03	69.65	75.42	58.39	66.23	
G77	61.81	52.01	64.08	58.77	73.77	63.73	69.12	52.62	60.31	
G78	55.51	46.17	57.62	52.66	67.39	57.66	62.62	46.63	54.12	
G79	49.55	40.36	51.32	46.86	61.2	51.89	56.35	40.52	48.32	
G80	43.44	34.63	44.82	41.02	54.89	46.32	49.86	34.56	42.25	
G81	37.63	29.1	38.52	35.29	49.05	40.44	43.67	28.87	36.56	
G82	32.02	23.49	32.29	29.52	43.13	35.1	37.29	23.22	30.98	
G83	26.45	18.11	26.22	23.64	37.48	29.48	31.41	17.68	25.56	
G84	21.18	13.11	20.26	18.11	31.87	23.91	25.33	12.49	20.41	
G85	16.03	8.19	14.49	12.95	26.37	18.6	19.49	7.92	15.38	
G86	11.07	4.07	8.84	8.34	21.07	13.92	13.68	4.19	10.53	
G87	5.96	1.04	3.27	4.92	15.61	9.69	7.73	1.65	5.46	
G88	1.61	0.0	0.0	2.19	9.84	6.27	1.23	0.0	1.11	
G89	0.0	0.0	0.0	0.12	3.96	3.38	0.0	0.0	0.0	
G90	0.0	0.0	0.0	0.0	0.0	0.91	0.0	0.0	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/3 8:30:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.2 m
Remarks: