

Report No.:

Test Time: 2023/3/17 8:54:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 12W Panel 4000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

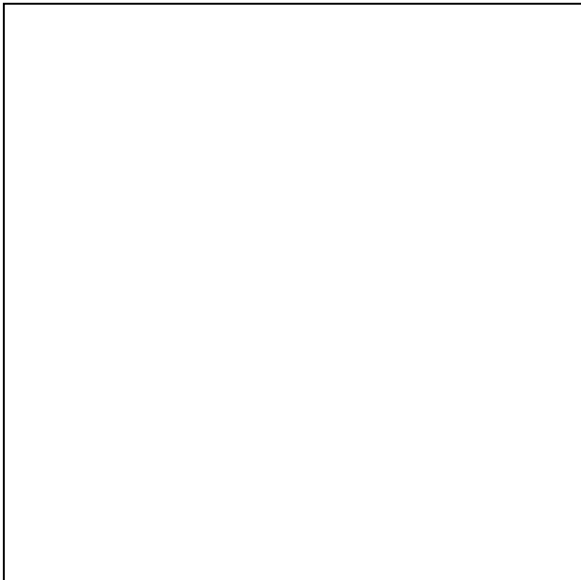
Voltage(V): 229.70 V
Current(A): 0.0910 A
Power(W): 11.06 W
Power Factor: 0.5230
Lamp Luminous Flux: 1071.19

Photometric Results

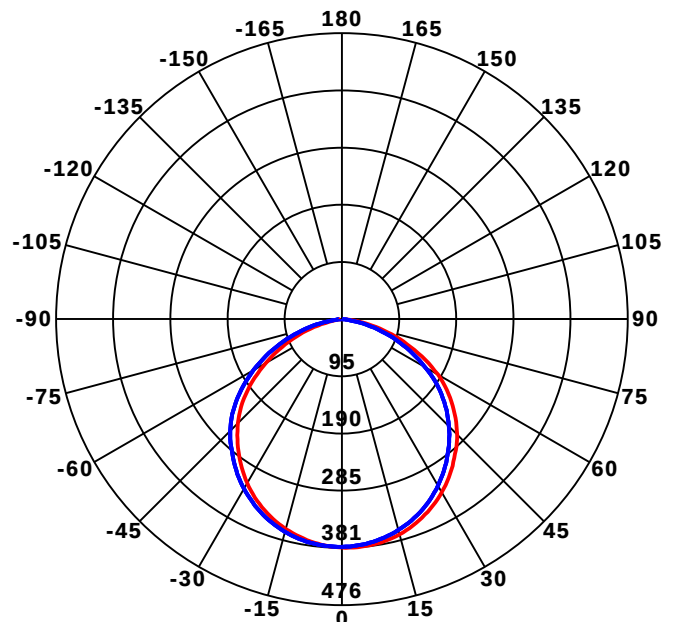
CIE Class: Direct
Luminaire Luminous Flux: 1071.186 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.85 lm/W
Beam Angle(50%) C0-180,C90-270: 113.0,113.0
Field Angle(10%) C0-180,C90-270: 155.7,156.5
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 380.59 cd
Max.Intensity Angle: C=0 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 380.18 cd
Effective Luminous Flux: 1052.27 lm
ERP(ϕ use)(120deg): 862.71 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



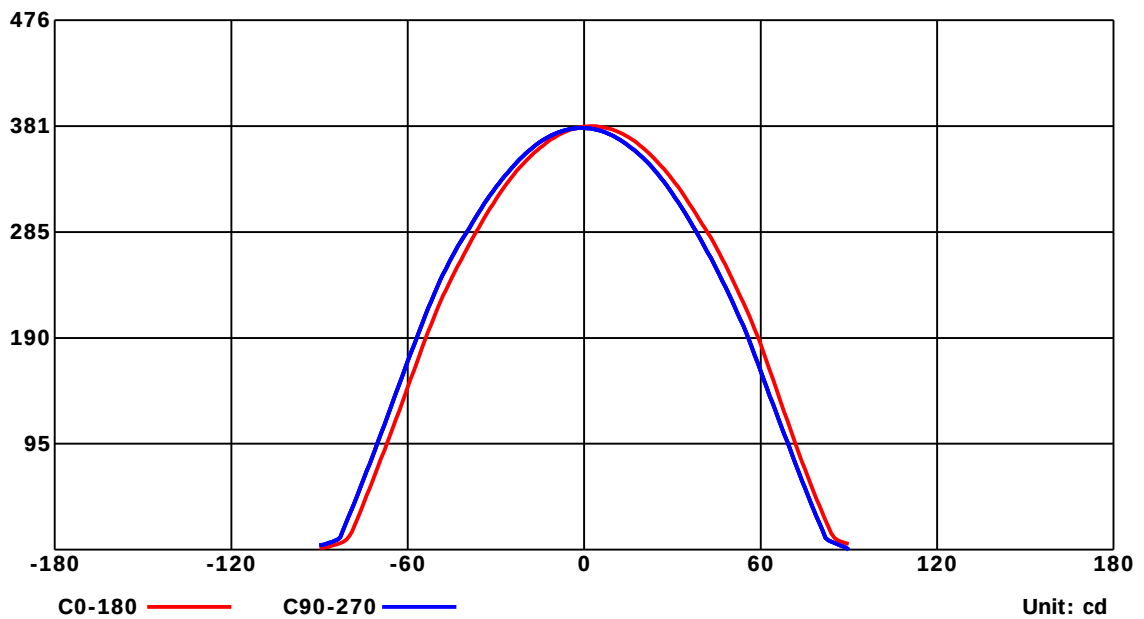
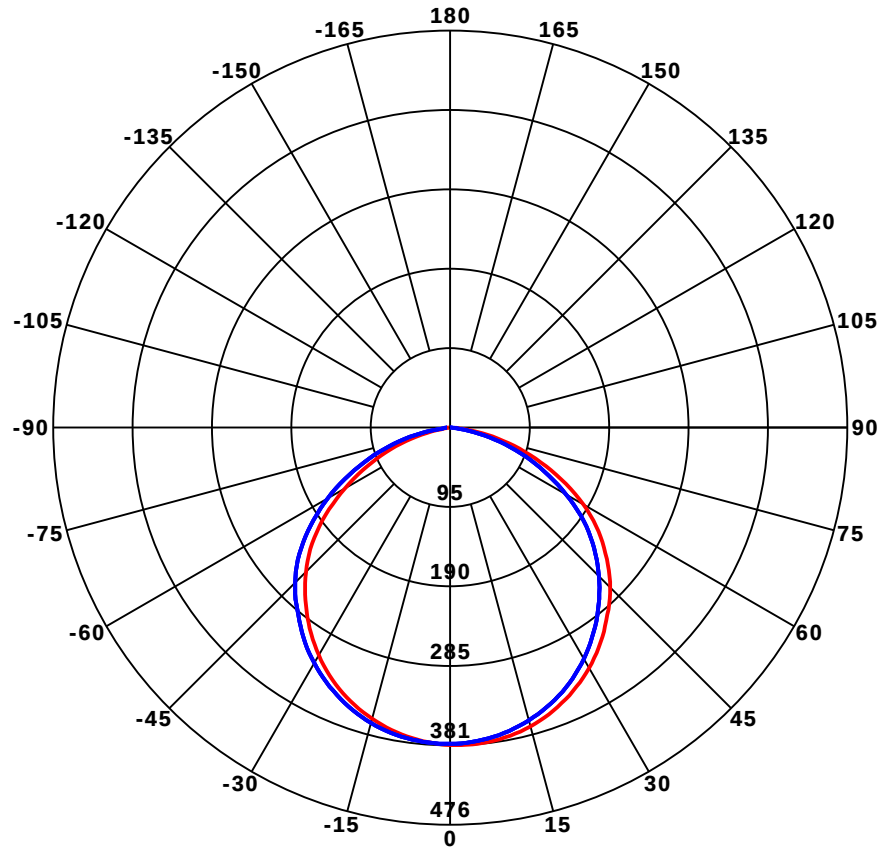
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

Luminous Intensity Distribution Curve



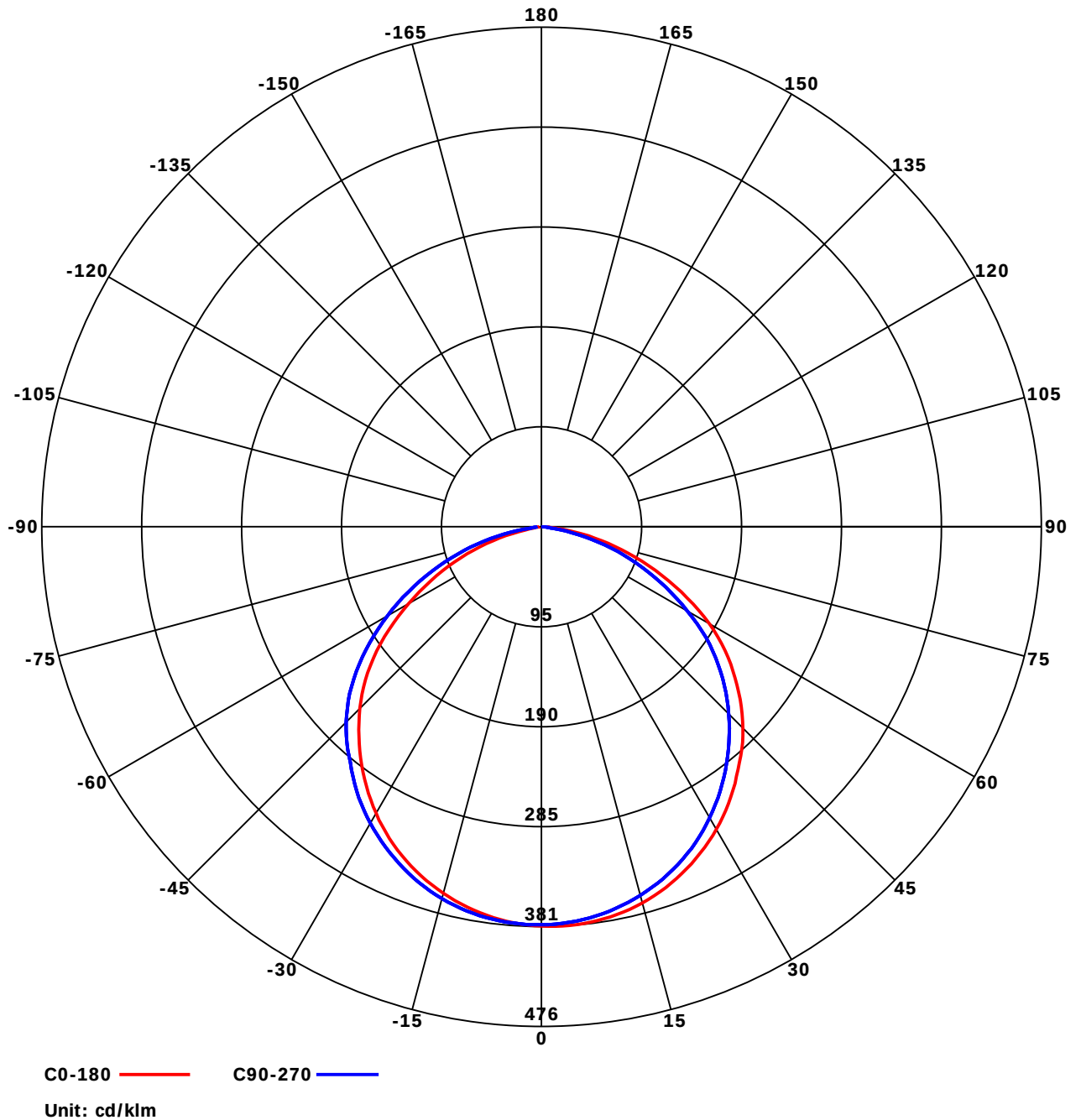
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

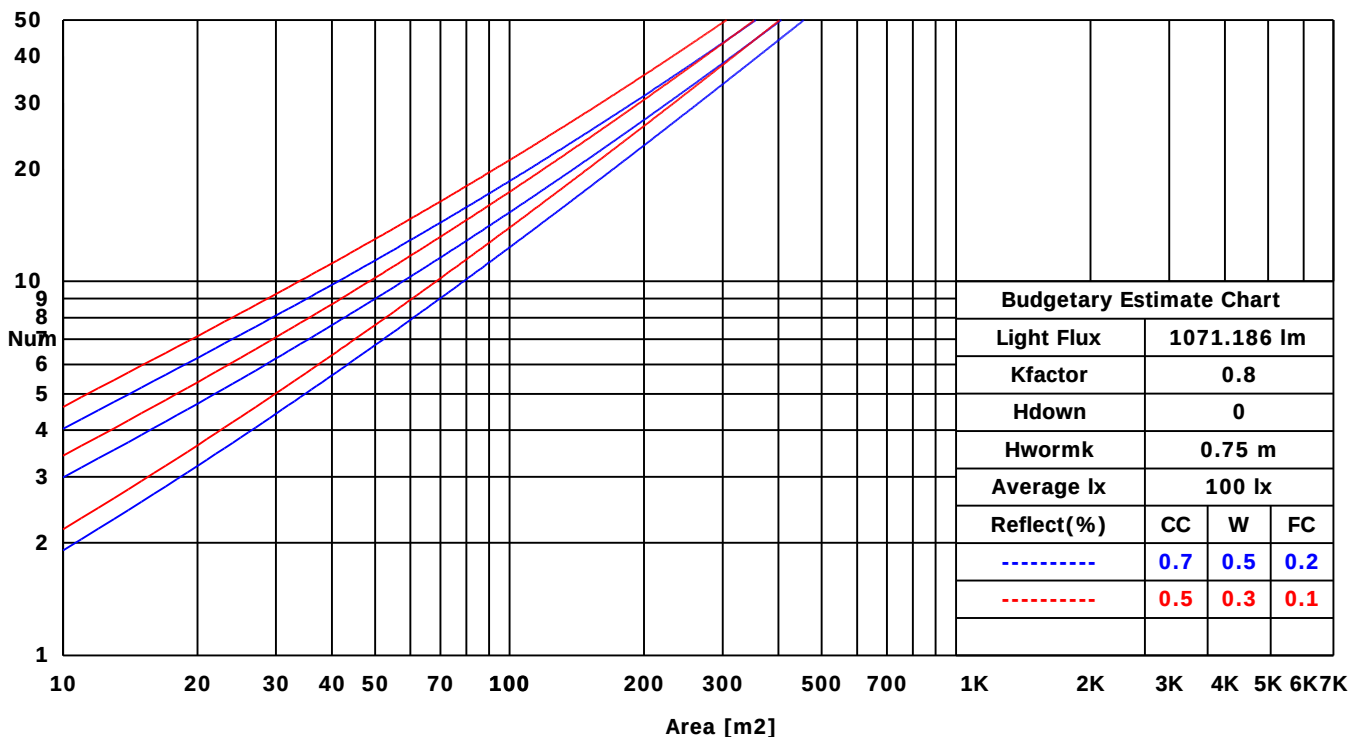
Report No.:

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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	1.06	1.04	1.06	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.96	0.94	0.92	0.95	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.64
4	0.77	0.74	0.73	0.76	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.69	0.67	0.65	0.69	0.66	0.64	0.68	0.64	0.61	0.67	0.62	0.58	0.65	0.59	0.55	0.51
6	0.63	0.60	0.59	0.63	0.60	0.58	0.63	0.58	0.55	0.62	0.56	0.53	0.60	0.54	0.50	0.46
7	0.57	0.55	0.54	0.58	0.55	0.53	0.58	0.53	0.50	0.57	0.52	0.48	0.56	0.50	0.45	0.42
8	0.53	0.51	0.49	0.53	0.50	0.48	0.53	0.49	0.46	0.53	0.48	0.44	0.52	0.46	0.42	0.39
9	0.49	0.47	0.46	0.49	0.46	0.45	0.50	0.46	0.43	0.50	0.44	0.41	0.49	0.43	0.39	0.36
10	0.46	0.44	0.42	0.46	0.43	0.42	0.46	0.42	0.40	0.47	0.41	0.38	0.46	0.40	0.36	0.33

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



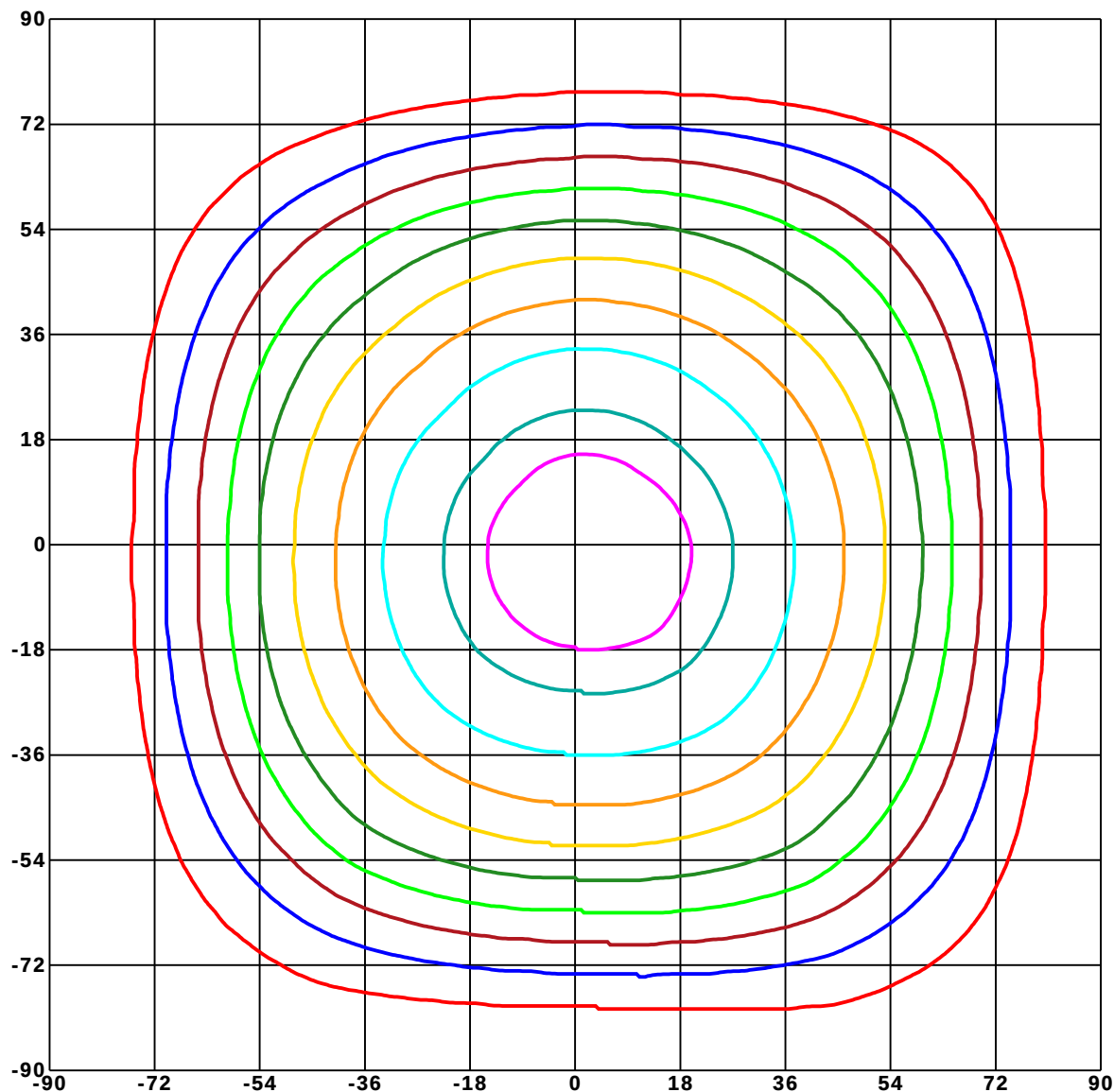
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 380.586 cd

— 361.557(95%Imax)
— 342.528(90%Imax)
— 304.469(80%Imax)
— 266.41(70%Imax)
— 228.352(60%Imax)

— 190.293(50%Imax)
— 152.235(40%Imax)
— 114.176(30%Imax)
— 76.117(20%Imax)
— 38.059(10%Imax)

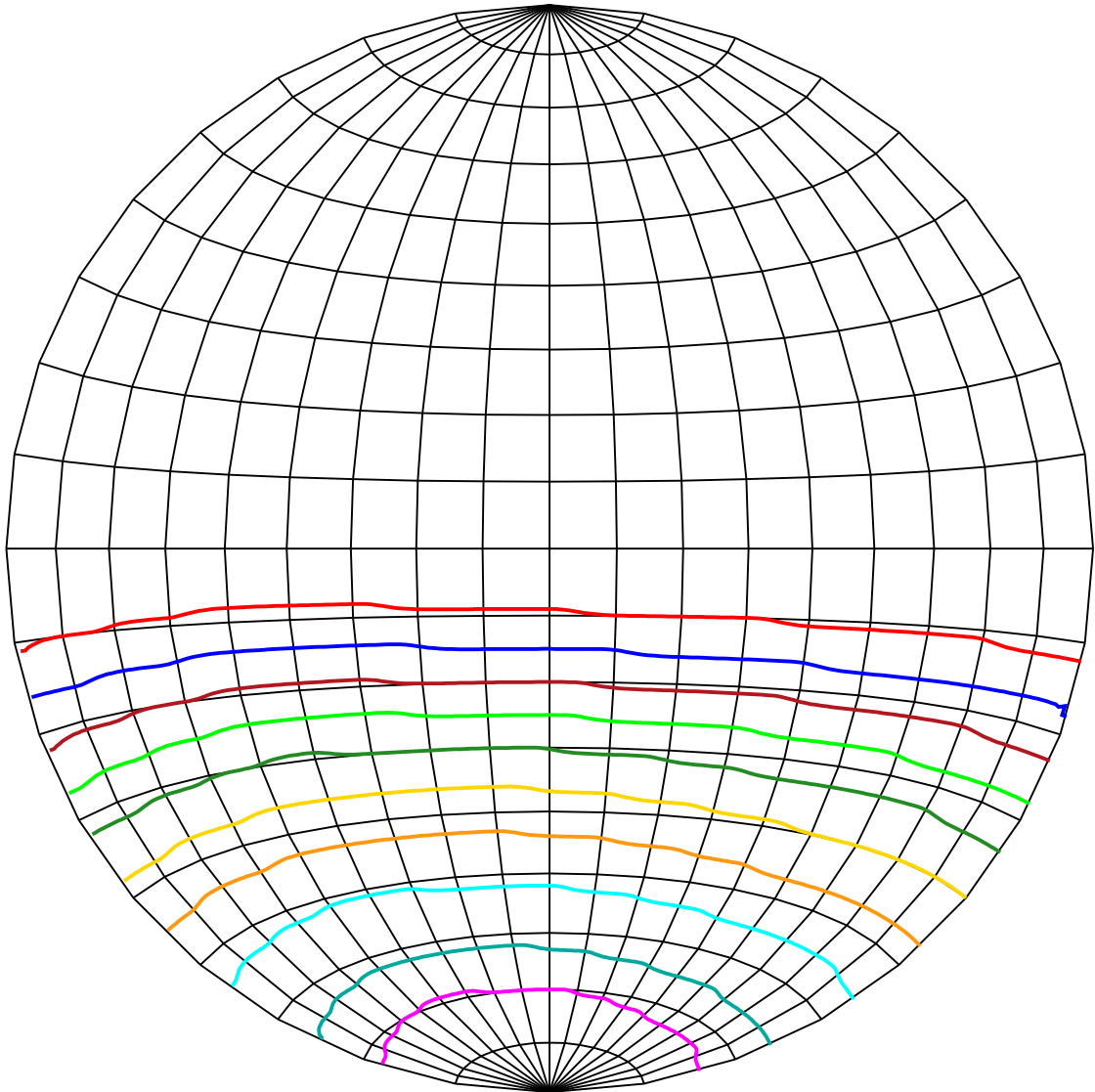
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 380.586 cd

361.557(95%I_{max})

190.293(50%I_{max})

342.528(90%I_{max})

152.235(40%I_{max})

304.469(80%I_{max})

114.176(30%I_{max})

266.41(70%I_{max})

76.117(20%I_{max})

228.352(60%I_{max})

38.059(10%I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

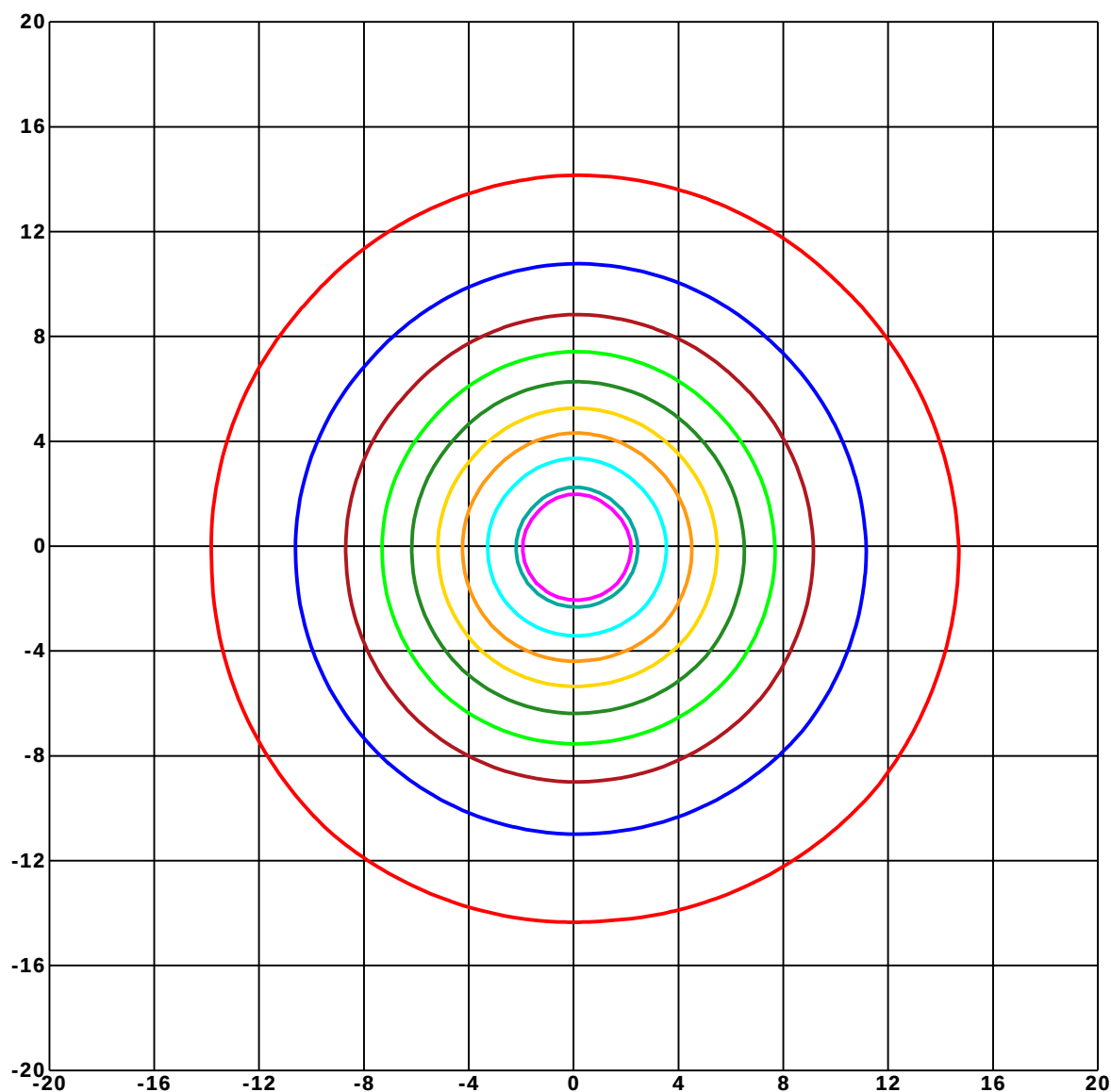
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:10.0(m)/32.81(ft)

3.498(1%Emax)

3.422(1%Emax)

3.042(1%Emax)

2.662(1%Emax)

2.281(1%Emax)

1.901(0%Emax)

1.521(0%Emax)

1.141(0%Emax)

0.76(0%Emax)

0.38(0%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

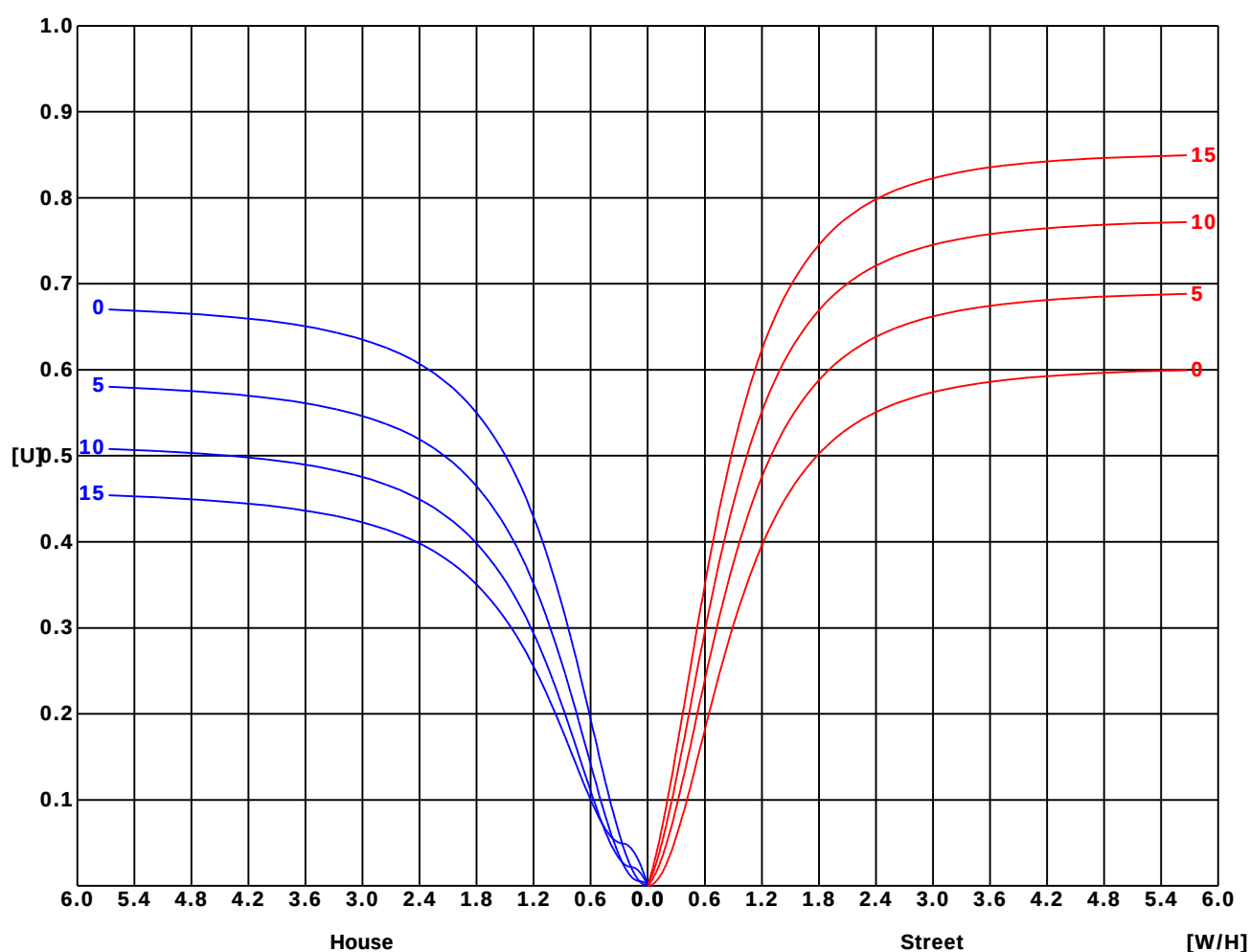
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/3/17 8:54:15

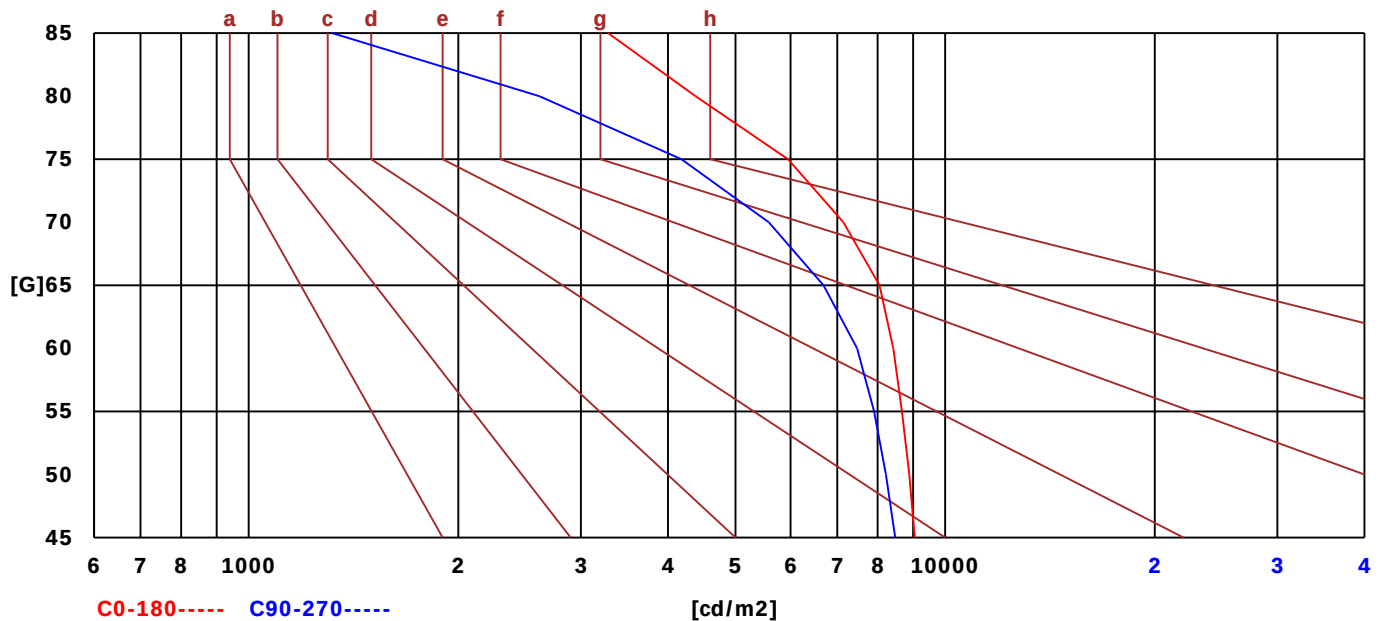
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9042	8886	8672	8422	8052	7144	5949	4383	3281
C90	8476	8226	7904	7473	6687	5585	4183	2614	1319
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



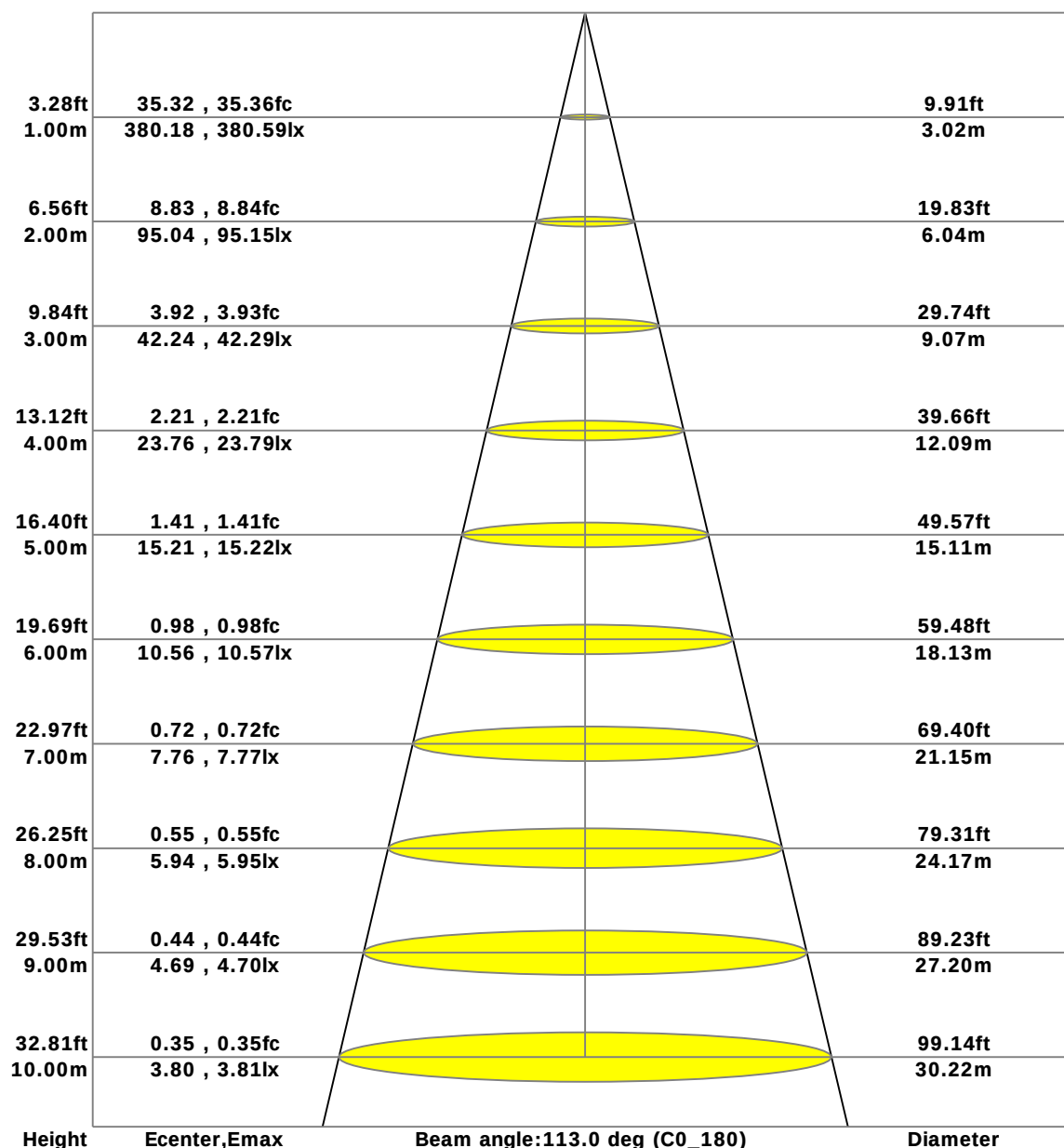
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

Report No.:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

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UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	19.38	19.46	19.58	19.64	19.89	19.08	19.16	19.29	19.35	19.59
3H	19.48	19.55	19.68	19.74	19.99	19.22	19.29	19.42	19.48	19.73
4H	19.48	19.55	19.69	19.74	19.99	19.22	19.30	19.44	19.49	19.74
6H	19.45	19.52	19.67	19.72	19.98	19.20	19.27	19.42	19.48	19.73
8H	19.44	19.50	19.66	19.71	19.96	19.19	19.26	19.41	19.46	19.71
12H	19.42	19.49	19.64	19.69	19.95	19.17	19.24	19.39	19.45	19.70
4H 2H	21.78	21.85	21.99	22.05	22.30	21.21	21.28	21.42	21.48	21.73
3H	21.98	22.05	22.21	22.26	22.51	21.46	21.52	21.68	21.73	21.98
4H	22.01	22.08	22.24	22.29	22.55	21.50	21.57	21.73	21.78	22.04
6H	22.00	22.06	22.24	22.28	22.54	21.50	21.56	21.74	21.78	22.05
8H	21.98	22.04	22.23	22.26	22.53	21.49	21.54	21.73	21.77	22.04
12H	21.96	22.01	22.21	22.25	22.52	21.47	21.52	21.72	21.75	22.02
8H 4H	22.25	22.32	22.47	22.52	22.77	21.48	21.54	21.69	21.75	22.00
6H	22.62	22.67	22.88	22.91	23.18	21.89	21.94	22.15	22.18	22.45
8H	22.61	22.66	22.87	22.90	23.18	21.89	21.94	22.15	22.18	22.46
12H	22.59	22.63	22.86	22.89	23.17	21.88	21.92	22.15	22.17	22.45
12H 4H	22.66	22.71	22.91	22.94	23.21	21.88	21.93	22.12	22.16	22.43
6H	22.69	22.74	22.95	22.98	23.26	21.92	21.97	22.18	22.21	22.49

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

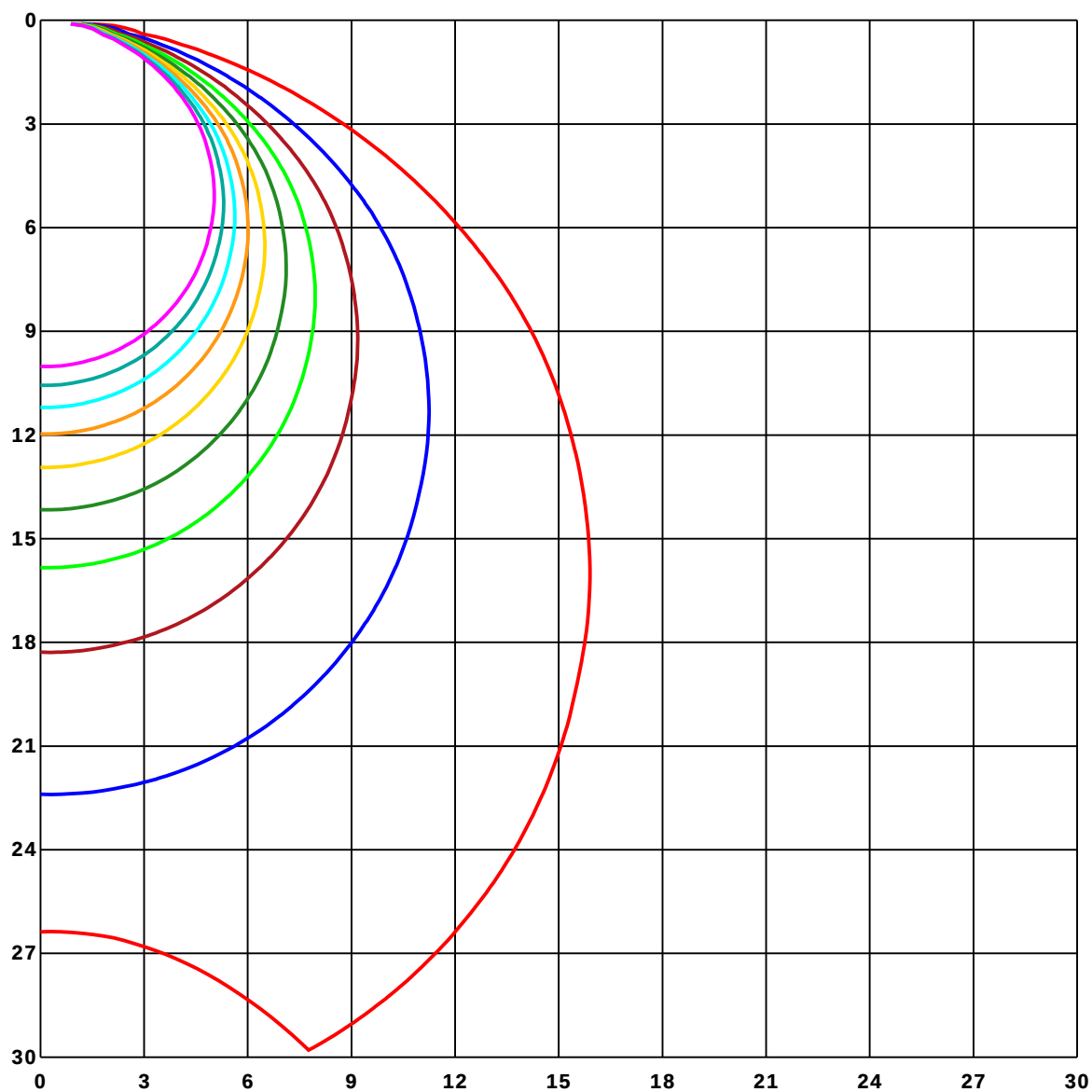
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

3.79	1.895
3.411	1.516
3.032	1.137
2.653	0.758
2.274	0.379

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	380.18	378.47	378.88	379.16	380.18	378.47	378.88	379.16	380.18	
G1	380.42	378.47	378.71	378.67	379.81	378.39	378.88	379.45	380.42	
G2	380.55	378.31	378.47	378.1	379.32	378.14	378.92	379.65	380.55	
G3	380.55	377.86	378.02	377.41	378.71	377.82	378.59	379.69	380.55	
G4	380.59	377.49	377.49	376.6	377.94	377.33	378.23	379.65	380.59	
G5	380.14	377.13	376.84	375.58	377.09	376.72	377.98	379.49	380.14	
G6	379.73	376.39	376.03	374.68	375.99	376.03	377.21	379.12	379.73	
G7	379.24	375.54	375.09	373.26	374.85	375.01	376.52	378.71	379.24	
G8	378.63	374.68	373.99	371.92	373.59	374.15	375.7	378.18	378.63	
G9	377.9	373.63	372.89	370.41	372.2	373.06	374.93	377.49	377.9	
G10	377.04	372.4	371.55	368.82	370.49	371.83	373.71	376.68	377.04	
G11	376.03	371.22	370.08	367.11	368.99	370.53	372.49	375.7	376.03	
G12	374.89	369.72	368.5	365.28	367.24	369.03	371.18	374.64	374.89	
G13	373.67	368.13	366.87	363.29	365.32	367.44	369.72	373.46	373.67	
G14	372.24	366.5	365.08	361.21	363.16	365.65	368.13	372.0	372.24	
G15	370.74	364.67	363.16	359.01	361.21	363.98	366.42	370.7	370.74	
G16	369.07	362.76	361.13	356.77	358.81	361.86	364.55	368.99	369.07	
G17	367.24	360.93	359.01	354.41	356.65	359.91	362.59	367.48	367.24	
G18	365.28	358.61	356.77	351.85	354.21	357.87	360.32	365.73	365.28	
G19	363.16	356.37	354.54	349.28	351.65	355.84	358.08	363.94	363.16	
G20	361.01	354.09	352.01	346.52	348.96	353.72	355.8	362.07	361.01	
G21	358.65	351.56	349.41	343.59	346.15	351.56	353.23	360.23	358.65	
G22	356.2	348.92	346.64	340.57	343.18	349.12	350.59	358.24	356.2	
G23	353.56	346.31	343.83	337.44	340.21	346.35	347.86	356.0	353.56	
G24	351.08	343.26	340.61	334.18	336.95	343.42	345.01	353.44	351.08	
G25	348.06	340.25	337.68	330.76	333.61	340.37	342.08	350.87	348.06	
G26	345.21	336.99	334.39	327.14	330.15	337.24	338.99	348.06	345.21	
G27	342.36	333.74	330.93	323.36	326.49	334.1	335.85	345.21	342.36	
G28	339.23	330.28	327.39	319.53	322.7	330.93	332.6	342.28	339.23	
G29	336.01	326.73	323.76	315.66	319.04	327.43	329.22	339.19	336.01	
G30	332.68	322.95	319.98	311.55	314.89	323.93	325.84	336.01	332.68	
G31	329.18	319.08	316.03	307.36	310.82	320.34	322.3	332.76	329.18	
G32	325.64	315.17	312.0	303.09	306.59	316.6	318.59	329.42	325.64	
G33	321.93	311.06	307.97	298.69	302.47	312.85	314.77	326.04	321.93	
G34	318.02	307.11	303.78	294.29	297.92	308.95	310.9	322.26	318.02	
G35	313.99	302.88	299.46	289.69	293.56	304.96	306.79	318.59	313.99	
G36	309.96	298.57	295.11	285.05	288.92	300.89	302.68	314.81	309.96	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	305.98	294.13	290.67	280.33	284.28	296.49	298.16	310.82	305.98	
G38	301.38	289.57	286.03	275.45	279.56	292.01	293.85	306.63	301.38	
G39	297.18	284.97	281.39	270.56	274.75	287.37	289.04	302.35	297.18	
G40	292.95	280.13	276.71	265.6	269.79	282.73	285.05	297.87	292.95	
G41	289.0	275.53	271.99	260.55	264.94	277.93	281.02	293.23	289.0	
G42	284.85	270.68	266.98	255.62	259.82	272.96	276.95	288.63	284.85	
G43	280.45	265.88	262.26	250.33	254.89	267.96	272.52	283.83	280.45	
G44	275.94	260.79	257.09	245.12	249.68	262.95	267.71	279.07	275.94	
G45	271.09	255.75	252.0	239.75	244.43	257.7	262.99	274.06	271.09	
G46	266.13	250.37	246.75	234.25	239.1	252.53	257.94	269.1	266.13	
G47	260.96	245.12	241.42	228.72	233.6	247.24	252.73	263.89	260.96	
G48	255.71	239.75	236.04	223.26	228.07	241.78	247.44	258.8	255.71	
G49	250.37	234.17	230.55	217.52	222.12	236.37	241.91	253.59	250.37	
G50	244.92	228.47	224.97	211.5	216.1	230.92	235.8	248.34	244.92	
G51	239.3	222.73	219.36	205.64	209.55	225.34	229.78	242.84	239.3	
G52	233.85	216.83	213.29	199.66	202.87	219.6	223.63	237.39	233.85	
G53	228.23	211.09	207.55	193.67	196.28	213.98	217.28	231.73	228.23	
G54	222.49	205.15	201.61	187.53	189.32	208.33	210.52	226.32	222.49	
G55	216.79	198.96	195.46	181.34	182.32	202.75	203.85	220.62	216.79	
G56	210.93	192.9	188.83	175.19	175.03	196.85	197.09	215.04	210.93	
G57	204.46	186.75	181.91	168.92	167.78	190.94	190.13	209.14	204.46	
G58	197.99	180.69	174.58	162.57	160.46	185.04	183.21	203.6	197.99	
G59	191.35	174.62	167.5	156.02	153.25	178.81	176.29	197.7	191.35	
G60	184.31	168.43	160.29	149.47	146.05	172.3	169.41	191.8	184.31	
G61	176.94	162.29	153.21	142.71	138.76	165.42	162.25	185.53	176.94	
G62	169.45	156.06	146.09	135.79	131.48	158.22	155.12	178.9	169.45	
G63	161.92	149.71	138.84	128.42	124.19	150.69	148.08	172.18	161.92	
G64	154.15	143.08	131.8	120.77	117.11	142.99	140.67	165.42	154.15	
G65	146.78	136.12	124.8	113.04	110.02	135.18	133.63	158.1	146.78	
G66	139.01	128.46	117.8	105.51	103.02	127.53	126.22	150.85	139.01	
G67	131.35	120.77	110.76	98.14	96.1	119.47	119.02	142.87	131.35	
G68	123.78	113.12	103.88	90.89	89.06	111.77	111.86	134.85	123.78	
G69	116.17	105.42	97.08	83.44	82.26	104.24	104.69	127.12	116.17	
G70	108.72	97.73	90.04	76.4	75.38	96.88	97.77	118.94	108.72	
G71	101.27	90.28	83.0	69.65	68.55	89.47	90.77	111.25	101.27	
G72	93.91	82.71	76.12	62.56	61.75	82.39	83.81	103.47	93.91	
G73	86.74	75.75	69.36	56.17	54.95	75.47	76.97	96.06	86.74	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

Test Time: 2023/3/17 8:54:15

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/17 8:54:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks: