

Report No.:

Test Time: 2021/3/12 11:13:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: GW-A820/2
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

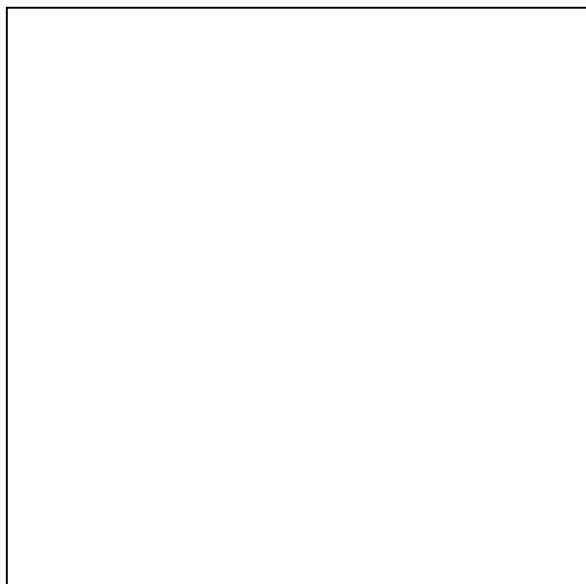
Voltage(V): 219.83 V
Current(A): 0.1090 A
Power(W): 12.74 W
Power Factor: 0.5280
Lamp Luminous Flux: 763.04

Photometric Results

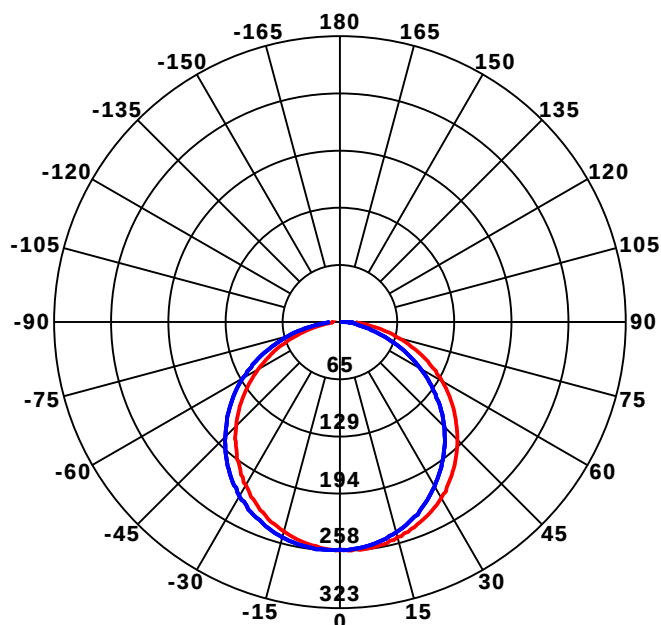
CIE Class: Direct
Luminaire Luminous Flux: 763.0399
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 59.87 lm/W
Beam Angle(50%) C0-180,C90-270: 115.7,113.9
Field Angle(10%) C0-180,C90-270: 165.4,163.0

Max. Intensity: 258.26 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 257.90 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 115.7 deg,113.9 deg

C0-180 — C90-270 —

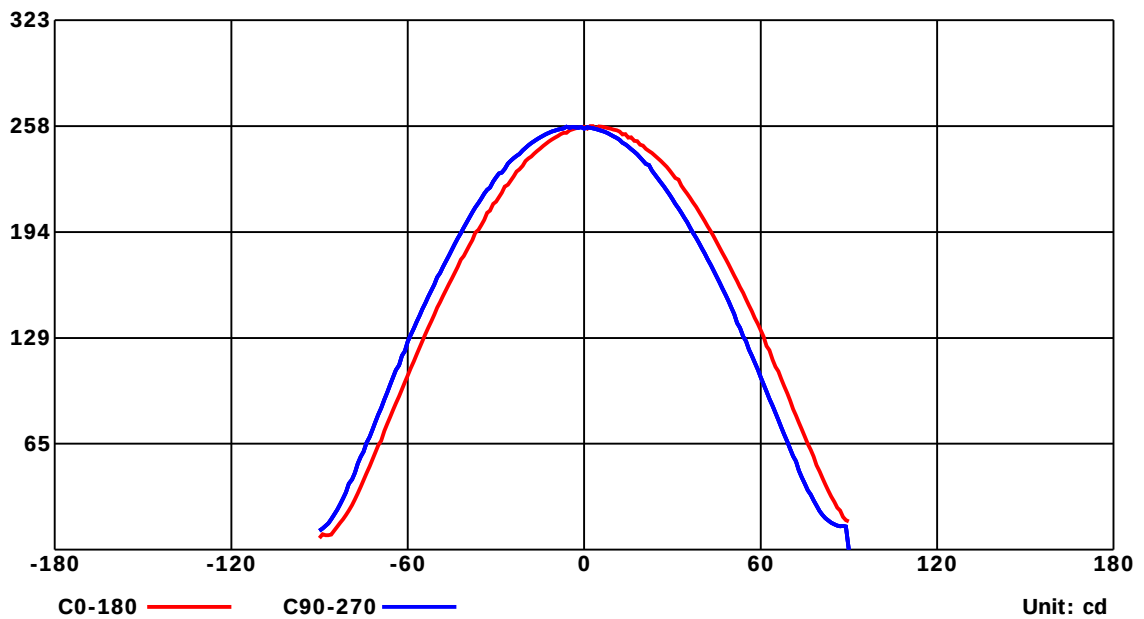
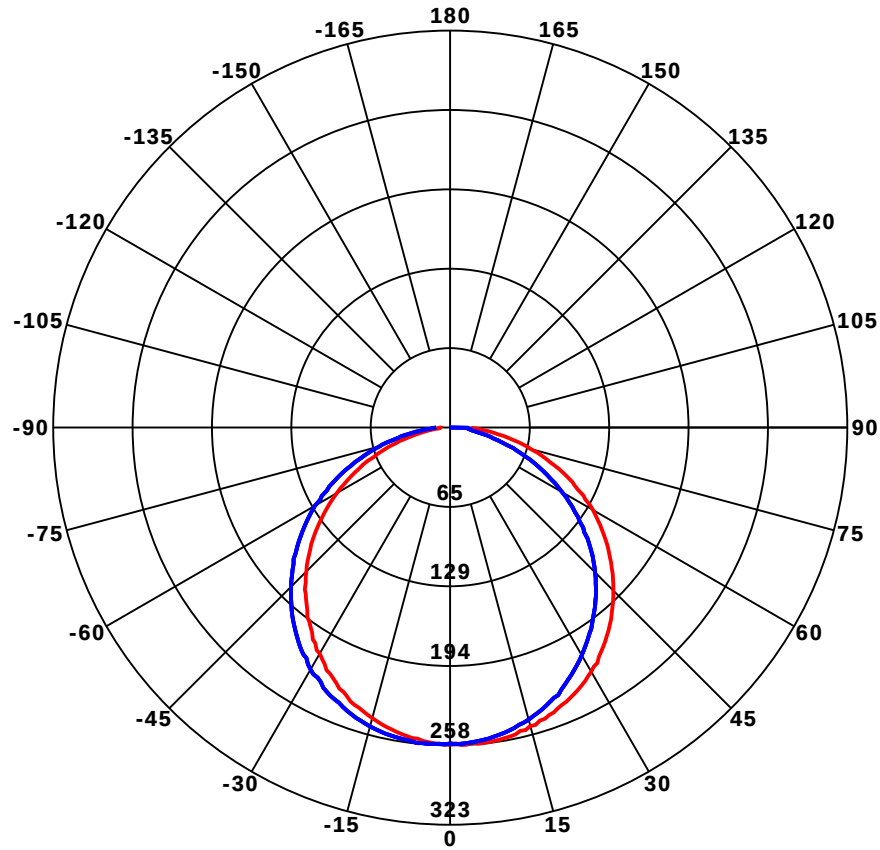
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.029 m
Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

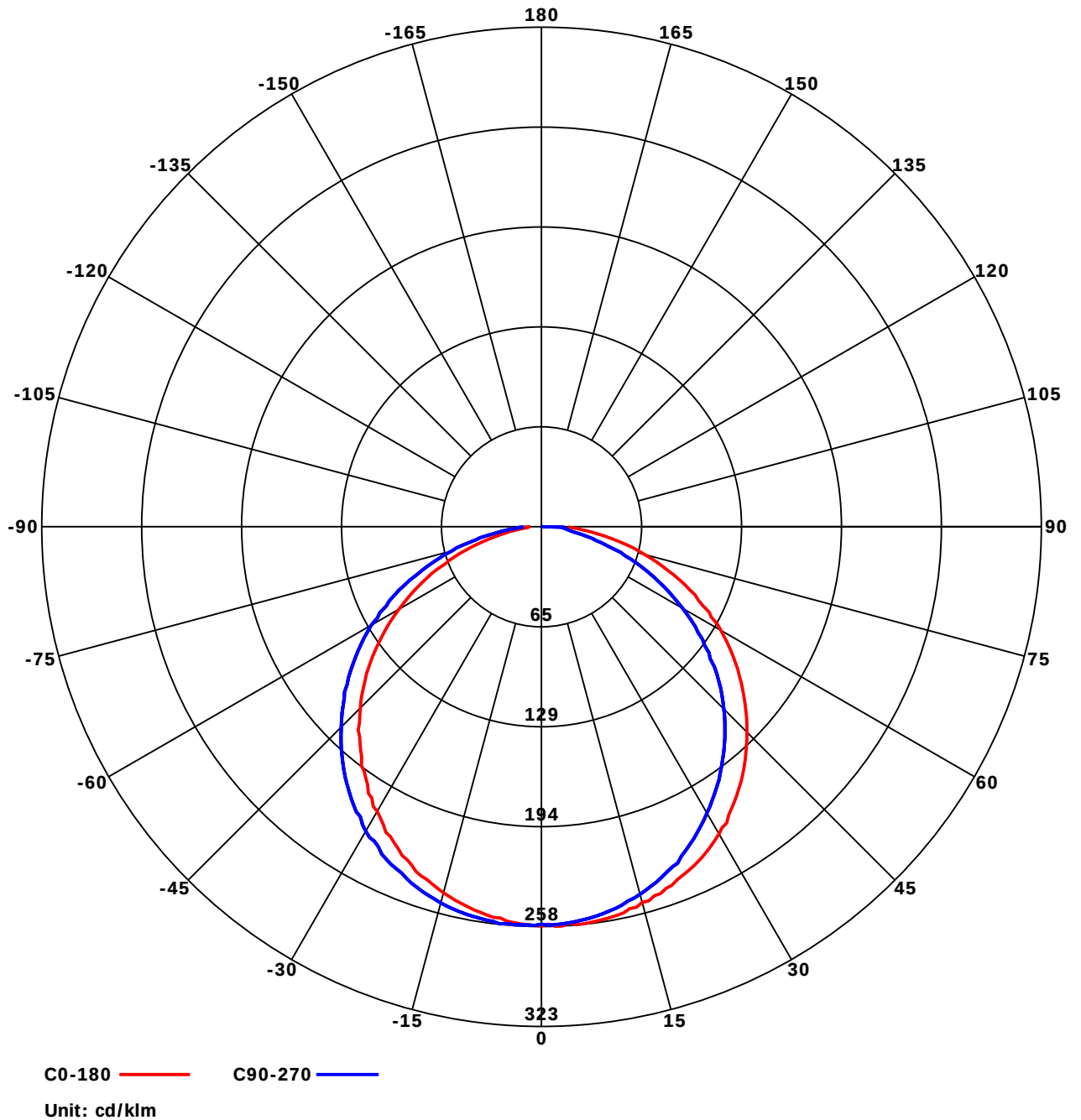
Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.029 m
 Remarks:

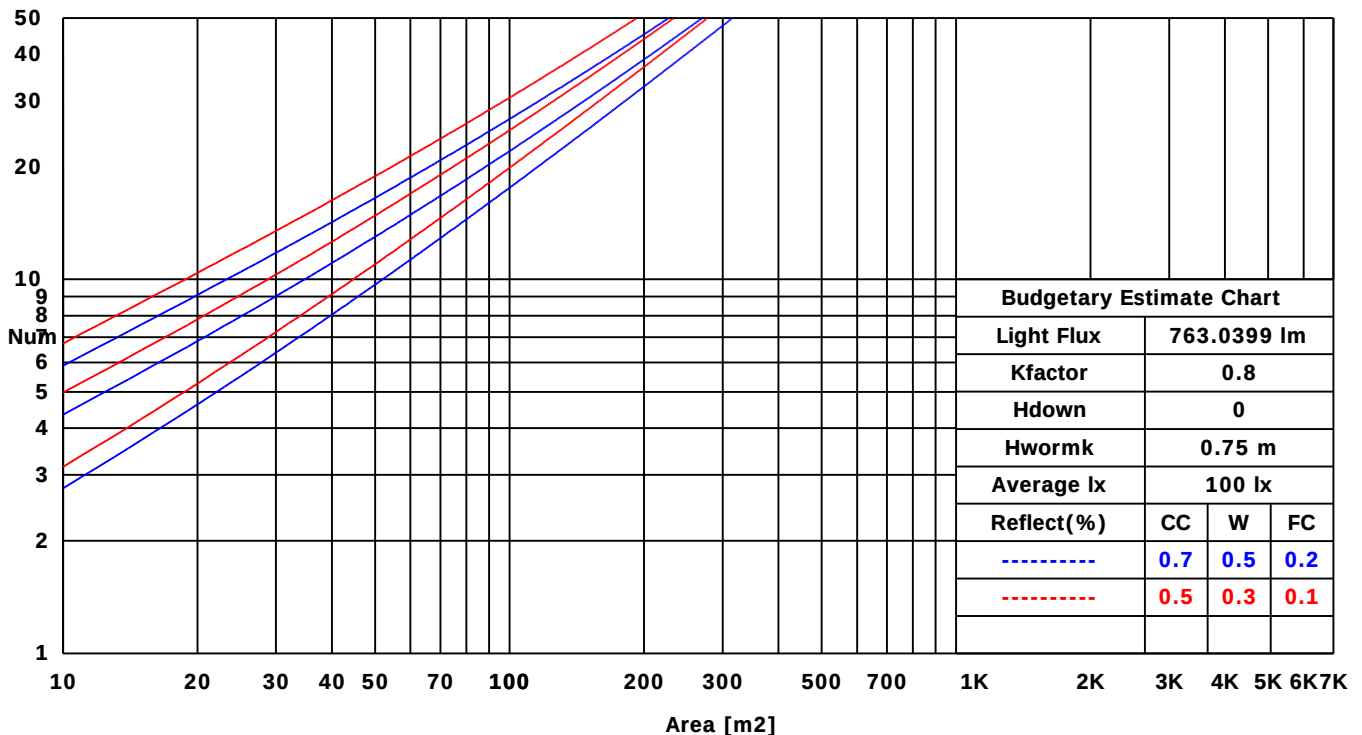
Report No.:

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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	1.06	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.88	0.86	0.80
2	0.94	0.92	0.90	0.93	0.91	0.89	0.90	0.87	0.85	0.87	0.83	0.80	0.82	0.78	0.75	0.70
3	0.83	0.81	0.79	0.83	0.80	0.78	0.81	0.77	0.74	0.78	0.74	0.71	0.75	0.70	0.66	0.62
4	0.74	0.72	0.70	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.55
5	0.67	0.65	0.63	0.67	0.64	0.62	0.67	0.62	0.59	0.65	0.60	0.56	0.63	0.58	0.53	0.49
6	0.61	0.58	0.57	0.61	0.58	0.56	0.61	0.56	0.53	0.60	0.55	0.51	0.59	0.53	0.48	0.44
7	0.56	0.53	0.52	0.56	0.53	0.51	0.56	0.52	0.49	0.55	0.50	0.46	0.54	0.48	0.44	0.40
8	0.51	0.49	0.47	0.51	0.48	0.46	0.52	0.47	0.45	0.52	0.46	0.42	0.51	0.45	0.40	0.37
9	0.47	0.45	0.44	0.48	0.45	0.43	0.48	0.44	0.41	0.48	0.43	0.39	0.48	0.42	0.37	0.34
10	0.44	0.42	0.41	0.44	0.42	0.40	0.45	0.41	0.38	0.45	0.40	0.36	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: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

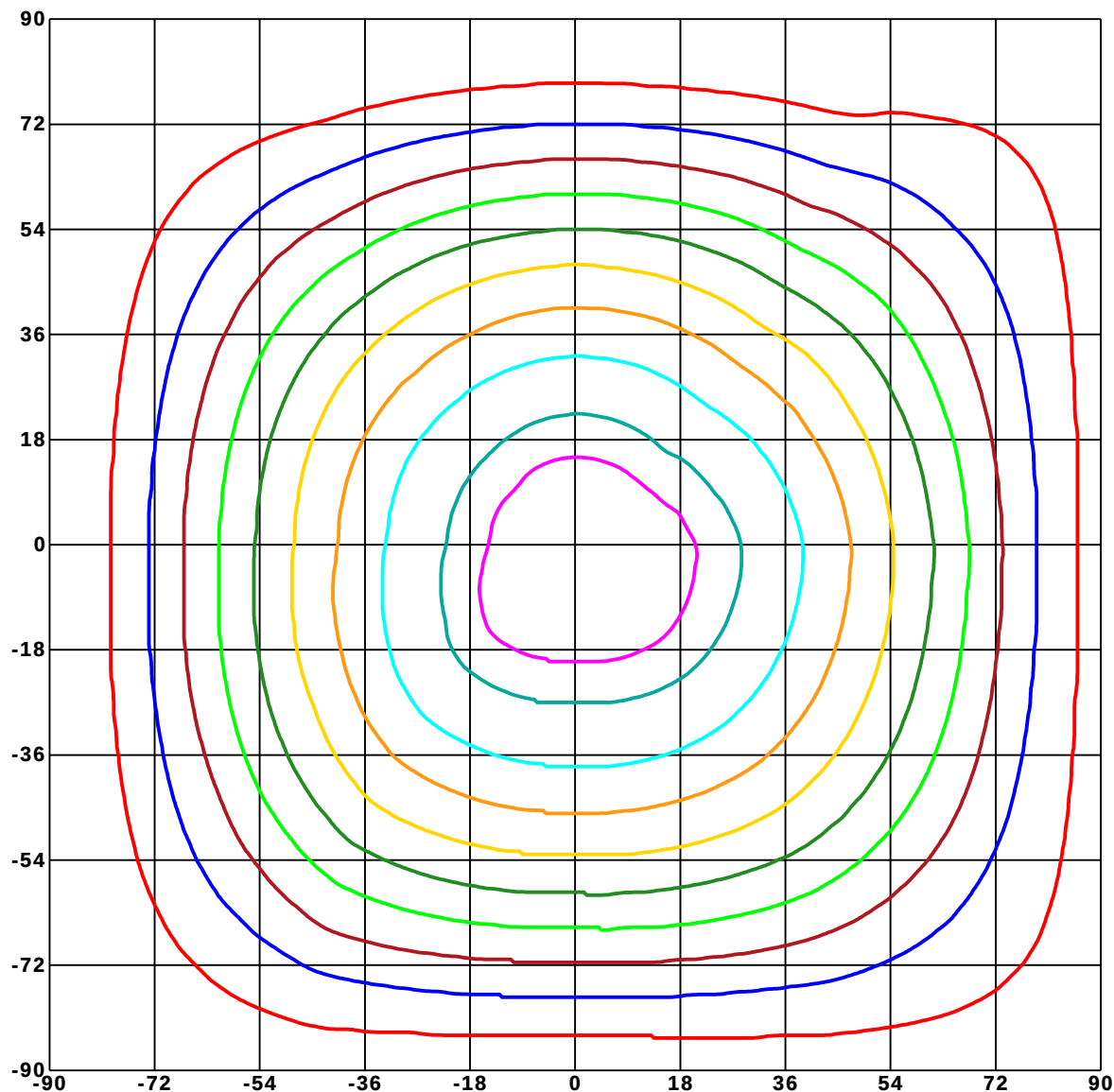
Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 258.259 cd

245.346(95%Imax)	129.129(50%Imax)
232.433(90%Imax)	103.303(40%Imax)
206.607(80%Imax)	77.478(30%Imax)
180.781(70%Imax)	51.652(20%Imax)
154.955(60%Imax)	25.826(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

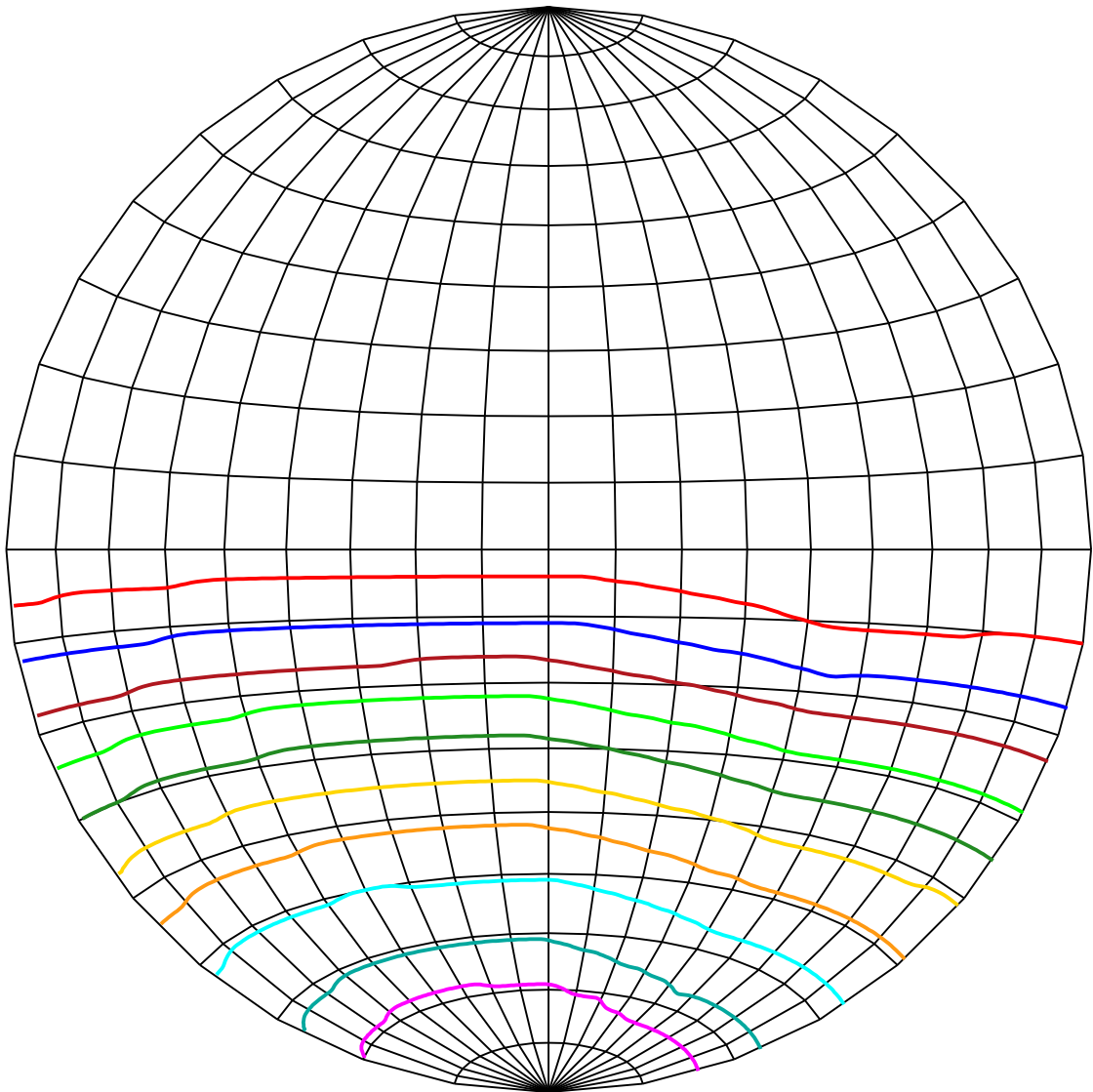
Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 258.259 cd

— 245.346(95%I_{max})
— 232.433(90%I_{max})
— 206.607(80%I_{max})
— 180.781(70%I_{max})
— 154.955(60%I_{max})

— 129.129(50%I_{max})
— 103.303(40%I_{max})
— 77.478(30%I_{max})
— 51.652(20%I_{max})
— 25.826(10%I_{max})

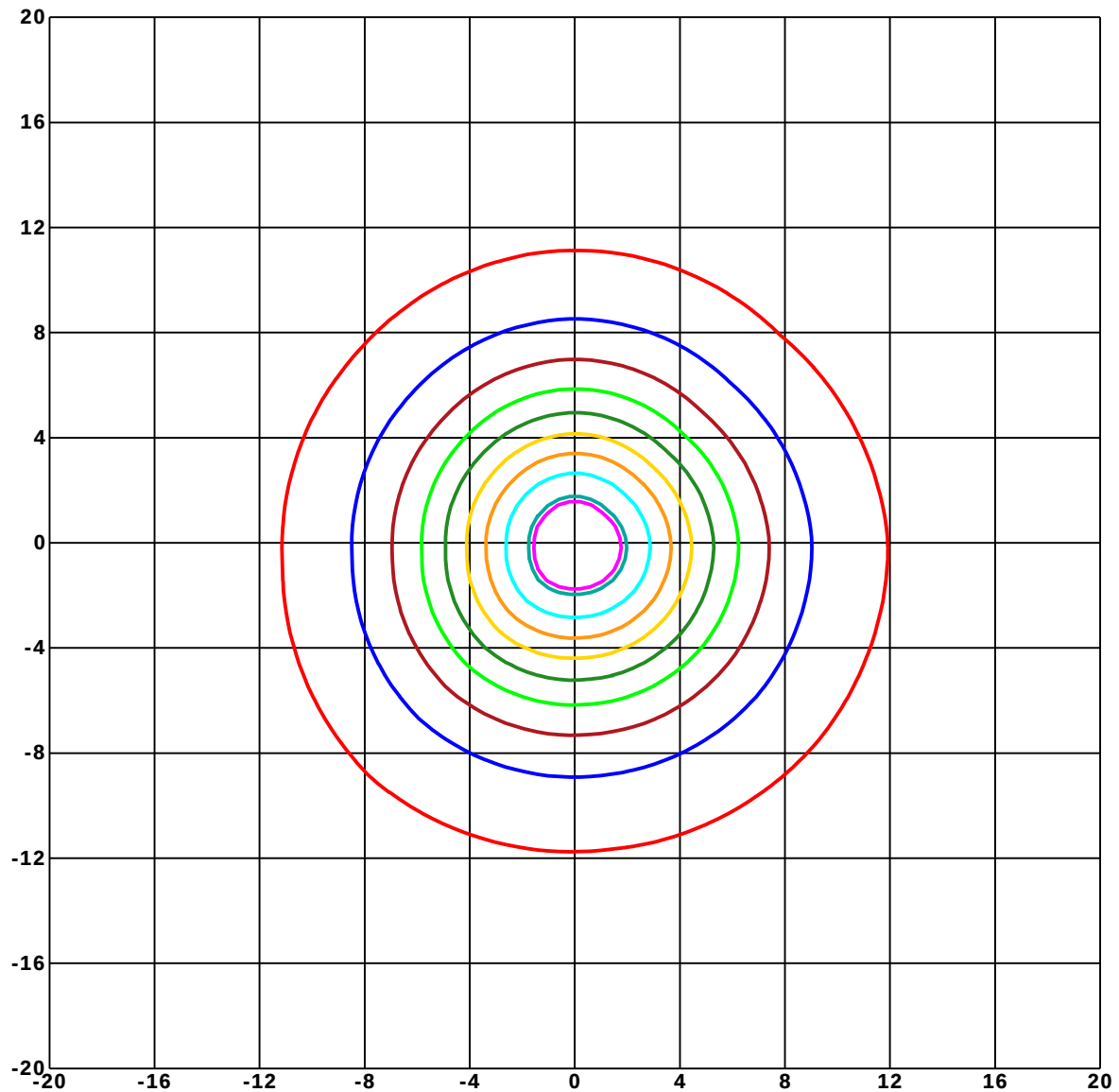
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.029 m
Remarks:

Report No.:

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ISOLX DIAGRAM



Unit of illumination:lx

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

3.707(1%E_{max})

2.015(1%E_{max})

3.627(1%E_{max})

1.612(1%E_{max})

3.224(1%E_{max})

1.209(0%E_{max})

2.821(1%E_{max})

0.806(0%E_{max})

2.418(1%E_{max})

0.403(0%E_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

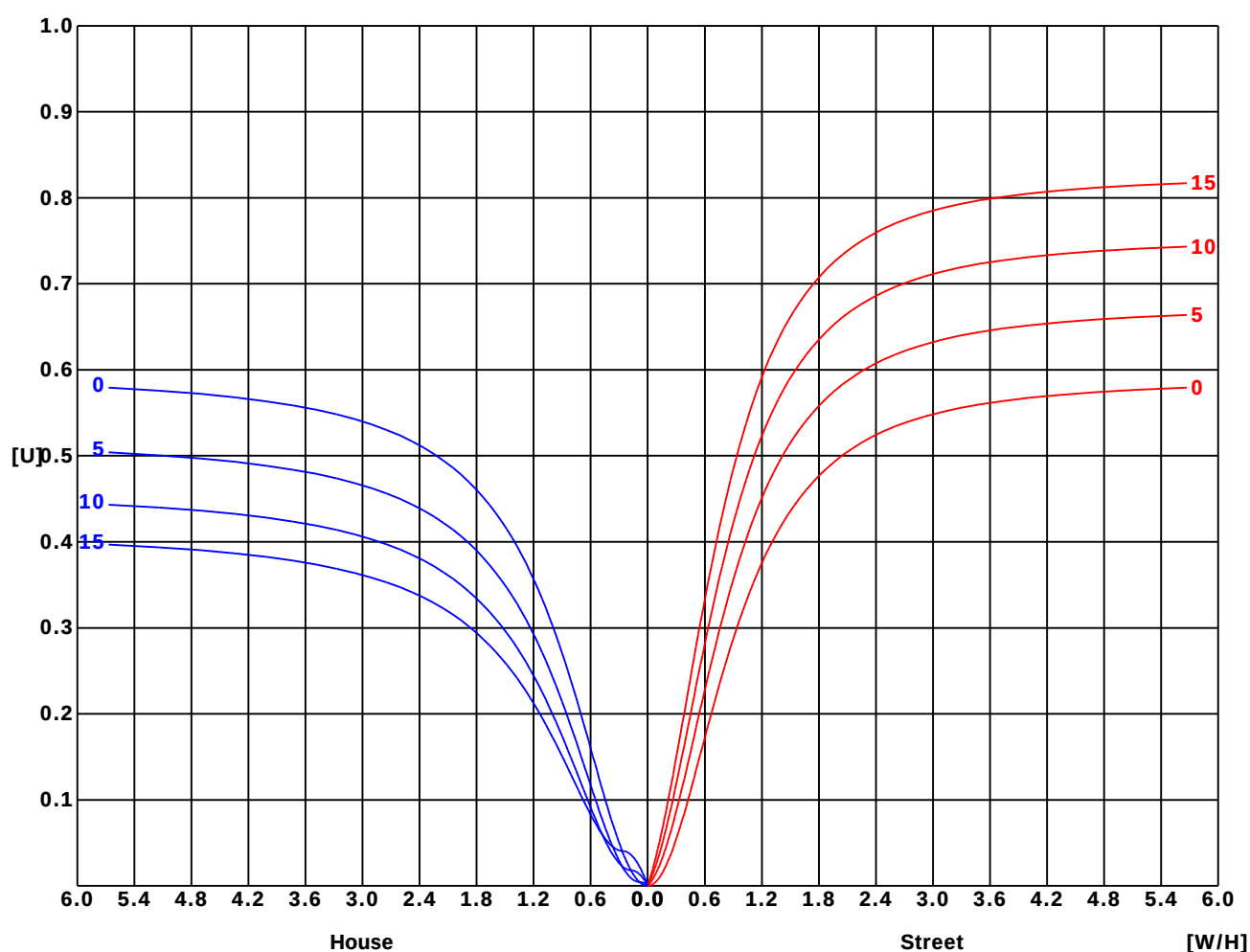
Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/3/12 11:13:10

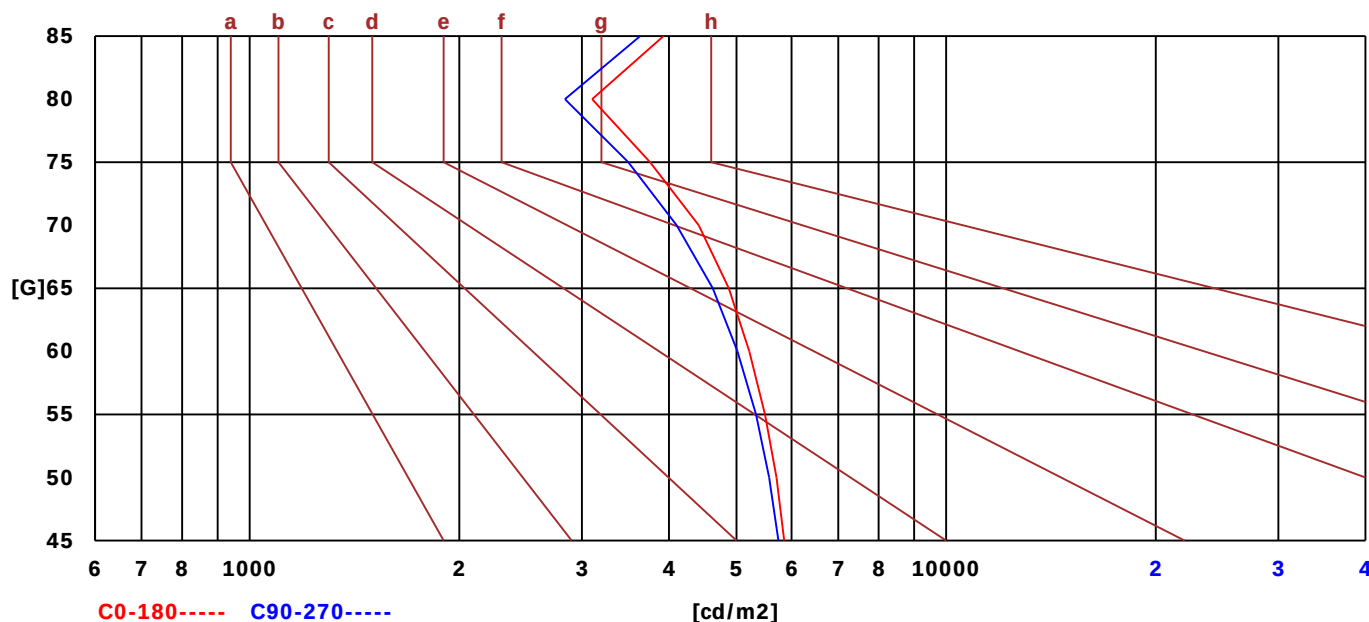
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.029 m
Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5855	5710	5496	5218	4877	4413	3757	3103	3931
C90	5743	5573	5336	5018	4627	4105	3497	2836	3639
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: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

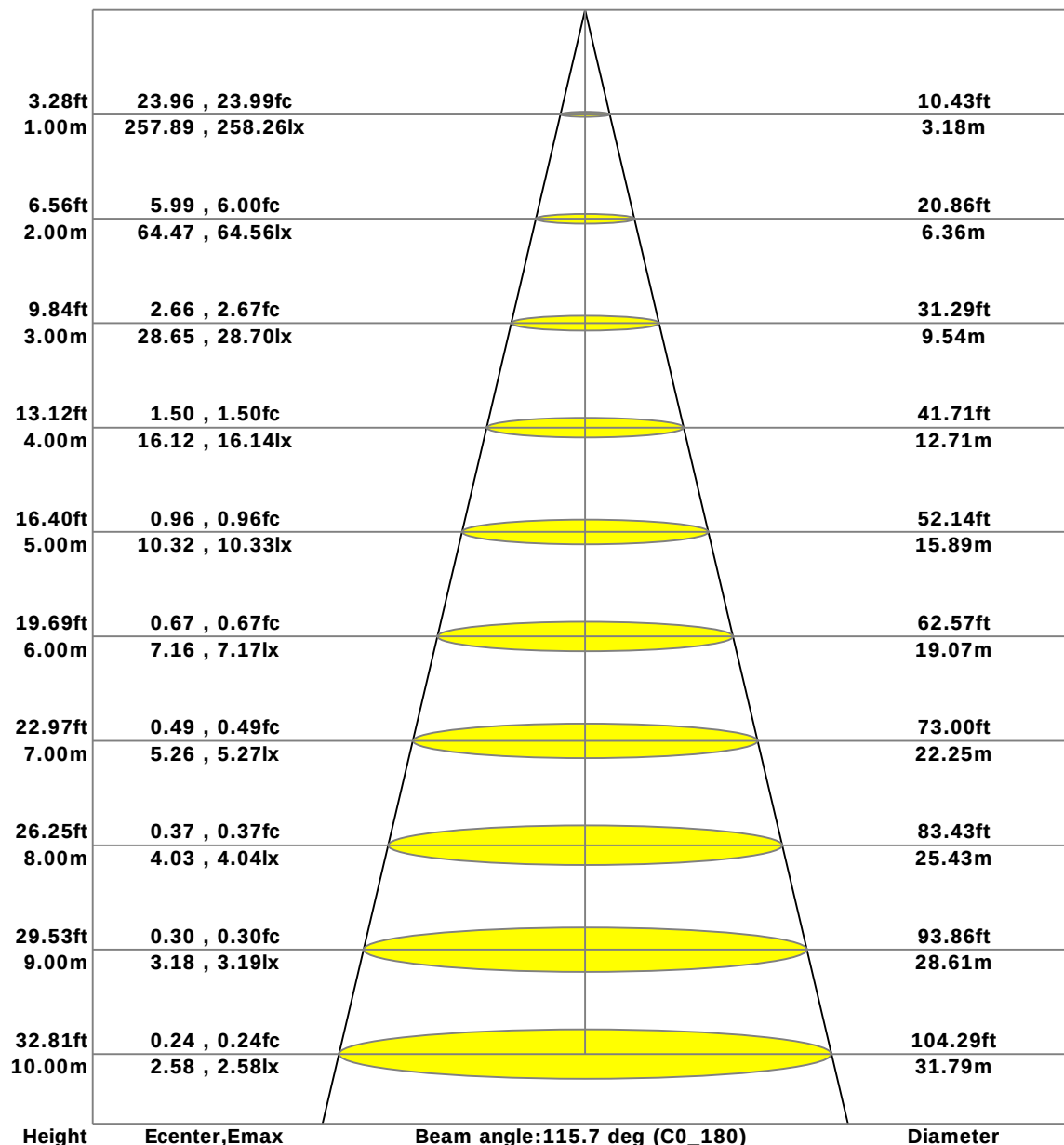
Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

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	18.76	18.84	18.96	19.03	19.27	18.21	18.29	18.41	18.48	18.72
3H	18.84	18.92	19.05	19.11	19.36	18.36	18.44	18.57	18.63	18.88
4H	18.84	18.92	19.05	19.11	19.36	18.39	18.46	18.60	18.66	18.91
6H	18.82	18.89	19.04	19.09	19.35	18.38	18.45	18.60	18.65	18.90
8H	18.80	18.87	19.02	19.08	19.33	18.36	18.43	18.58	18.64	18.89
12H	18.79	18.86	19.01	19.06	19.32	18.35	18.42	18.57	18.62	18.88
4H 2H	21.71	21.78	21.92	21.98	22.23	20.43	20.51	20.65	20.71	20.96
3H	21.88	21.95	22.11	22.16	22.42	20.69	20.76	20.91	20.97	21.22
4H	21.91	21.97	22.14	22.19	22.44	20.76	20.82	20.99	21.04	21.29
6H	21.90	21.96	22.13	22.18	22.44	20.78	20.84	21.02	21.07	21.33
8H	21.88	21.94	22.13	22.17	22.43	20.78	20.84	21.03	21.07	21.33
12H	21.86	21.92	22.11	22.15	22.42	20.77	20.83	21.02	21.06	21.33
8H 4H	22.77	22.84	22.99	23.04	23.29	20.95	21.02	21.17	21.23	21.48
6H	23.22	23.27	23.47	23.51	23.78	21.53	21.58	21.78	21.82	22.09
8H	23.22	23.26	23.48	23.51	23.79	21.56	21.60	21.82	21.85	22.13
12H	23.21	23.25	23.48	23.51	23.79	21.58	21.62	21.85	21.88	22.16
12H 4H	23.59	23.65	23.84	23.88	24.15	21.66	21.71	21.91	21.95	22.22
6H	23.69	23.74	23.95	23.98	24.26	21.80	21.85	22.06	22.09	22.37

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.029 m

Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

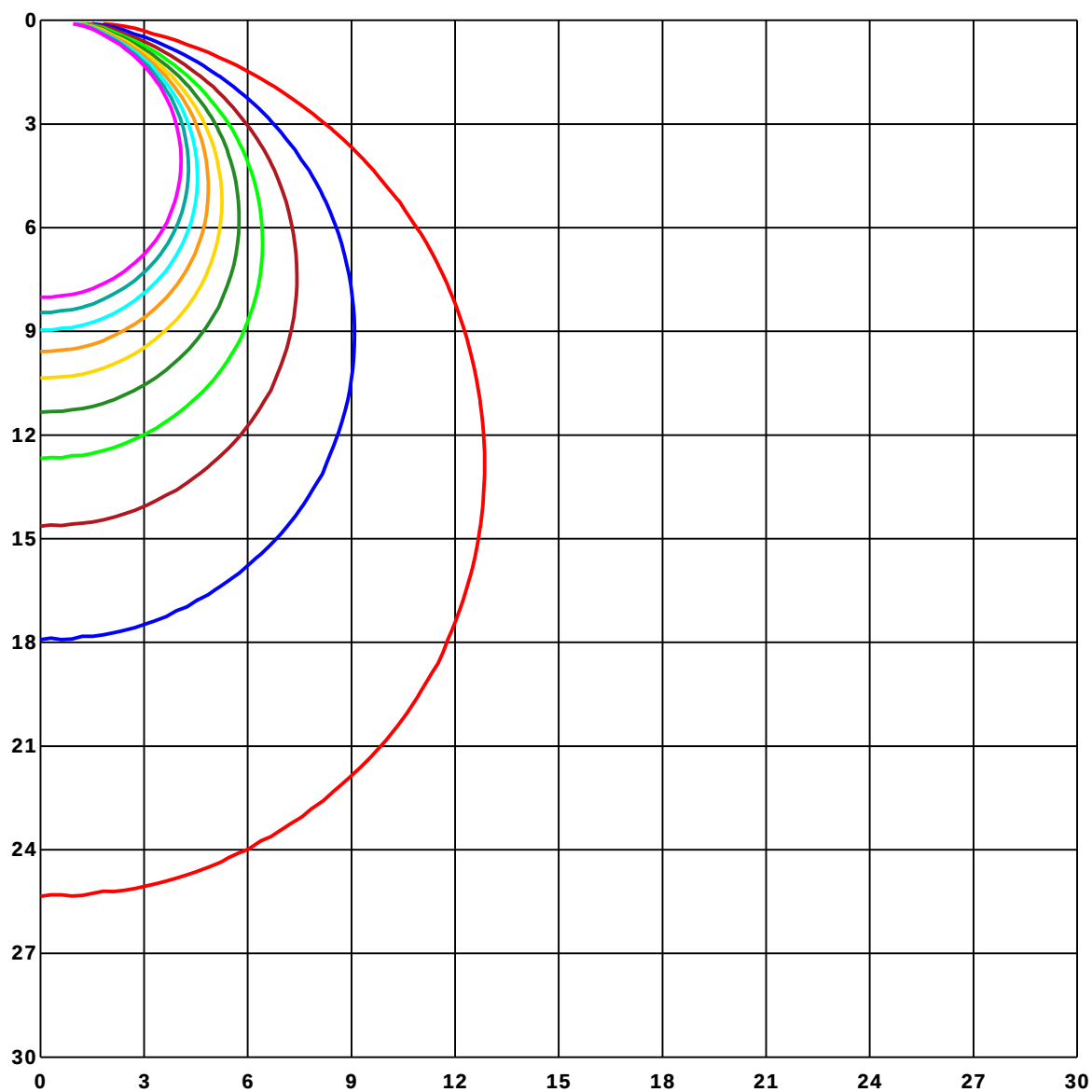
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.029 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

4.015
 3.614
 3.212
 2.811
 2.409

2.008
 1.606
 1.205
 0.803
 0.402

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	257.9	257.17	256.73	257.46	257.9	257.17	256.73	257.46	257.9	
G1	256.7	256.91	257.46	257.17	257.64	257.42	257.64	257.75	256.7	
G2	258.22	256.62	257.24	256.8	257.39	257.46	257.31	256.37	258.22	
G3	258.26	256.0	256.91	255.46	256.84	257.53	257.57	258.0	258.26	
G4	256.73	255.64	256.48	255.82	256.33	257.42	257.6	257.97	256.73	
G5	258.0	255.17	256.0	255.1	255.68	255.93	257.39	258.0	258.0	
G6	257.86	254.51	255.39	253.86	254.15	255.93	257.86	257.79	257.86	
G7	257.57	254.19	254.73	253.53	254.19	255.53	256.88	257.68	257.57	
G8	257.17	252.88	253.9	252.66	253.32	255.31	256.51	257.42	257.17	
G9	256.8	251.9	252.99	251.64	252.22	256.55	256.08	257.06	256.8	
G10	256.19	251.03	252.04	250.55	251.28	256.11	255.57	255.97	256.19	
G11	255.64	249.86	250.99	250.08	250.04	255.57	254.99	256.26	255.64	
G12	254.99	248.66	249.83	248.15	248.84	255.06	254.22	255.68	254.99	
G13	253.13	247.46	248.08	246.66	247.57	254.26	253.42	255.02	253.13	
G14	253.32	246.19	247.21	245.28	246.15	253.5	252.48	254.37	253.32	
G15	251.21	245.97	245.83	244.88	244.66	252.55	251.53	253.64	251.21	
G16	251.35	243.21	244.23	242.12	243.1	251.61	250.33	252.59	251.35	
G17	249.24	241.57	242.7	241.72	241.43	250.48	249.13	251.64	249.24	
G18	249.06	241.5	241.03	240.12	239.68	249.21	248.01	250.52	249.06	
G19	247.03	238.19	239.18	236.78	238.59	247.94	246.52	249.21	247.03	
G20	246.34	236.38	237.25	234.85	236.92	246.41	245.03	247.9	246.34	
G21	244.37	234.34	235.32	232.81	233.98	245.06	243.39	246.52	244.37	
G22	243.06	232.34	234.45	230.71	231.87	243.39	241.25	245.03	243.06	
G23	241.79	231.47	231.14	228.45	230.6	241.61	240.12	243.5	241.79	
G24	240.34	229.0	228.89	226.2	227.62	239.83	238.85	243.32	240.34	
G25	238.85	225.54	226.53	224.96	225.18	238.05	237.14	240.12	238.85	
G26	237.1	224.05	224.13	221.33	222.6	236.05	235.43	238.27	237.1	
G27	235.25	220.71	221.66	218.71	221.4	235.32	232.05	236.34	235.25	
G28	233.4	218.17	219.04	216.2	217.66	232.01	229.98	234.34	233.4	
G29	231.25	215.59	216.42	213.37	214.93	231.18	229.32	232.34	231.25	
G30	229.07	212.86	213.73	210.71	212.24	227.54	226.96	230.16	229.07	
G31	226.67	210.24	210.93	207.99	210.9	225.33	224.56	227.94	226.67	
G32	225.62	207.3	208.13	205.01	206.79	224.45	220.75	226.42	225.62	
G33	222.02	204.57	205.33	202.06	205.3	220.53	219.51	223.33	222.02	
G34	219.51	201.59	202.43	199.08	201.01	218.02	217.0	221.04	219.51	
G35	217.04	198.61	199.7	196.07	197.99	216.75	214.2	218.57	217.04	
G36	214.46	195.52	196.36	192.94	194.98	213.95	211.44	215.77	214.46	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.029 m

Remarks:

Report No.:

Test Time: 2021/3/12 11:13:10

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	211.73	192.47	193.3	189.7	193.23	211.08	208.61	213.48	211.73	
G38	209.15	189.23	190.14	185.56	188.76	207.44	205.73	210.75	209.15	
G39	206.24	186.14	186.98	181.96	185.63	204.68	202.64	206.79	206.24	
G40	203.3	182.87	183.74	178.69	182.4	201.7	199.59	203.88	203.3	
G41	200.32	179.53	180.54	176.62	179.13	198.68	196.36	202.1	200.32	
G42	197.19	174.58	177.02	173.17	176.91	195.59	193.16	199.05	197.19	
G43	194.03	172.62	173.57	169.53	172.44	192.47	189.81	195.85	194.03	
G44	190.87	167.6	170.11	166.04	168.95	189.16	186.54	192.54	190.87	
G45	187.6	165.61	166.48	162.44	165.46	185.85	183.02	187.81	187.6	
G46	184.36	162.08	162.99	158.88	162.08	181.64	179.45	184.58	184.36	
G47	181.02	158.48	159.32	155.14	158.55	178.15	176.04	181.16	181.02	
G48	177.56	153.17	155.5	151.21	154.7	174.29	172.33	178.95	177.56	
G49	174.11	150.63	151.61	147.36	150.96	170.77	168.77	175.46	174.11	
G50	170.66	146.81	147.69	143.29	147.54	168.48	166.15	171.86	170.66	
G51	167.06	141.43	143.69	139.22	143.4	163.46	161.61	168.33	167.06	
G52	163.72	137.65	138.2	135.04	139.36	161.39	158.08	164.55	163.72	
G53	160.08	134.42	135.4	130.86	135.36	157.79	154.26	160.99	160.08	
G54	156.59	130.27	130.13	126.13	131.36	154.05	150.41	157.25	156.59	
G55	152.77	126.09	127.04	122.42	127.22	150.19	146.74	153.5	152.77	
G56	149.03	121.88	121.99	117.92	123.22	146.27	142.78	149.65	149.03	
G57	145.4	117.55	118.42	113.48	119.08	142.41	138.96	145.9	145.4	
G58	141.43	112.94	114.14	109.23	114.83	138.53	134.85	141.94	141.43	
G59	137.62	108.79	109.66	104.61	110.54	134.53	130.89	139.22	137.62	
G60	133.8	104.36	105.12	100.36	106.21	130.46	126.86	133.95	133.8	
G61	129.77	99.96	100.69	95.82	102.07	126.28	121.04	129.91	129.77	
G62	124.13	95.63	96.47	91.45	97.81	122.2	118.42	125.91	124.13	
G63	121.66	91.2	92.0	87.06	93.6	117.84	112.5	121.77	121.66	
G64	115.73	86.87	87.71	82.66	89.35	113.48	109.59	117.44	115.73	
G65	111.52	82.44	83.38	78.22	85.17	109.08	104.98	113.12	111.52	
G66	108.72	78.19	79.02	73.9	80.88	104.5	100.65	108.61	108.72	
G67	103.99	74.88	74.59	69.5	76.73	100.07	95.96	104.21	103.99	
G68	99.74	69.24	70.26	65.03	72.37	95.67	91.56	99.7	99.74	
G69	95.23	64.85	65.79	60.45	66.34	90.91	86.4	95.34	95.23	
G70	90.8	60.38	61.39	56.16	63.61	86.69	82.33	90.91	90.8	
G71	85.78	56.05	57.07	51.8	59.39	82.11	77.86	86.44	85.78	
G72	81.89	51.54	53.87	47.44	55.03	78.99	73.28	81.97	81.89	
G73	77.53	47.22	48.27	43.04	50.74	74.48	68.74	77.42	77.53	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/3/12 11:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.029 m

Remarks:

