

Report No.:

Test Time: 2023/3/16 14:14:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 6W Panel 4000k
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

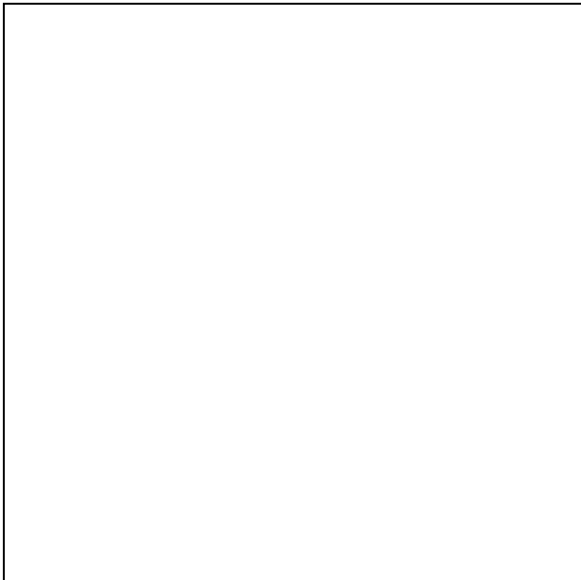
Voltage(V): 229.80 V
Current(A): 0.0490 A
Power(W): 5.82 W
Power Factor: 0.5070
Lamp Luminous Flux: 438.60

Photometric Results

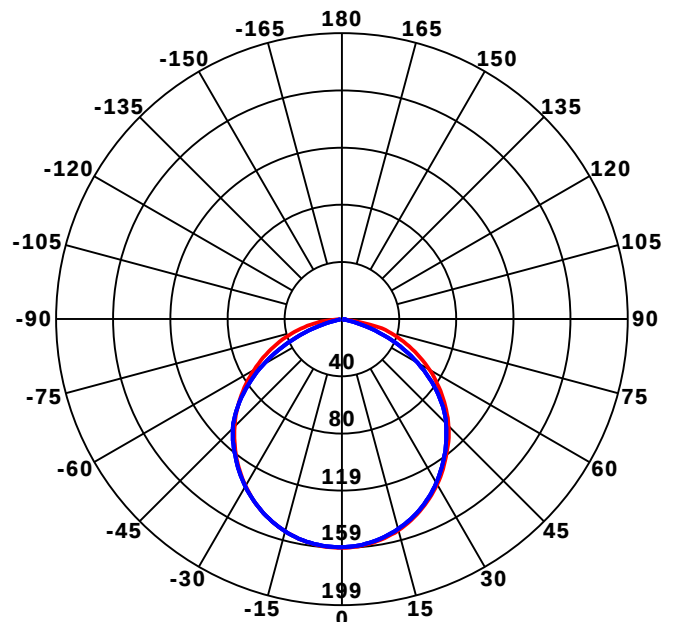
CIE Class: Direct
Luminaire Luminous Flux: 438.5971 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 75.36 lm/W
Beam Angle(50%) C0-180,C90-270: 112.5,109.0
Field Angle(10%) C0-180,C90-270: 162.8,147.1
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 159.03 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 159.03 cd
Effective Luminous Flux: 429.84 lm
ERP(φ_{use})(120deg): 353.89 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 112.5 deg,109.0 deg

C0-180 — C90-270 —

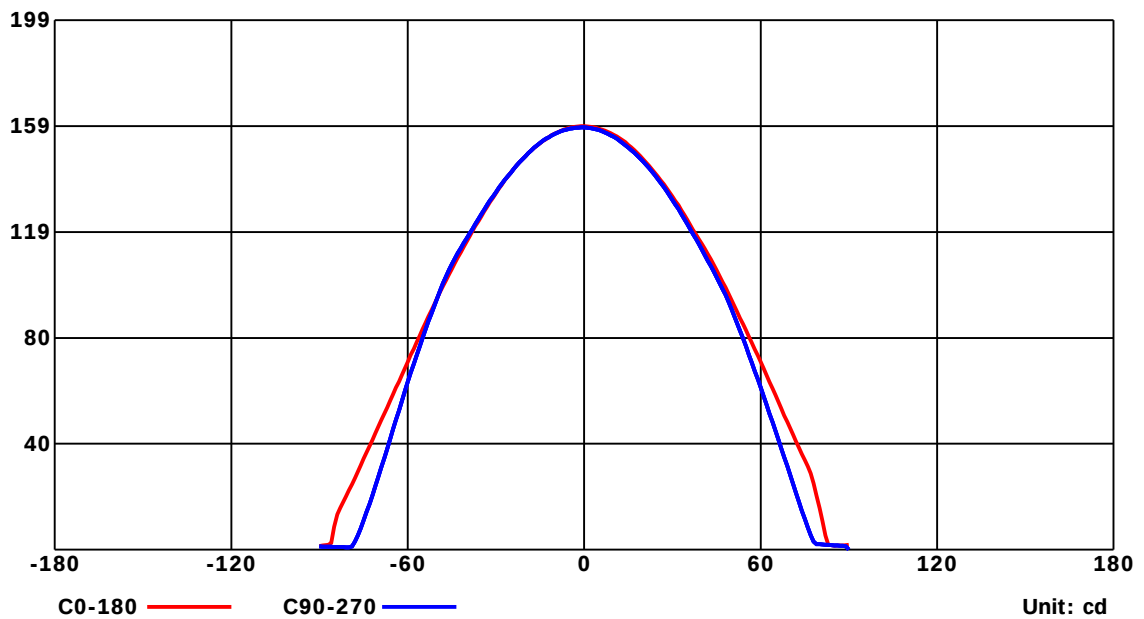
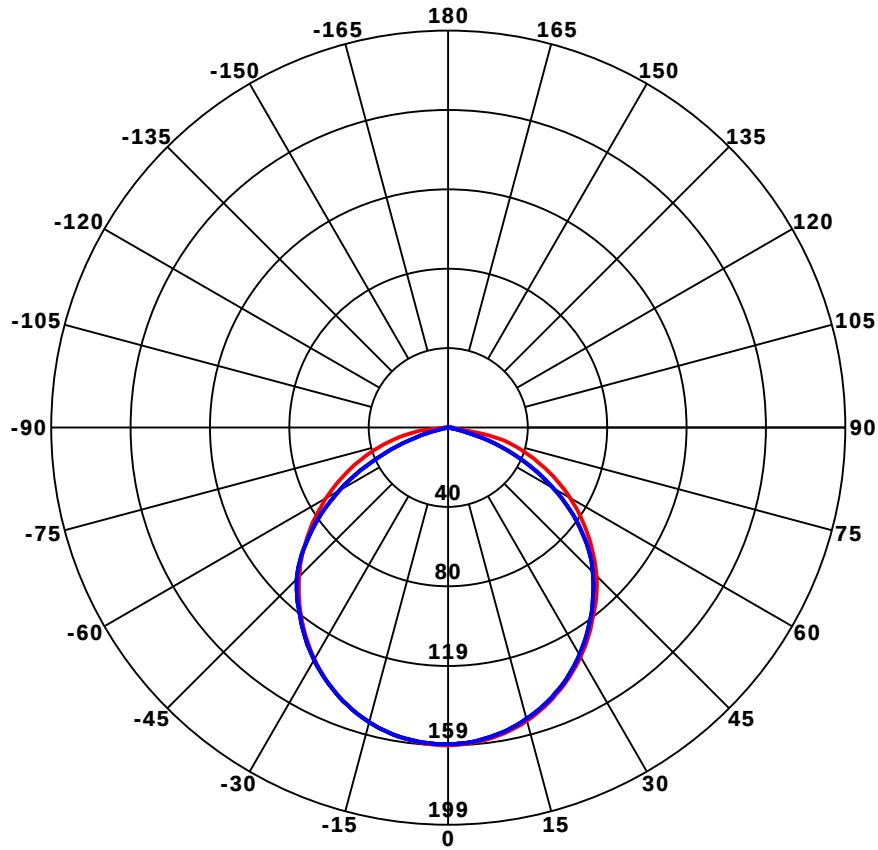
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/16 14:14:03

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: 2023/3/16 14:14:03

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

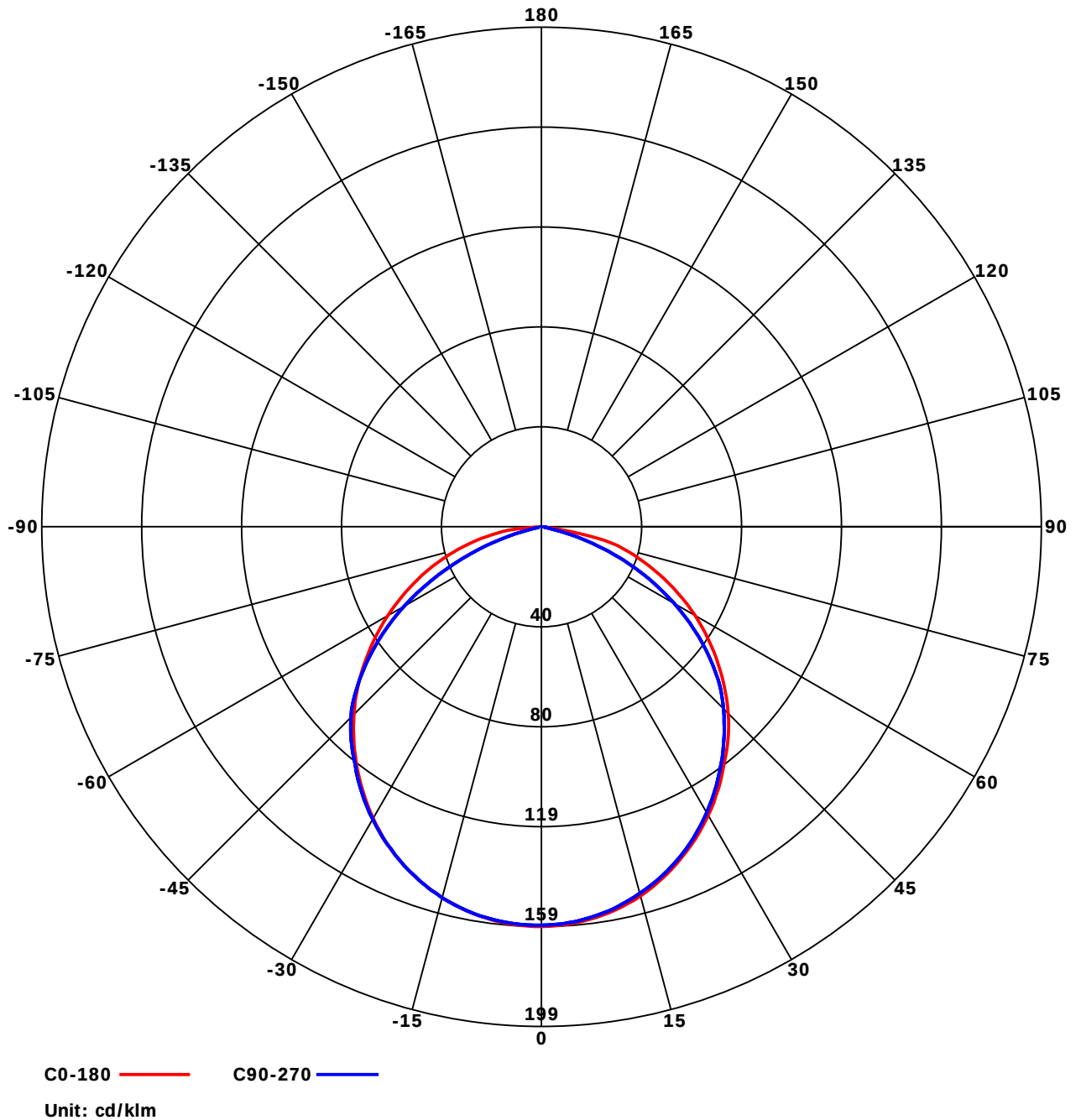
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/16 14:14:03

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

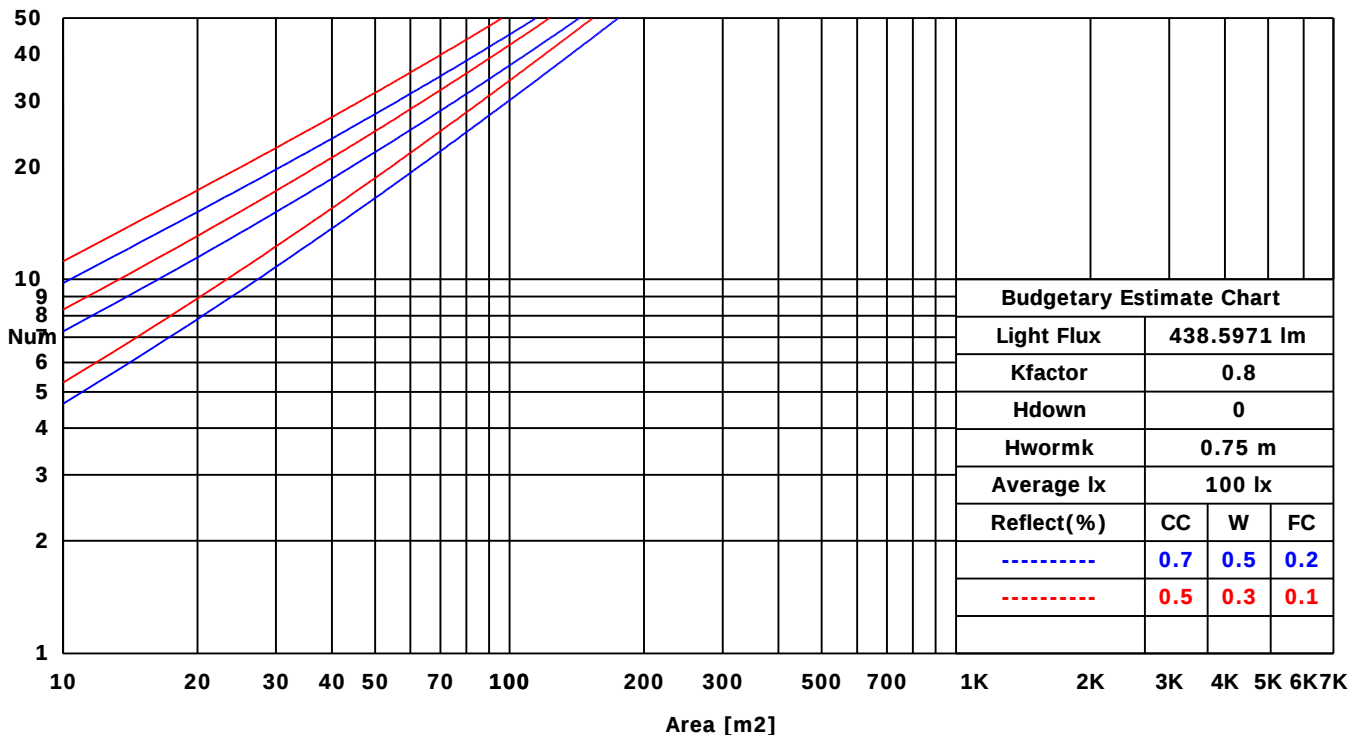
Report No.:

Test Time: 2023/3/16 14:14:03

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	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.96	0.93	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	0.61	0.59	0.63	0.60	0.58	0.63	0.58	0.55	0.62	0.57	0.53	0.60	0.54	0.50	0.46
7	0.58	0.55	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.56	0.50	0.46	0.42
8	0.53	0.51	0.50	0.53	0.50	0.49	0.54	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	0.50	0.47	0.45	0.50	0.46	0.43	0.50	0.45	0.41	0.49	0.43	0.39	0.36
10	0.46	0.44	0.43	0.46	0.43	0.42	0.47	0.43	0.40	0.47	0.42	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: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

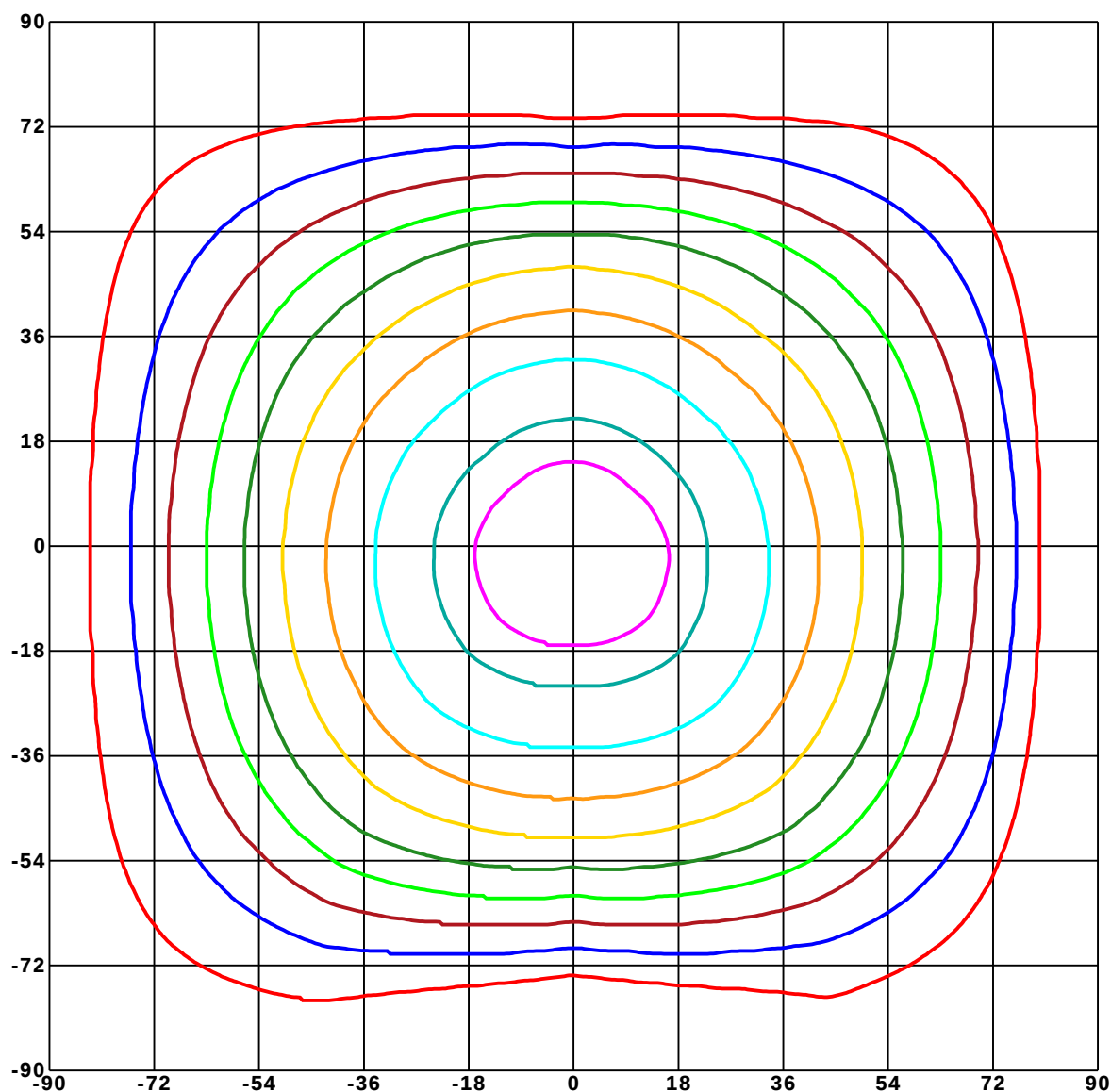
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 159.032 cd

151.081(95%I _{max})	79.516(50%I _{max})
143.129(90%I _{max})	63.613(40%I _{max})
127.226(80%I _{max})	47.71(30%I _{max})
111.323(70%I _{max})	31.806(20%I _{max})
95.419(60%I _{max})	15.903(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

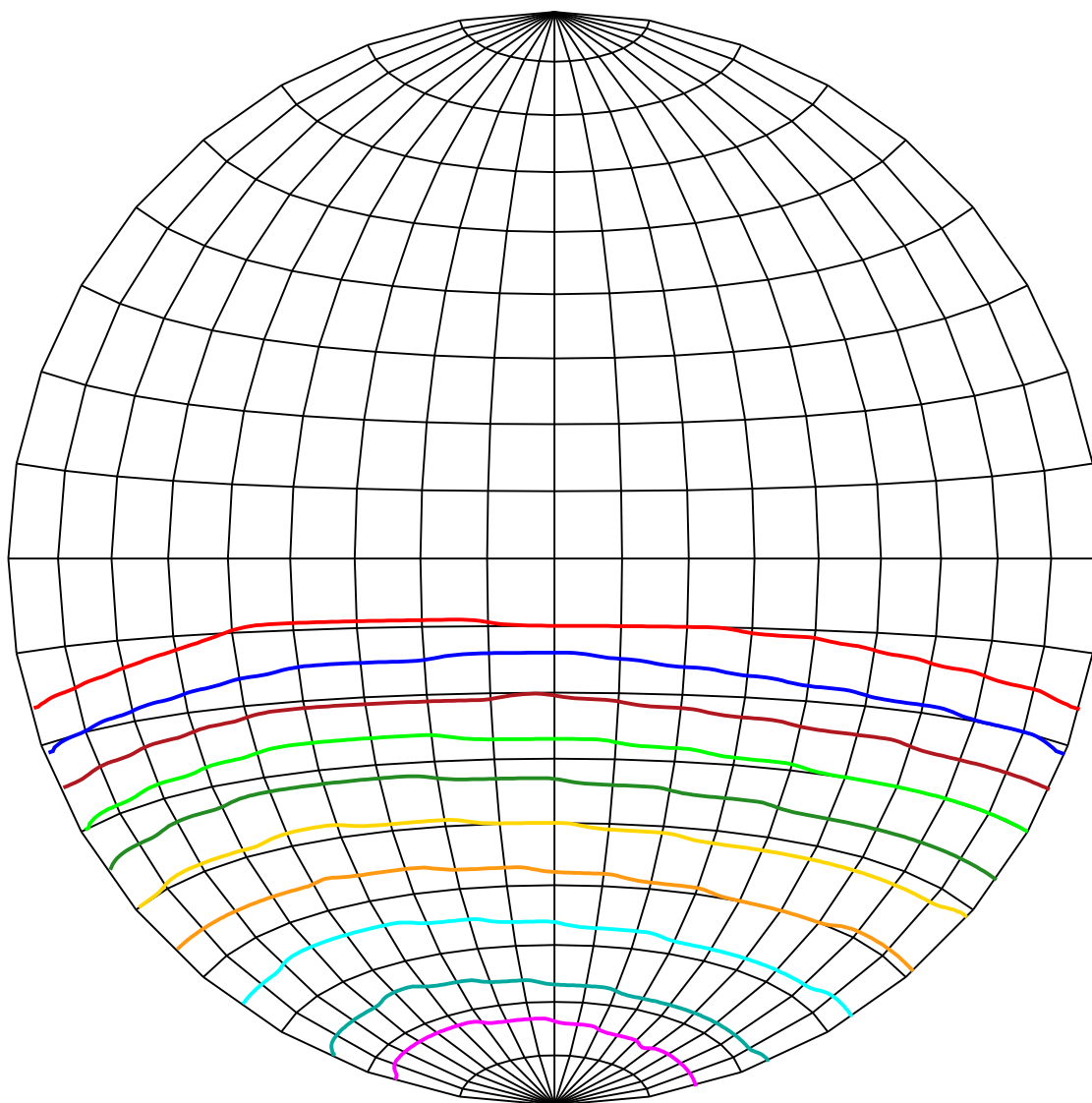
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 159.032 cd

151.081(95%I_{max})

79.516(50%I_{max})

143.129(90%I_{max})

63.613(40%I_{max})

127.226(80%I_{max})

47.71(30%I_{max})

111.323(70%I_{max})

31.806(20%I_{max})

95.419(60%I_{max})

15.903(10%I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

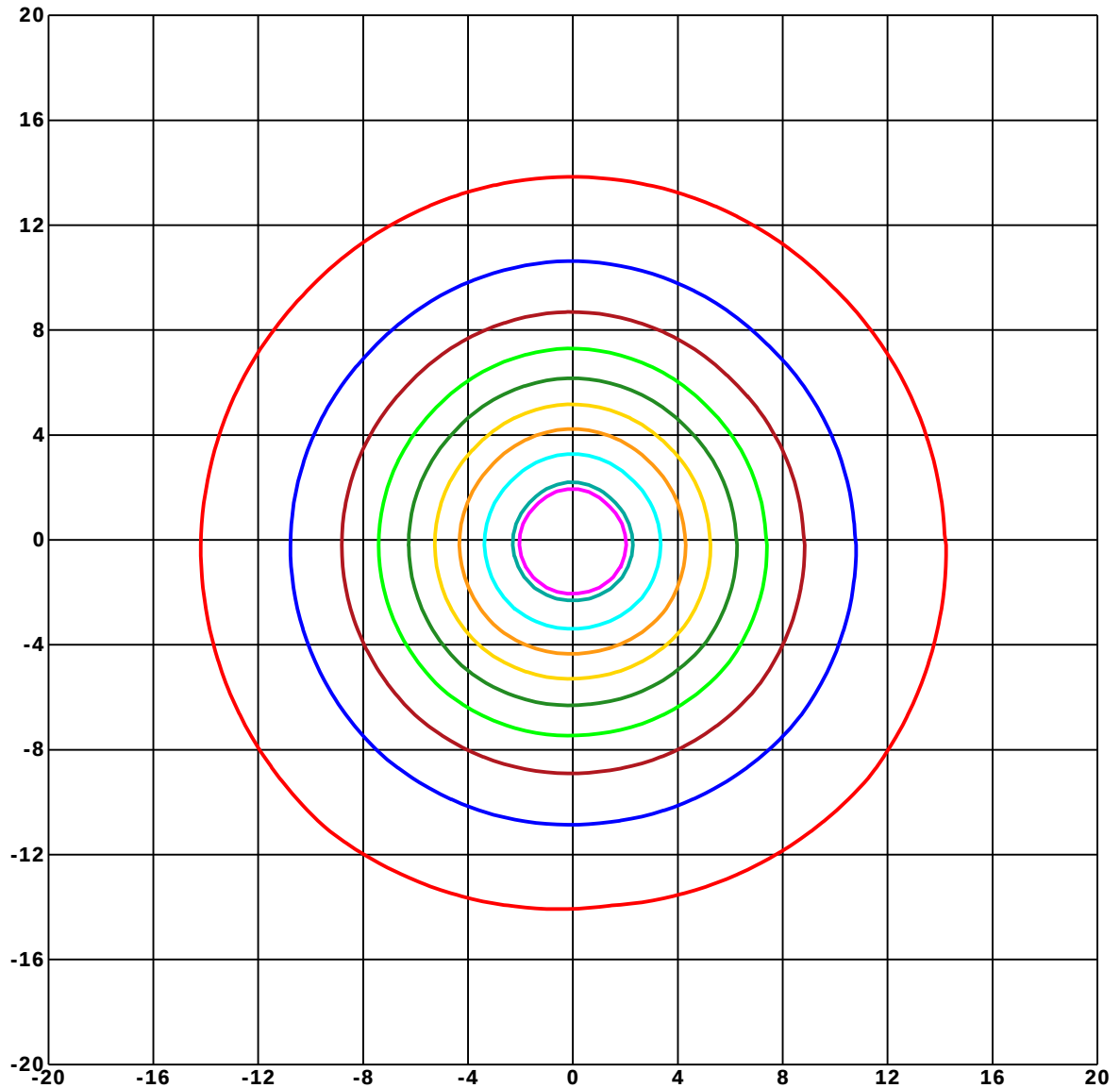
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

ISOLX DIAGRAM



Unit of illumination:lx

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

1.463(1%E_{max})

1.431(1%E_{max})

1.272(1%E_{max})

1.113(1%E_{max})

0.954(1%E_{max})

0.795(1%E_{max})

0.636(0%E_{max})

0.477(0%E_{max})

0.318(0%E_{max})

0.159(0%E_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

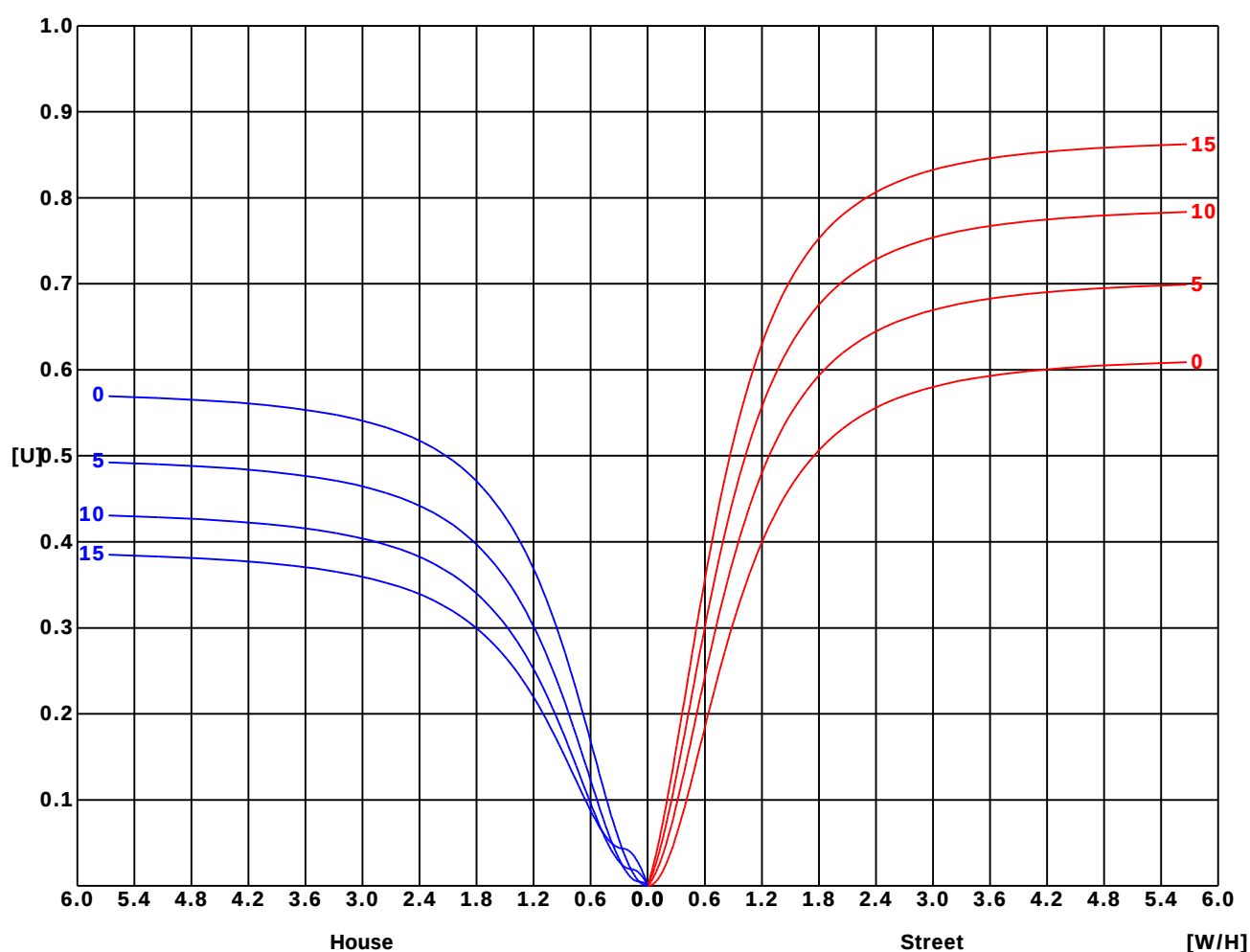
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/3/16 14:14:03

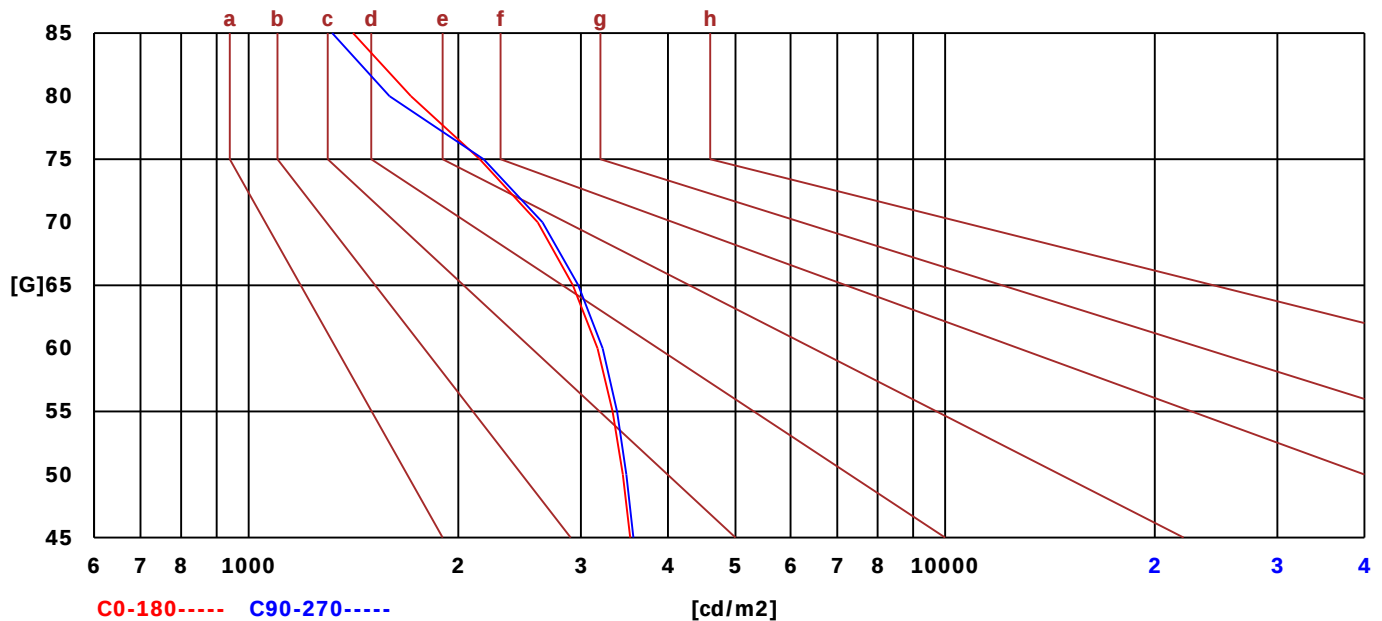
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3532	3446	3330	3169	2921	2600	2147	1711	1413
C90	3570	3488	3383	3224	2974	2642	2174	1594	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: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

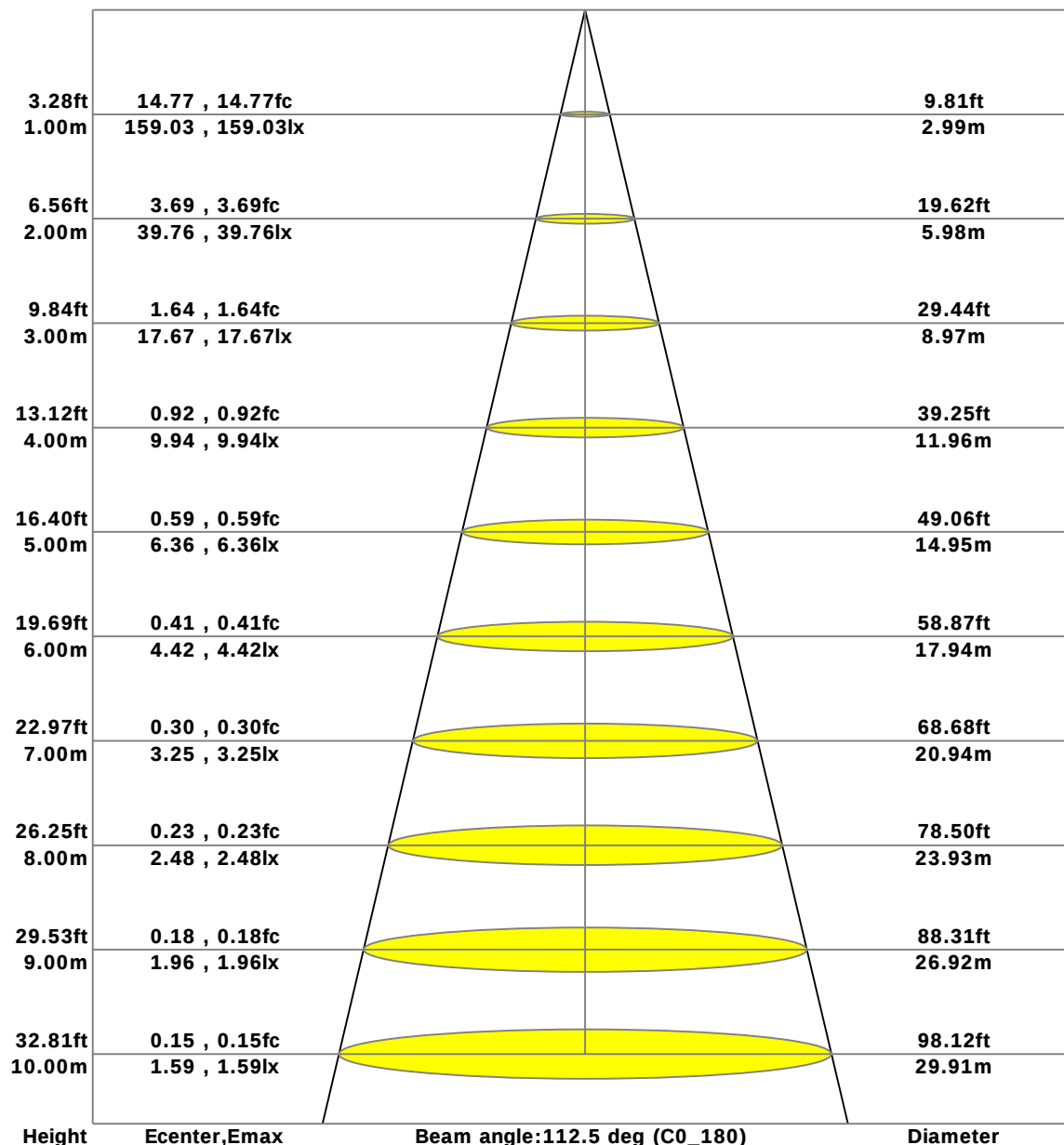
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

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: 2023/3/16 14:14:03

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	18.49	18.57	18.69	18.76	19.00	18.23	18.30	18.43	18.49	18.74
3H	18.57	18.64	18.78	18.84	19.08	18.35	18.43	18.56	18.62	18.87
4H	18.56	18.63	18.77	18.83	19.08	18.37	18.44	18.58	18.64	18.89
6H	18.53	18.60	18.75	18.80	19.05	18.35	18.42	18.57	18.62	18.87
8H	18.52	18.58	18.74	18.79	19.04	18.34	18.40	18.56	18.61	18.86
12H	18.50	18.57	18.72	18.77	19.03	18.32	18.39	18.54	18.59	18.85
4H 2H	21.09	21.17	21.31	21.36	21.61	19.89	19.96	20.10	20.16	20.41
3H	21.28	21.34	21.50	21.55	21.81	20.13	20.20	20.35	20.40	20.66
4H	21.29	21.35	21.52	21.57	21.83	20.19	20.25	20.42	20.47	20.73
6H	21.27	21.33	21.51	21.55	21.81	20.20	20.26	20.44	20.48	20.74
8H	21.25	21.31	21.49	21.53	21.80	20.18	20.24	20.43	20.46	20.73
12H	21.23	21.28	21.48	21.52	21.79	20.16	20.21	20.41	20.45	20.72
8H 4H	21.60	21.67	21.82	21.87	22.13	19.94	20.01	20.16	20.21	20.46
6H	21.91	21.96	22.16	22.19	22.47	20.38	20.43	20.64	20.67	20.94
8H	21.90	21.94	22.16	22.19	22.47	20.38	20.43	20.64	20.67	20.95
12H	21.88	21.92	22.15	22.18	22.46	20.37	20.41	20.64	20.66	20.94
12H 4H	21.90	21.95	22.15	22.18	22.45	20.33	20.39	20.58	20.62	20.89
6H	21.91	21.96	22.18	22.21	22.48	20.41	20.45	20.67	20.70	20.97

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

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: 2023/3/16 14:14:03

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

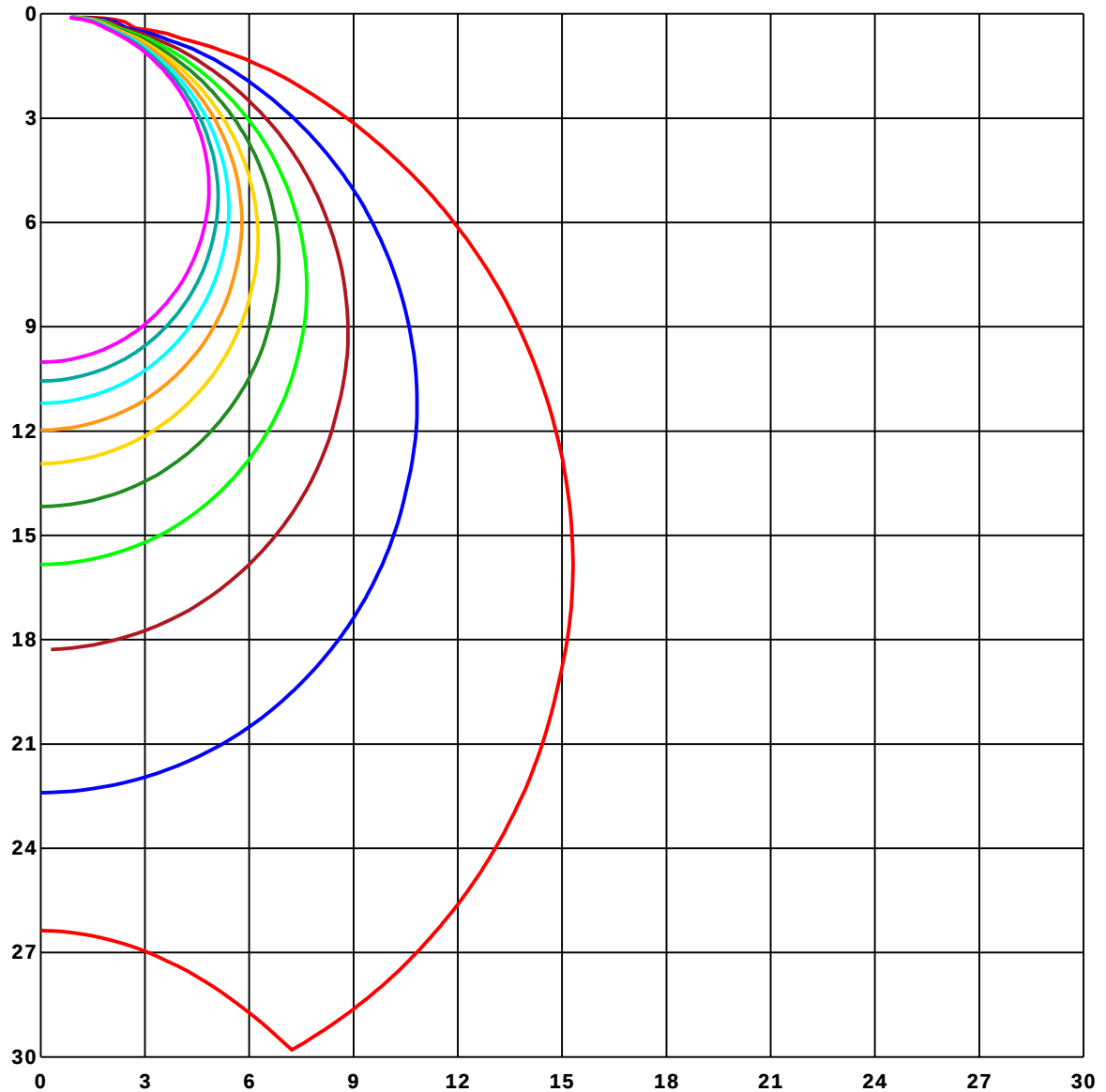
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/3/16 14:14:03

SPACE ISOLX DIAGRAM



Unit of illumination:lx

1.585
1.426
1.268
1.109
0.951

0.792
0.634
0.475
0.317
0.158

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

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: 2023/3/16 14:14:03

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	159.03	158.3	158.5	158.63	159.03	158.3	158.5	158.63	159.03	
G1	158.95	158.14	158.42	158.5	159.03	158.38	158.54	158.67	158.95	
G2	158.83	157.97	158.3	158.34	158.95	158.42	158.46	158.71	158.83	
G3	158.67	157.69	158.14	158.1	158.79	158.34	158.38	158.63	158.67	
G4	158.42	157.36	157.81	157.81	158.67	158.26	158.22	158.46	158.42	
G5	158.14	157.0	157.57	157.44	158.42	158.1	158.06	158.3	158.14	
G6	157.77	156.55	157.08	157.0	158.1	157.85	157.73	158.06	157.77	
G7	157.32	156.02	156.63	156.55	157.73	157.61	157.44	157.77	157.32	
G8	156.92	155.49	156.14	155.94	157.28	157.28	157.08	157.44	156.92	
G9	156.39	154.84	155.57	155.37	156.79	156.87	156.67	157.04	156.39	
G10	155.82	154.15	155.04	154.72	156.26	156.43	156.14	156.71	155.82	
G11	155.17	153.41	154.35	153.98	155.65	155.9	155.61	156.02	155.17	
G12	154.47	152.64	153.54	153.25	155.0	155.29	154.88	155.45	154.47	
G13	153.7	151.91	152.72	152.32	154.15	154.72	154.31	154.96	153.7	
G14	153.01	151.01	151.87	151.5	153.5	154.03	153.58	154.23	153.01	
G15	151.99	149.96	150.97	150.61	152.68	153.25	152.76	153.5	151.99	
G16	151.09	149.06	150.04	149.63	151.71	152.48	151.79	152.52	151.09	
G17	150.04	147.92	149.06	148.49	150.89	151.66	150.97	151.66	150.04	
G18	148.98	146.82	148.0	147.51	149.87	150.81	149.96	150.77	148.98	
G19	147.88	145.76	146.9	146.37	148.9	149.96	148.94	149.83	147.88	
G20	146.7	144.46	145.76	145.19	147.8	148.94	147.72	148.9	146.7	
G21	145.48	143.24	144.58	143.97	146.66	148.04	146.7	147.96	145.48	
G22	144.18	142.02	143.32	142.67	145.48	147.23	145.48	146.98	144.18	
G23	142.87	140.63	142.02	141.37	144.22	146.13	144.26	145.97	142.87	
G24	141.53	139.13	140.67	139.94	142.95	144.87	142.99	144.83	141.53	
G25	140.15	137.66	139.25	138.52	141.61	143.65	141.53	143.56	140.15	
G26	138.72	136.12	137.74	136.97	140.19	142.38	140.27	142.3	138.72	
G27	137.26	134.49	136.2	135.42	138.68	141.04	138.88	140.96	137.26	
G28	135.71	132.86	134.61	133.75	137.09	139.66	137.38	139.58	135.71	
G29	134.16	131.23	132.98	132.13	135.55	138.23	135.91	138.11	134.16	
G30	132.57	129.48	131.31	130.42	133.88	136.73	134.32	136.64	132.57	
G31	130.91	127.69	129.56	128.67	132.25	135.18	132.78	135.1	130.91	
G32	129.32	125.94	127.85	126.88	130.54	133.63	131.11	133.55	129.32	
G33	127.49	124.03	126.02	125.04	128.75	132.05	129.48	132.0	127.49	
G34	125.74	122.19	124.19	123.13	127.04	130.42	127.73	130.38	125.74	
G35	123.9	120.28	122.36	121.34	125.17	128.75	125.94	128.71	123.9	
G36	121.99	118.37	120.49	119.43	123.38	127.0	124.15	127.0	121.99	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

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: 2023/3/16 14:14:03

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	120.08	116.46	118.57	117.47	121.5	125.21	122.32	125.21	120.08	
G38	118.25	114.42	116.66	115.44	119.59	123.33	120.36	123.29	118.25	
G39	116.54	112.43	114.66	113.44	117.64	121.46	118.61	121.46	116.54	
G40	114.79	110.31	112.63	111.41	115.68	119.51	116.9	119.55	114.79	
G41	112.95	108.31	110.63	109.41	113.69	117.51	115.11	117.55	112.95	
G42	111.08	106.24	108.6	107.3	111.65	115.52	113.24	115.6	111.08	
G43	109.09	104.16	106.52	105.22	109.66	113.44	111.33	113.52	109.09	
G44	107.05	102.01	104.45	103.1	107.58	111.41	109.29	111.45	107.05	
G45	104.94	99.89	102.33	100.99	105.47	109.29	107.22	109.33	104.94	
G46	102.82	97.69	100.17	98.79	103.35	107.17	105.02	107.26	102.82	
G47	100.66	95.49	97.98	96.55	101.23	105.1	102.66	105.1	100.66	
G48	98.42	93.21	95.7	94.31	98.99	102.82	99.97	102.9	98.42	
G49	96.18	90.97	93.21	92.07	96.75	100.66	97.24	100.74	96.18	
G50	93.91	88.61	90.49	89.67	94.47	98.55	94.43	98.55	93.91	
G51	91.63	86.17	87.8	87.27	92.15	96.31	91.54	96.31	91.63	
G52	89.35	83.81	84.99	84.91	89.79	93.95	88.57	93.95	89.35	
G53	86.99	81.29	82.22	82.47	87.43	91.71	85.56	91.83	86.99	
G54	84.67	79.01	79.29	80.11	85.03	89.39	82.47	89.51	84.67	
G55	82.35	76.4	76.32	77.62	82.75	87.11	79.33	87.11	82.35	
G56	79.9	74.12	73.11	75.18	80.19	84.71	76.16	84.75	79.9	
G57	77.62	71.52	70.22	72.54	77.91	82.3	72.94	82.1	77.62	
G58	75.26	68.75	67.12	69.89	75.38	79.62	69.69	79.45	75.26	
G59	72.9	66.14	63.99	67.2	73.06	77.05	66.35	76.52	72.9	
G60	70.5	63.38	60.85	64.48	70.5	74.33	62.97	73.72	70.5	
G61	68.02	60.57	57.64	61.79	68.06	71.35	59.55	70.87	68.02	
G62	65.53	57.76	54.42	58.82	65.62	68.55	55.93	67.73	65.53	
G63	63.01	54.95	51.17	56.09	63.13	65.45	52.31	64.76	63.01	
G64	60.49	52.18	47.91	53.12	60.85	62.52	48.68	61.75	60.49	
G65	58.04	49.37	44.61	50.27	58.29	59.43	45.22	58.57	58.04	
G66	55.52	46.65	41.36	47.42	55.89	56.46	41.52	55.48	55.52	
G67	53.0	43.84	38.02	44.61	53.44	53.36	37.94	52.35	53.0	
G68	50.39	41.07	34.72	41.76	51.17	50.39	34.35	49.21	50.39	
G69	48.03	38.3	31.34	39.04	48.64	47.38	30.85	46.16	48.03	
G70	45.55	35.58	28.05	36.15	46.2	44.29	27.31	43.11	45.55	
G71	43.15	32.85	24.63	33.3	43.76	41.36	23.93	40.09	43.15	
G72	40.66	30.12	21.33	30.53	41.31	38.51	20.47	37.2	40.66	
G73	38.34	27.48	18.03	27.84	38.91	35.58	17.22	34.27	38.34	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

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: 2023/3/16 14:14:03

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/3/16 14:14:03

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks: