

Report No.:

Test Time: 2020/3/14 12:15:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 24V-2110-700L-2700K
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 200 mm
 Luminous Height: 0 mm

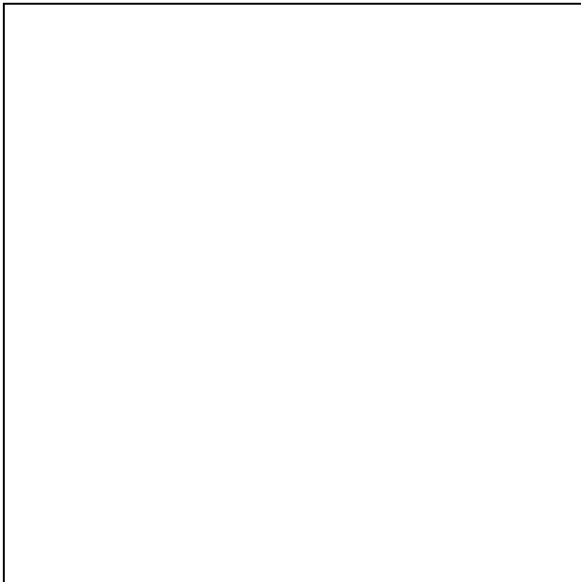
Voltage(V): 24.00 V
 Current(A): 1.0100 A
 Power(W): 24.30 W
 Power Factor: 1.0000
 Lamp Luminous Flux: 2123.87

Photometric Results

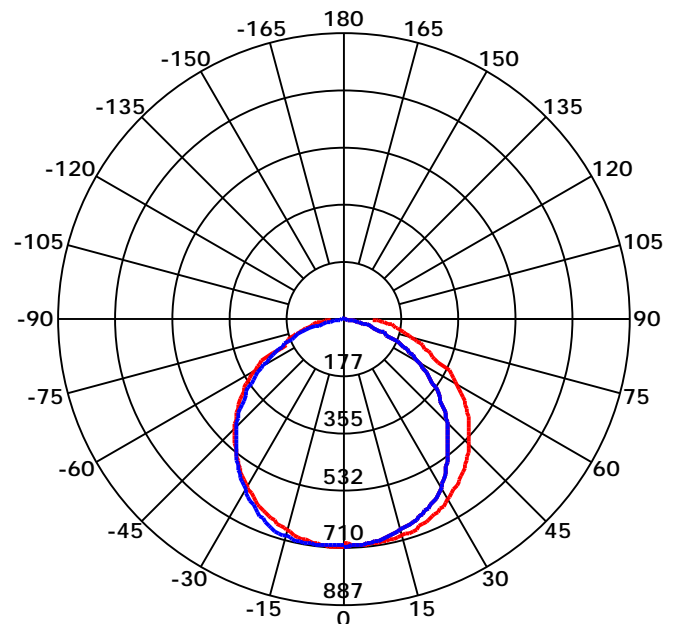
CIE Class: Direct
 Luminaire Luminous Flux: 2123.874
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 87.40 lm/W
 Beam Angle(50%) C0-180,C90-270: 121.0,107.8
 Field Angle(10%) C0-180,C90-270: 82.7,153.0

Max. Intensity: 709.76 cd
 Max.Intensity Angle: C=180 Gamma=0
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 696.77 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 107.8 deg

C0-180 — C90-270 —

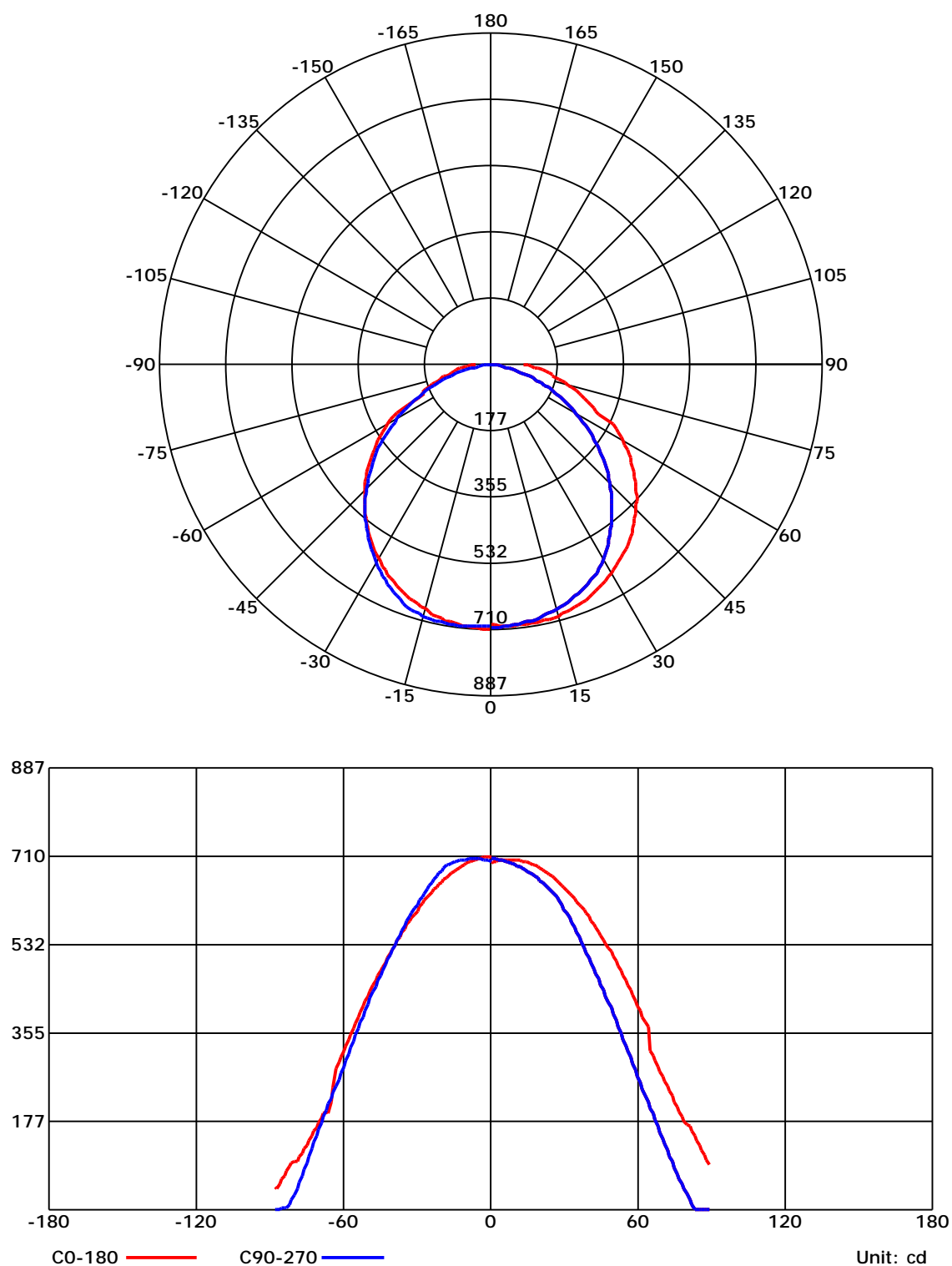
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.35
 Operators:
 Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1.1
 Test Distance: 6.35 m
 Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

Luminous Intensity Distribution Curve



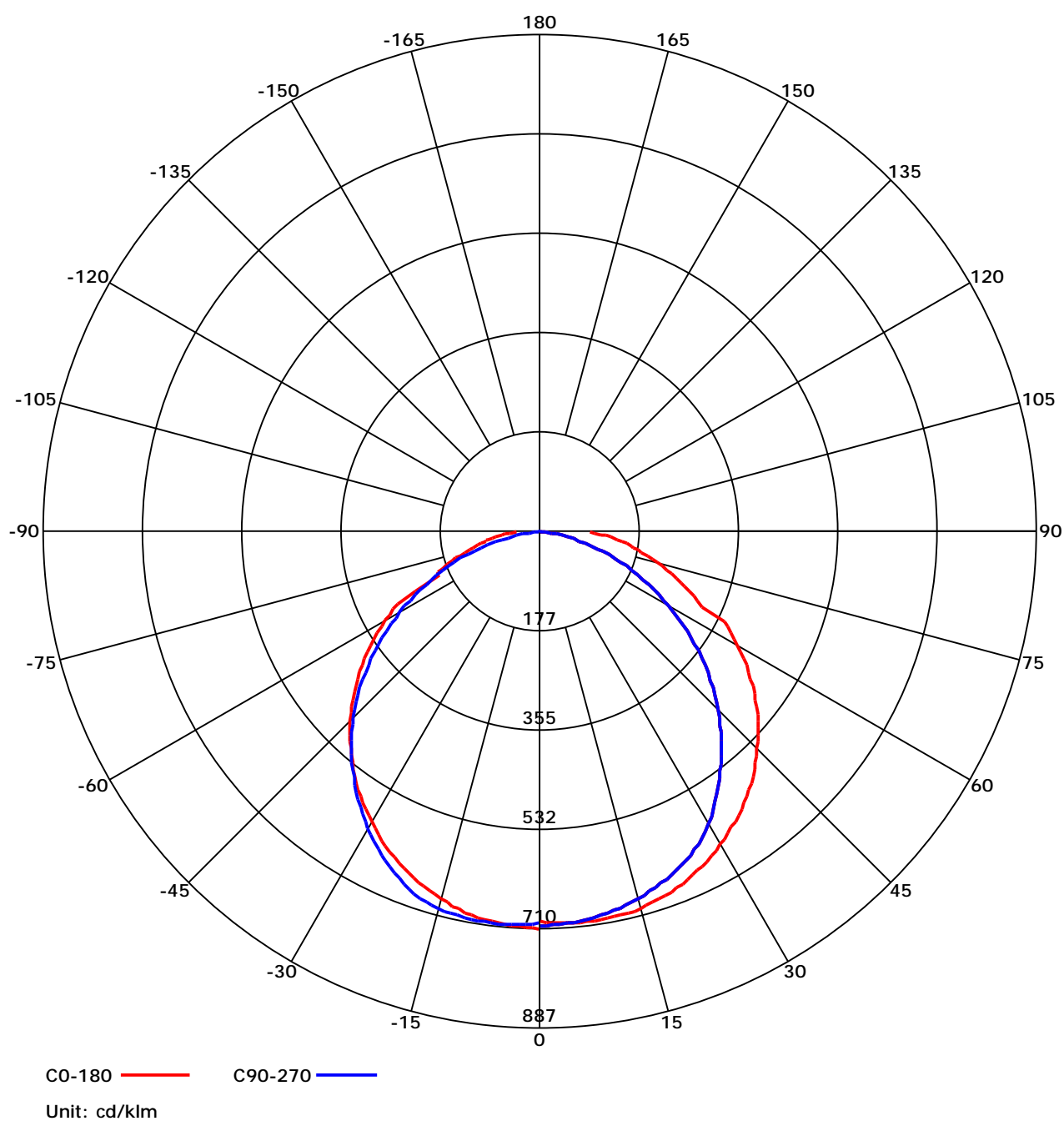
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.35
Operators:
Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1.1
Test Distance: 6.35 m
Remarks:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.35
Operators:
Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1.1
Test Distance: 6.35 m
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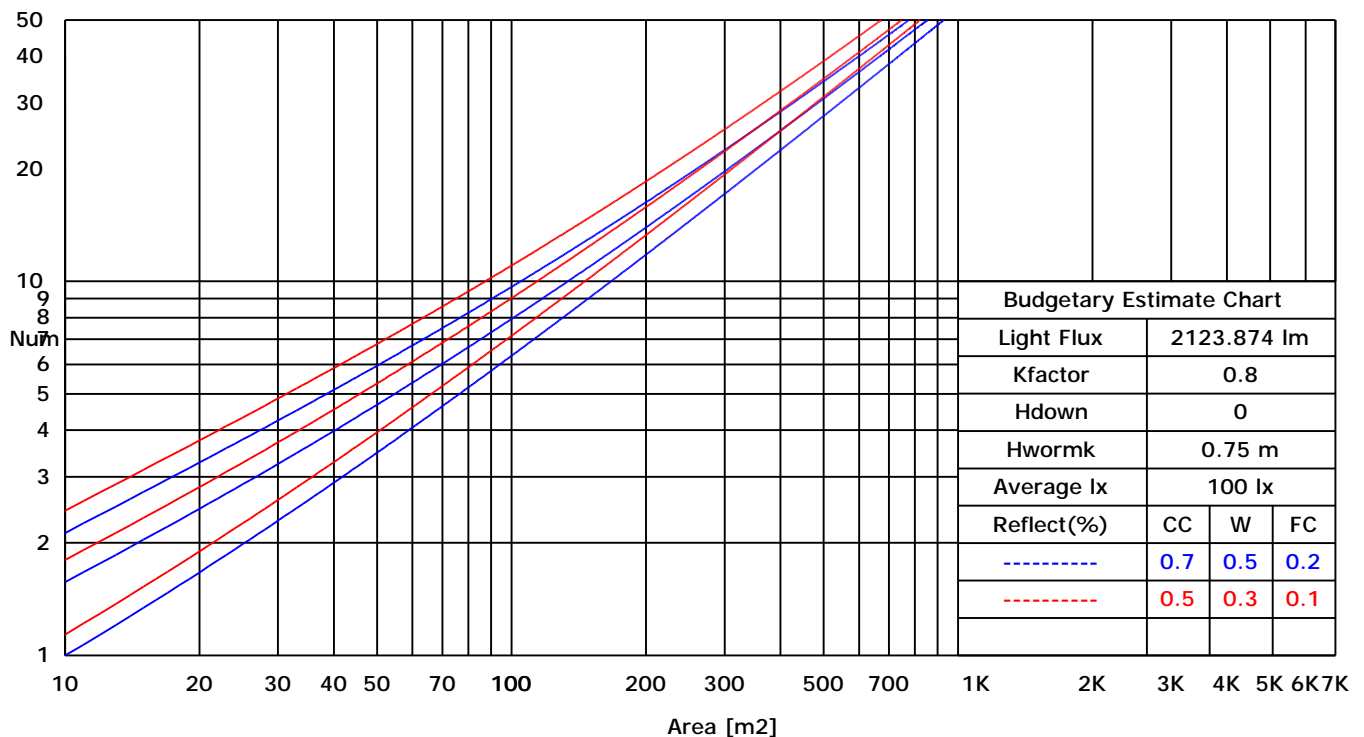
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UTILIZATION FACTORS TABLE

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	1.03	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	0.90	0.88	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	0.64	0.63	0.67	0.64	0.62	0.66	0.62	0.59	0.65	0.60	0.56	0.63	0.57	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	0.58	0.53	0.48	0.44
7	0.55	0.53	0.52	0.56	0.53	0.51	0.56	0.51	0.48	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	0.44	0.51	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	0.41	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: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

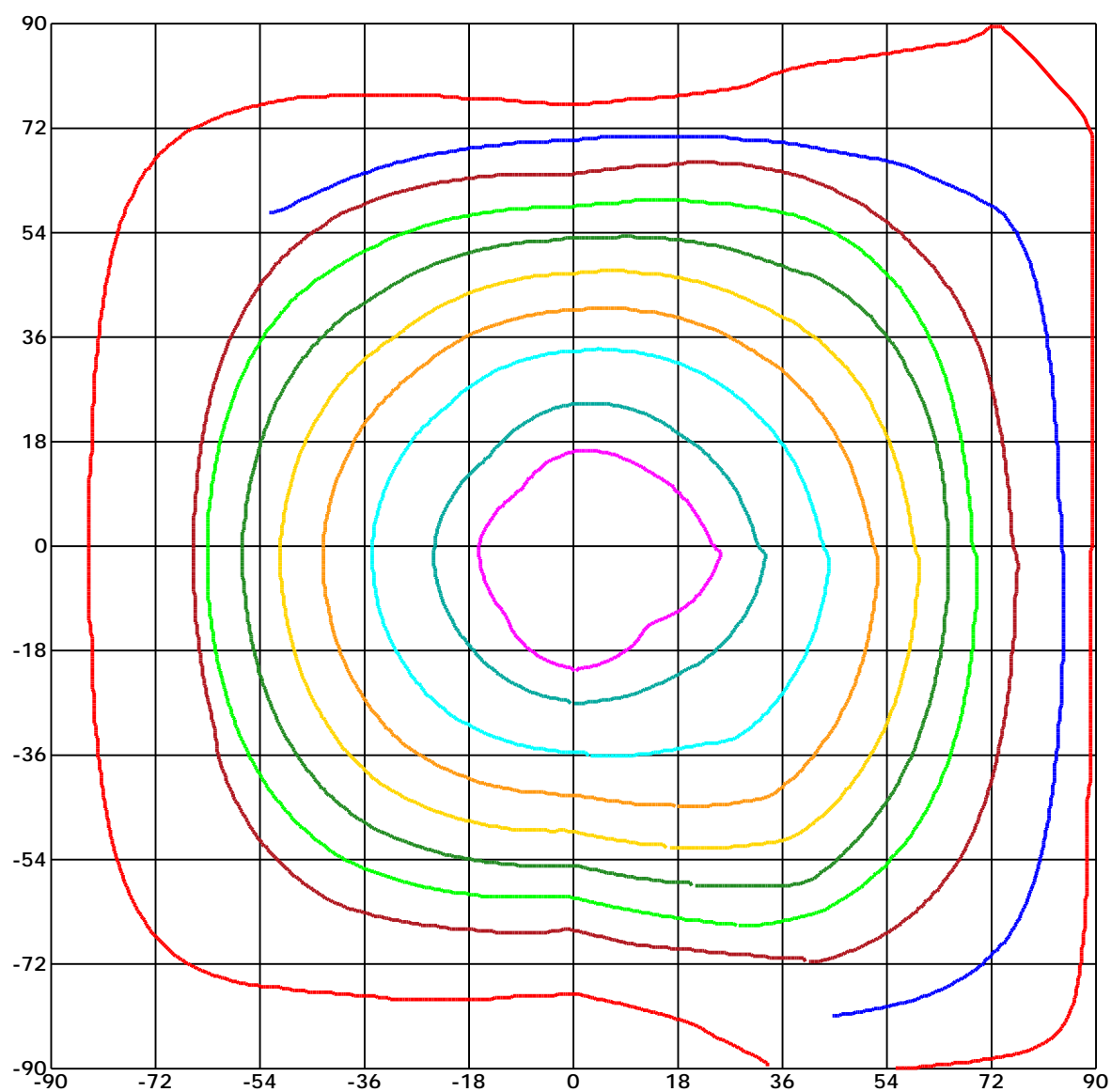
Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

ISOCANDELA DIAGRAM (RECTANGULAR)

Unit of intensity:cd $I_{max}(100\%)$: 709.765 cd674.277(95% I_{max})354.882(50% I_{max})638.788(90% I_{max})283.906(40% I_{max})567.812(80% I_{max})212.929(30% I_{max})496.835(70% I_{max})141.953(20% I_{max})425.859(60% I_{max})70.976(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

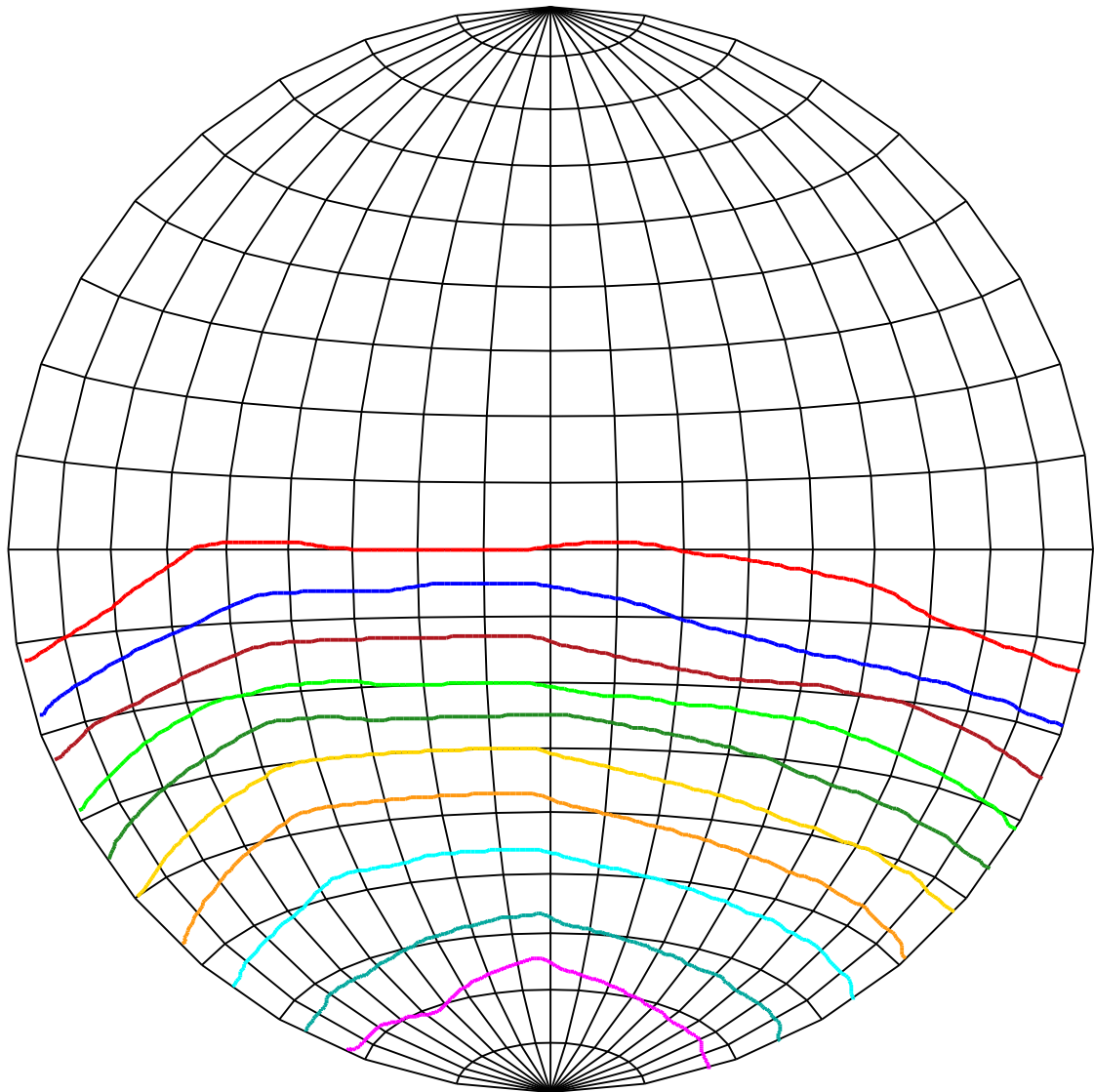
Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 709.765 cd

674.277(95%Imax)

354.882(50%Imax)

638.788(90%Imax)

283.906(40%Imax)

567.812(80%Imax)

212.929(30%Imax)

496.835(70%Imax)

141.953(20%Imax)

425.859(60%Imax)

70.976(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

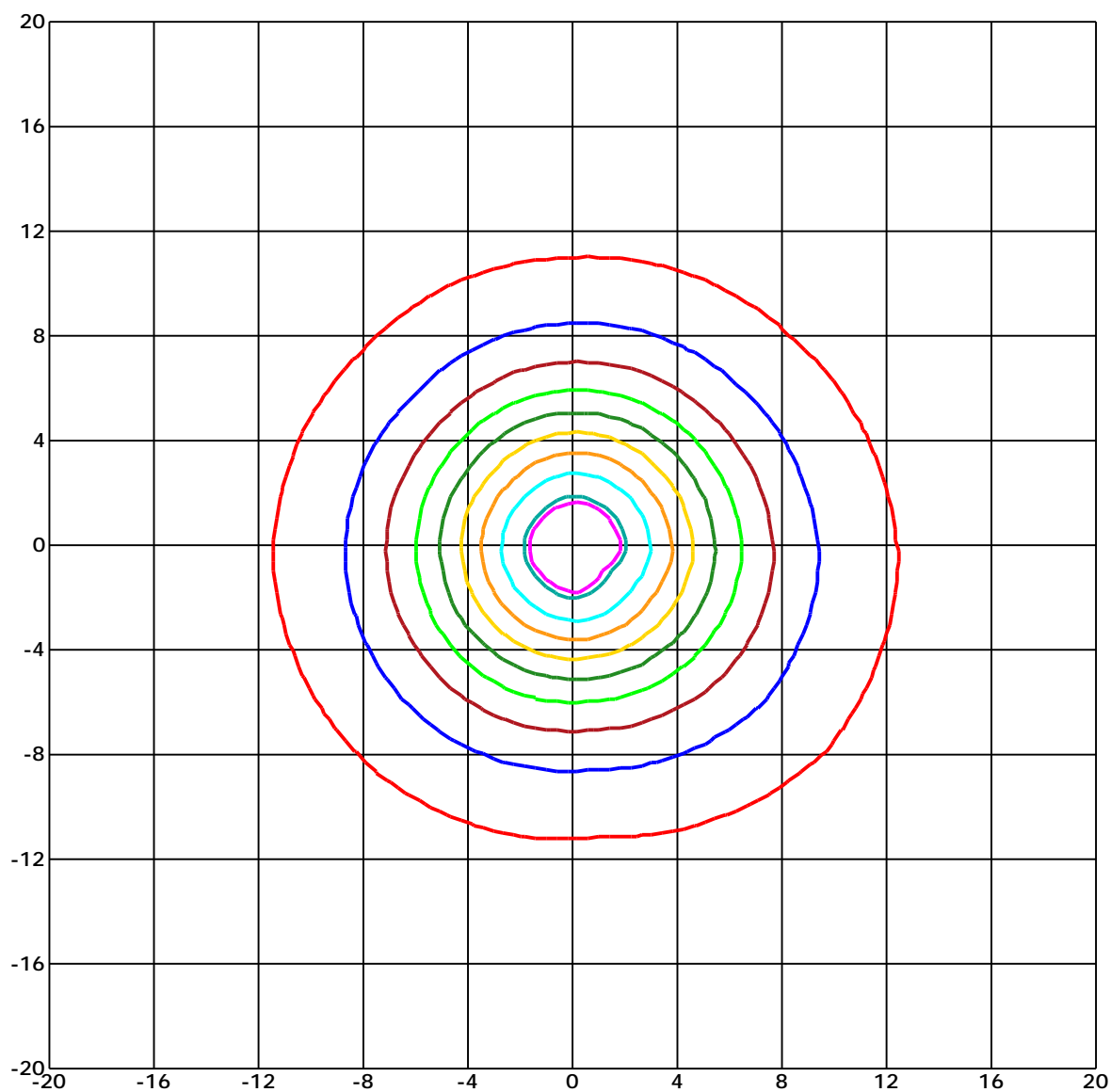
Test Distance: 6.35 m

Remarks:

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ISOLX DIAGRAM



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

10.203(1%E _{max})	5.545(1%E _{max})
9.981(1%E _{max})	4.436(1%E _{max})
8.872(1%E _{max})	3.327(0%E _{max})
7.763(1%E _{max})	2.218(0%E _{max})
6.654(1%E _{max})	1.109(0%E _{max})

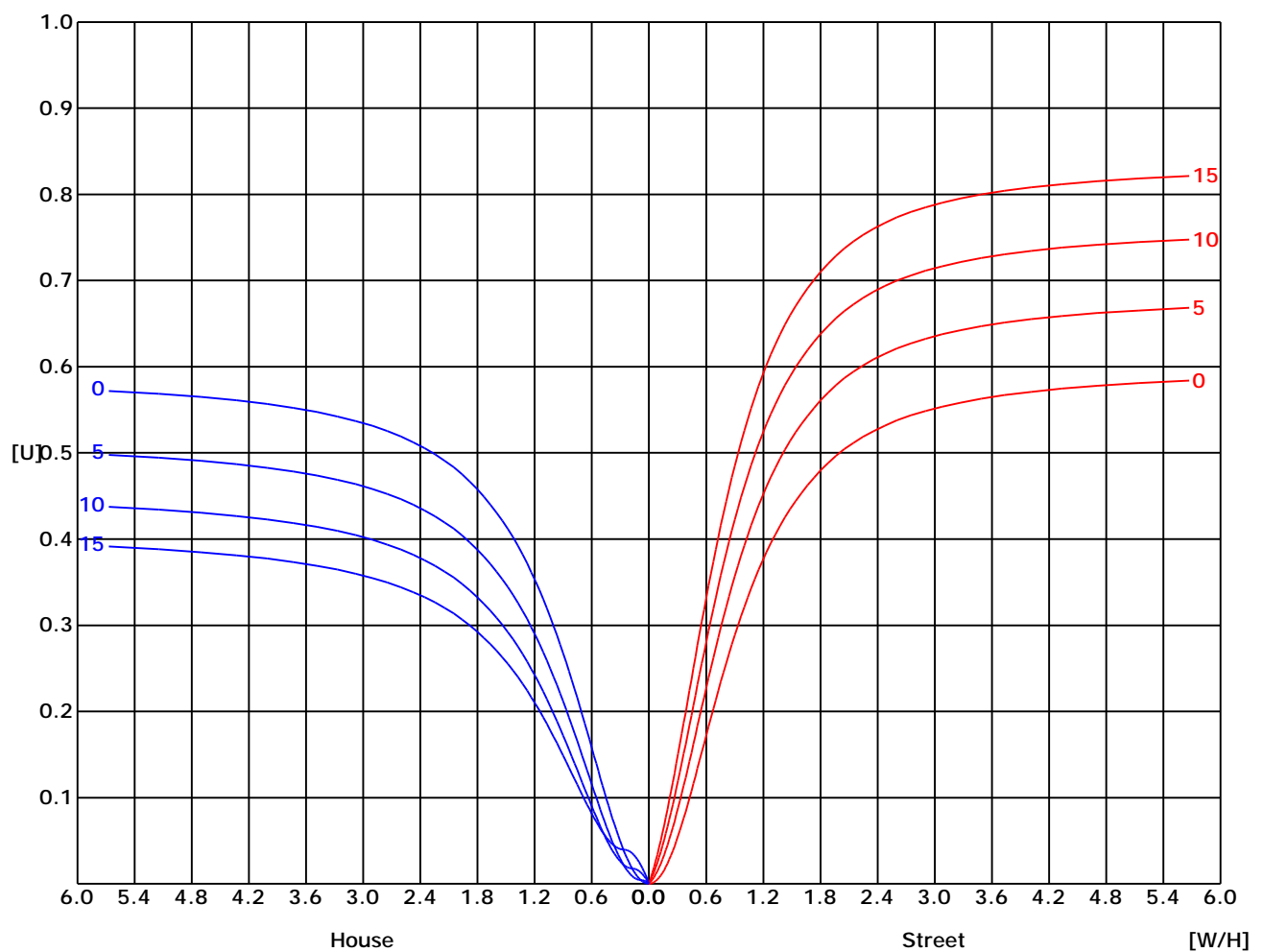
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.35
 Operators:
 Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1.1
 Test Distance: 6.35 m
 Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.35
Operators:
Test Date: 2020/3/14 12:15:40

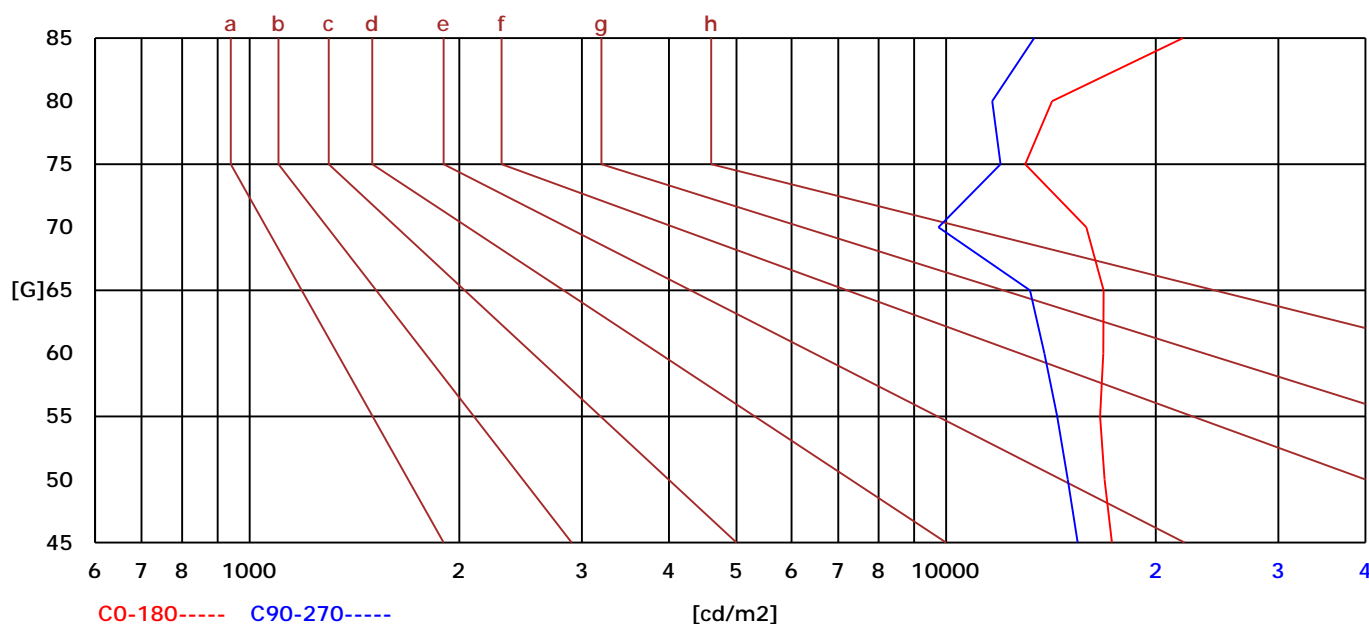
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1.1
Test Distance: 6.35 m
Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17299	16887	16641	16815	16837	15893	12982	14189	21883
C90	15454	14948	14434	13839	13192	9746	11970	11648	13384
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



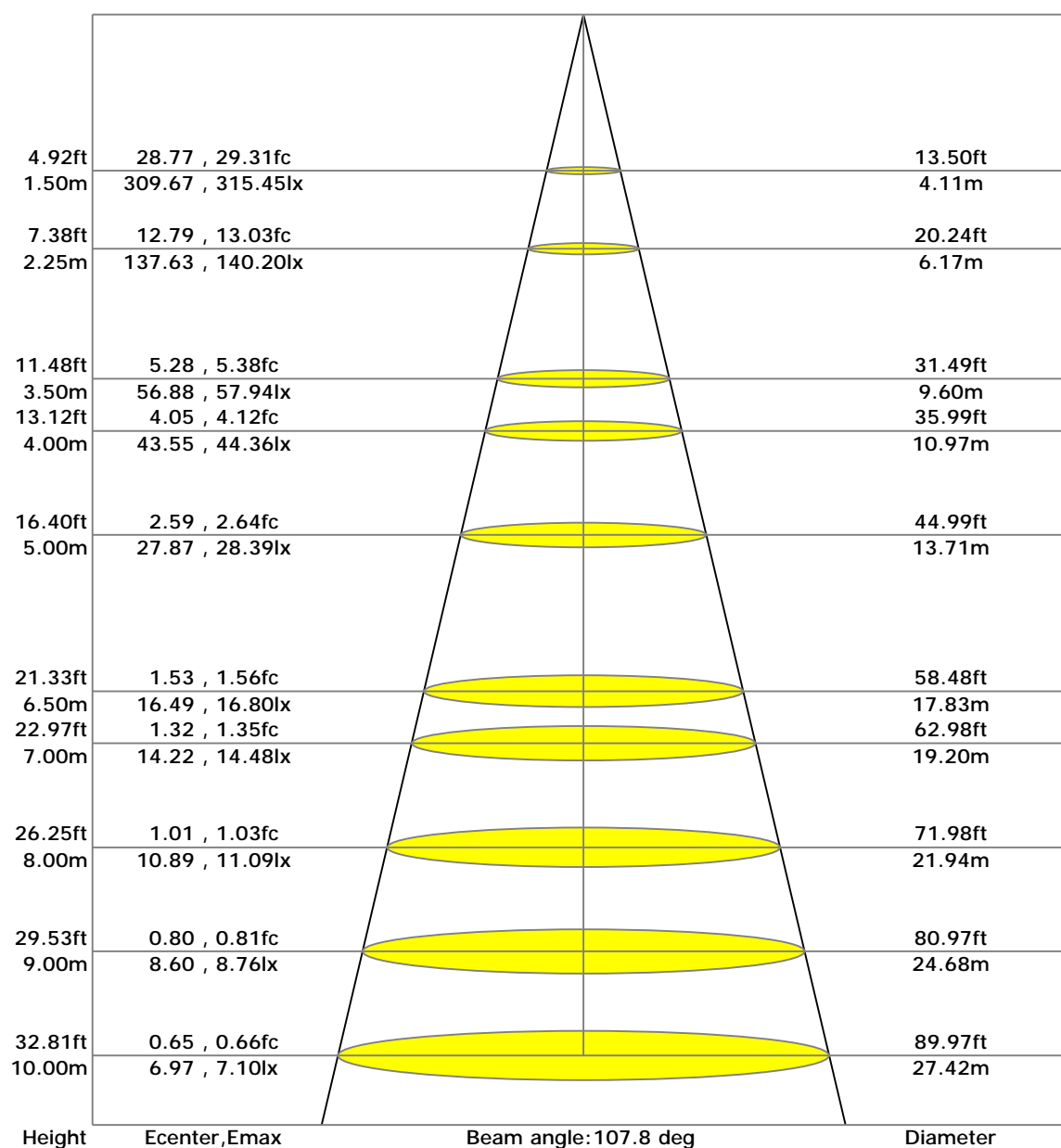
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.35
 Operators:
 Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1.1
 Test Distance: 6.35 m
 Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

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	19.92	20.00	20.12	20.19	20.43	19.04	19.12	19.24	19.30	19.55
3H	20.01	20.09	20.22	20.28	20.53	19.24	19.32	19.45	19.51	19.76
4H	20.01	20.08	20.22	20.28	20.53	19.28	19.35	19.49	19.55	19.80
6H	19.98	20.05	20.20	20.26	20.51	19.28	19.35	19.49	19.55	19.80
8H	19.97	20.04	20.19	20.24	20.50	19.26	19.33	19.48	19.53	19.79
12H	19.95	20.02	20.17	20.23	20.48	19.24	19.31	19.47	19.52	19.77
4H 2H	22.94	23.02	23.16	23.22	23.47	21.06	21.13	21.27	21.33	21.58
3H	23.15	23.22	23.38	23.43	23.69	21.41	21.48	21.63	21.68	21.94
4H	23.19	23.25	23.42	23.47	23.73	21.52	21.58	21.75	21.80	22.05
6H	23.18	23.24	23.42	23.46	23.73	21.60	21.66	21.83	21.88	22.14
8H	23.17	23.23	23.41	23.45	23.72	21.62	21.68	21.87	21.91	22.17
12H	23.15	23.20	23.40	23.43	23.70	21.62	21.68	21.87	21.91	22.18
8H 4H	24.35	24.42	24.57	24.62	24.88	21.31	21.38	21.53	21.58	21.84
6H	25.06	25.11	25.31	25.35	25.62	22.25	22.30	22.50	22.54	22.81
8H	25.08	25.13	25.34	25.37	25.65	22.39	22.43	22.65	22.68	22.96
12H	25.08	25.12	25.35	25.38	25.66	22.50	22.54	22.76	22.79	23.07
12H 4H	25.65	25.70	25.90	25.94	26.21	22.03	22.09	22.28	22.32	22.59
6H	25.87	25.92	26.13	26.16	26.44	22.36	22.41	22.63	22.66	22.93

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

Test Distance: 6.35 m

Remarks:

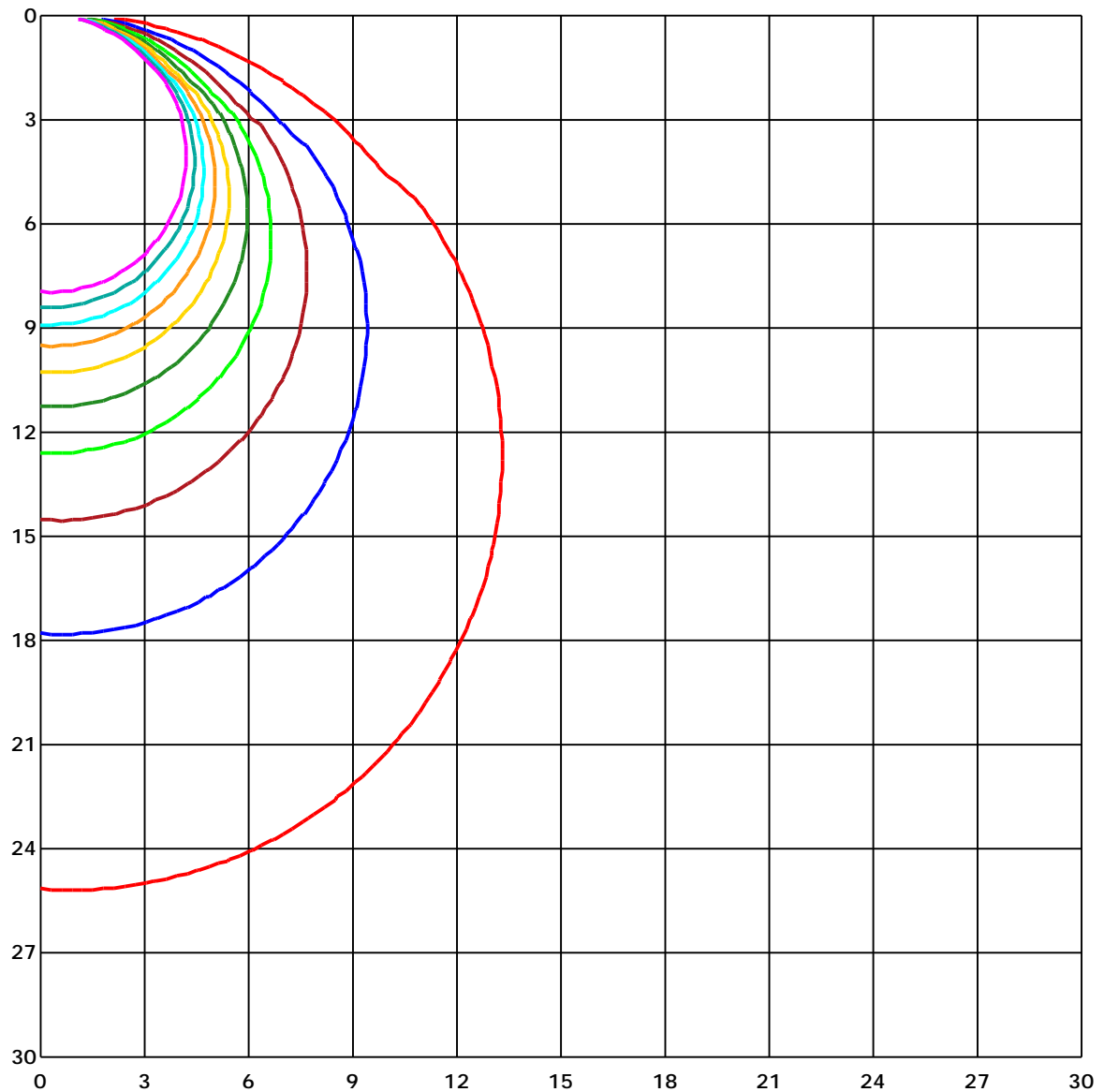
[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1.1
Test Distance: 6.35 m
Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

SPACE ISOLX DIAGRAM



Unit of illumination: lx

11.002

9.902

8.802

7.701

6.601

5.501

4.401

3.301

2.2

1.1

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	696.77	702.31	704.93	706.39	709.76	705.99	700.27	674.15	701.87	
G1	698.28	702.31	704.58	705.2	709.06	705.68	701.43	675.66	703.51	
G2	699.47	702.27	704.13	703.82	708.17	705.24	702.67	677.39	704.93	
G3	700.89	702.09	703.47	702.14	707.15	704.89	703.56	679.03	706.17	
G4	701.47	701.96	702.53	700.27	706.35	704.31	704.22	680.22	707.24	
G5	701.96	701.43	701.51	698.45	705.02	703.11	704.66	681.47	708.7	
G6	702.31	700.89	700.18	696.28	703.47	702.45	704.97	681.69	708.83	
G7	702.58	700.01	698.76	693.89	701.87	701.12	705.02	682.66	708.74	
G8	702.67	698.76	696.9	691.36	699.96	699.03	704.44	684.26	708.88	
G9	702.53	697.08	695.08	688.25	698.06	696.77	704.26	684.04	708.43	
G10	702.45	695.48	692.95	685.19	696.77	694.28	703.6	683.02	708.3	
G11	701.83	693.62	690.56	681.73	693.93	691.89	702.89	682.49	707.99	
G12	701.25	691.53	688.08	678.27	690.2	688.39	701.78	682.0	707.64	
G13	700.27	689.18	685.41	674.68	687.28	685.1	700.49	680.31	707.01	
G14	699.16	686.7	682.49	670.69	682.66	681.82	699.16	679.74	705.95	
G15	697.26	683.91	679.29	666.92	678.54	678.67	697.52	678.67	704.4	
G16	695.31	680.98	676.1	662.88	674.9	675.39	695.7	677.61	702.85	
G17	693.13	677.92	672.55	658.31	670.87	671.97	693.66	676.14	701.47	
G18	691.09	674.72	669.0	653.57	666.7	668.78	691.4	674.64	698.81	
G19	688.52	671.18	665.14	648.69	662.79	664.97	685.99	672.46	696.19	
G20	686.03	667.45	661.11	643.81	658.49	660.09	680.8	669.71	693.89	
G21	682.84	663.59	657.03	638.66	653.66	655.7	674.72	666.92	691.05	
G22	680.09	659.56	652.59	633.12	648.91	651.48	669.0	664.12	688.12	
G23	676.5	655.21	647.85	627.66	643.5	646.34	662.75	661.06	684.84	
G24	672.86	650.42	643.23	621.72	638.13	641.46	656.27	656.41	681.29	
G25	669.14	645.67	638.22	615.51	632.63	635.96	649.97	652.15	677.43	
G26	665.37	640.48	632.9	609.17	626.51	629.97	643.19	647.09	673.79	
G27	661.42	635.34	627.26	602.78	620.26	624.03	635.87	643.59	669.4	
G28	656.54	629.75	620.74	595.99	613.65	618.26	628.11	640.17	665.19	
G29	651.57	624.07	612.18	589.21	607.39	611.56	620.57	637.07	660.93	
G30	646.38	618.08	603.36	582.11	600.43	604.24	612.63	633.47	655.87	
G31	641.19	612.05	594.66	574.97	593.51	597.37	604.47	629.17	650.68	
G32	635.87	605.84	585.31	567.65	586.64	590.67	596.22	625.36	645.18	
G33	630.24	599.37	575.64	560.07	579.49	583.58	587.79	621.06	639.68	
G34	624.74	592.8	566.19	552.48	571.78	576.3	578.83	615.02	633.96	
G35	619.55	584.6	556.65	543.92	564.02	568.98	569.47	608.19	627.97	
G36	613.51	576.08	546.94	534.03	556.21	561.44	560.47	602.12	621.94	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:15:40

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	607.57	566.9	536.83	523.83	547.83	553.72	551.24	594.97	615.87	
G38	601.18	557.89	526.49	513.54	539.75	545.56	541.35	587.52	610.63	
G39	594.93	548.76	515.98	503.16	531.37	537.18	531.95	581.76	604.07	
G40	588.28	539.04	505.78	492.6	522.81	528.44	521.97	577.99	597.99	
G41	580.07	529.37	495.22	481.96	514.34	519.97	511.99	575.86	590.41	
G42	572.93	519.7	484.4	470.69	505.69	510.83	501.96	569.34	582.51	
G43	565.39	509.72	473.8	459.96	496.86	502.01	491.85	563.31	575.1	
G44	557.76	499.7	462.53	448.78	487.68	493.05	481.2	558.12	567.39	
G45	550.04	489.28	451.97	437.12	478.54	483.51	470.56	552.88	559.58	
G46	542.06	478.85	440.62	425.63	469.01	474.11	459.29	546.72	551.55	
G47	534.03	468.03	428.73	415.25	459.2	464.97	447.85	540.99	543.3	
G48	525.74	456.68	416.93	404.2	449.4	454.19	436.81	535.54	535.1	
G49	517.31	445.54	405.54	394.09	439.69	443.64	425.1	528.84	526.71	
G50	508.35	434.19	393.16	384.33	429.09	432.95	412.9	520.19	517.66	
G51	499.04	424.65	380.7	374.04	418.49	422.66	400.79	512.08	508.44	
G52	489.68	414.76	368.06	363.62	407.75	412.14	388.24	503.25	499.3	
G53	480.5	404.25	355.81	352.75	397.11	399.99	376.44	493.31	489.72	
G54	470.6	392.81	342.86	341.89	386.02	388.33	363.93	483.2	479.96	
G55	460.67	381.81	330.31	331.15	374.93	377.24	351.51	473.35	470.03	
G56	450.47	370.63	317.54	320.37	363.62	365.53	338.6	463.24	459.96	
G57	440.66	360.12	304.89	309.68	352.4	353.51	325.96	452.82	449.85	
G58	430.33	351.07	292.12	298.77	341.18	341.62	313.1	442.26	439.56	
G59	419.91	346.94	279.52	287.82	329.6	329.96	300.24	431.75	429.13	
G60	409.44	336.3	266.88	276.77	318.29	317.76	287.46	421.1	418.62	
G61	398.88	326.05	254.24	266.08	306.85	305.78	275.04	410.28	407.98	
G62	387.84	315.63	241.51	255.26	295.23	293.85	262.4	399.37	396.89	
G63	377.02	305.52	229.05	244.48	283.69	281.87	249.81	388.81	386.15	
G64	366.37	295.09	216.85	233.66	245.1	270.21	236.72	377.9	375.55	
G65	320.33	284.62	204.34	223.02	215.12	258.32	223.59	366.55	327.65	
G66	308.71	274.07	192.01	204.7	194.76	246.48	211.35	355.5	316.43	
G67	298.51	263.42	179.77	191.44	198.0	234.73	199.42	344.28	305.96	
G68	288.39	252.64	167.53	182.16	194.41	223.06	186.82	332.35	296.02	
G69	278.55	241.6	155.64	152.05	185.0	211.04	174.45	320.15	286.22	
G70	268.57	217.43	143.31	133.33	175.51	199.24	161.54	288.71	276.02	
G71	258.28	181.81	131.16	132.49	165.98	174.0	148.37	274.6	265.73	
G72	248.16	165.93	119.71	140.78	156.75	162.91	135.24	263.6	255.66	
G73	237.83	156.79	107.96	132.0	147.97	152.14	122.02	252.29	245.46	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:15:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.1

Test Distance: 6.35 m

Remarks:

[illegible]

Remarks: