

Report No.:

Test Time: 2020/3/14 12:50:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 24V-2110-700L-4000K
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

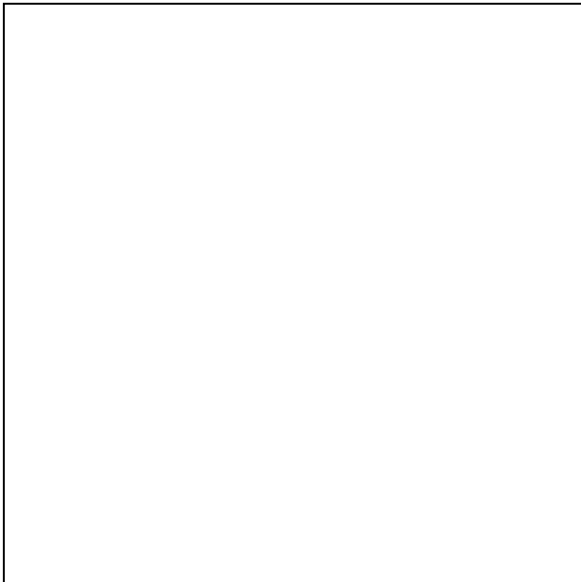
Voltage(V): 24.00 V
 Current(A): 1.0000 A
 Power(W): 24.00 W
 Power Factor: 1.0000
 Lamp Luminous Flux: 2304.13

Photometric Results

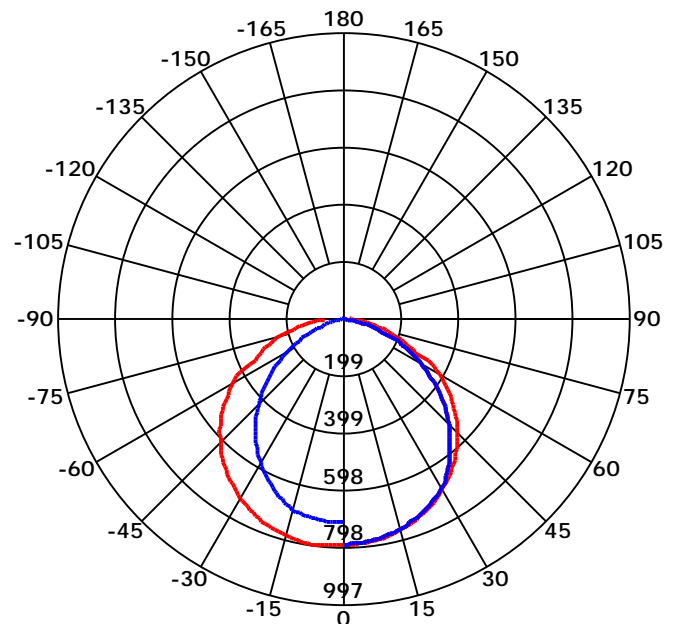
CIE Class: Direct
 Luminaire Luminous Flux: 2304.128
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 96.01 lm/W
 Beam Angle(50%) C0-180,C90-270: 122.1,100.7
 Field Angle(10%) C0-180,C90-270: 169.5,148.2

Max. Intensity: 797.94 cd
 Max.Intensity Angle: C=225 Gamma=6
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 787.57 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 100.7 deg

C0-180 ——— C90-270 ———

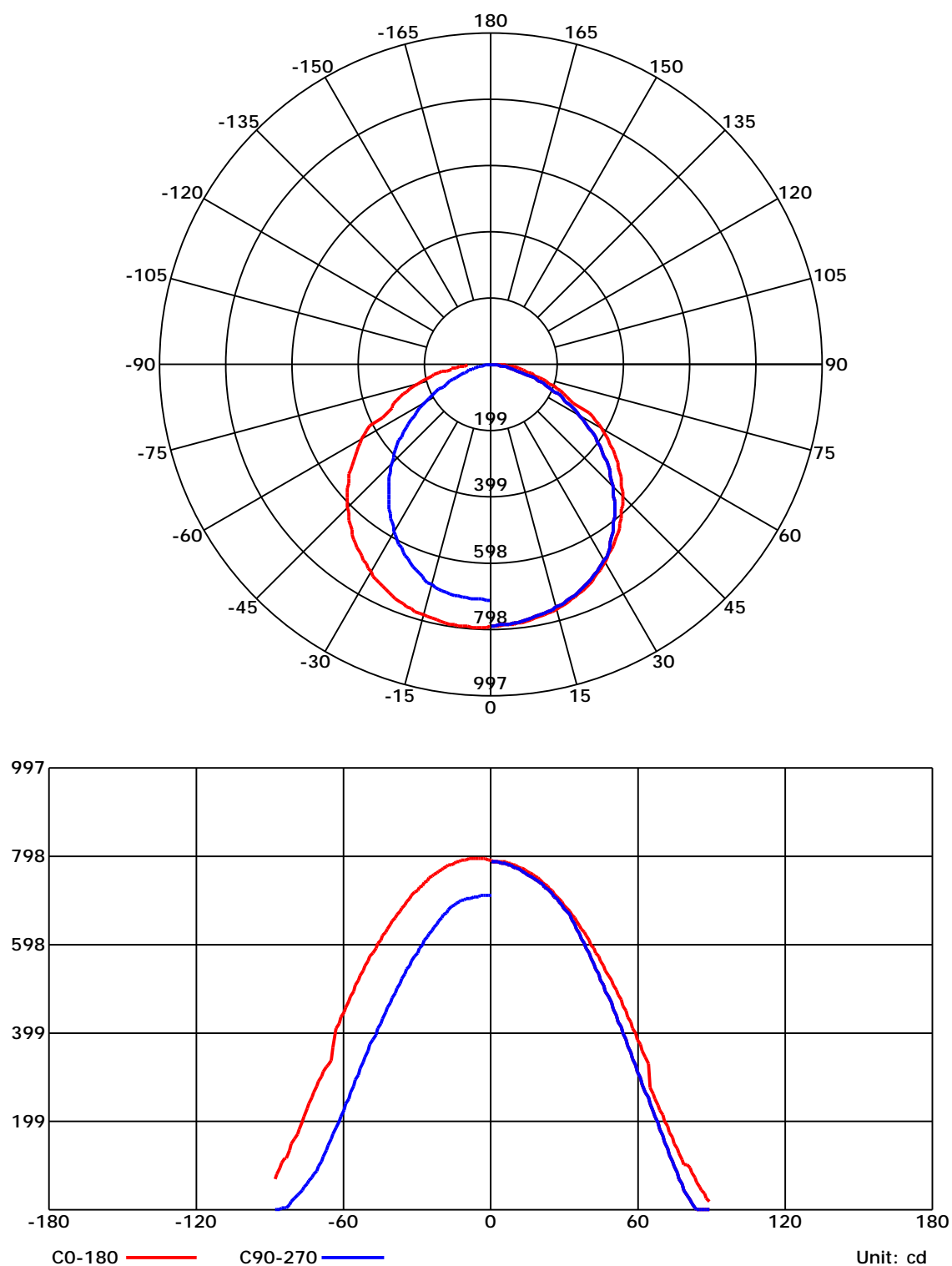
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.35
 Operators:
 Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1.08
 Test Distance: 6.35 m
 Remarks:

Report No.:

Test Time: 2020/3/14 12:50:26

Luminous Intensity Distribution Curve



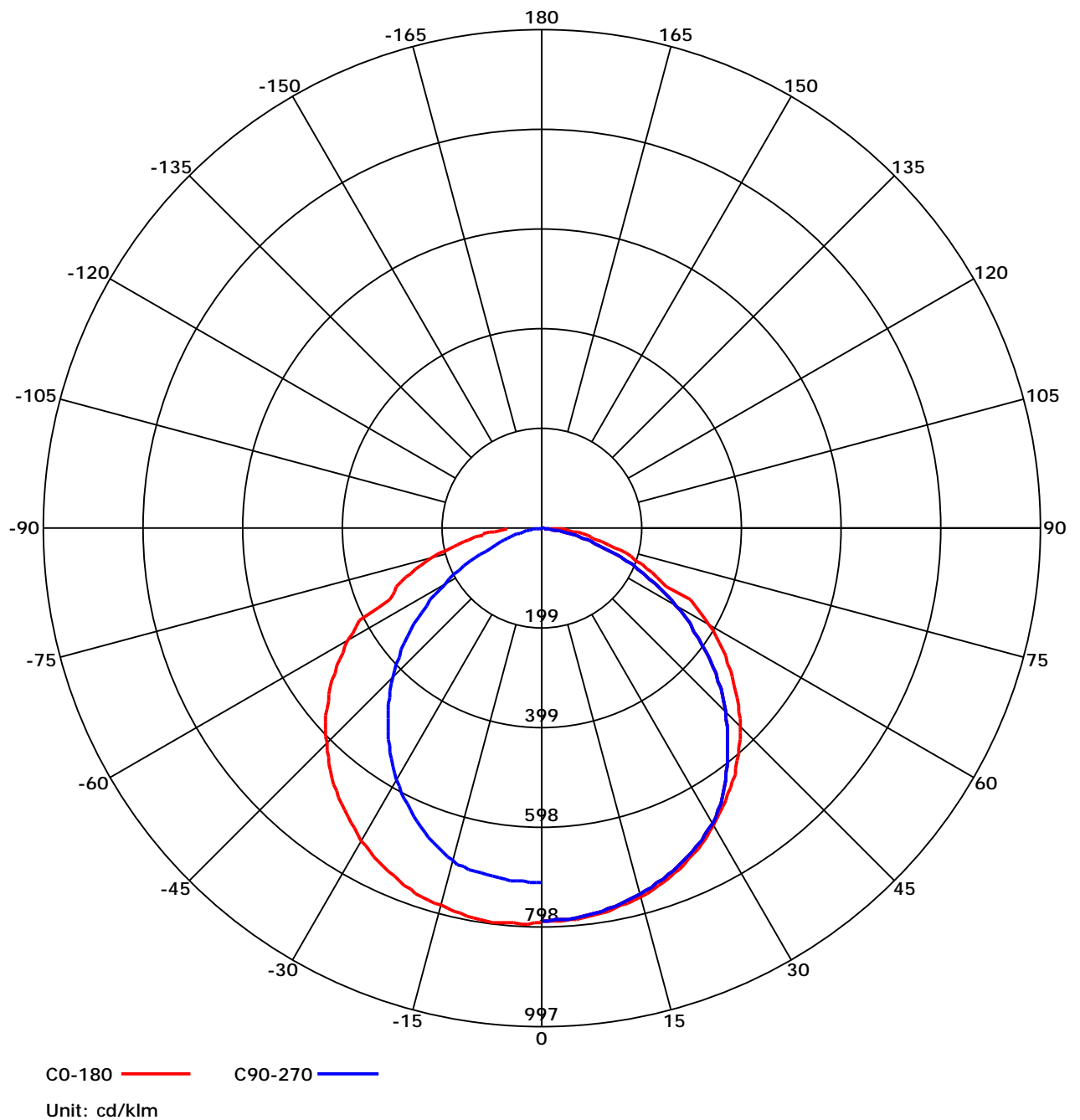
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.35
Operators:
Test Date: 2020/3/14 12:50:26

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Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1.08
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
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Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg
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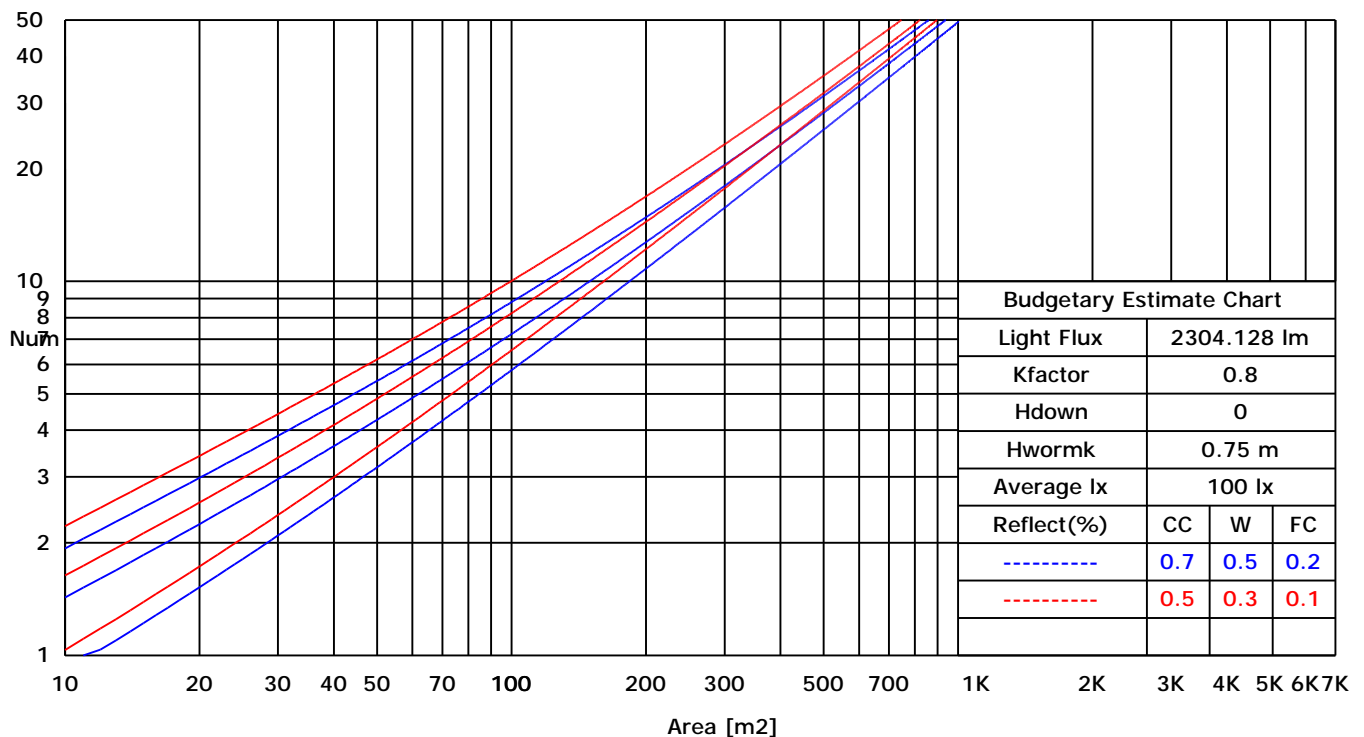
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UTILIZATION FACTORS TABLE

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	1.07	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.94	0.93	0.90	0.88	0.86	0.81
2	0.95	0.92	0.91	0.94	0.91	0.89	0.91	0.88	0.85	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	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
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	0.55
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	0.58	0.56	0.61	0.57	0.54	0.60	0.55	0.51	0.59	0.53	0.49	0.45
7	0.56	0.54	0.52	0.56	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	0.45	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: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

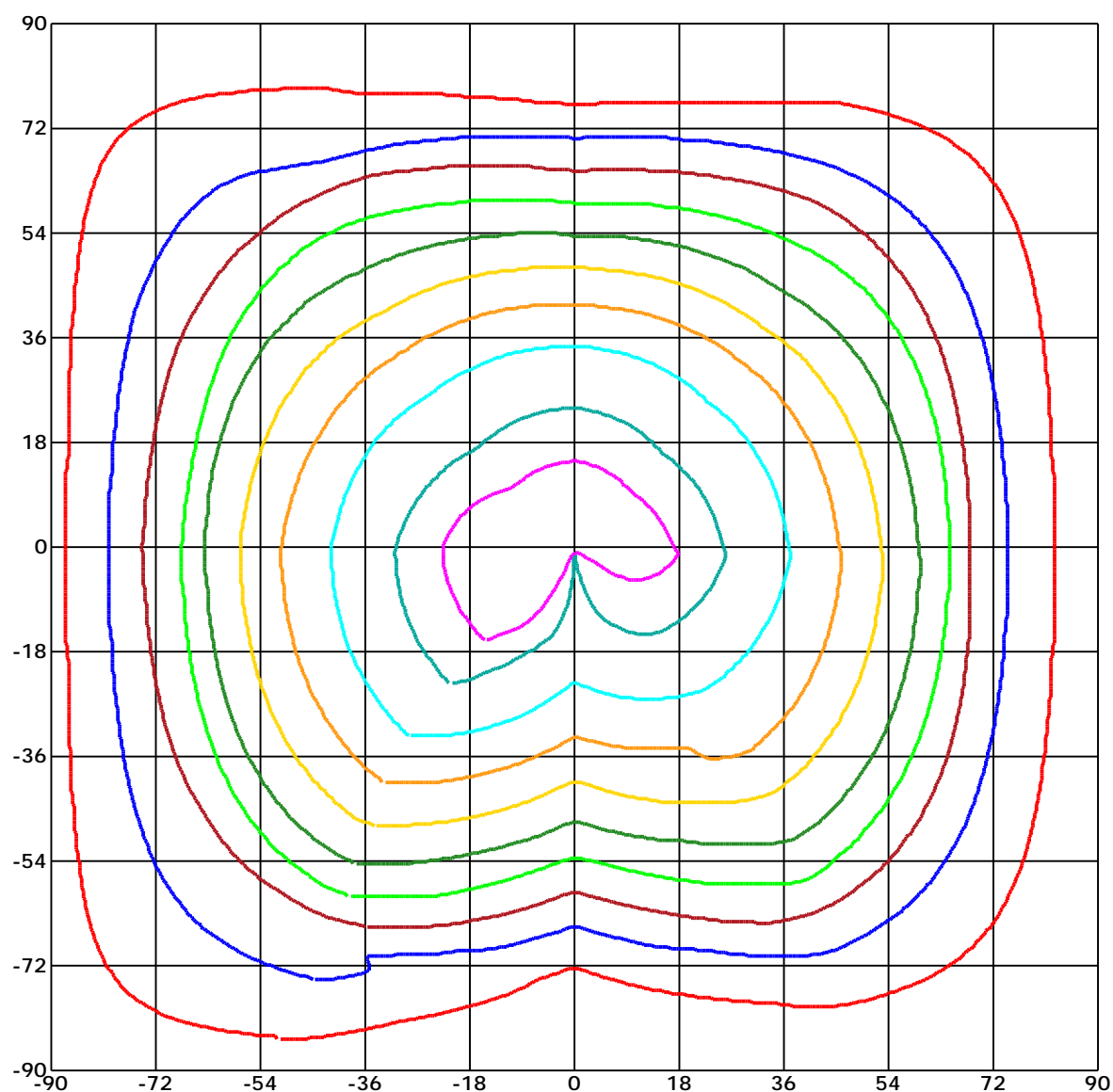
Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:50:26

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 797.936 cd

758.039(95%Imax)

398.968(50%Imax)

718.142(90%Imax)

319.174(40%Imax)

638.348(80%Imax)

239.381(30%Imax)

558.555(70%Imax)

159.587(20%Imax)

478.761(60%Imax)

79.794(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

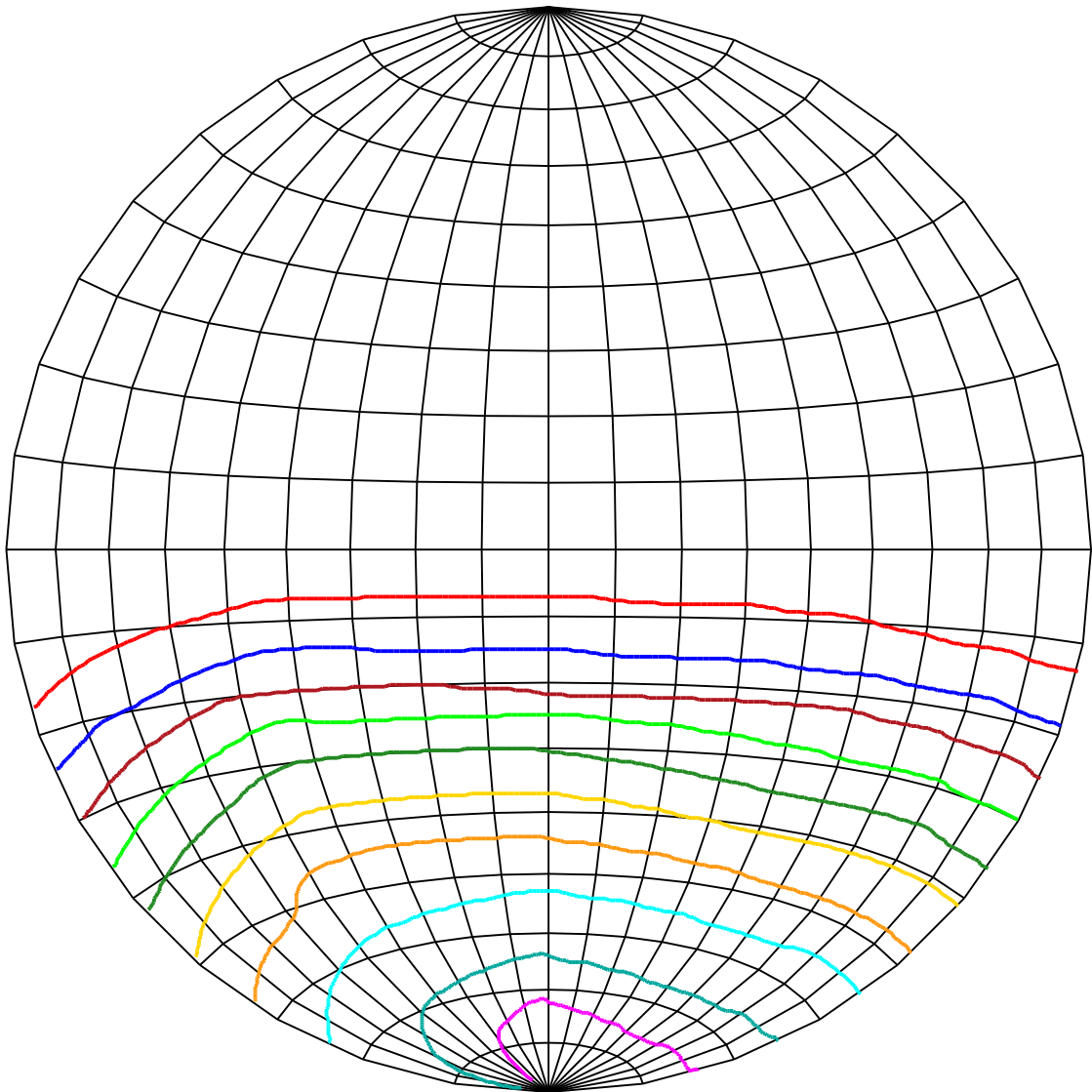
Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:50:26

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 797.936 cd

758.039(95%Imax)

398.968(50%Imax)

718.142(90%Imax)

319.174(40%Imax)

638.348(80%Imax)

239.381(30%Imax)

558.555(70%Imax)

159.587(20%Imax)

478.761(60%Imax)

79.794(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

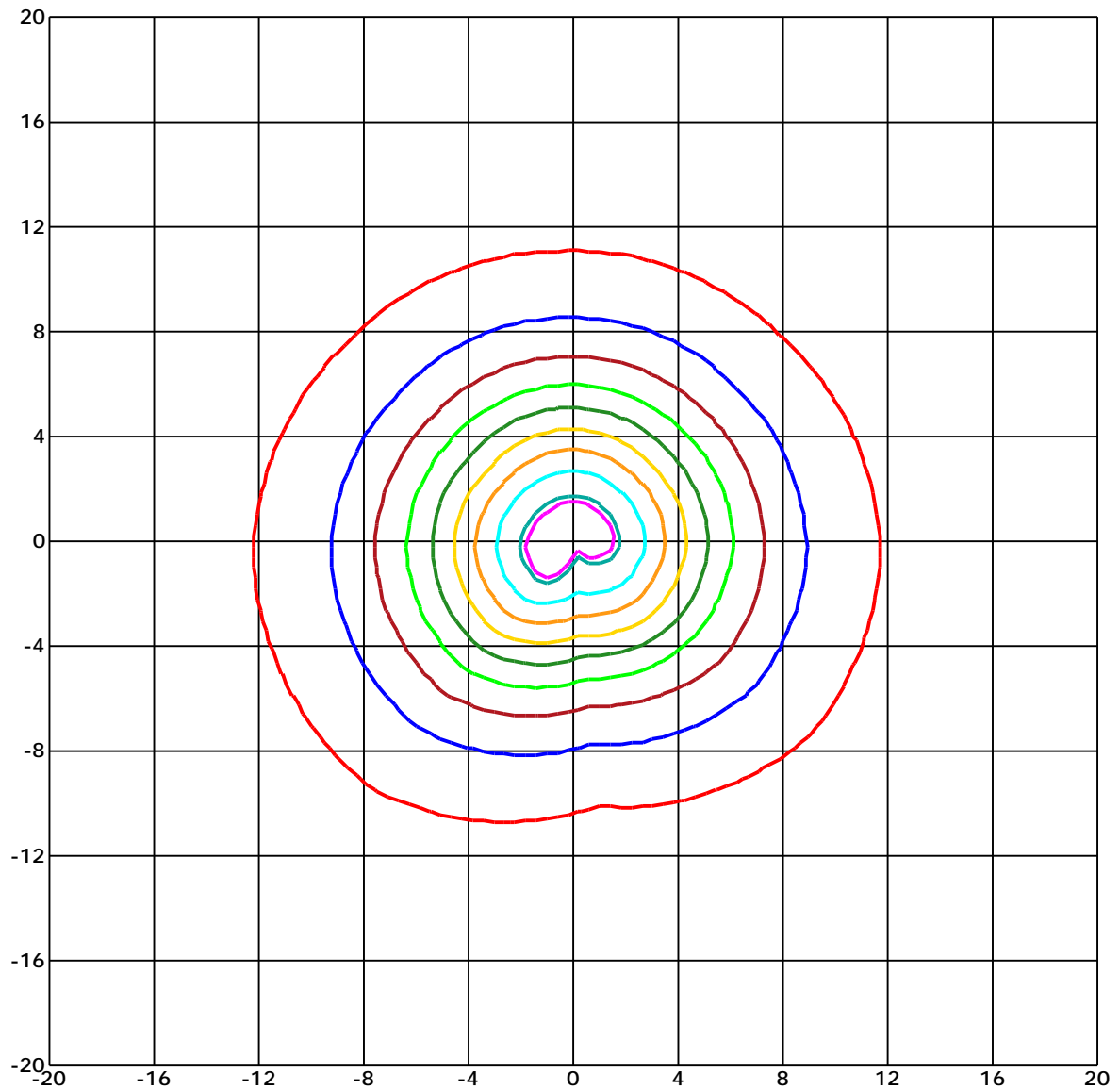
Test Distance: 6.35 m

Remarks:

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ISOLX DIAGRAM



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

11.413(1%Emax)	6.202(1%Emax)
11.164(1%Emax)	4.962(1%Emax)
9.924(1%Emax)	3.721(0%Emax)
8.683(1%Emax)	2.481(0%Emax)
7.443(1%Emax)	1.24(0%Emax)

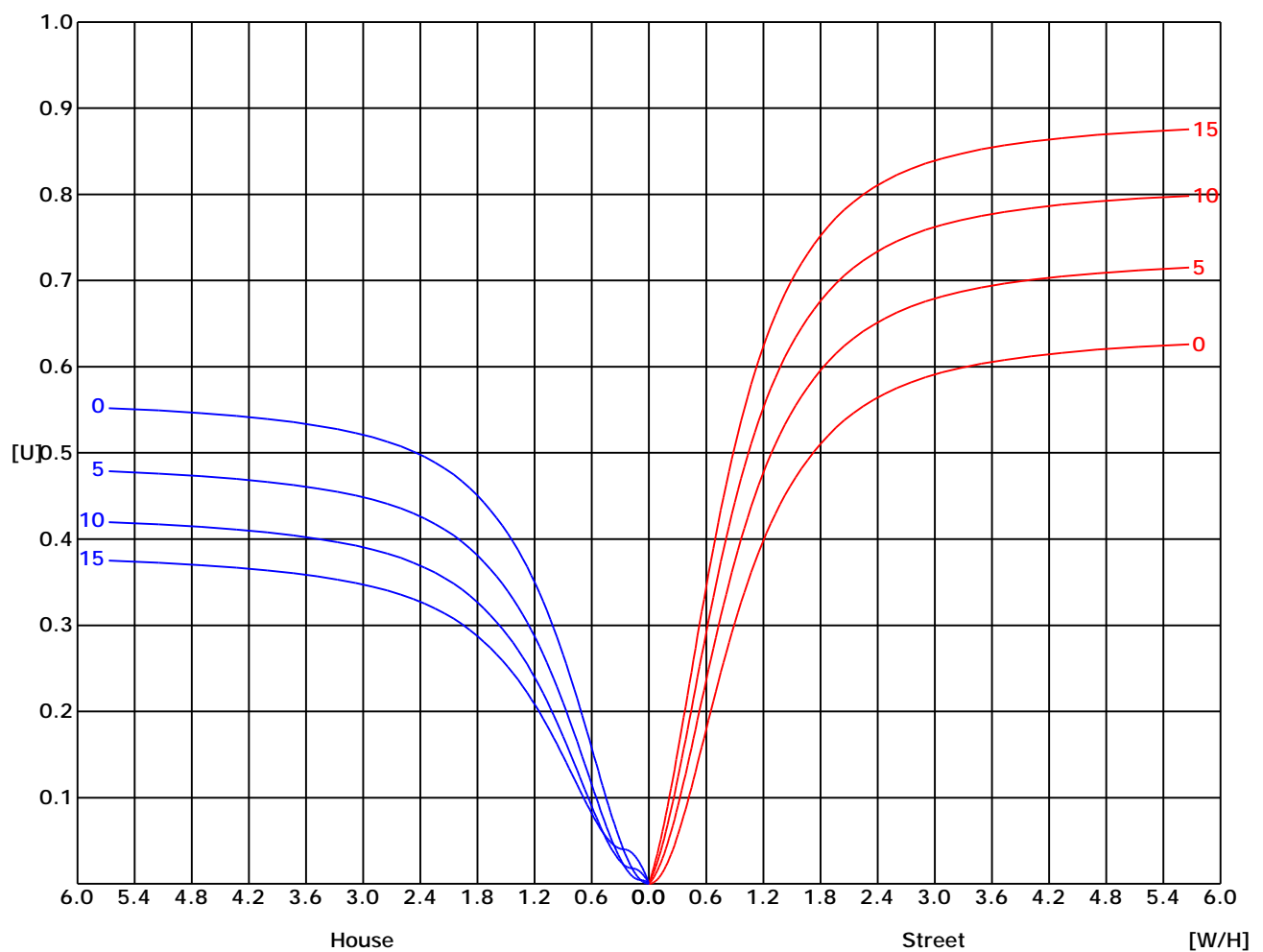
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.35
 Operators:
 Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1.08
 Test Distance: 6.35 m
 Remarks:

Report No.:

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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 12:50:26

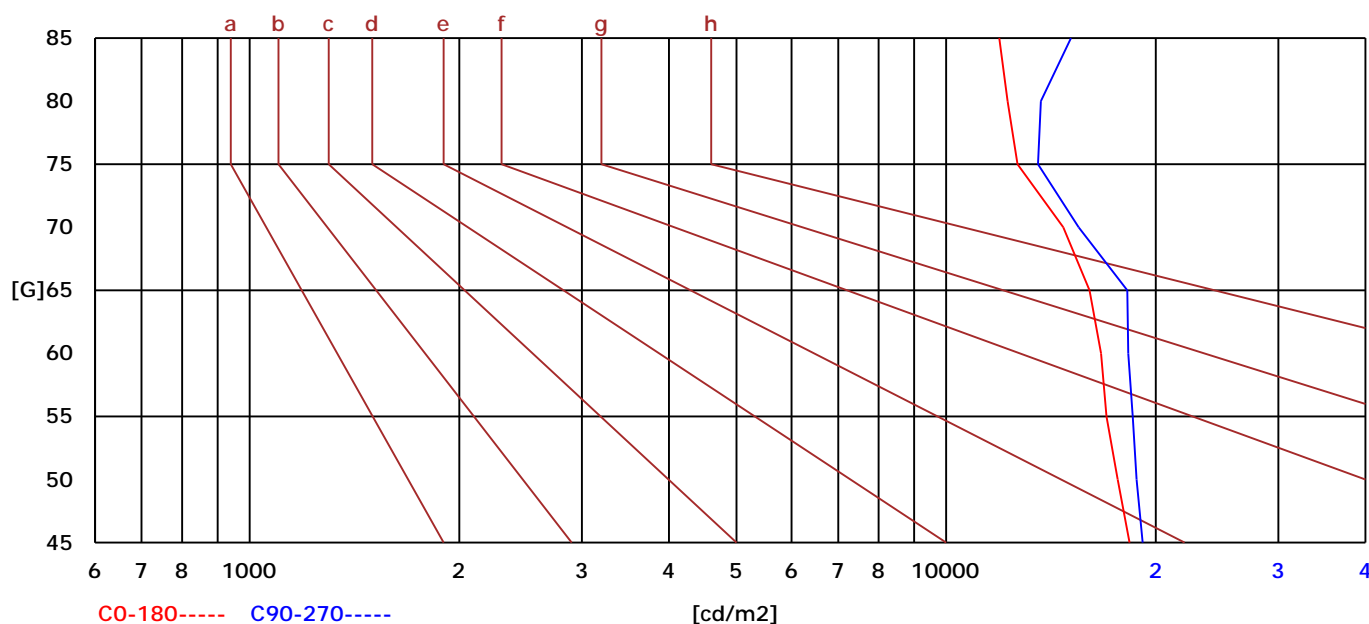
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1.08
Test Distance: 6.35 m
Remarks:

Report No.:

Test Time: 2020/3/14 12:50:26

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18345	17625	16992	16690	16072	14725	12661	12251	11917
C90	19140	18758	18529	18255	18192	15492	13553	13680	15115
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



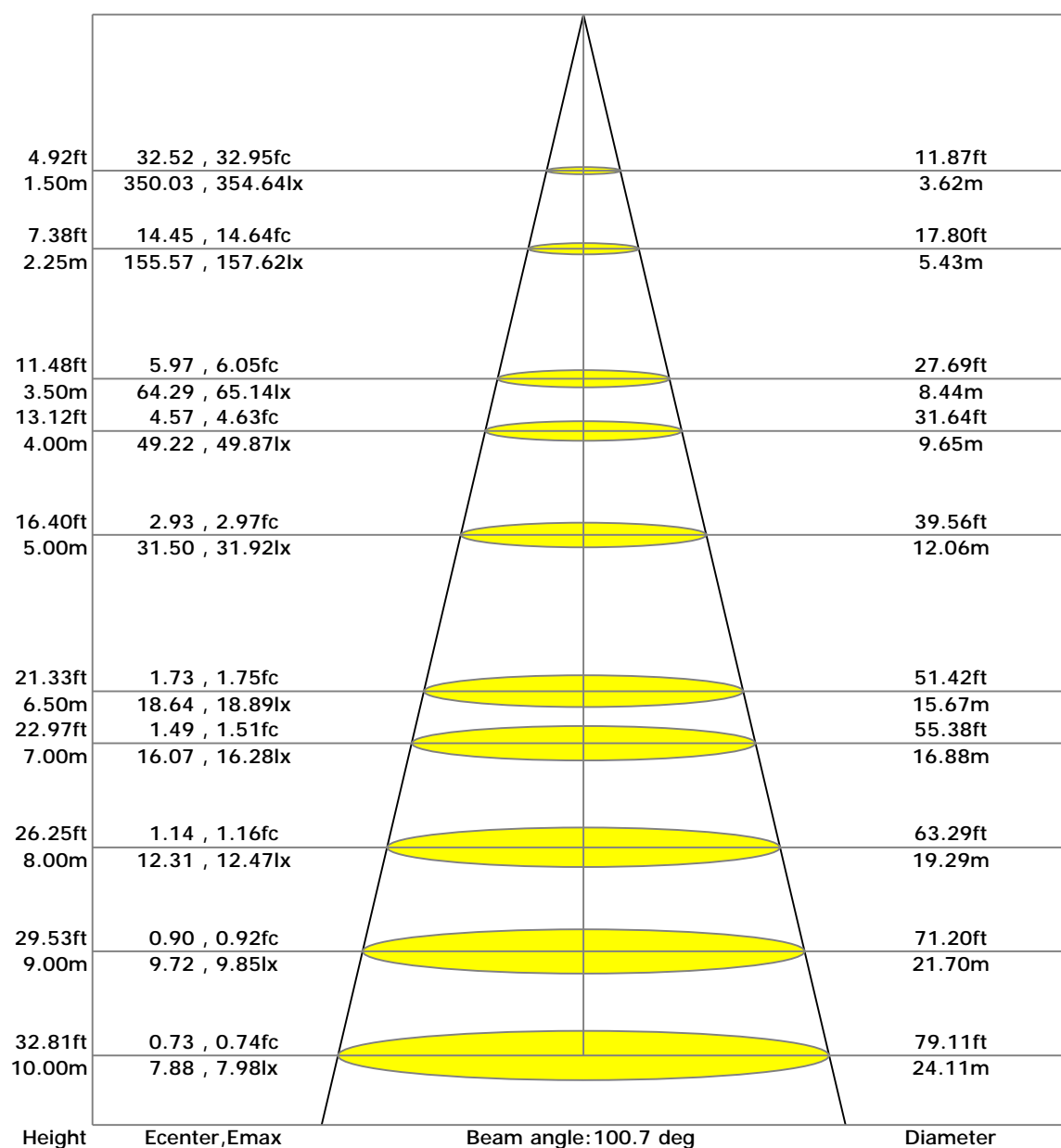
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.35
 Operators:
 Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1.08
 Test Distance: 6.35 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: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:50:26

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	19.31	19.39	19.51	19.57	19.82	18.87	18.95	19.07	19.14	19.38
3H	19.40	19.48	19.61	19.67	19.92	19.01	19.08	19.21	19.28	19.52
4H	19.40	19.47	19.61	19.67	19.92	19.02	19.09	19.23	19.29	19.54
6H	19.37	19.45	19.59	19.65	19.90	19.00	19.07	19.22	19.27	19.53
8H	19.36	19.43	19.58	19.63	19.89	18.98	19.06	19.20	19.26	19.51
12H	19.34	19.41	19.56	19.62	19.87	18.97	19.04	19.19	19.24	19.50
4H 2H	21.68	21.76	21.90	21.95	22.20	20.90	20.98	21.12	21.17	21.42
3H	21.91	21.98	22.13	22.18	22.44	21.18	21.25	21.40	21.46	21.71
4H	21.95	22.01	22.18	22.23	22.49	21.25	21.31	21.48	21.53	21.79
6H	21.94	22.00	22.18	22.22	22.49	21.27	21.33	21.51	21.55	21.82
8H	21.93	21.98	22.17	22.21	22.48	21.27	21.32	21.51	21.55	21.82
12H	21.91	21.96	22.15	22.19	22.46	21.25	21.30	21.50	21.54	21.81
8H 4H	22.39	22.46	22.61	22.67	22.92	21.13	21.20	21.35	21.40	21.66
6H	22.96	23.01	23.21	23.25	23.52	21.73	21.78	21.98	22.02	22.29
8H	22.96	23.01	23.22	23.26	23.53	21.76	21.81	22.02	22.06	22.33
12H	22.95	22.99	23.22	23.25	23.53	21.77	21.81	22.04	22.07	22.35
12H 4H	23.13	23.18	23.38	23.41	23.68	21.62	21.68	21.87	21.91	22.18
6H	23.25	23.29	23.51	23.54	23.82	21.75	21.80	22.02	22.05	22.32

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

Test Distance: 6.35 m

Remarks:

[illegible]

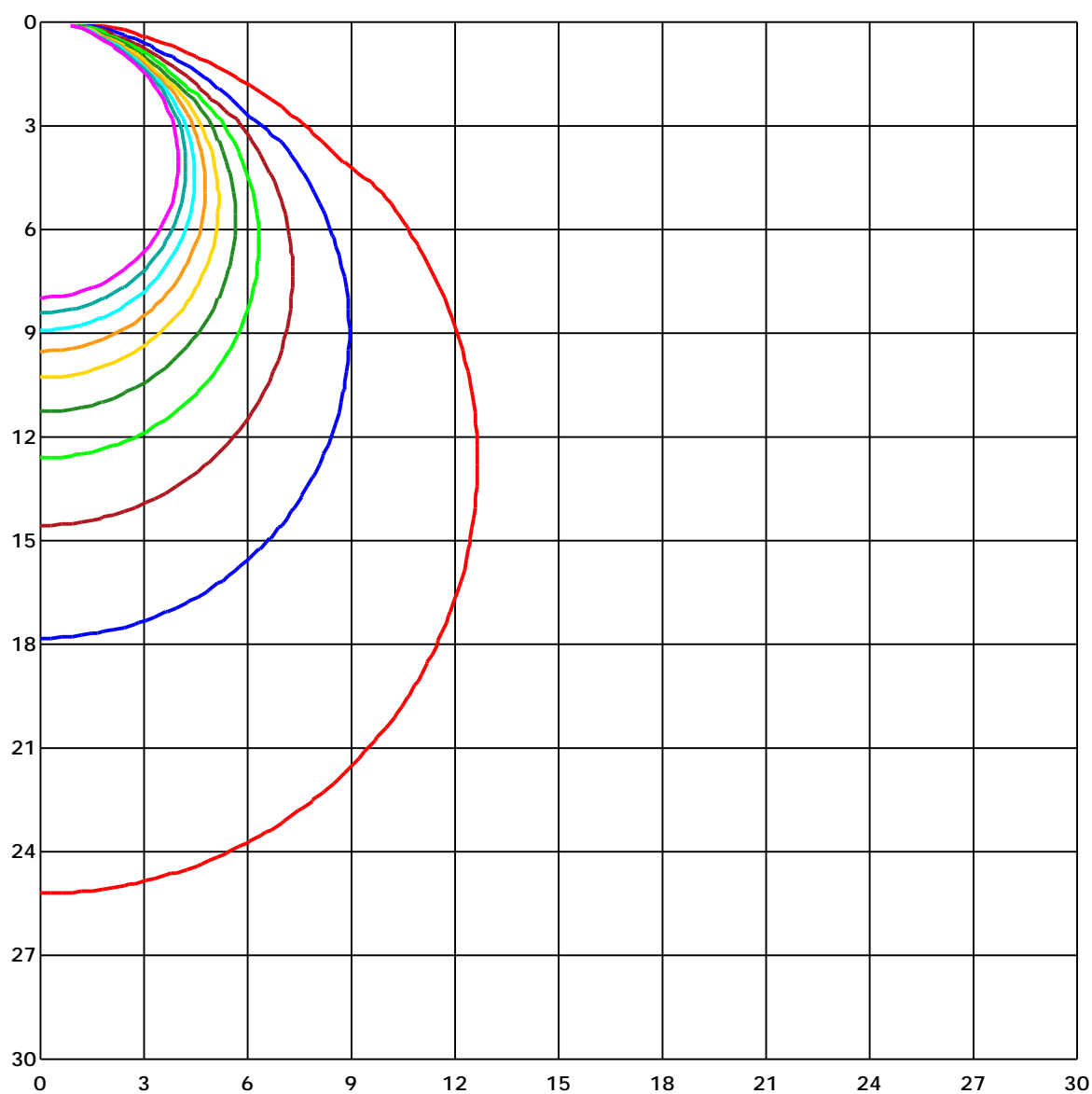
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G Range: 0 - 90 Deg
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Humidity: 1.08
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

12.395

11.155

9.916

8.676

7.437

6.197

4.958

3.718

2.479

1.239

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

Test Distance: 6.35 m

Remarks:

Report No.:

Test Time: 2020/3/14 12:50:26

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	787.57	788.92	786.18	769.8	789.92	793.32	708.79	750.47	794.84	
G1	787.4	787.92	785.92	779.34	790.97	794.28	708.71	750.34	794.58	
G2	787.14	787.18	785.13	781.08	791.8	795.02	708.75	750.29	794.28	
G3	786.7	785.79	784.48	780.73	792.62	795.98	708.53	749.95	793.8	
G4	786.05	784.22	783.52	780.04	792.97	796.93	708.1	748.73	793.01	
G5	785.26	782.43	782.35	779.17	793.32	797.63	707.44	748.6	792.23	
G6	784.26	780.43	780.73	778.08	793.49	797.94	706.66	748.07	791.06	
G7	782.74	778.03	779.3	776.29	794.02	797.63	705.18	747.9	789.71	
G8	780.95	775.68	777.42	774.51	793.1	796.76	704.09	747.72	788.01	
G9	779.51	772.81	775.25	772.63	791.8	795.63	702.78	746.59	786.35	
G10	777.55	770.02	772.94	770.28	790.49	794.23	701.13	746.2	784.35	
G11	775.25	767.02	770.11	768.28	789.71	792.4	699.47	746.03	782.0	
G12	772.63	763.66	767.76	765.71	787.96	790.84	697.47	745.33	779.65	
G13	770.15	760.01	764.75	762.97	786.05	788.96	695.38	743.02	776.9	
G14	766.97	756.26	761.62	759.87	783.91	787.05	693.25	739.32	773.77	
G15	763.84	752.25	758.22	756.43	781.74	785.09	688.41	736.79	770.63	
G16	760.88	748.16	754.82	752.91	779.65	782.39	682.62	734.36	767.5	
G17	757.26	743.85	751.08	749.73	777.34	778.47	677.13	732.92	764.06	
G18	753.3	739.15	747.25	745.68	775.29	773.5	671.08	730.96	759.66	
G19	749.16	734.31	743.06	741.37	772.72	768.58	665.2	726.26	755.61	
G20	744.85	729.22	738.67	736.79	768.89	764.23	658.36	720.42	751.16	
G21	740.15	723.99	734.31	731.87	765.01	760.96	652.05	715.11	746.77	
G22	735.4	718.33	729.43	727.13	760.79	757.35	644.43	709.31	742.11	
G23	730.35	712.62	724.34	721.73	756.39	754.0	637.94	703.22	736.92	
G24	725.04	706.44	719.16	716.15	752.12	749.77	630.54	697.03	731.44	
G25	719.33	700.0	713.45	710.27	747.72	745.02	622.87	691.59	725.91	
G26	713.5	693.38	707.62	704.13	742.93	741.15	614.77	686.8	719.98	
G27	707.57	686.89	701.48	697.91	738.19	737.84	606.63	681.49	713.84	
G28	701.26	679.75	695.25	691.2	732.96	736.58	597.92	675.22	707.4	
G29	694.68	672.3	688.67	684.32	727.43	730.87	589.17	667.46	700.87	
G30	687.76	665.07	682.1	678.09	721.55	724.99	580.41	659.5	693.51	
G31	680.53	657.32	675.0	671.25	715.41	719.03	571.01	651.83	686.89	
G32	673.17	649.48	666.64	664.42	708.79	712.62	561.9	643.82	679.53	
G33	665.85	641.6	656.32	656.93	702.39	706.31	551.5	635.54	671.86	
G34	657.97	633.63	645.6	649.78	695.77	699.91	541.96	627.84	663.94	
G35	650.13	625.18	634.93	641.77	688.76	692.98	531.86	618.6	656.27	
G36	642.21	616.56	624.0	633.71	681.79	686.1	521.49	608.07	647.96	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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Operators:

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

Test Distance: 6.35 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	635.37	607.76	613.12	625.57	674.74	678.18	510.73	596.48	640.2	
G38	627.23	598.92	601.75	617.34	666.94	670.82	500.02	590.25	632.58	
G39	618.12	589.38	590.47	608.24	659.41	662.85	488.74	585.68	624.92	
G40	608.2	578.84	579.19	597.83	651.35	654.14	478.29	583.42	614.07	
G41	598.96	567.52	567.61	587.42	643.25	645.82	467.14	588.25	604.8	
G42	589.51	555.76	555.24	576.19	635.2	637.33	455.56	587.51	594.78	
G43	580.19	543.53	543.7	564.21	626.57	628.4	444.41	578.28	585.33	
G44	570.48	531.64	531.2	552.67	617.86	619.43	432.83	568.0	575.71	
G45	560.73	518.88	519.18	541.35	608.89	610.46	420.46	557.33	565.87	
G46	550.76	506.29	506.34	529.07	599.57	601.31	408.79	547.27	555.68	
G47	540.39	493.58	493.58	516.87	590.04	591.26	396.29	537.65	545.31	
G48	529.9	480.21	480.6	505.12	580.72	580.89	384.75	527.46	534.73	
G49	519.18	466.92	467.53	493.71	571.09	571.05	372.25	517.35	523.97	
G50	507.95	453.16	454.08	482.3	560.47	560.38	359.1	506.07	512.61	
G51	496.36	441.14	439.71	471.98	550.02	549.75	345.6	494.23	500.98	
G52	484.61	429.21	425.42	461.31	539.3	537.82	332.06	481.3	488.96	
G53	472.98	417.24	411.75	448.85	528.55	526.19	319.43	468.1	477.33	
G54	460.61	403.21	397.16	437.05	517.01	514.17	305.14	456.47	464.92	
G55	448.42	389.84	383.09	425.12	505.6	502.77	291.86	446.81	452.6	
G56	435.74	376.43	368.38	413.19	493.88	490.35	278.1	437.75	439.75	
G57	423.38	363.54	354.0	401.21	482.3	477.99	264.9	428.25	427.3	
G58	410.83	352.52	339.15	389.5	470.19	465.44	251.36	418.24	414.41	
G59	397.73	345.77	324.65	377.17	457.91	452.99	238.21	406.44	401.47	
G60	384.71	333.8	310.41	365.11	445.76	439.62	225.19	394.33	388.28	
G61	371.95	321.3	295.95	353.31	433.48	426.6	211.91	381.13	375.04	
G62	358.45	309.06	281.06	343.81	420.94	413.53	198.49	367.98	361.71	
G63	345.25	296.65	266.38	331.71	408.09	392.76	185.21	354.44	348.26	
G64	329.31	284.15	252.19	319.6	364.54	374.86	172.15	340.46	333.28	
G65	275.53	271.7	237.64	307.54	336.06	357.53	159.26	327.0	277.45	
G66	261.38	259.37	222.88	295.21	325.87	342.12	146.19	313.24	263.47	
G67	248.92	246.96	208.6	279.36	321.26	323.39	133.04	299.39	250.93	
G68	236.77	234.07	194.27	262.81	313.37	304.05	120.45	285.24	238.43	
G69	224.84	221.09	180.16	250.71	301.96	285.02	110.09	270.35	226.23	
G70	212.52	201.45	166.09	211.95	290.08	265.6	96.76	236.12	213.82	
G71	199.89	184.51	151.72	190.57	277.66	230.41	86.05	219.88	201.15	
G72	187.3	167.84	137.66	177.98	265.47	203.24	79.21	206.42	188.65	
G73	174.93	156.82	123.89	158.08	253.23	192.83	72.38	193.18	176.07	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

Test Distance: 6.35 m

Remarks:

Test Time: 2020/3/14 12:50:26

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.35

Operators:

Test Date: 2020/3/14 12:50:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1.08

Test Distance: 6.35 m

Remarks: