

Report No.:

Test Time: 2019/12/9 22:01:35

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer:  
Luminaire Type: BLT-FL02-SQ03 RGB  
Lamp Type:  
Luminous Width: 0 mm  
Luminous Length: 0 mm  
Luminous Height: 0 mm

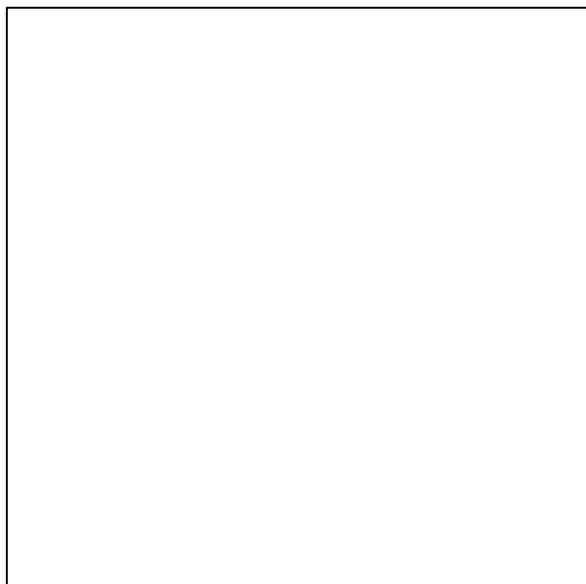
Voltage(V): 219.38 V  
Current(A): 0.2220 A  
Power(W): 28.70 W  
Power Factor: 0.5870  
Lamp Luminous Flux: 1374.40

### Photometric Results

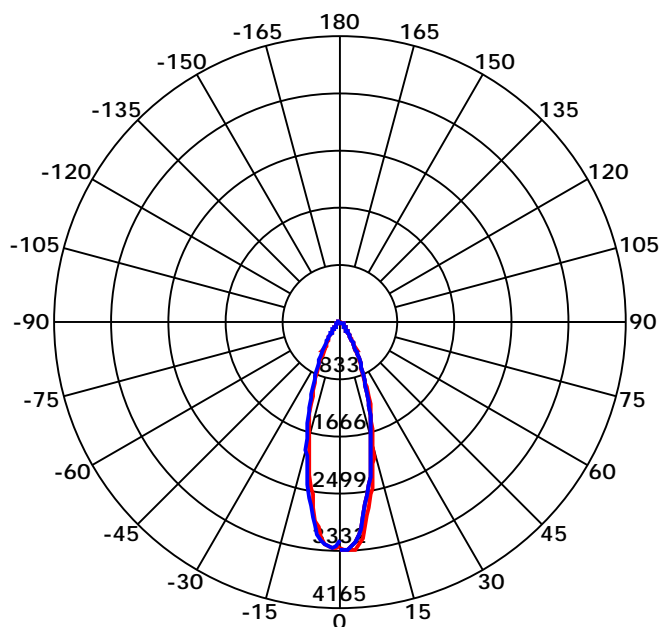
CIE Class: Direct  
Luminaire Luminous Flux: 1374.399  
Downward Ratio: 100.00%  
Luminaire Efficacy Rating(LER): 47.88 lm/W  
Beam Angle(50%Imax): L=-16.51 R=15.63  
Field Angle(10%Imax): L=-33.67 R=32.47

Max. Intensity: 3331.73 cd  
Max.Intensity Angle: C=0 Gamma=2  
Upward Ratio: 0.00%  
Efficacy: 100.00%  
Center Intensity: 3288.89 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%Imax): 32.14 deg

C0-180 ——— C90-270 ———

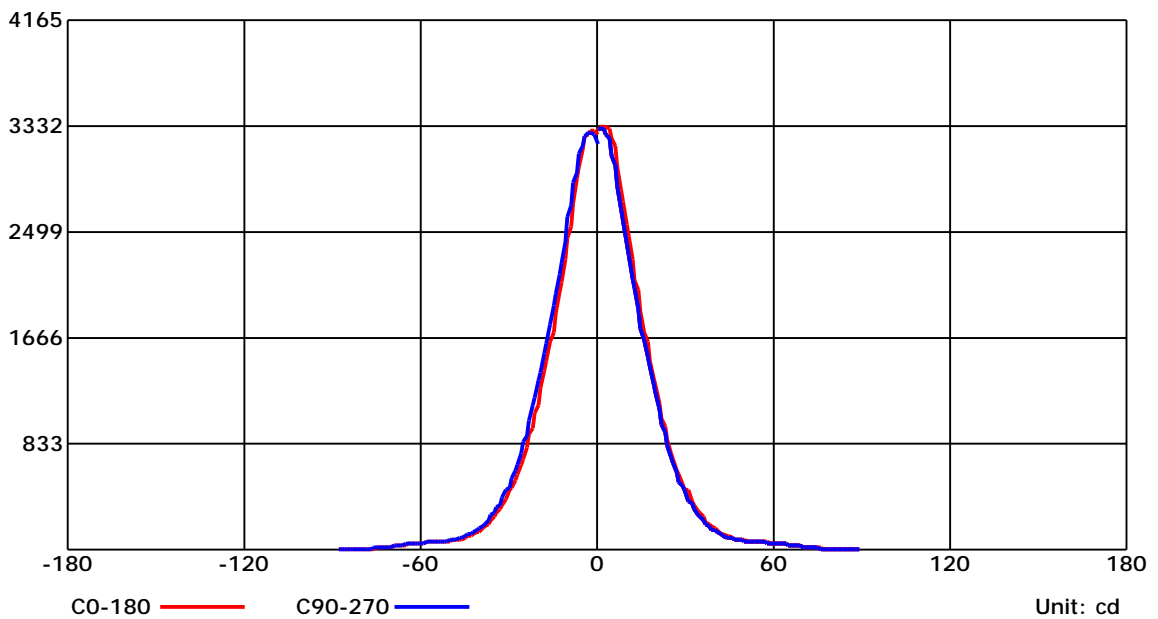
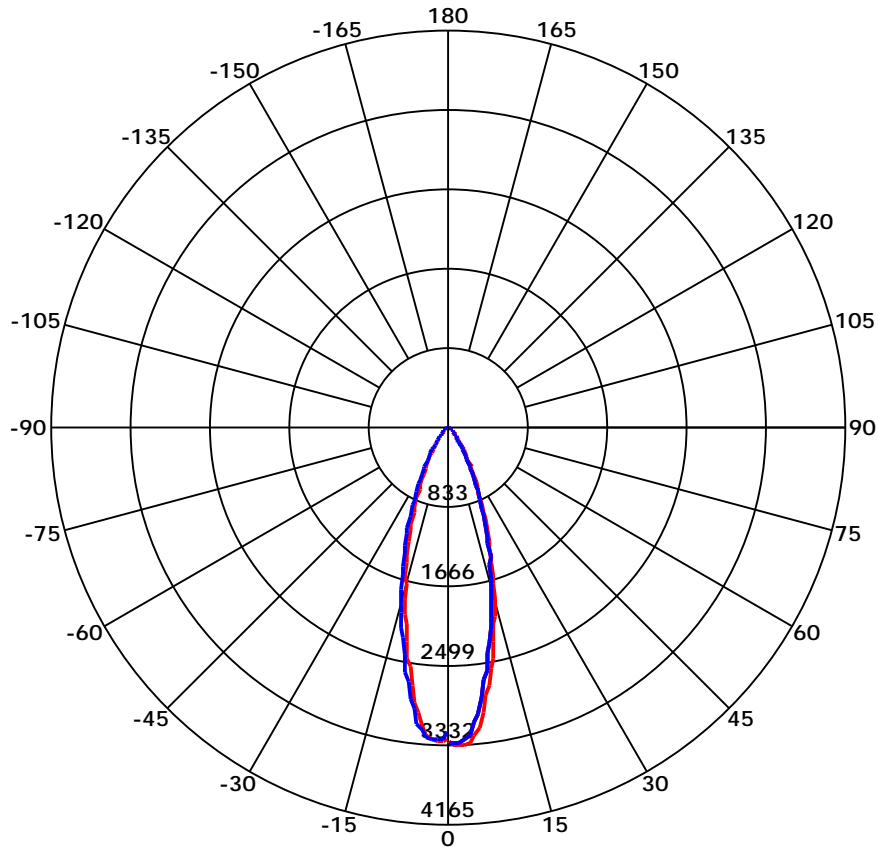
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## Luminous Intensity Distribution Curve



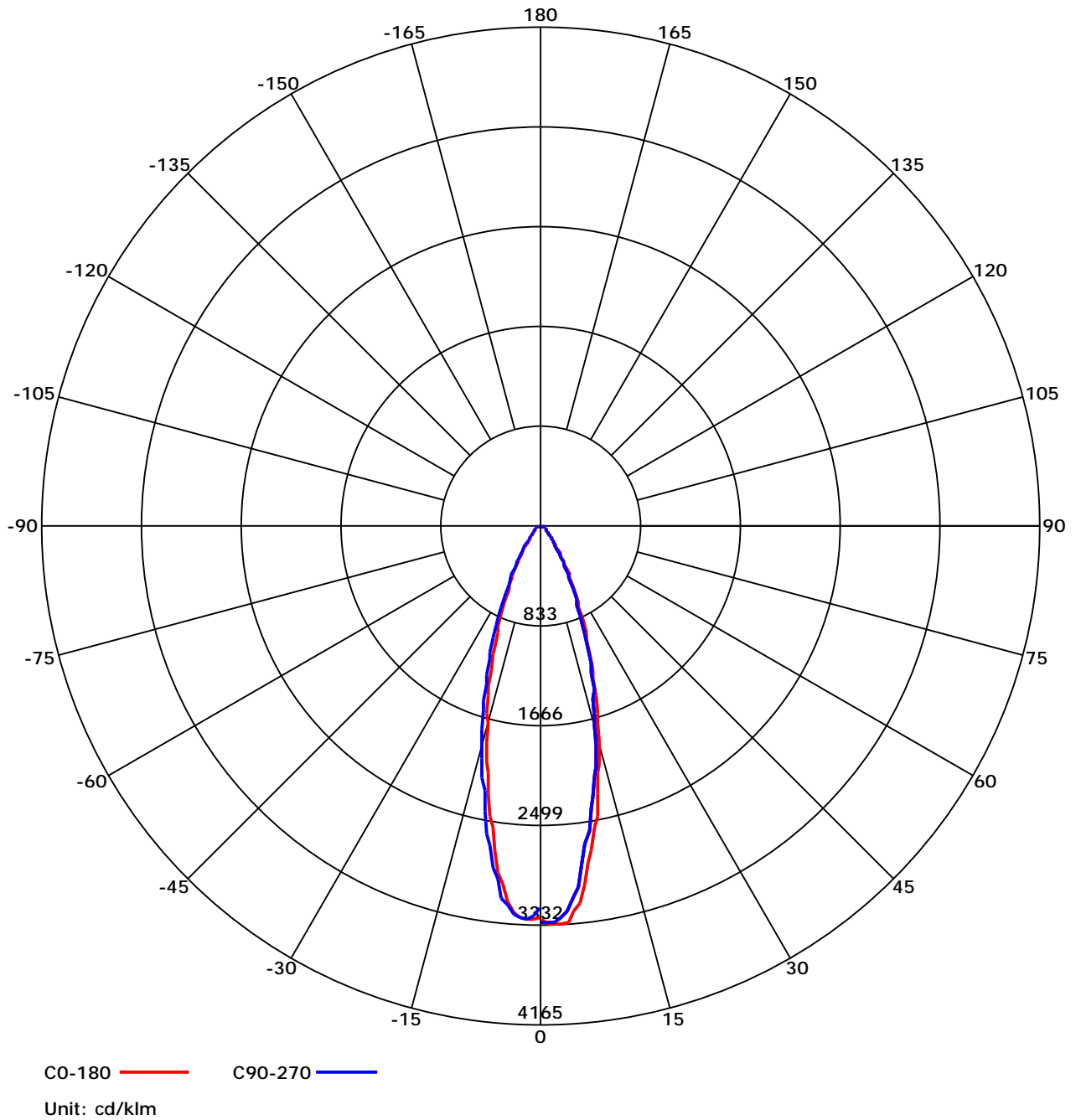
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

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Test Time: 2019/12/9 22:01:35

## Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

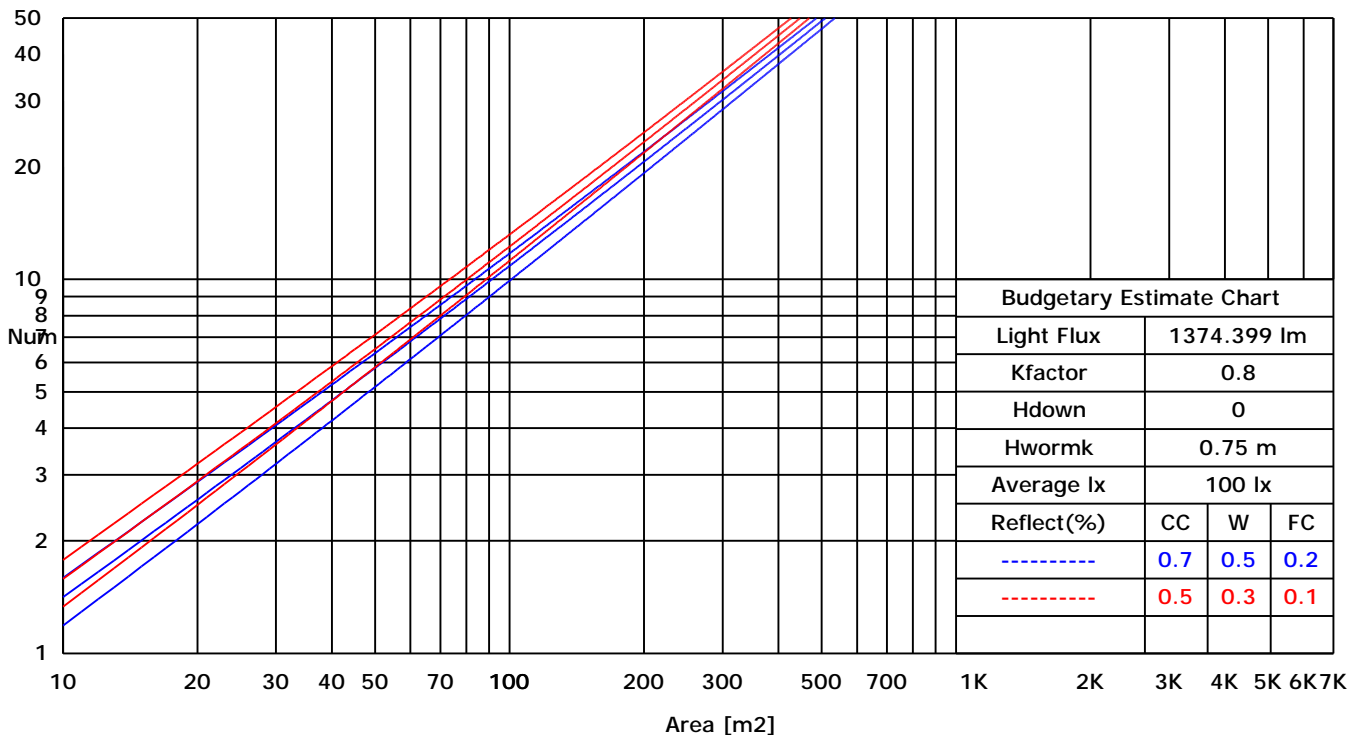
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Test Time: 2019/12/9 22:01:35

## 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	0.98	0.96	0.94	0.97	0.94	0.92	0.94	0.91	0.88	0.90	0.86	0.84	0.84	0.81	0.78	0.72
2	0.93	0.91	0.89	0.92	0.90	0.87	0.90	0.86	0.84	0.86	0.82	0.79	0.81	0.77	0.74	0.69
3	0.89	0.87	0.85	0.88	0.85	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.71	0.67
4	0.85	0.83	0.82	0.85	0.82	0.80	0.82	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
5	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
6	0.79	0.77	0.76	0.78	0.76	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.72	0.67	0.64	0.60
7	0.77	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.62	0.58
8	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
9	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55
10	0.70	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.54

## LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

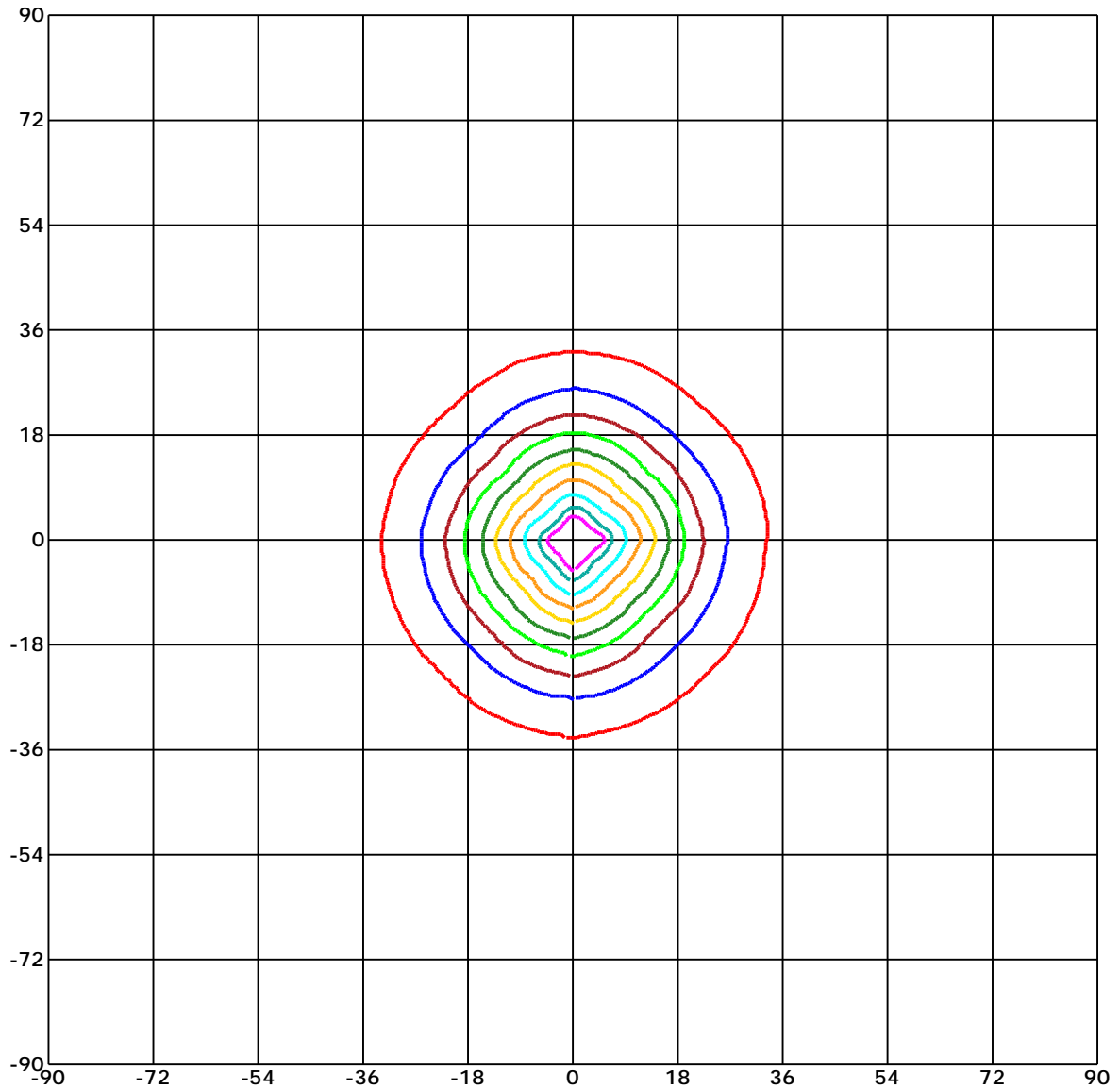
Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd     $I_{max}(100\%)$ : 3331.729 cd

3165.143(95% $I_{max}$ )	1665.865(50% $I_{max}$ )
2998.556(90% $I_{max}$ )	1332.692(40% $I_{max}$ )
2665.383(80% $I_{max}$ )	999.519(30% $I_{max}$ )
2332.21(70% $I_{max}$ )	666.346(20% $I_{max}$ )
1999.037(60% $I_{max}$ )	333.173(10% $I_{max}$ )

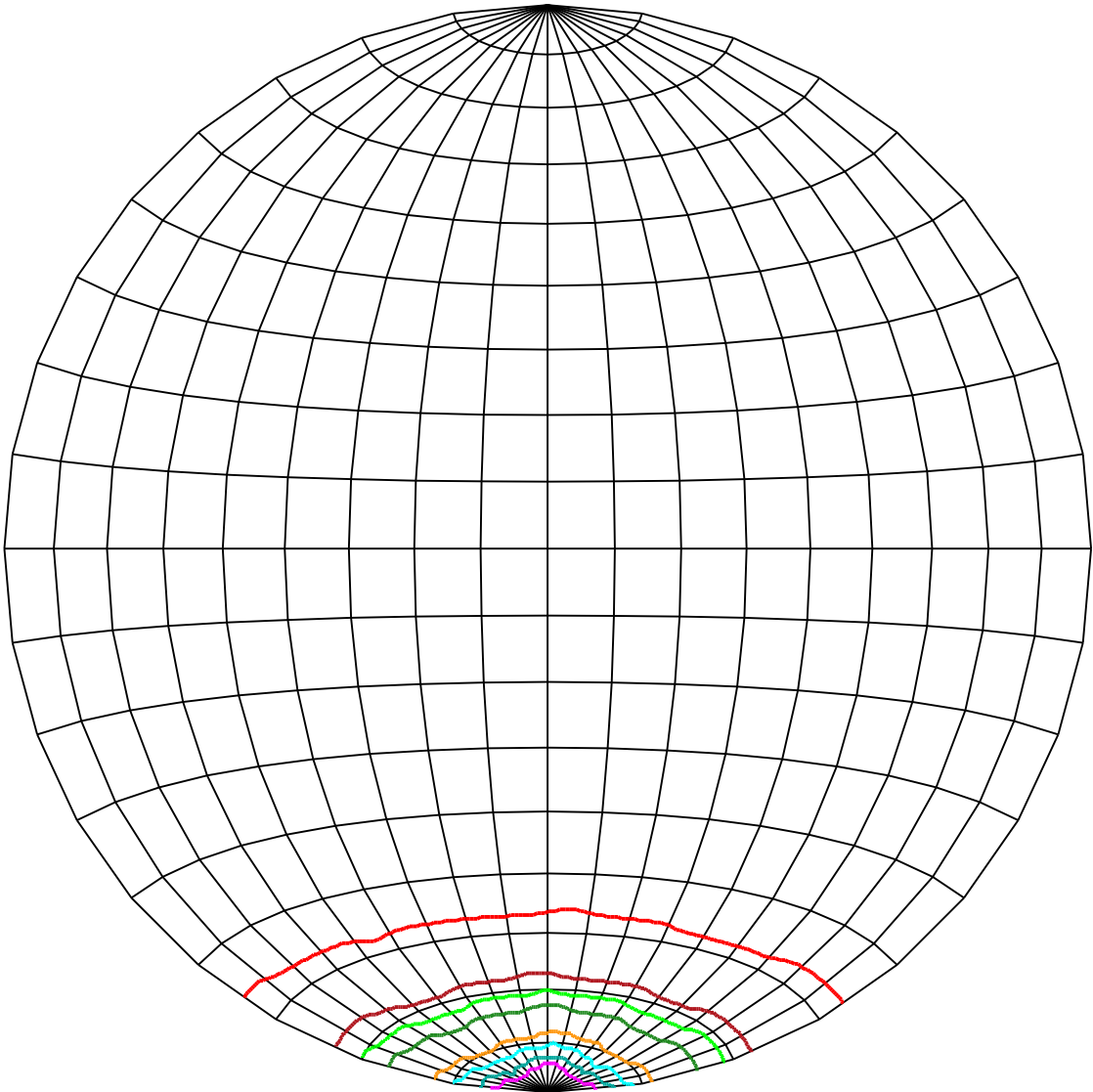
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd      I<sub>max</sub>(100%): 3331.729 cd

3165.143(95%I<sub>max</sub>)  
2998.556(90%I<sub>max</sub>)  
2665.383(80%I<sub>max</sub>)  
2332.21(70%I<sub>max</sub>)  
1999.037(60%I<sub>max</sub>)

1665.865(50%I<sub>max</sub>)  
1332.692(40%I<sub>max</sub>)  
999.519(30%I<sub>max</sub>)  
666.346(20%I<sub>max</sub>)  
333.173(10%I<sub>max</sub>)

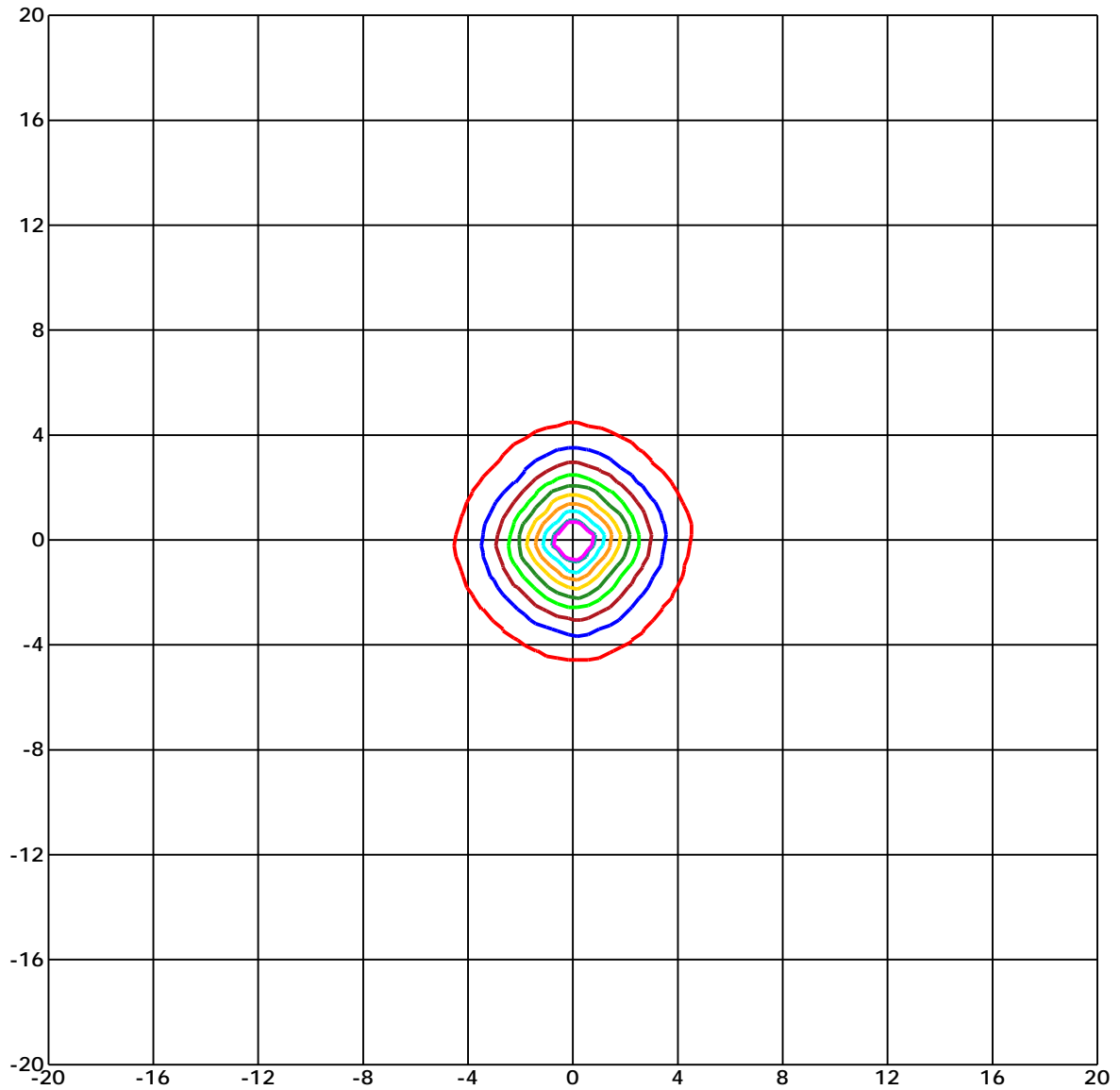
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## ISOLX DIAGRAM



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

47.806(1%E <sub>max</sub> )	25.982(1%E <sub>max</sub> )
46.767(1%E <sub>max</sub> )	20.785(1%E <sub>max</sub> )
41.571(1%E <sub>max</sub> )	15.589(0%E <sub>max</sub> )
36.374(1%E <sub>max</sub> )	10.393(0%E <sub>max</sub> )
31.178(1%E <sub>max</sub> )	5.196(0%E <sub>max</sub> )

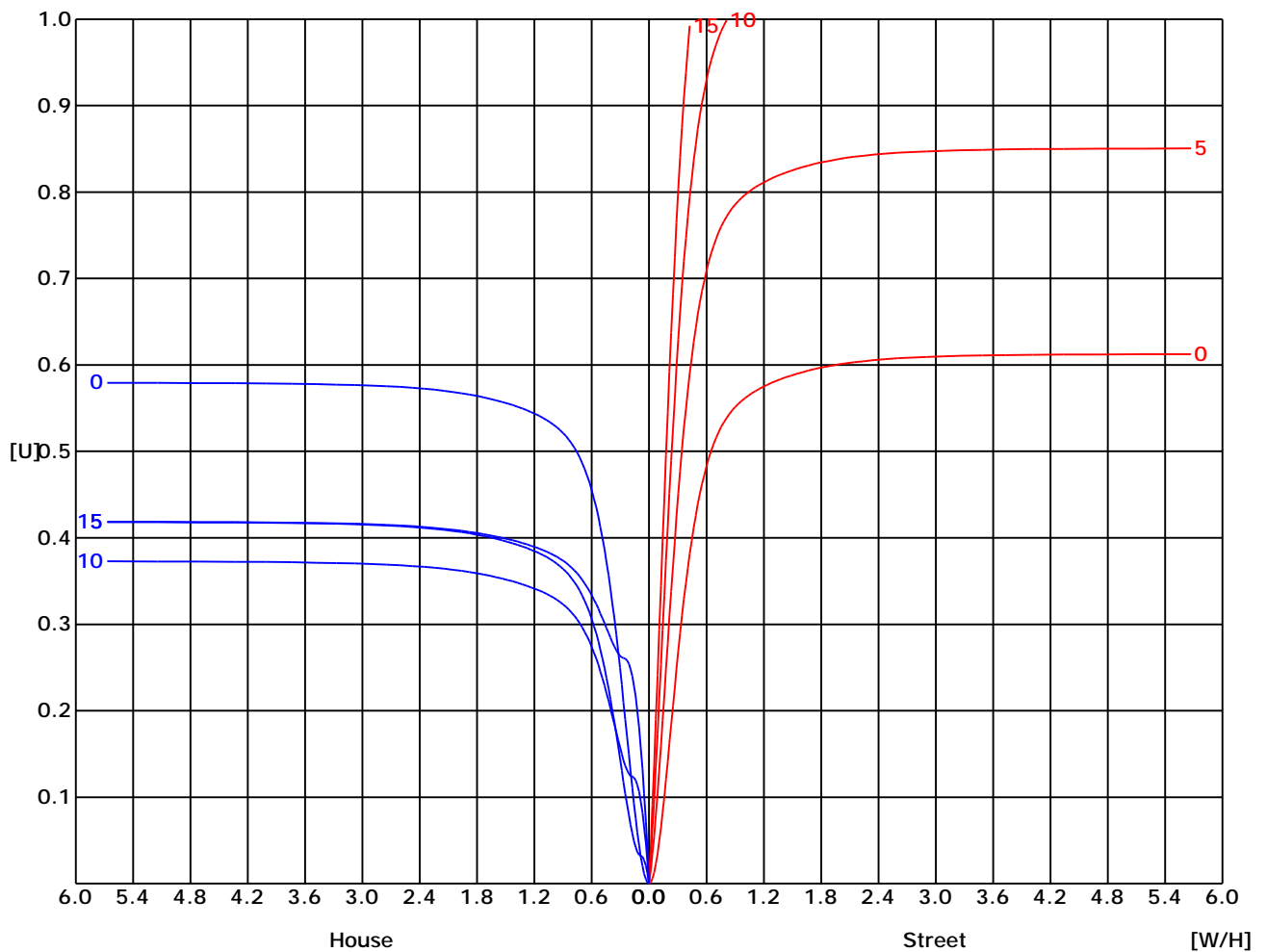
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

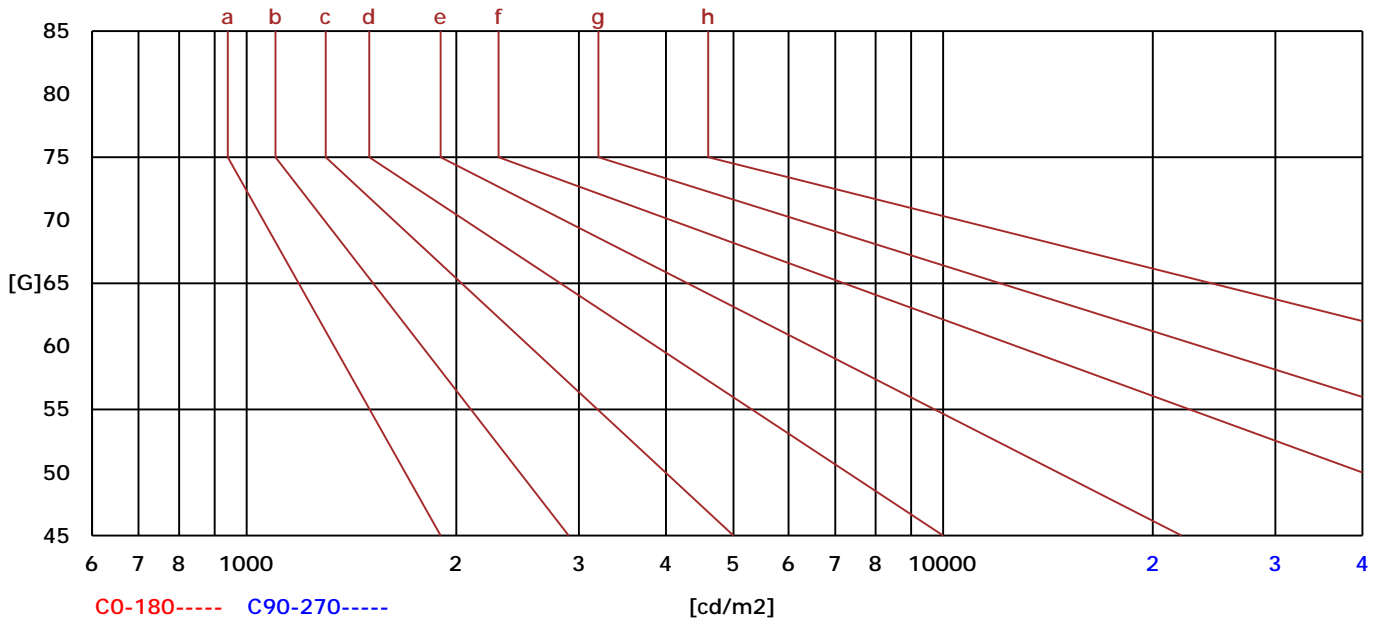


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## BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0
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



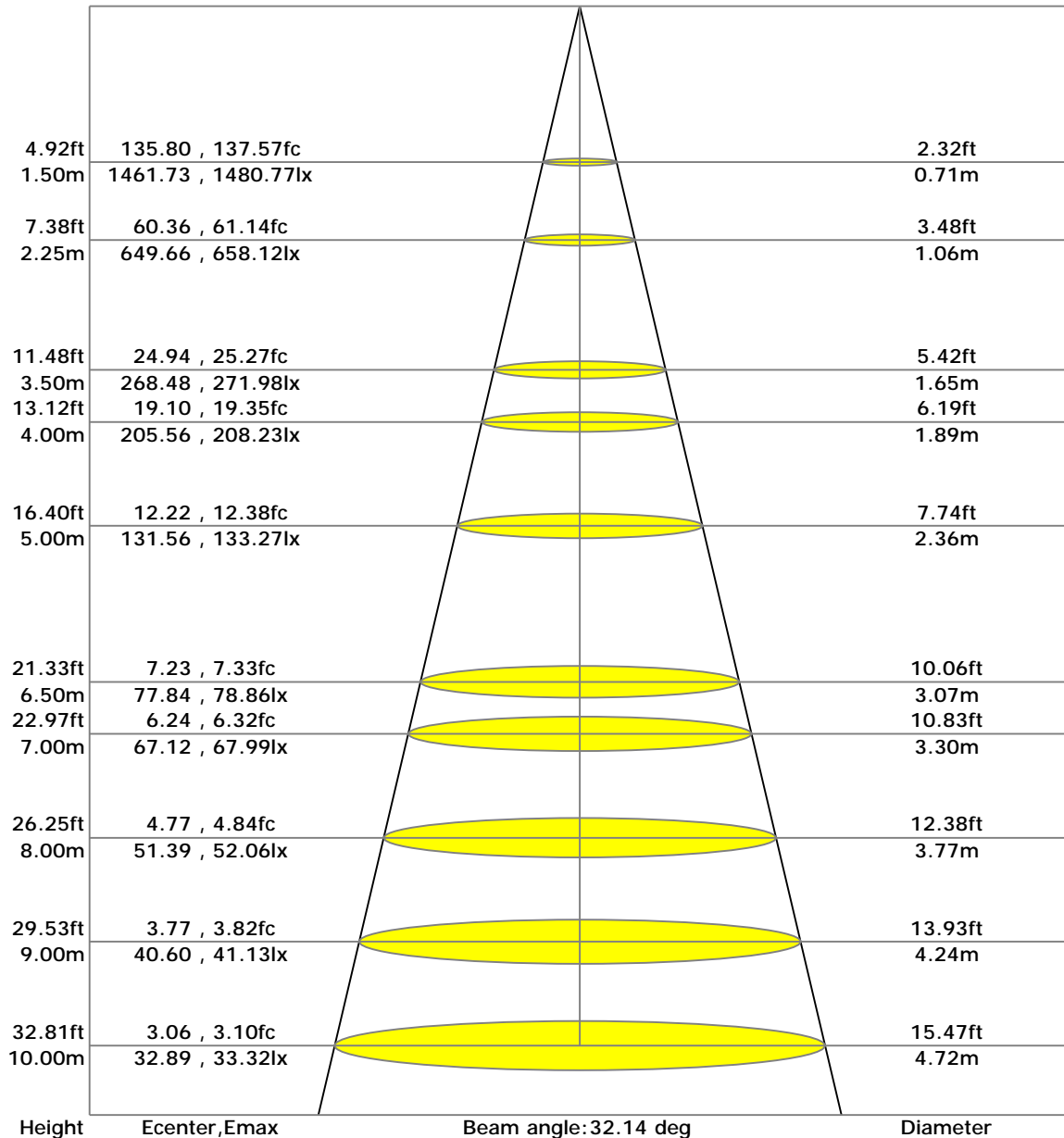
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## UGR(Unified Glare Rating) TABLE

RHOCC		80	80	70	70	70	50	50	50	30	30
RHOW		50	30	10	50	30	10	50	30	10	50
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Weft to light axis direction of observation					Direction of light axis parallel observation				
2H	2H	17.63	17.19	16.84	17.45	16.96	16.55	16.89	16.36	15.89	16.11
	3H	16.75	16.34	16.04	16.60	16.11	15.74	16.13	15.55	15.08	15.47
	4H	15.99	15.61	15.36	15.86	15.39	15.04	15.45	14.85	14.38	14.88
	6H	15.34	14.98	14.75	15.21	14.75	14.44	14.84	14.24	13.79	14.34
	8H	14.76	14.43	14.22	14.64	14.20	13.90	14.30	13.70	13.26	13.85
	12H	14.24	13.94	13.74	14.13	13.71	13.43	13.81	13.22	12.80	13.40
4H	2H	13.79	13.50	13.32	13.67	13.27	13.01	13.37	12.79	12.39	12.99
	3H	13.37	13.10	12.93	13.26	12.88	12.63	12.97	12.41	12.03	12.62
	4H	13.00	12.74	12.59	12.88	12.52	12.29	12.60	12.06	11.70	12.27
	6H	12.66	12.42	12.27	12.54	12.20	11.98	12.27	11.75	11.40	11.95
	8H	12.35	12.12	11.98	12.23	11.90	11.70	11.96	11.46	11.12	11.65
	12H	12.07	11.85	11.72	11.95	11.63	11.44	11.68	11.19	10.87	11.38
8H	4H	11.81	11.60	11.47	11.69	11.38	11.20	11.42	10.95	10.64	11.12
	6H	11.57	11.36	11.24	11.44	11.15	10.97	11.18	10.72	10.43	10.89
	8H	11.34	11.15	11.03	11.22	10.94	10.77	10.95	10.51	10.23	10.66
	12H	11.14	10.95	10.84	11.01	10.74	10.58	10.74	10.32	10.05	10.46
12H	4H	10.94	10.76	10.66	10.82	10.55	10.40	10.55	10.14	9.88	10.26
	6H	10.76	10.59	10.49	10.63	10.38	10.23	10.37	9.97	9.72	10.08

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

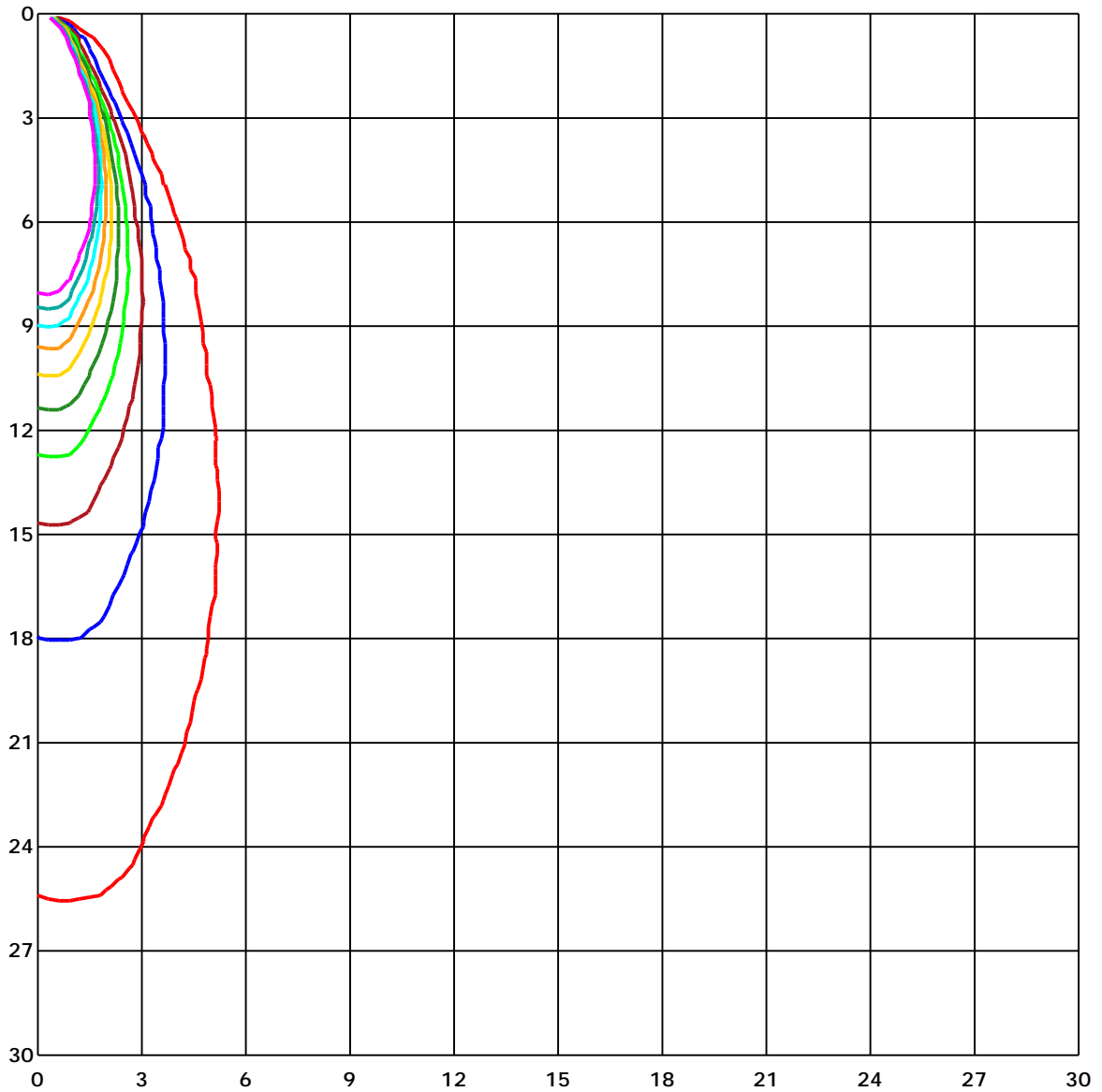
Remarks:



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### SPACE ISOLX DIAGRAM



Unit of illumination: lx

- |        |        |
|--------|--------|
| 50.948 | 25.474 |
| 45.853 | 20.379 |
| 40.758 | 15.284 |
| 35.663 | 10.19  |
| 30.569 | 5.095  |

C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3288.89	3323.94	3306.95	3292.43	3265.88	3283.94	3192.24	3265.88	3230.12	
G1	3321.82	3318.28	3313.67	3274.38	3289.25	3278.63	3263.05	3272.96	3245.7	
G2	3331.73	3269.42	3310.13	3200.03	3289.95	3263.05	3281.46	3258.09	3260.57	
G3	3328.9	3213.84	3269.42	3139.85	3269.42	3180.91	3278.63	3228.35	3260.92	
G4	3315.09	3072.94	3229.77	2980.89	3243.93	3052.76	3251.72	3125.69	3230.83	
G5	3235.08	2990.1	3106.22	2812.73	3148.7	2972.39	3178.44	2977.0	3195.43	
G6	3172.77	2812.73	3030.1	2724.22	3003.9	2801.05	3119.67	2892.74	3076.48	
G7	3013.81	2632.18	2850.96	2546.5	2917.87	2625.8	2967.08	2718.2	2913.63	
G8	2834.32	2542.25	2672.18	2456.58	2728.47	2538.71	2882.47	2524.55	2826.54	
G9	2740.86	2363.47	2581.2	2279.57	2546.5	2363.12	2703.34	2431.8	2634.3	
G10	2558.54	2276.74	2398.17	2110.34	2454.81	2275.67	2610.58	2254.43	2557.48	
G11	2467.2	2108.57	2308.6	2029.63	2276.03	2108.57	2426.49	2086.98	2368.43	
G12	2290.54	1944.31	2137.6	1868.19	2106.1	1945.01	2252.66	2006.26	2197.79	
G13	2118.84	1862.88	2054.41	1710.65	2022.9	1866.07	2156.72	1848.36	2112.47	
G14	2035.64	1705.34	1890.85	1634.53	1859.34	1710.65	2005.55	1694.36	1948.55	
G15	1873.15	1627.45	1732.95	1484.43	1704.63	1633.12	1917.4	1618.25	1868.54	
G16	1714.54	1478.76	1656.13	1339.28	1628.16	1486.91	1762.69	1471.33	1713.13	
G17	1637.72	1336.8	1507.44	1269.53	1481.59	1416.45	1611.52	1400.88	1562.67	
G18	1489.74	1269.53	1435.22	1136.42	1409.37	1279.8	1537.88	1261.39	1490.09	
G19	1346.71	1141.38	1294.67	1013.22	1272.01	1149.87	1394.15	1131.46	1348.84	
G20	1279.09	1080.48	1227.05	956.22	1141.38	1089.34	1325.12	1070.22	1215.01	
G21	1146.69	966.84	1098.89	786.29	1079.78	967.2	1192.0	953.04	1150.23	
G22	1024.9	788.77	979.94	745.22	960.82	912.68	1130.05	898.16	1028.09	
G23	966.49	788.77	923.3	700.62	905.95	788.41	1009.33	784.87	915.15	
G24	858.86	715.48	821.69	619.54	803.28	720.79	900.64	750.53	862.76	
G25	754.07	633.0	727.52	586.97	709.47	678.31	849.66	663.44	763.99	
G26	709.11	595.47	679.02	512.98	666.63	600.43	753.37	586.62	675.48	
G27	626.98	525.37	600.43	481.12	588.74	564.67	666.98	546.61	635.12	
G28	588.74	463.42	528.91	423.06	548.03	498.47	626.62	481.83	555.82	
G29	519.35	435.45	496.7	371.37	482.18	440.05	553.7	452.44	489.62	
G30	475.46	383.06	476.87	348.18	474.75	412.79	487.49	398.63	474.04	
G31	475.46	336.32	383.06	305.1	397.92	363.23	476.16	350.38	405.36	
G32	378.1	315.29	358.63	285.52	348.33	319.22	402.88	328.29	380.22	
G33	354.03	275.64	313.67	249.84	325.84	298.62	350.48	287.75	333.21	
G34	309.45	257.45	273.87	217.83	284.57	260.7	327.79	269.09	311.51	
G35	288.99	224.35	255.82	203.39	265.7	227.57	286.51	235.04	271.93	
G36	252.17	195.14	223.11	177.01	231.57	212.27	267.43	205.12	237.06	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2019/12/9 22:01:35

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	3288.89	3323.94	3306.95	3292.43	3265.88	3283.94	3192.24	3265.88	3230.12	
G38	3321.82	3318.28	3313.67	3274.38	3289.25	3278.63	3263.05	3272.96	3245.7	
G39	3331.73	3269.42	3310.13	3200.03	3289.95	3263.05	3281.46	3258.09	3260.57	
G40	3328.9	3213.84	3269.42	3139.85	3269.42	3180.91	3278.63	3228.35	3260.92	
G41	3315.09	3072.94	3229.77	2980.89	3243.93	3052.76	3251.72	3125.69	3230.83	
G42	3235.08	2990.1	3106.22	2812.73	3148.7	2972.39	3178.44	2977.0	3195.43	
G43	3172.77	2812.73	3030.1	2724.22	3003.9	2801.05	3119.67	2892.74	3076.48	
G44	3013.81	2632.18	2850.96	2546.5	2917.87	2625.8	2967.08	2718.2	2913.63	
G45	2834.32	2542.25	2672.18	2456.58	2728.47	2538.71	2882.47	2524.55	2826.54	
G46	2740.86	2363.47	2581.2	2279.57	2546.5	2363.12	2703.34	2431.8	2634.3	
G47	2558.54	2276.74	2398.17	2110.34	2454.81	2275.67	2610.58	2254.43	2557.48	
G48	2467.2	2108.57	2308.6	2029.63	2276.03	2108.57	2426.49	2086.98	2368.43	
G49	2290.54	1944.31	2137.6	1868.19	2106.1	1945.01	2252.66	2006.26	2197.79	
G50	2118.84	1862.88	2054.41	1710.65	2022.9	1866.07	2156.72	1848.36	2112.47	
G51	2035.64	1705.34	1890.85	1634.53	1859.34	1710.65	2005.55	1694.36	1948.55	
G52	1873.15	1627.45	1732.95	1484.43	1704.63	1633.12	1917.4	1618.25	1868.54	
G53	1714.54	1478.76	1656.13	1339.28	1628.16	1486.91	1762.69	1471.33	1713.13	
G54	1637.72	1336.8	1507.44	1269.53	1481.59	1416.45	1611.52	1400.88	1562.67	
G55	1489.74	1269.53	1435.22	1136.42	1409.37	1279.8	1537.88	1261.39	1490.09	
G56	1346.71	1141.38	1294.67	1013.22	1272.01	1149.87	1394.15	1131.46	1348.84	
G57	1279.09	1080.48	1227.05	956.22	1141.38	1089.34	1325.12	1070.22	1215.01	
G58	1146.69	966.84	1098.89	786.29	1079.78	967.2	1192.0	953.04	1150.23	
G59	1024.9	788.77	979.94	745.22	960.82	912.68	1130.05	898.16	1028.09	
G60	966.49	788.77	923.3	700.62	905.95	788.41	1009.33	784.87	915.15	
G61	858.86	715.48	821.69	619.54	803.28	720.79	900.64	750.53	862.76	
G62	754.07	633.0	727.52	586.97	709.47	678.31	849.66	663.44	763.99	
G63	709.11	595.47	679.02	512.98	666.63	600.43	753.37	586.62	675.48	
G64	626.98	525.37	600.43	481.12	588.74	564.67	666.98	546.61	635.12	
G65	588.74	463.42	528.91	423.06	548.03	498.47	626.62	481.83	555.82	
G66	519.35	435.45	496.7	371.37	482.18	440.05	553.7	452.44	489.62	
G67	475.46	383.06	476.87	348.18	474.75	412.79	487.49	398.63	474.04	
G68	475.46	336.32	383.06	305.1	397.92	363.23	476.16	350.38	405.36	
G69	378.1	315.29	358.63	285.52	348.33	319.22	402.88	328.29	380.22	
G70	354.03	275.64	313.67	249.84	325.84	298.62	350.48	287.75	333.21	
G71	309.45	257.45	273.87	217.83	284.57	260.7	327.79	269.09	311.51	
G72	288.99	224.35	255.82	203.39	265.7	227.57	286.51	235.04	271.93	
G73	252.17	195.14	223.11	177.01	231.57	212.27	267.43	205.12	237.06	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/12/9 22:01:35

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

