

Report No.:

Test Time: 2019/11/4 9:52:05

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer:  
Luminaire Type: MD18002-800  
Lamp Type:  
Luminous Width: 0 mm  
Luminous Length: 0 mm  
Luminous Height: 0 mm

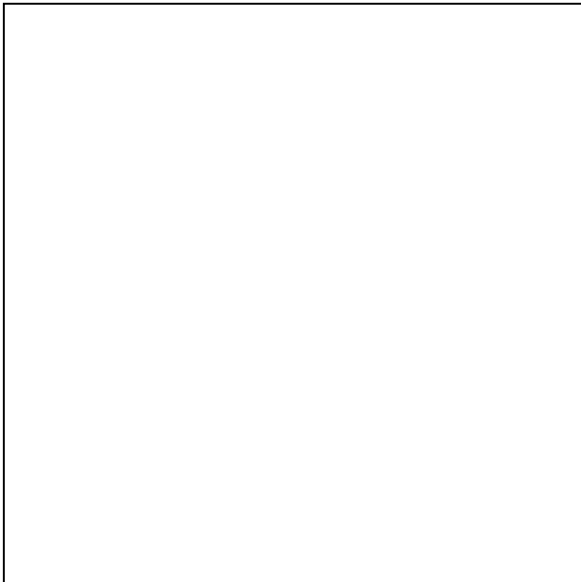
Voltage(V): 220.22 V  
Current(A): 0.2630 A  
Power(W): 56.25 W  
Power Factor: 0.9690  
Lamp Luminous Flux: 3377.73

### Photometric Results

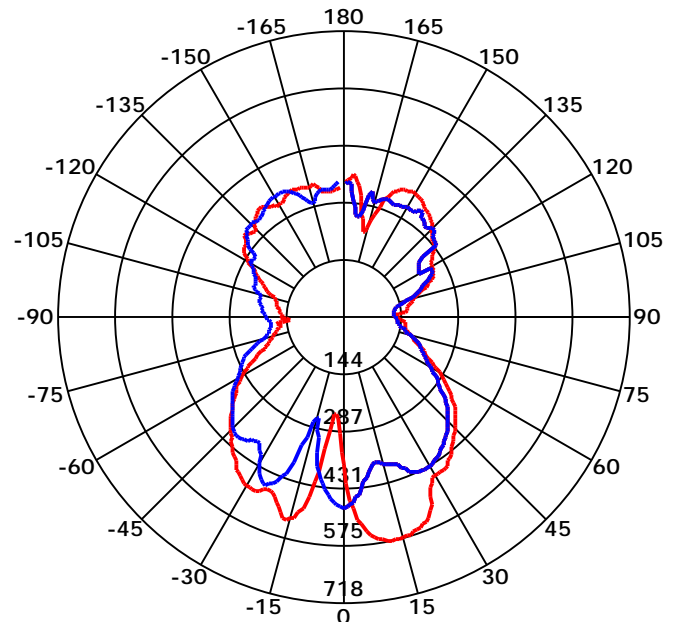
CIE Class: Direct  
Luminaire Luminous Flux: 3377.729  
Downward Ratio: 54.32%  
Luminaire Efficacy Rating(LER): 60.05 lm/W  
Beam Angle(50%Imax): L=-15.13 R=45.95  
Field Angle(10%Imax): L=0.00 R=0.00

Max. Intensity: 574.52 cd  
Max.Intensity Angle: C=0 Gamma=14  
Upward Ratio: 45.68%  
Efficacy: 100.00%  
Center Intensity: 367.77 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%Imax): 61.08 deg

C0-180 ——— C90-270 ———

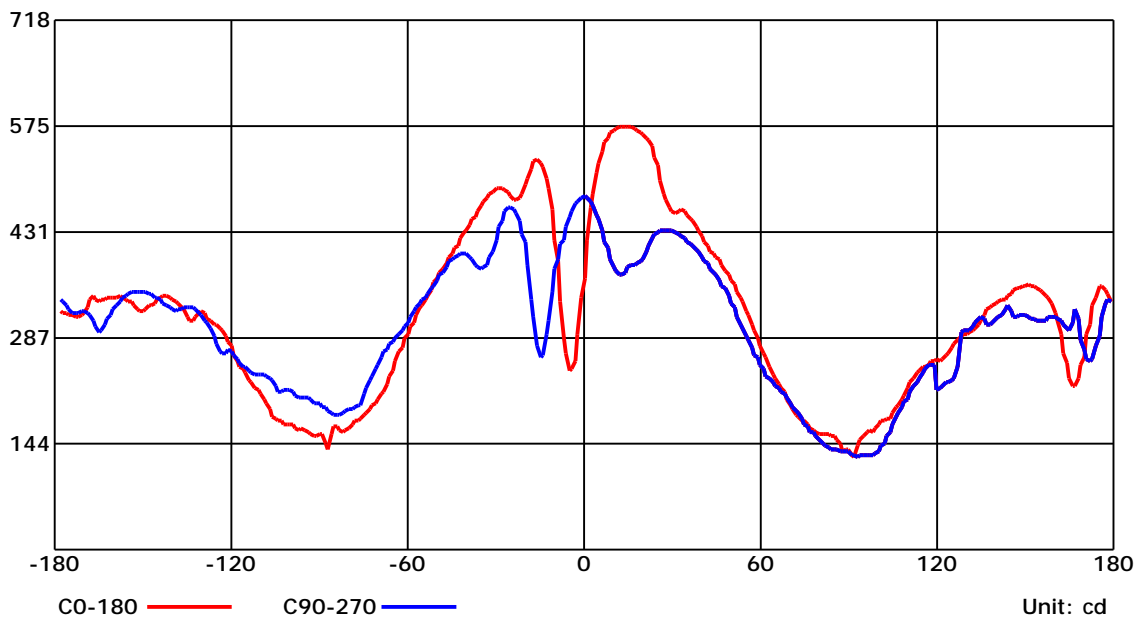
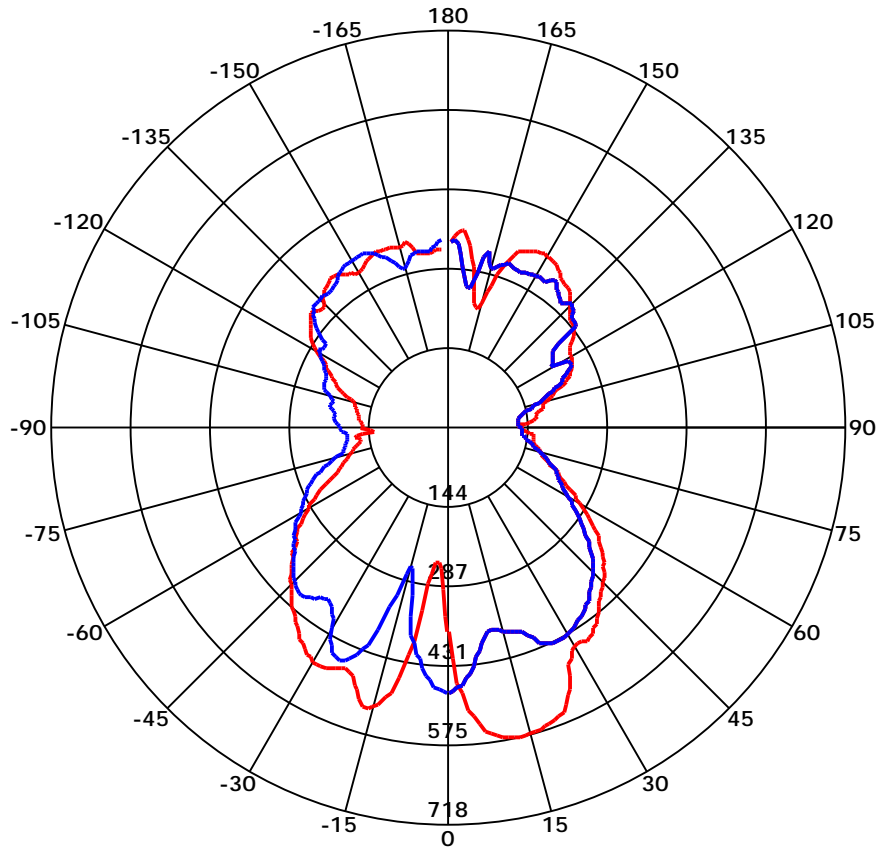
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature:  
Operators:  
Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1800B Goniophotometer  
Humidity:  
Test Distance: 5.95 m  
Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

### Luminous Intensity Distribution Curve



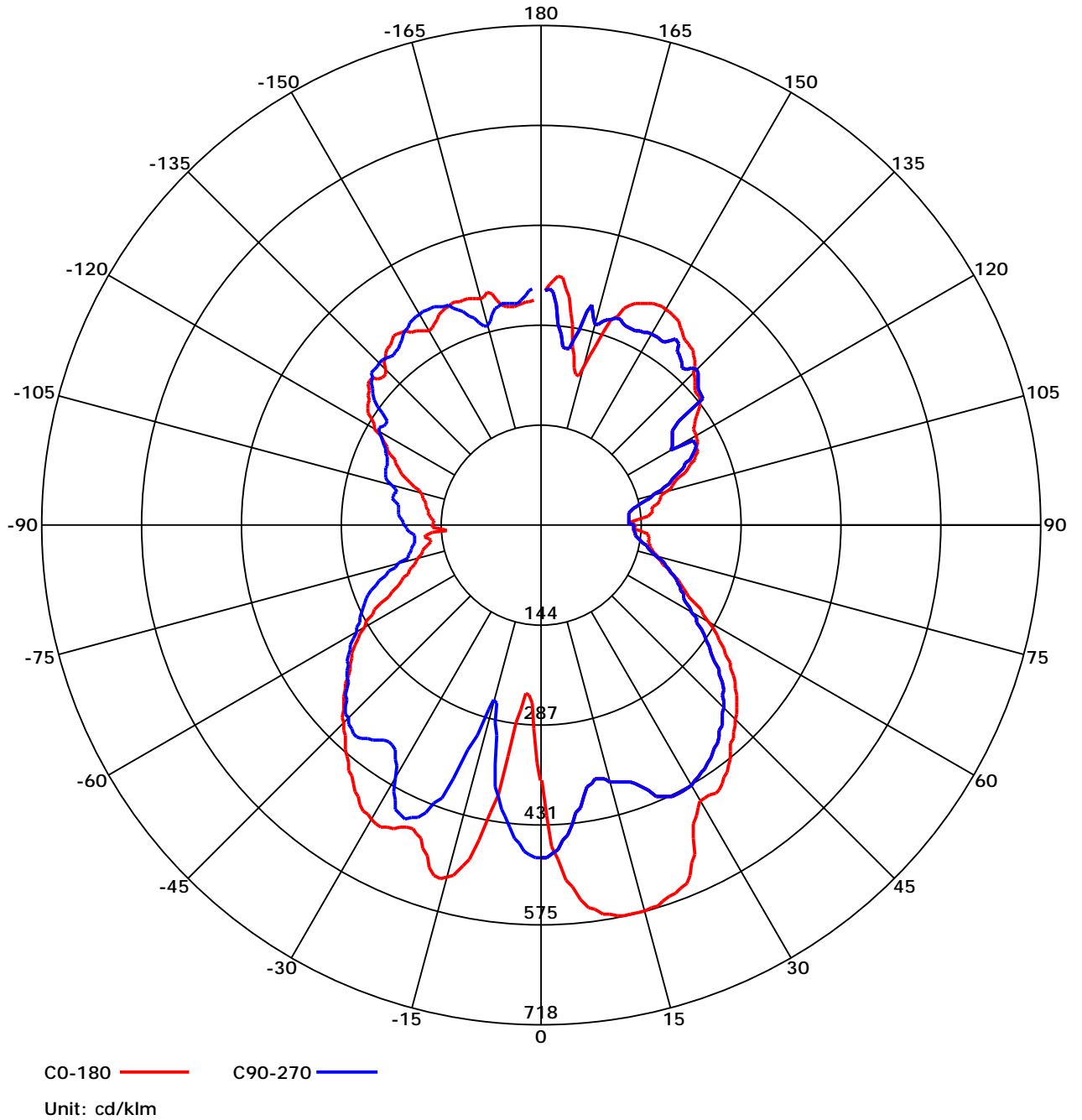
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

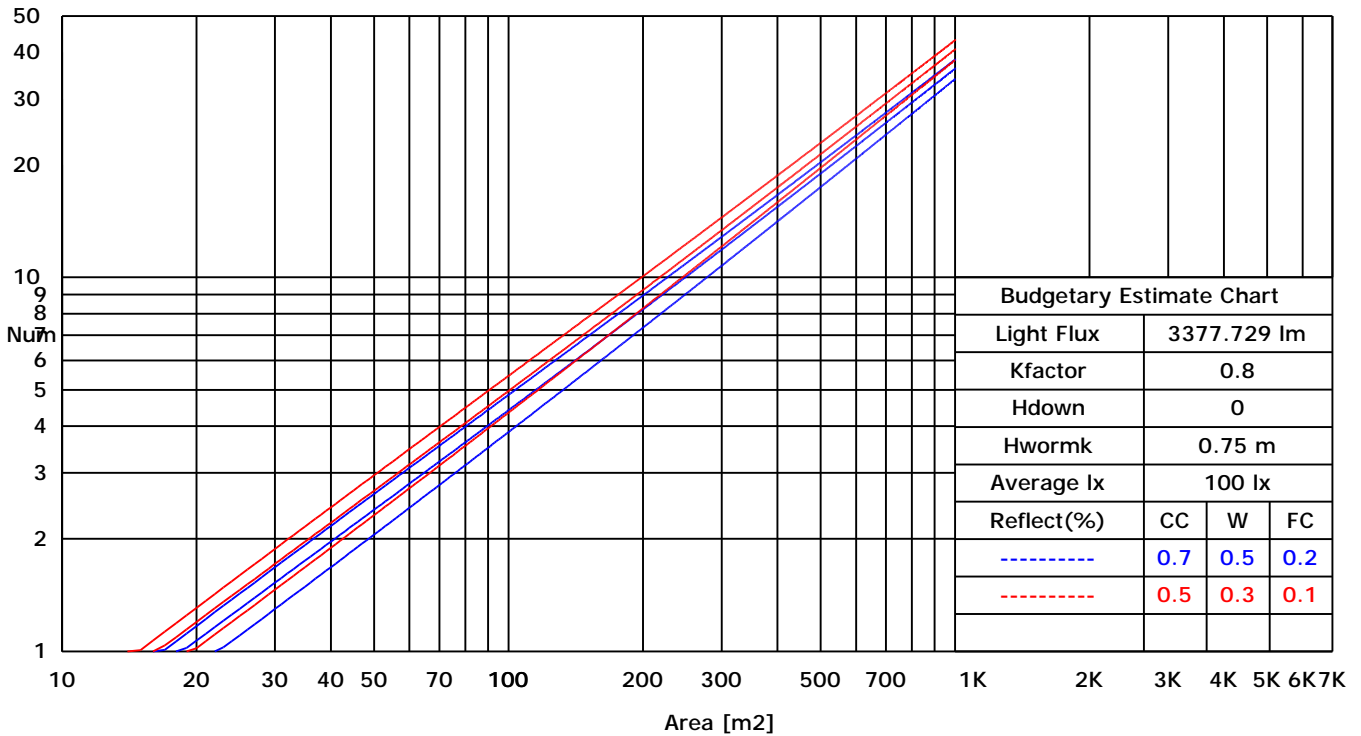
Report No.:

Test Time: 2019/11/4 9:52:05

### 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	1.06	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	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.84	0.81	0.79	0.74
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.86	0.84	0.82	0.85	0.82	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
5	0.81	0.80	0.78	0.81	0.78	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.63	0.59
7	0.75	0.73	0.72	0.75	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.57
8	0.73	0.71	0.70	0.72	0.70	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54
10	0.69	0.68	0.67	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.53

### LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



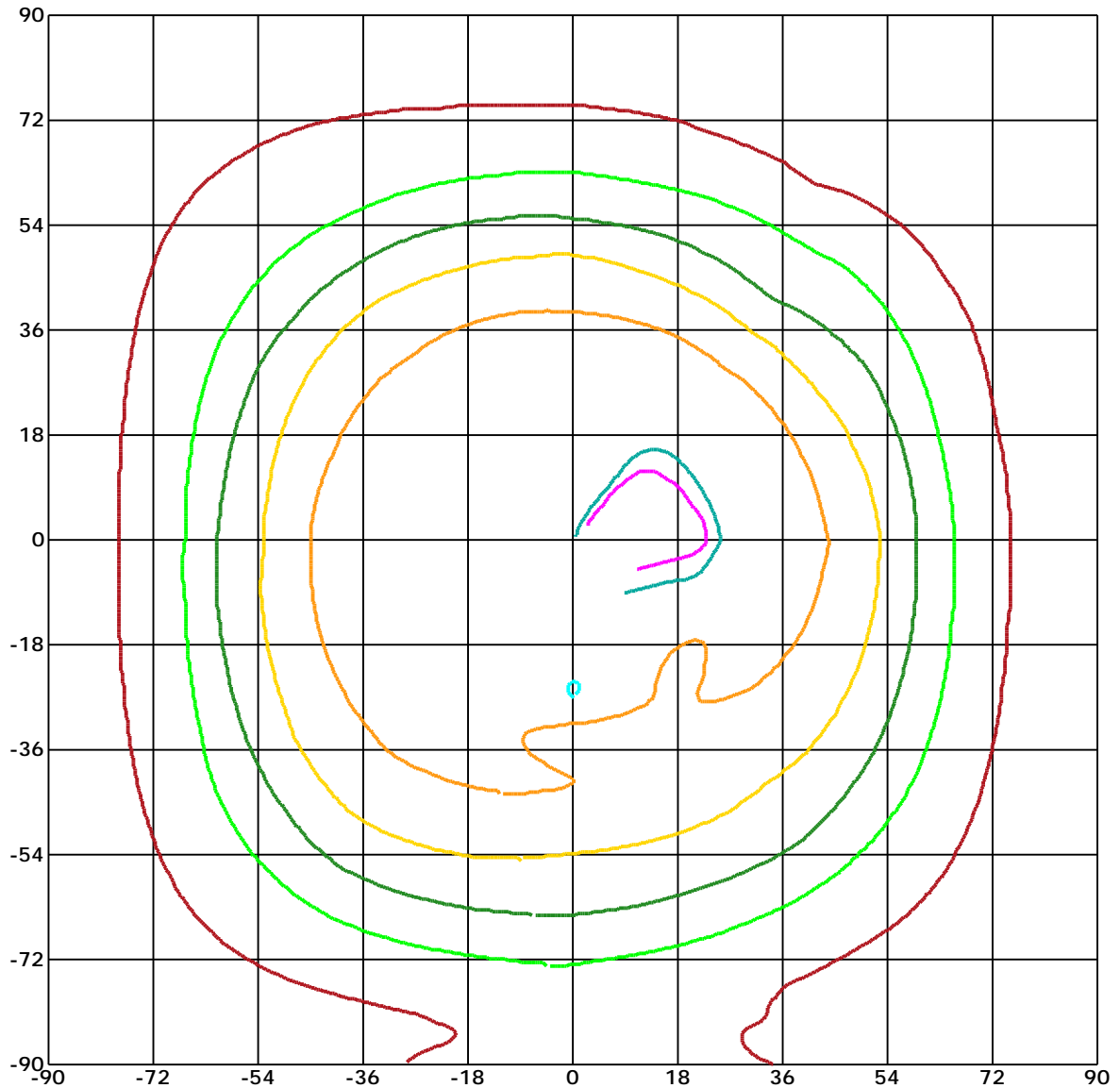
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity: cd      Imax(100%): 574.524 cd

- |                    |                    |
|--------------------|--------------------|
| — 545.798(95%Imax) | — 287.262(50%Imax) |
| — 517.072(90%Imax) | — 229.81(40%Imax)  |
| — 459.619(80%Imax) | — 172.357(30%Imax) |
| — 402.167(70%Imax) | — 114.905(20%Imax) |
| — 344.714(60%Imax) | — 57.452(10%Imax)  |

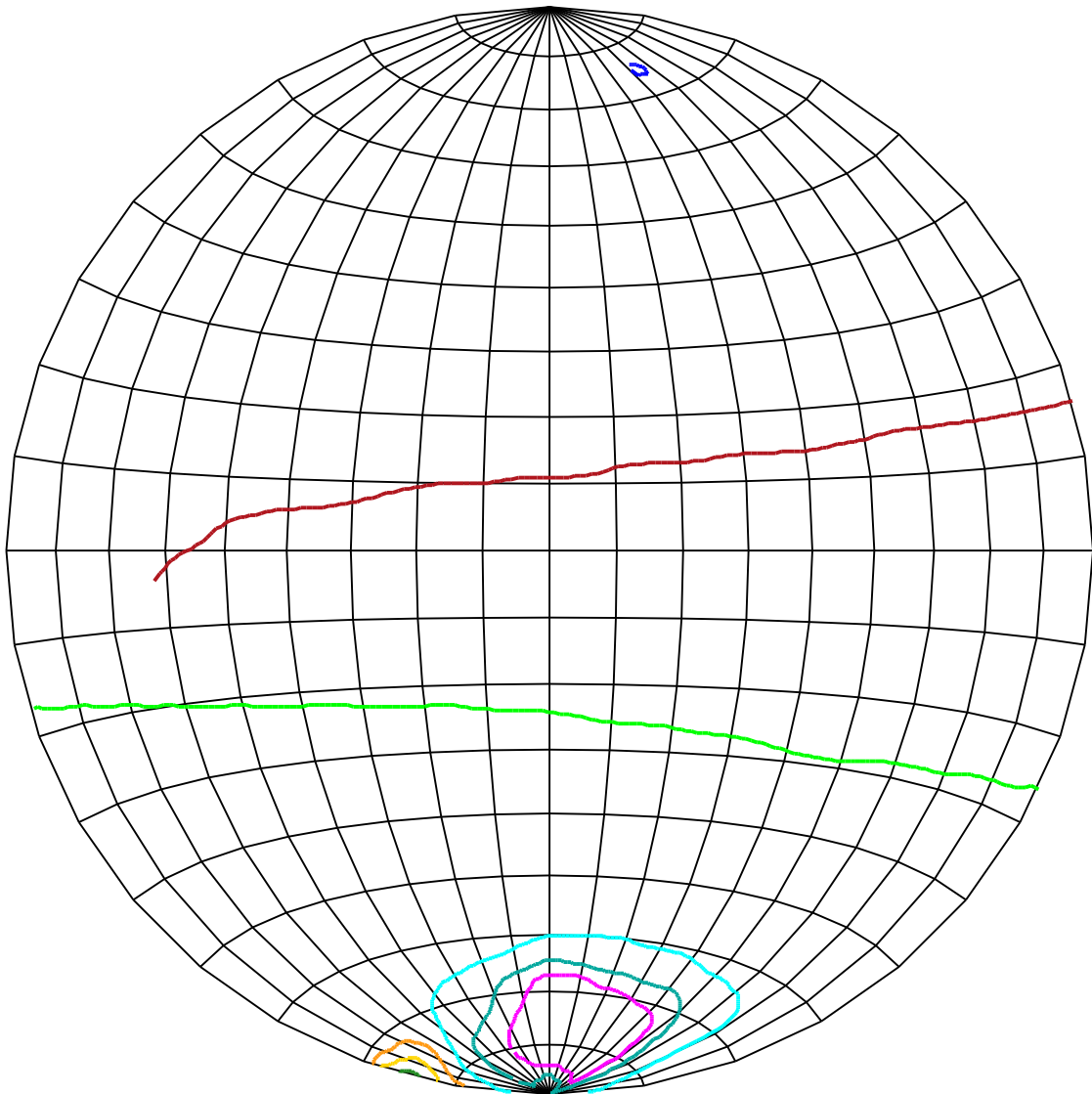
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd      I<sub>max</sub>(100%): 574.524 cd

— 545.798(95%I <sub>max</sub> )	— 287.262(50%I <sub>max</sub> )
— 517.072(90%I <sub>max</sub> )	— 229.81(40%I <sub>max</sub> )
— 459.619(80%I <sub>max</sub> )	— 172.357(30%I <sub>max</sub> )
— 402.167(70%I <sub>max</sub> )	— 114.905(20%I <sub>max</sub> )
— 344.714(60%I <sub>max</sub> )	— 57.452(10%I <sub>max</sub> )

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

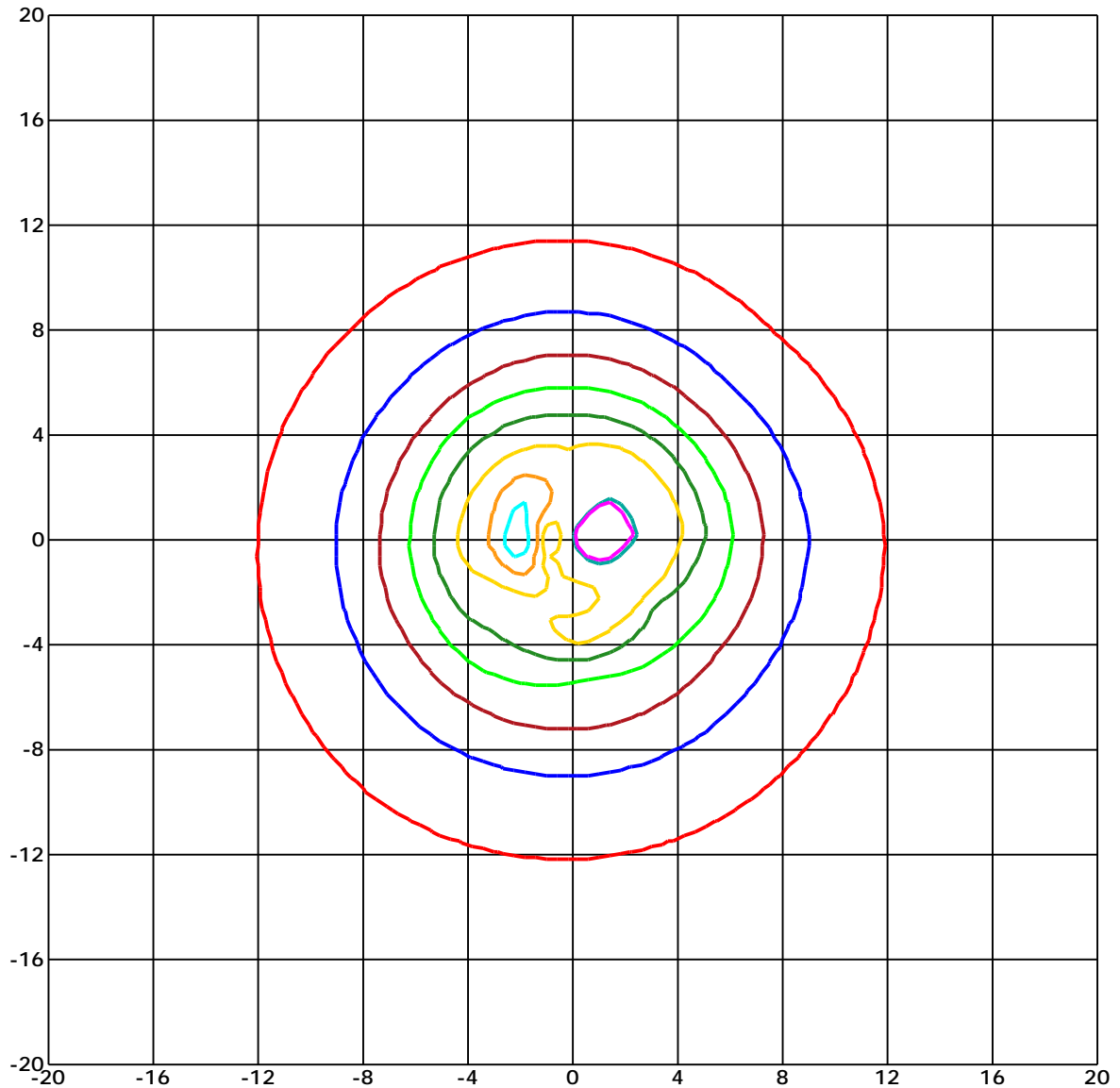
Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## ISOLX DIAGRAM



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

- |               |               |
|---------------|---------------|
| 7.904(1%Emax) | 4.295(1%Emax) |
| 7.732(1%Emax) | 3.436(1%Emax) |
| 6.873(1%Emax) | 2.577(0%Emax) |
| 6.014(1%Emax) | 1.718(0%Emax) |
| 5.154(1%Emax) | 0.859(0%Emax) |

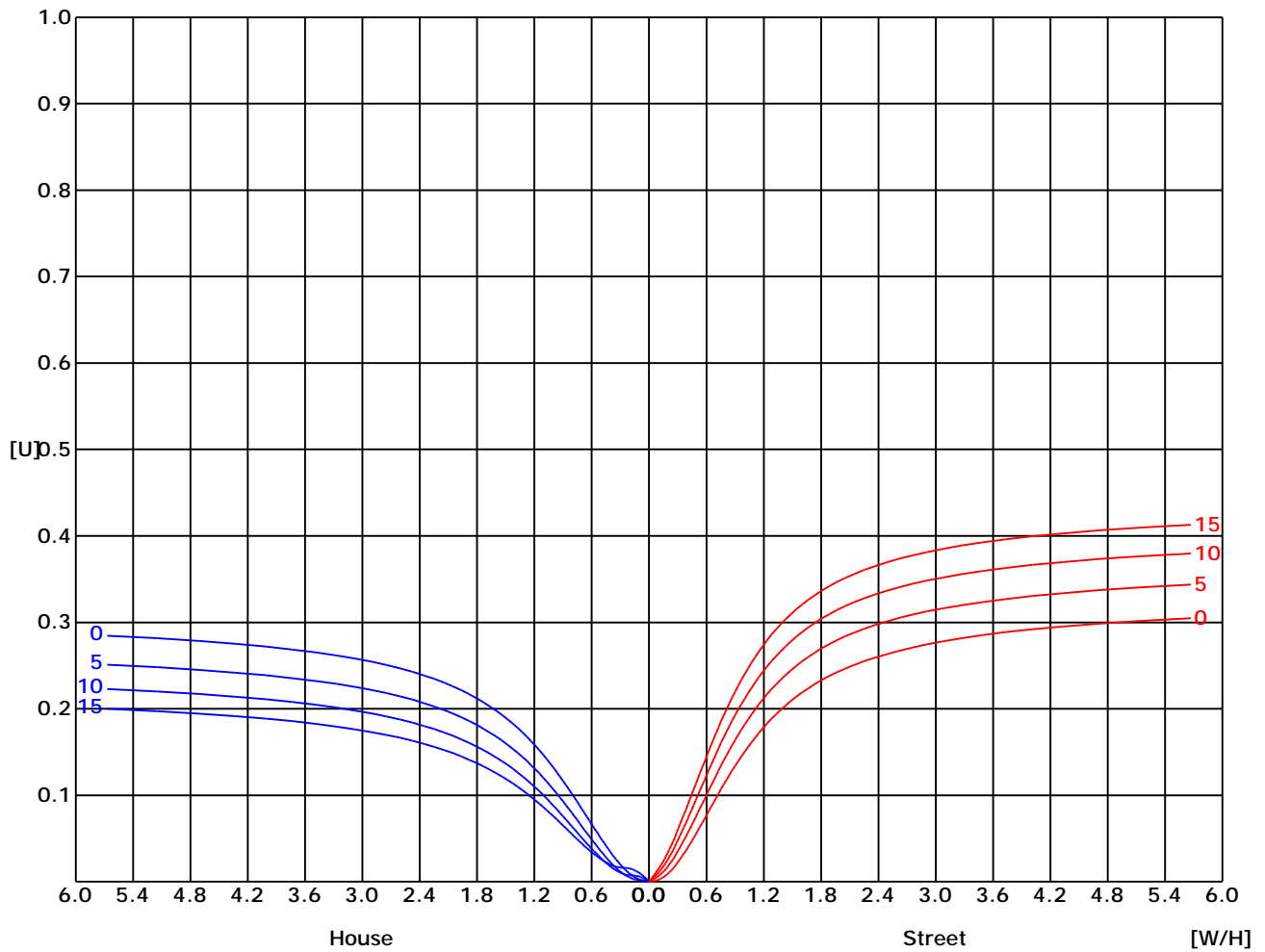
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

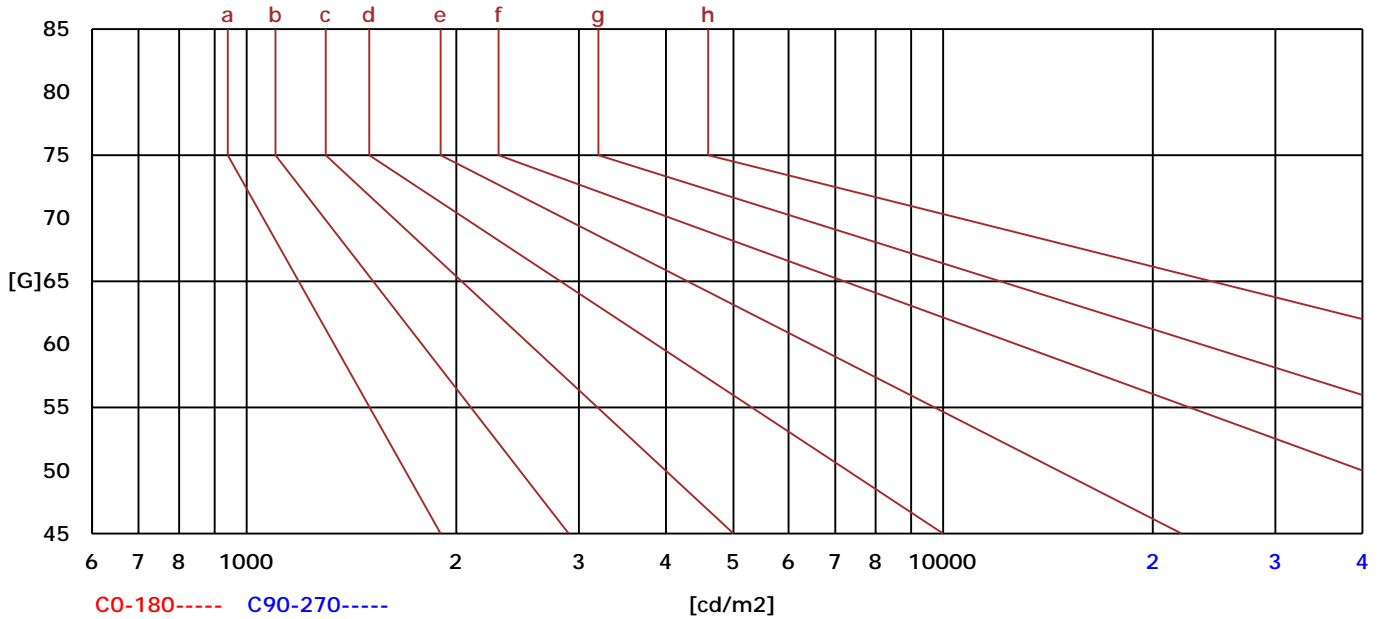


Report No.:

Test Time: 2019/11/4 9:52:05

### 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



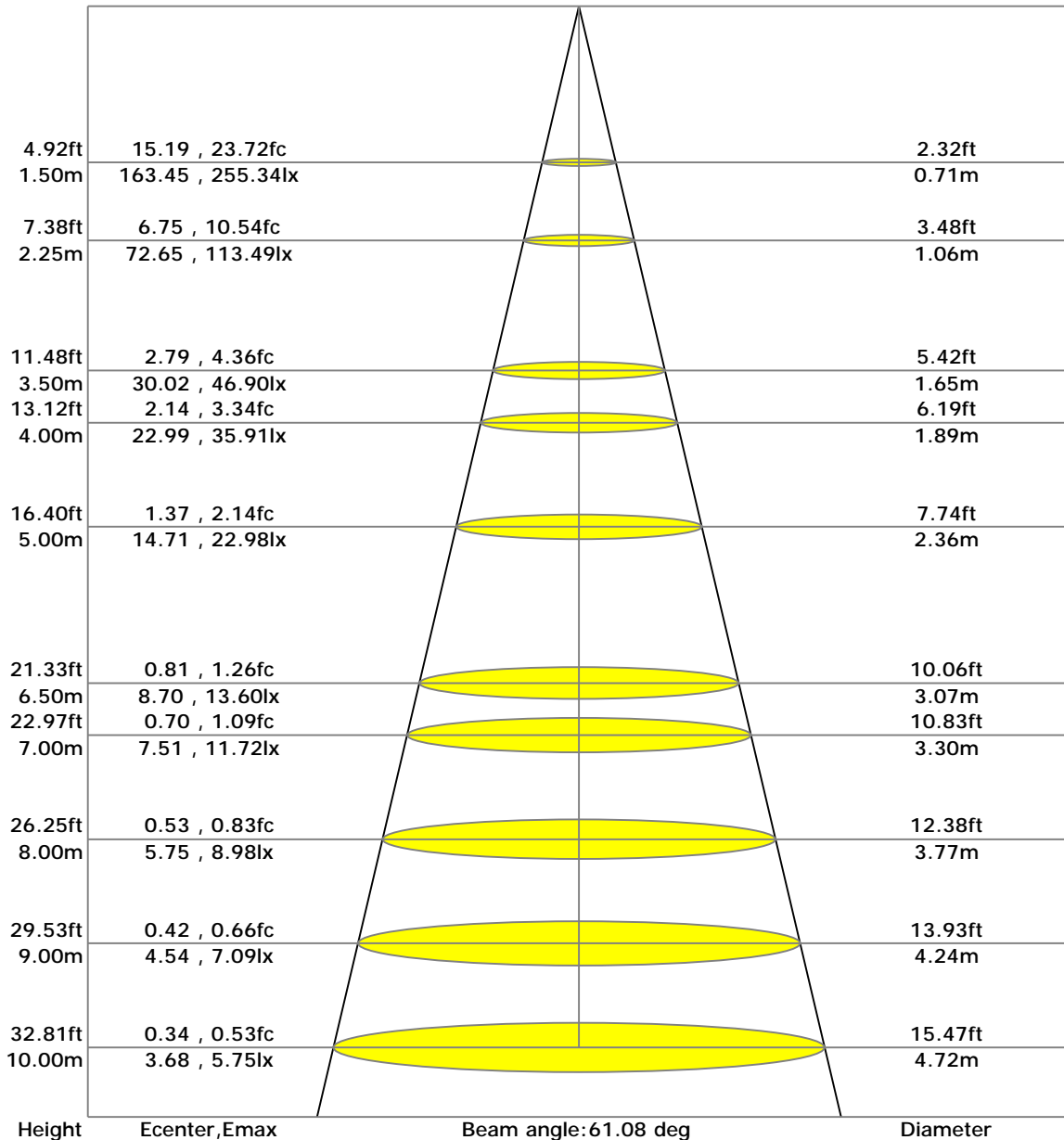
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

### LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## 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	19.26	18.98	18.75	19.00	18.68	18.41	18.31	17.97	17.65	17.42
	3H	17.62	17.28	17.03	17.43	17.01	16.70	16.88	16.39	15.98	16.16
	4H	16.38	16.03	15.78	16.23	15.78	15.46	15.78	15.22	14.78	15.18
	6H	15.42	15.07	14.84	15.29	14.84	14.52	14.92	14.32	13.87	14.40
	8H	14.65	14.32	14.11	14.54	14.10	13.80	14.21	13.60	13.16	13.77
	12H	14.03	13.72	13.52	13.93	13.50	13.22	13.63	13.03	12.60	13.24
4H	2H	13.52	13.23	13.04	13.42	13.01	12.74	13.14	12.55	12.14	12.79
	3H	13.10	12.82	12.65	12.99	12.60	12.35	12.73	12.16	11.76	12.40
	4H	12.74	12.47	12.31	12.63	12.26	12.03	12.38	11.82	11.45	12.06
	6H	12.43	12.18	12.03	12.33	11.97	11.75	12.07	11.53	11.18	11.77
	8H	12.17	11.93	11.79	12.06	11.72	11.51	11.80	11.29	10.95	11.51
	12H	11.94	11.72	11.58	11.83	11.50	11.31	11.57	11.07	10.75	11.27
8H	4H	11.74	11.53	11.40	11.62	11.31	11.13	11.36	10.89	10.58	11.07
	6H	11.56	11.36	11.24	11.44	11.15	10.97	11.18	10.72	10.43	10.88
	8H	11.41	11.22	11.10	11.28	11.00	10.83	11.01	10.57	10.30	10.72
	12H	11.27	11.09	10.98	11.14	10.87	10.71	10.86	10.44	10.18	10.57
12H	4H	11.15	10.97	10.87	11.01	10.76	10.60	10.73	10.33	10.07	10.43
	6H	11.03	10.87	10.77	10.90	10.65	10.51	10.61	10.22	9.98	10.31

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	457.16	0.00	0.00	0.00	0.00
5	444.01	10.70	10.70	0.32	0.32
10	436.64	31.09	41.79	0.92	1.24
15	456.72	53.73	95.52	1.59	2.83
20	466.10	76.40	171.92	2.26	5.09
25	457.16	96.84	268.76	2.87	7.96
30	444.60	113.19	381.95	3.35	11.31
35	434.99	128.89	510.84	3.82	15.12
40	415.92	140.56	651.40	4.16	19.29
45	389.01	146.93	798.33	4.35	23.64
50	360.10	148.84	947.16	4.41	28.04
55	325.14	145.65	1092.81	4.31	32.35
60	289.41	138.64	1231.45	4.10	36.46
65	249.42	126.83	1358.28	3.75	40.21
70	216.51	114.37	1472.65	3.39	43.60
75	185.85	101.52	1574.16	3.01	46.60
80	165.31	91.28	1665.44	2.70	49.31
85	157.48	85.89	1751.34	2.54	51.85
90	152.50	83.45	1834.78	2.47	54.32
95	156.89	84.67	1919.45	2.51	56.83
100	168.49	89.22	2008.66	2.64	59.47
105	181.57	95.37	2104.03	2.82	62.29
110	202.70	102.53	2206.56	3.04	65.33
115	214.82	106.52	2313.09	3.15	68.48
120	243.68	114.23	2427.32	3.38	71.86
125	259.46	117.43	2544.75	3.48	75.34
130	292.60	122.62	2667.37	3.63	78.97
135	303.69	121.62	2788.98	3.60	82.57
140	319.71	116.47	2905.46	3.45	86.02
145	332.78	109.69	3015.14	3.25	89.27
150	334.84	98.59	3113.74	2.92	92.18
155	327.11	83.57	3197.30	2.47	94.66
160	311.86	66.48	3263.78	1.97	96.63
165	285.04	48.37	3312.15	1.43	98.06
170	298.48	34.59	3346.74	1.02	99.08
175	331.65	23.05	3369.79	0.68	99.76
180	328.95	7.94	3377.73	0.24	100.00

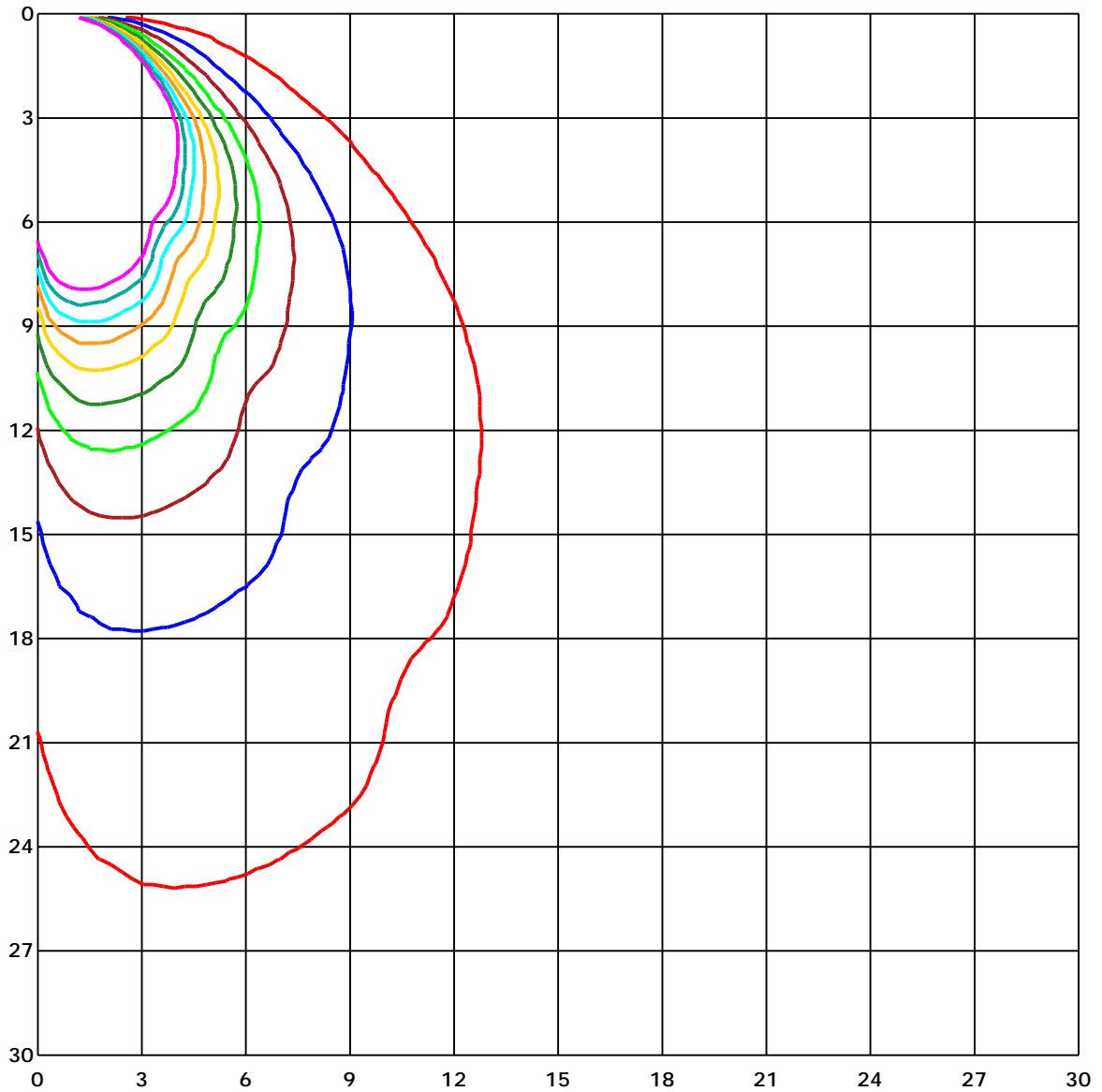
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

### SPACE ISOLX DIAGRAM



Unit of illumination: lx

- |         |         |
|---------|---------|
| — 8.59  | — 4.295 |
| — 7.731 | — 3.436 |
| — 6.872 | — 2.577 |
| — 6.013 | — 1.718 |
| — 5.154 | — 0.859 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

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## LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	367.77	510.8	478.94	471.15	367.77	510.8	478.94	471.15	367.77	
G1	419.11	525.67	477.88	453.09	342.46	501.95	477.17	499.47	419.11	
G2	463.01	537.35	471.86	414.15	292.12	481.77	472.92	515.76	463.01	
G3	482.12	543.02	466.9	394.68	255.09	457.7	469.38	521.07	482.12	
G4	512.22	551.16	454.86	358.21	244.86	443.18	457.7	529.92	512.22	
G5	522.84	554.34	447.78	343.31	243.83	406.72	450.97	532.75	522.84	
G6	540.54	558.95	432.91	324.16	266.17	363.17	437.16	536.29	540.54	
G7	553.28	561.42	417.34	325.04	285.82	343.31	420.88	535.94	553.28	
G8	557.88	561.78	409.55	331.88	336.23	310.67	413.44	534.52	557.88	
G9	565.32	562.13	394.68	354.32	392.2	299.87	393.97	530.62	565.32	
G10	567.8	561.78	383.0	386.18	419.11	305.0	381.93	528.5	567.8	
G11	571.69	560.72	378.04	402.11	461.94	328.26	349.72	522.48	571.69	
G12	573.82	559.65	373.08	432.91	490.97	359.63	309.61	518.94	573.82	
G13	574.52	557.53	374.15	458.4	501.95	375.21	290.95	510.8	574.52	
G14	574.52	555.05	376.62	467.96	518.23	397.51	263.65	500.18	574.52	
G15	574.17	553.64	382.64	482.12	524.25	401.41	261.18	493.81	574.17	
G16	572.75	550.1	385.12	492.39	529.21	397.16	276.65	480.35	572.75	
G17	571.69	547.97	385.47	496.28	527.08	391.14	315.7	468.32	571.69	
G18	568.86	543.72	387.95	500.18	517.17	388.66	339.7	463.71	568.86	
G19	565.32	539.12	391.85	498.05	502.66	384.06	386.89	460.88	565.32	
G20	563.55	534.87	394.68	495.58	494.87	382.29	417.69	457.34	563.55	
G21	558.95	523.54	404.24	489.56	482.12	379.81	428.67	453.45	558.95	
G22	556.47	517.53	410.96	486.73	477.52	378.39	444.6	442.47	556.47	
G23	546.56	500.53	422.65	481.06	473.27	378.39	455.93	435.04	546.56	
G24	530.98	486.37	428.31	474.33	475.75	383.0	460.17	418.4	530.98	
G25	521.42	480.0	430.79	472.21	478.58	386.89	465.13	402.47	521.42	
G26	500.18	468.32	432.91	471.5	485.31	394.68	463.01	387.95	500.18	
G27	481.77	460.17	433.62	472.21	488.5	398.93	459.11	383.7	481.77	
G28	474.69	458.05	433.62	473.27	490.62	408.84	446.01	382.29	474.69	
G29	463.71	455.93	432.56	472.21	489.91	419.11	438.58	384.77	463.71	
G30	458.05	453.45	431.85	471.15	488.85	423.36	419.82	391.85	458.05	
G31	456.99	450.97	429.37	469.73	485.31	431.5	403.88	397.51	456.99	
G32	458.05	445.3	427.6	468.67	483.54	434.68	396.8	399.64	458.05	
G33	460.17	438.22	424.42	466.19	477.88	439.29	385.83	403.18	460.17	
G34	459.11	434.68	422.29	464.42	471.15	441.41	382.64	404.24	459.11	
G35	454.51	426.9	418.04	458.4	467.25	441.76	380.16	404.59	454.51	
G36	448.14	418.4	413.8	450.26	459.11	441.06	383.35	402.47	448.14	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	367.77	510.8	478.94	471.15	367.77	510.8	478.94	471.15	367.77	
G38	419.11	525.67	477.88	453.09	342.46	501.95	477.17	499.47	419.11	
G39	463.01	537.35	471.86	414.15	292.12	481.77	472.92	515.76	463.01	
G40	482.12	543.02	466.9	394.68	255.09	457.7	469.38	521.07	482.12	
G41	512.22	551.16	454.86	358.21	244.86	443.18	457.7	529.92	512.22	
G42	522.84	554.34	447.78	343.31	243.83	406.72	450.97	532.75	522.84	
G43	540.54	558.95	432.91	324.16	266.17	363.17	437.16	536.29	540.54	
G44	553.28	561.42	417.34	325.04	285.82	343.31	420.88	535.94	553.28	
G45	557.88	561.78	409.55	331.88	336.23	310.67	413.44	534.52	557.88	
G46	565.32	562.13	394.68	354.32	392.2	299.87	393.97	530.62	565.32	
G47	567.8	561.78	383.0	386.18	419.11	305.0	381.93	528.5	567.8	
G48	571.69	560.72	378.04	402.11	461.94	328.26	349.72	522.48	571.69	
G49	573.82	559.65	373.08	432.91	490.97	359.63	309.61	518.94	573.82	
G50	574.52	557.53	374.15	458.4	501.95	375.21	290.95	510.8	574.52	
G51	574.52	555.05	376.62	467.96	518.23	397.51	263.65	500.18	574.52	
G52	574.17	553.64	382.64	482.12	524.25	401.41	261.18	493.81	574.17	
G53	572.75	550.1	385.12	492.39	529.21	397.16	276.65	480.35	572.75	
G54	571.69	547.97	385.47	496.28	527.08	391.14	315.7	468.32	571.69	
G55	568.86	543.72	387.95	500.18	517.17	388.66	339.7	463.71	568.86	
G56	565.32	539.12	391.85	498.05	502.66	384.06	386.89	460.88	565.32	
G57	563.55	534.87	394.68	495.58	494.87	382.29	417.69	457.34	563.55	
G58	558.95	523.54	404.24	489.56	482.12	379.81	428.67	453.45	558.95	
G59	556.47	517.53	410.96	486.73	477.52	378.39	444.6	442.47	556.47	
G60	546.56	500.53	422.65	481.06	473.27	378.39	455.93	435.04	546.56	
G61	530.98	486.37	428.31	474.33	475.75	383.0	460.17	418.4	530.98	
G62	521.42	480.0	430.79	472.21	478.58	386.89	465.13	402.47	521.42	
G63	500.18	468.32	432.91	471.5	485.31	394.68	463.01	387.95	500.18	
G64	481.77	460.17	433.62	472.21	488.5	398.93	459.11	383.7	481.77	
G65	474.69	458.05	433.62	473.27	490.62	408.84	446.01	382.29	474.69	
G66	463.71	455.93	432.56	472.21	489.91	419.11	438.58	384.77	463.71	
G67	458.05	453.45	431.85	471.15	488.85	423.36	419.82	391.85	458.05	
G68	456.99	450.97	429.37	469.73	485.31	431.5	403.88	397.51	456.99	
G69	458.05	445.3	427.6	468.67	483.54	434.68	396.8	399.64	458.05	
G70	460.17	438.22	424.42	466.19	477.88	439.29	385.83	403.18	460.17	
G71	459.11	434.68	422.29	464.42	471.15	441.41	382.64	404.24	459.11	
G72	454.51	426.9	418.04	458.4	467.25	441.76	380.16	404.59	454.51	
G73	448.14	418.4	413.8	450.26	459.11	441.06	383.35	402.47	448.14	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	367.77	510.8	478.94	471.15	367.77	510.8	478.94	471.15	367.77	
G75	419.11	525.67	477.88	453.09	342.46	501.95	477.17	499.47	419.11	
G76	463.01	537.35	471.86	414.15	292.12	481.77	472.92	515.76	463.01	
G77	482.12	543.02	466.9	394.68	255.09	457.7	469.38	521.07	482.12	
G78	512.22	551.16	454.86	358.21	244.86	443.18	457.7	529.92	512.22	
G79	522.84	554.34	447.78	343.31	243.83	406.72	450.97	532.75	522.84	
G80	540.54	558.95	432.91	324.16	266.17	363.17	437.16	536.29	540.54	
G81	553.28	561.42	417.34	325.04	285.82	343.31	420.88	535.94	553.28	
G82	557.88	561.78	409.55	331.88	336.23	310.67	413.44	534.52	557.88	
G83	565.32	562.13	394.68	354.32	392.2	299.87	393.97	530.62	565.32	
G84	567.8	561.78	383.0	386.18	419.11	305.0	381.93	528.5	567.8	
G85	571.69	560.72	378.04	402.11	461.94	328.26	349.72	522.48	571.69	
G86	573.82	559.65	373.08	432.91	490.97	359.63	309.61	518.94	573.82	
G87	574.52	557.53	374.15	458.4	501.95	375.21	290.95	510.8	574.52	
G88	574.52	555.05	376.62	467.96	518.23	397.51	263.65	500.18	574.52	
G89	574.17	553.64	382.64	482.12	524.25	401.41	261.18	493.81	574.17	
G90	572.75	550.1	385.12	492.39	529.21	397.16	276.65	480.35	572.75	
G91	571.69	547.97	385.47	496.28	527.08	391.14	315.7	468.32	571.69	
G92	568.86	543.72	387.95	500.18	517.17	388.66	339.7	463.71	568.86	
G93	565.32	539.12	391.85	498.05	502.66	384.06	386.89	460.88	565.32	
G94	563.55	534.87	394.68	495.58	494.87	382.29	417.69	457.34	563.55	
G95	558.95	523.54	404.24	489.56	482.12	379.81	428.67	453.45	558.95	
G96	556.47	517.53	410.96	486.73	477.52	378.39	444.6	442.47	556.47	
G97	546.56	500.53	422.65	481.06	473.27	378.39	455.93	435.04	546.56	
G98	530.98	486.37	428.31	474.33	475.75	383.0	460.17	418.4	530.98	
G99	521.42	480.0	430.79	472.21	478.58	386.89	465.13	402.47	521.42	
G100	500.18	468.32	432.91	471.5	485.31	394.68	463.01	387.95	500.18	
G101	481.77	460.17	433.62	472.21	488.5	398.93	459.11	383.7	481.77	
G102	474.69	458.05	433.62	473.27	490.62	408.84	446.01	382.29	474.69	
G103	463.71	455.93	432.56	472.21	489.91	419.11	438.58	384.77	463.71	
G104	458.05	453.45	431.85	471.15	488.85	423.36	419.82	391.85	458.05	
G105	456.99	450.97	429.37	469.73	485.31	431.5	403.88	397.51	456.99	
G106	458.05	445.3	427.6	468.67	483.54	434.68	396.8	399.64	458.05	
G107	460.17	438.22	424.42	466.19	477.88	439.29	385.83	403.18	460.17	
G108	459.11	434.68	422.29	464.42	471.15	441.41	382.64	404.24	459.11	
G109	454.51	426.9	418.04	458.4	467.25	441.76	380.16	404.59	454.51	
G110	448.14	418.4	413.8	450.26	459.11	441.06	383.35	402.47	448.14	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:



Report No.:

Test Time: 2019/11/4 9:52:05

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G111	367.77	510.8	478.94	471.15	367.77	510.8	478.94	471.15	367.77	
G112	419.11	525.67	477.88	453.09	342.46	501.95	477.17	499.47	419.11	
G113	463.01	537.35	471.86	414.15	292.12	481.77	472.92	515.76	463.01	
G114	482.12	543.02	466.9	394.68	255.09	457.7	469.38	521.07	482.12	
G115	512.22	551.16	454.86	358.21	244.86	443.18	457.7	529.92	512.22	
G116	522.84	554.34	447.78	343.31	243.83	406.72	450.97	532.75	522.84	
G117	540.54	558.95	432.91	324.16	266.17	363.17	437.16	536.29	540.54	
G118	553.28	561.42	417.34	325.04	285.82	343.31	420.88	535.94	553.28	
G119	557.88	561.78	409.55	331.88	336.23	310.67	413.44	534.52	557.88	
G120	565.32	562.13	394.68	354.32	392.2	299.87	393.97	530.62	565.32	
G121	567.8	561.78	383.0	386.18	419.11	305.0	381.93	528.5	567.8	
G122	571.69	560.72	378.04	402.11	461.94	328.26	349.72	522.48	571.69	
G123	573.82	559.65	373.08	432.91	490.97	359.63	309.61	518.94	573.82	
G124	574.52	557.53	374.15	458.4	501.95	375.21	290.95	510.8	574.52	
G125	574.52	555.05	376.62	467.96	518.23	397.51	263.65	500.18	574.52	
G126	574.17	553.64	382.64	482.12	524.25	401.41	261.18	493.81	574.17	
G127	572.75	550.1	385.12	492.39	529.21	397.16	276.65	480.35	572.75	
G128	571.69	547.97	385.47	496.28	527.08	391.14	315.7	468.32	571.69	
G129	568.86	543.72	387.95	500.18	517.17	388.66	339.7	463.71	568.86	
G130	565.32	539.12	391.85	498.05	502.66	384.06	386.89	460.88	565.32	
G131	563.55	534.87	394.68	495.58	494.87	382.29	417.69	457.34	563.55	
G132	558.95	523.54	404.24	489.56	482.12	379.81	428.67	453.45	558.95	
G133	556.47	517.53	410.96	486.73	477.52	378.39	444.6	442.47	556.47	
G134	546.56	500.53	422.65	481.06	473.27	378.39	455.93	435.04	546.56	
G135	530.98	486.37	428.31	474.33	475.75	383.0	460.17	418.4	530.98	
G136	521.42	480.0	430.79	472.21	478.58	386.89	465.13	402.47	521.42	
G137	500.18	468.32	432.91	471.5	485.31	394.68	463.01	387.95	500.18	
G138	481.77	460.17	433.62	472.21	488.5	398.93	459.11	383.7	481.77	
G139	474.69	458.05	433.62	473.27	490.62	408.84	446.01	382.29	474.69	
G140	463.71	455.93	432.56	472.21	489.91	419.11	438.58	384.77	463.71	
G141	458.05	453.45	431.85	471.15	488.85	423.36	419.82	391.85	458.05	
G142	456.99	450.97	429.37	469.73	485.31	431.5	403.88	397.51	456.99	
G143	458.05	445.3	427.6	468.67	483.54	434.68	396.8	399.64	458.05	
G144	460.17	438.22	424.42	466.19	477.88	439.29	385.83	403.18	460.17	
G145	459.11	434.68	422.29	464.42	471.15	441.41	382.64	404.24	459.11	
G146	454.51	426.9	418.04	458.4	467.25	441.76	380.16	404.59	454.51	
G147	448.14	418.4	413.8	450.26	459.11	441.06	383.35	402.47	448.14	

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks:

Report No.:

Test Time: 2019/11/4 9:52:05

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G148	367.77	510.8	478.94	471.15	367.77	510.8	478.94	471.15	367.77	
G149	419.11	525.67	477.88	453.09	342.46	501.95	477.17	499.47	419.11	
G150	463.01	537.35	471.86	414.15	292.12	481.77	472.92	515.76	463.01	
G151	482.12	543.02	466.9	394.68	255.09	457.7	469.38	521.07	482.12	
G152	512.22	551.16	454.86	358.21	244.86	443.18	457.7	529.92	512.22	
G153	522.84	554.34	447.78	343.31	243.83	406.72	450.97	532.75	522.84	
G154	540.54	558.95	432.91	324.16	266.17	363.17	437.16	536.29	540.54	
G155	553.28	561.42	417.34	325.04	285.82	343.31	420.88	535.94	553.28	
G156	557.88	561.78	409.55	331.88	336.23	310.67	413.44	534.52	557.88	
G157	565.32	562.13	394.68	354.32	392.2	299.87	393.97	530.62	565.32	
G158	567.8	561.78	383.0	386.18	419.11	305.0	381.93	528.5	567.8	
G159	571.69	560.72	378.04	402.11	461.94	328.26	349.72	522.48	571.69	
G160	573.82	559.65	373.08	432.91	490.97	359.63	309.61	518.94	573.82	
G161	574.52	557.53	374.15	458.4	501.95	375.21	290.95	510.8	574.52	
G162	574.52	555.05	376.62	467.96	518.23	397.51	263.65	500.18	574.52	
G163	574.17	553.64	382.64	482.12	524.25	401.41	261.18	493.81	574.17	
G164	572.75	550.1	385.12	492.39	529.21	397.16	276.65	480.35	572.75	
G165	571.69	547.97	385.47	496.28	527.08	391.14	315.7	468.32	571.69	
G166	568.86	543.72	387.95	500.18	517.17	388.66	339.7	463.71	568.86	
G167	565.32	539.12	391.85	498.05	502.66	384.06	386.89	460.88	565.32	
G168	563.55	534.87	394.68	495.58	494.87	382.29	417.69	457.34	563.55	
G169	558.95	523.54	404.24	489.56	482.12	379.81	428.67	453.45	558.95	
G170	556.47	517.53	410.96	486.73	477.52	378.39	444.6	442.47	556.47	
G171	546.56	500.53	422.65	481.06	473.27	378.39	455.93	435.04	546.56	
G172	530.98	486.37	428.31	474.33	475.75	383.0	460.17	418.4	530.98	
G173	521.42	480.0	430.79	472.21	478.58	386.89	465.13	402.47	521.42	
G174	500.18	468.32	432.91	471.5	485.31	394.68	463.01	387.95	500.18	
G175	481.77	460.17	433.62	472.21	488.5	398.93	459.11	383.7	481.77	
G176	474.69	458.05	433.62	473.27	490.62	408.84	446.01	382.29	474.69	
G177	463.71	455.93	432.56	472.21	489.91	419.11	438.58	384.77	463.71	
G178	458.05	453.45	431.85	471.15	488.85	423.36	419.82	391.85	458.05	
G179	456.99	450.97	429.37	469.73	485.31	431.5	403.88	397.51	456.99	
G180	458.05	445.3	427.6	468.67	483.54	434.68	396.8	399.64	458.05	

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature:  
 Operators:  
 Test Date: 2019/11/4 9:52:05

G Range: 0 - 180 Deg  
 G Interval: 1.0 Deg  
 Test System: Huipu CPM-1800B Goniophotometer  
 Humidity:  
 Test Distance: 5.95 m  
 Remarks: