

Report No.:

Test Time: 2023/1/12 10:22:23

LUMINAIRE PHOTOMETRIC TEST REPORT

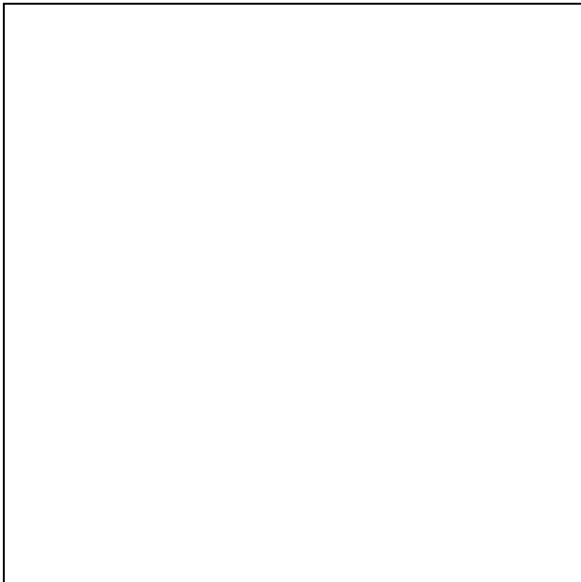
Luminaire Property

Manufacturer: 0	Voltage(V): 219.50 V
Luminaire Type: 34W	Current(A): 0.2660 A
Lamp Type:	Power(W): 34.15 W
Luminous Width: 0 mm	Power Factor: 0.5840
Luminous Length: 0 mm	Lamp Luminous Flux: 3042.55
Luminous Height: 0 mm	

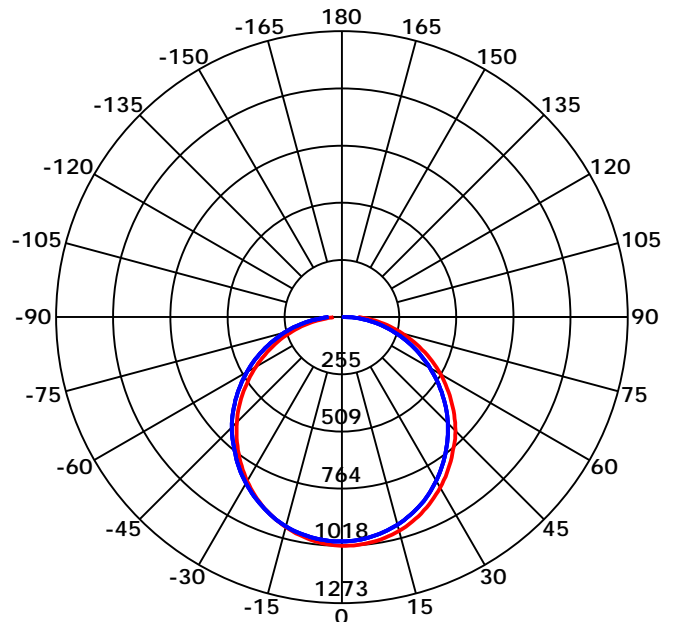
Photometric Results

CIE Class: Direct	Max. Intensity: 1018.22 cd
Luminaire Luminous Flux: 3042.546 lm	Max. Intensity Angle: C=0 Gamma=1
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 89.09 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 115.4,116.1	Center Intensity: 1018.02 cd
Field Angle(10%) C0-180,C90-270: 170.1,170.4	Effective Luminous Flux: 3001.78 lm
S/MH C0-180,C90-270: 1.250,1.250	ERP(φuse)(120deg): 2288.33 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 115.4 deg,116.1 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

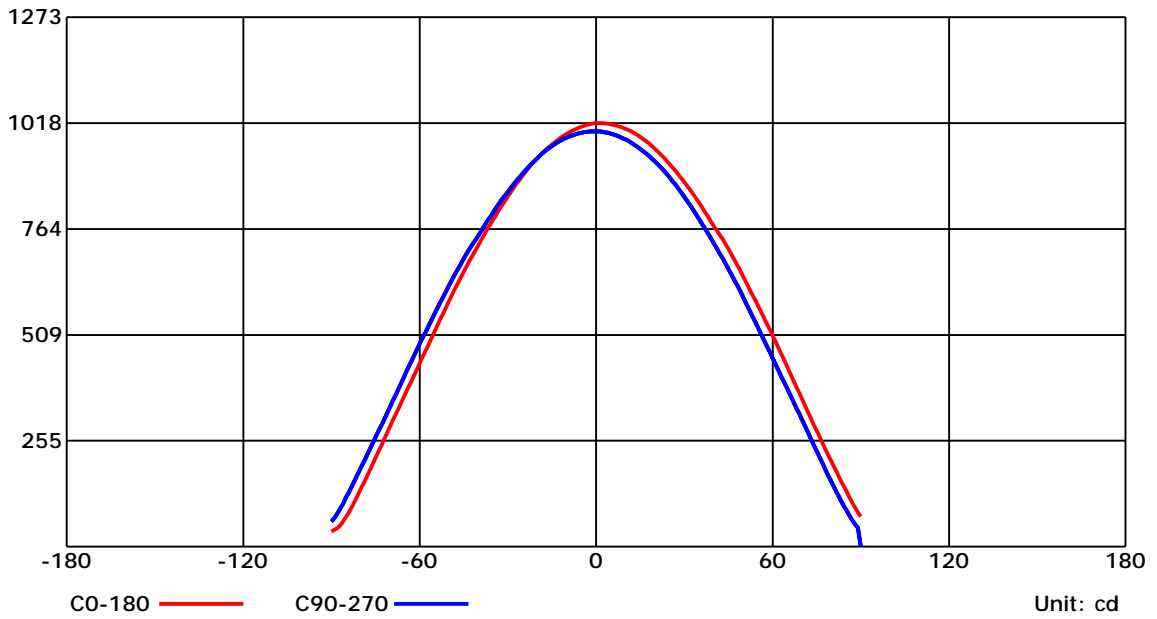
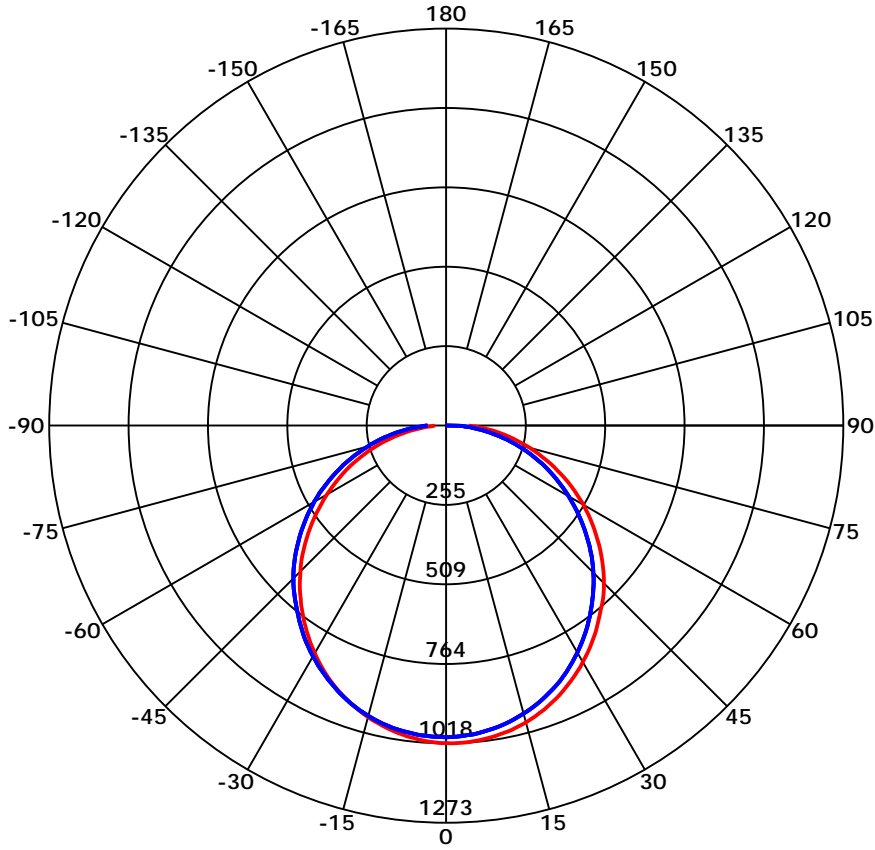
Test Distance: 6.38 m

Remarks:

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Luminous Intensity Distribution Curve



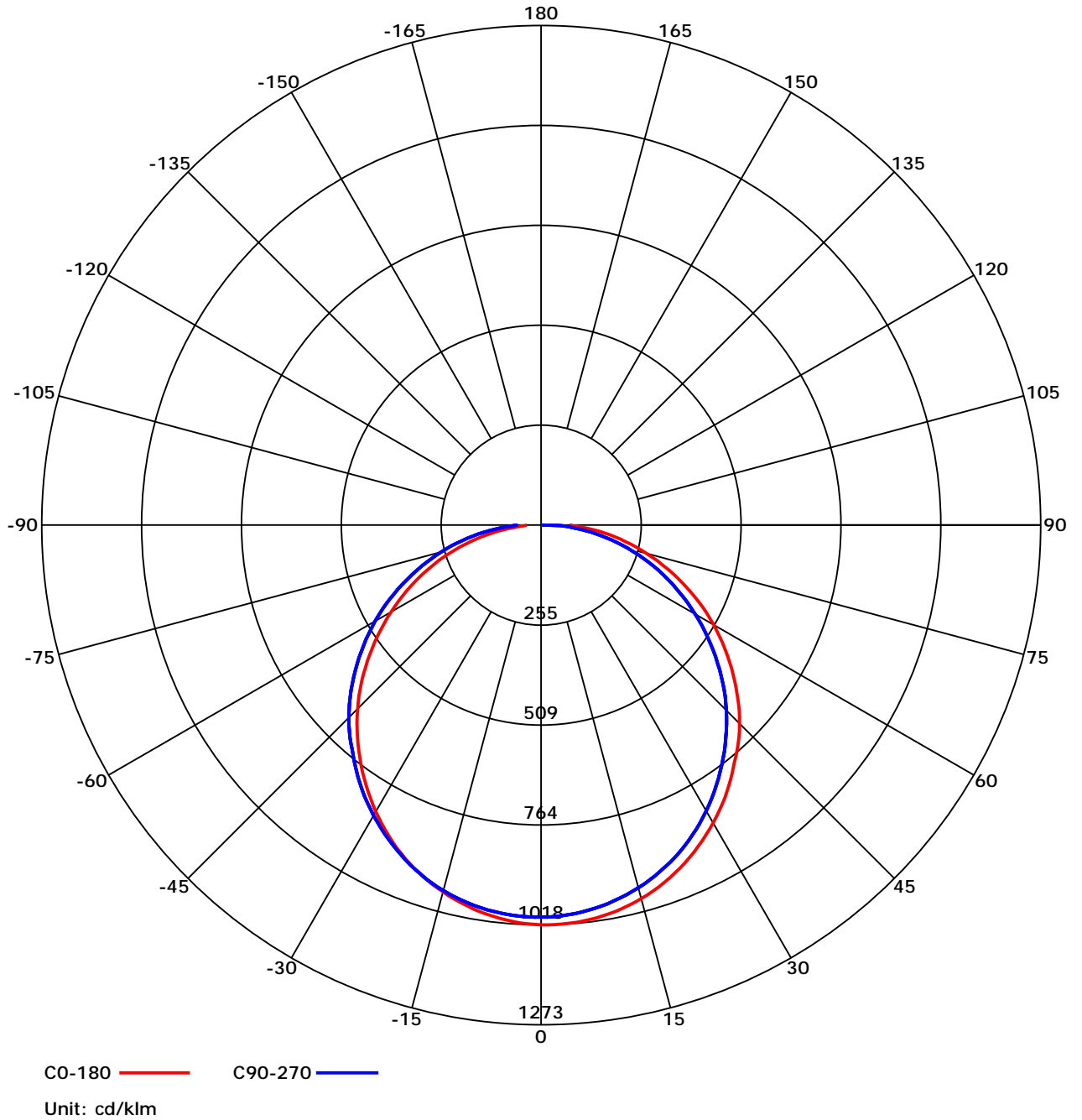
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/1/12 10:22:23

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

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

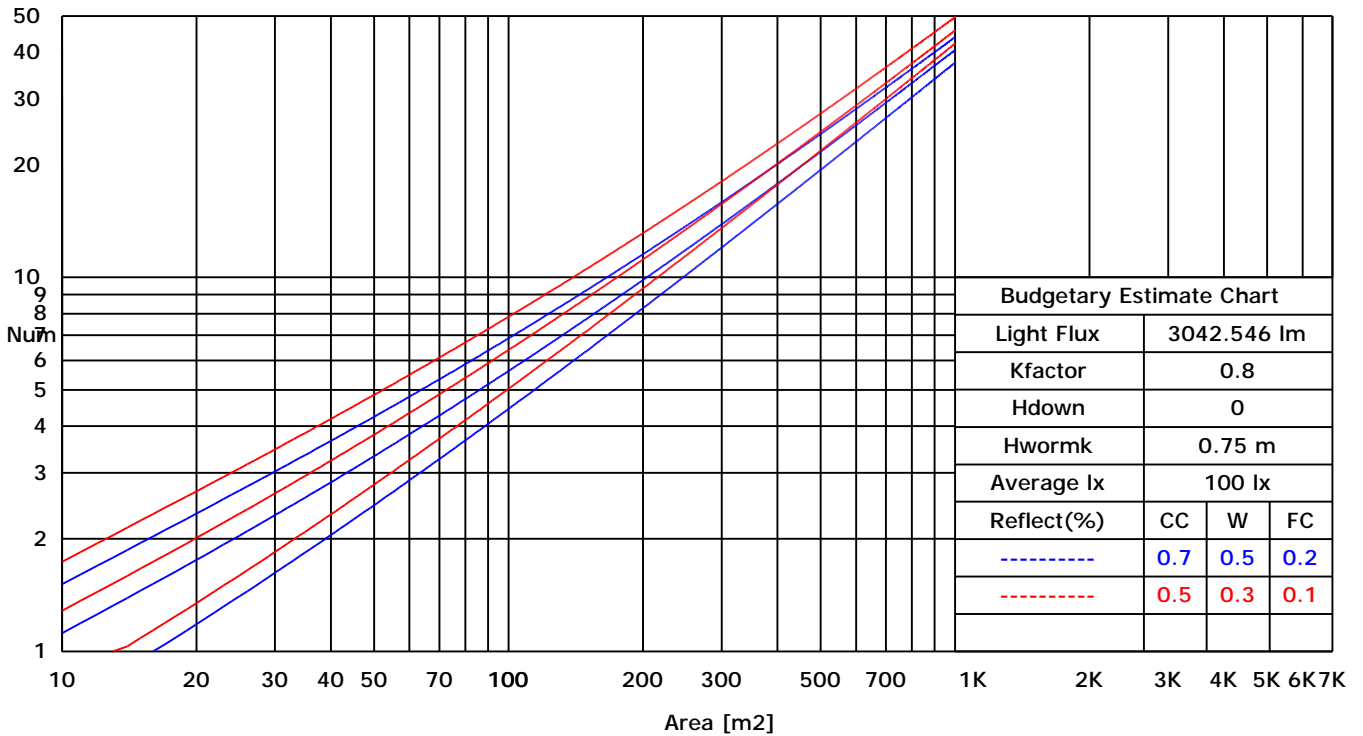
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UTILIZATION FACTORS TABLE

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	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	0.93	0.91	0.89	0.92	0.90	0.88	0.90	0.87	0.84	0.86	0.83	0.80	0.81	0.77	0.74	0.70
3	0.82	0.80	0.78	0.82	0.79	0.76	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.65	0.61
4	0.73	0.71	0.69	0.73	0.70	0.68	0.72	0.68	0.65	0.70	0.65	0.61	0.68	0.62	0.58	0.54
5	0.66	0.63	0.62	0.66	0.63	0.60	0.65	0.61	0.58	0.64	0.59	0.55	0.62	0.57	0.52	0.48
6	0.59	0.57	0.55	0.60	0.57	0.54	0.60	0.55	0.52	0.59	0.54	0.50	0.58	0.52	0.47	0.43
7	0.54	0.52	0.50	0.55	0.51	0.49	0.55	0.50	0.47	0.54	0.49	0.45	0.54	0.47	0.43	0.39
8	0.50	0.48	0.46	0.50	0.47	0.45	0.51	0.46	0.43	0.51	0.45	0.41	0.50	0.44	0.39	0.36
9	0.46	0.44	0.43	0.47	0.44	0.42	0.47	0.43	0.40	0.47	0.42	0.38	0.47	0.41	0.36	0.33
10	0.43	0.41	0.40	0.43	0.41	0.39	0.44	0.40	0.37	0.44	0.39	0.35	0.44	0.38	0.34	0.31

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

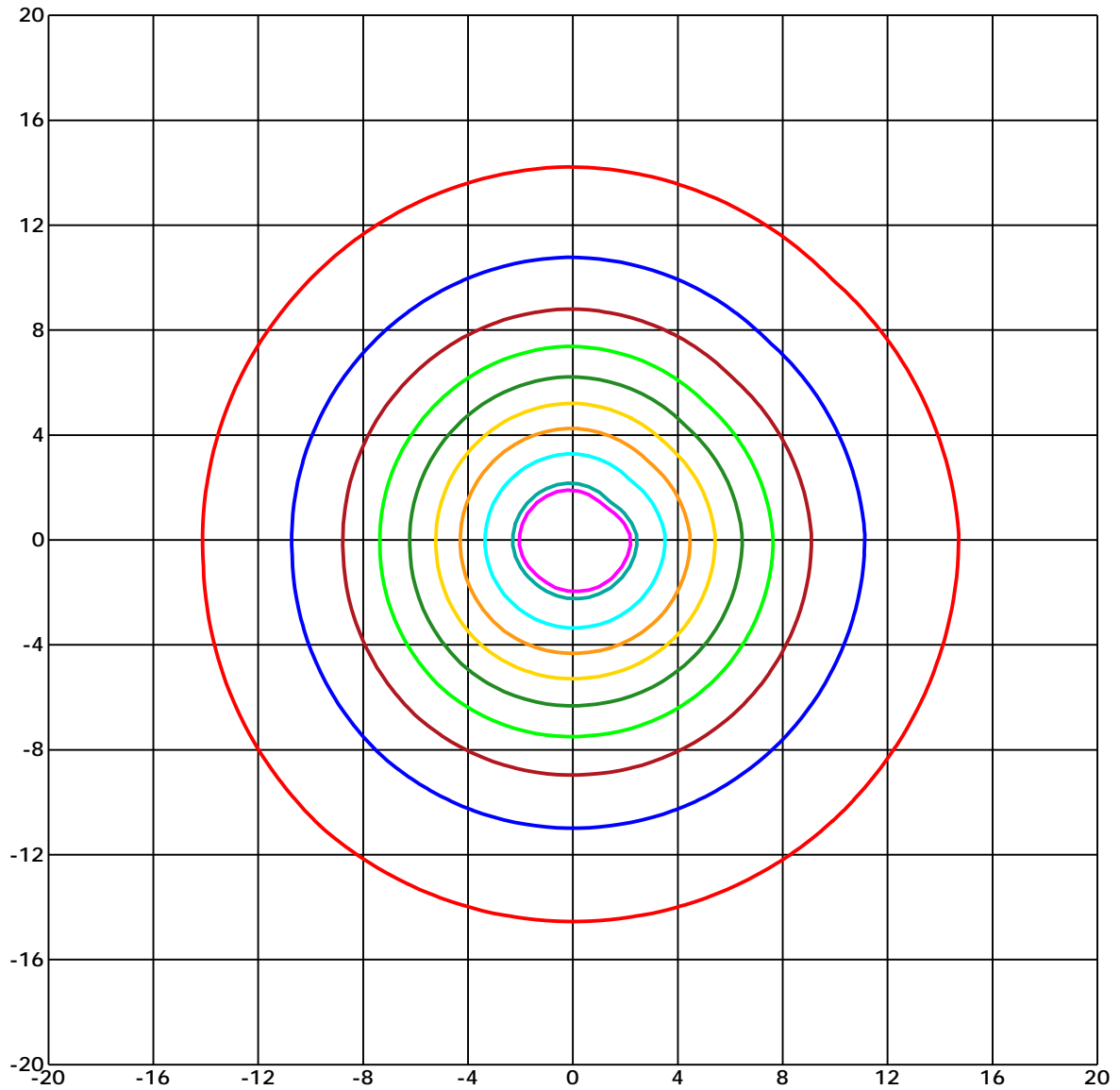
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/1/12 10:22:23

ISOLX DIAGRAM



Unit of illumination: lx Height of plane: 10.0(m)/32.81(ft)

- | | |
|------------------------------|------------------------------|
| — 9.366(1%E _{max}) | — 5.09(0%E _{max}) |
| — 9.162(1%E _{max}) | — 4.072(0%E _{max}) |
| — 8.144(1%E _{max}) | — 3.054(0%E _{max}) |
| — 7.126(1%E _{max}) | — 2.036(0%E _{max}) |
| — 6.108(1%E _{max}) | — 1.018(0%E _{max}) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

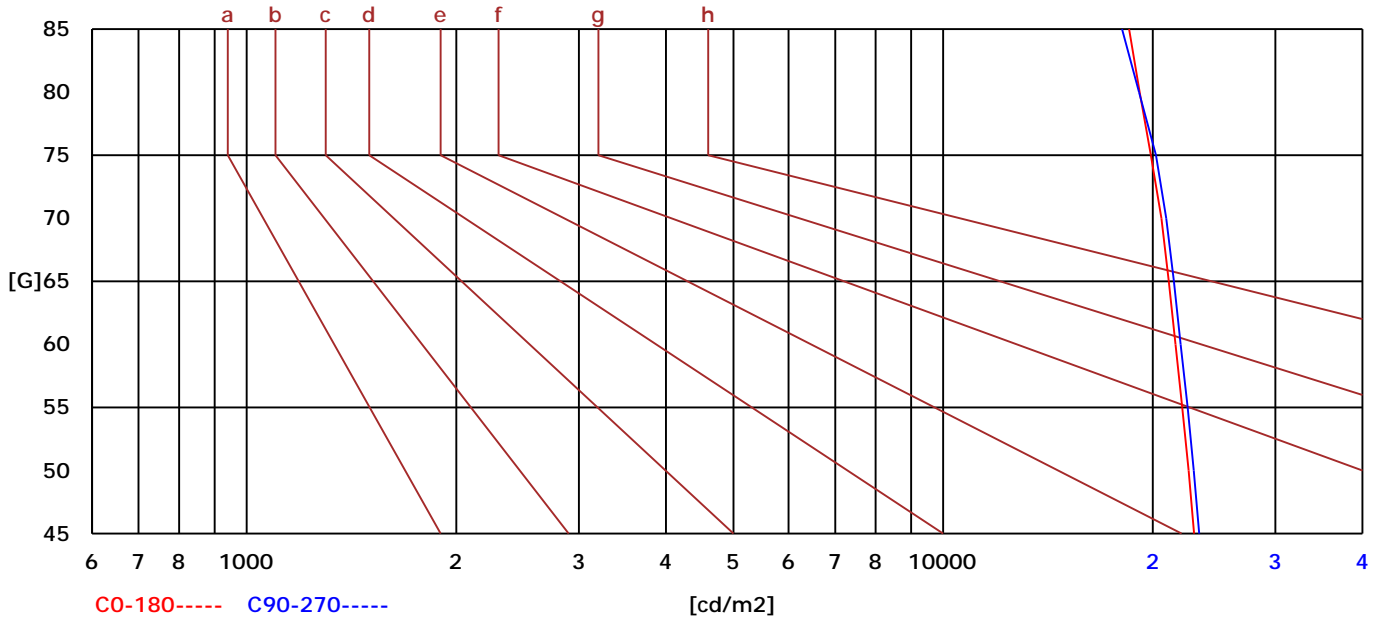
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	22914	22515	22053	21565	21088	20571	19871	19139	18494
C90	23325	22908	22436	21932	21452	20910	20209	19104	18074
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: 2023/1/12 10:22:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

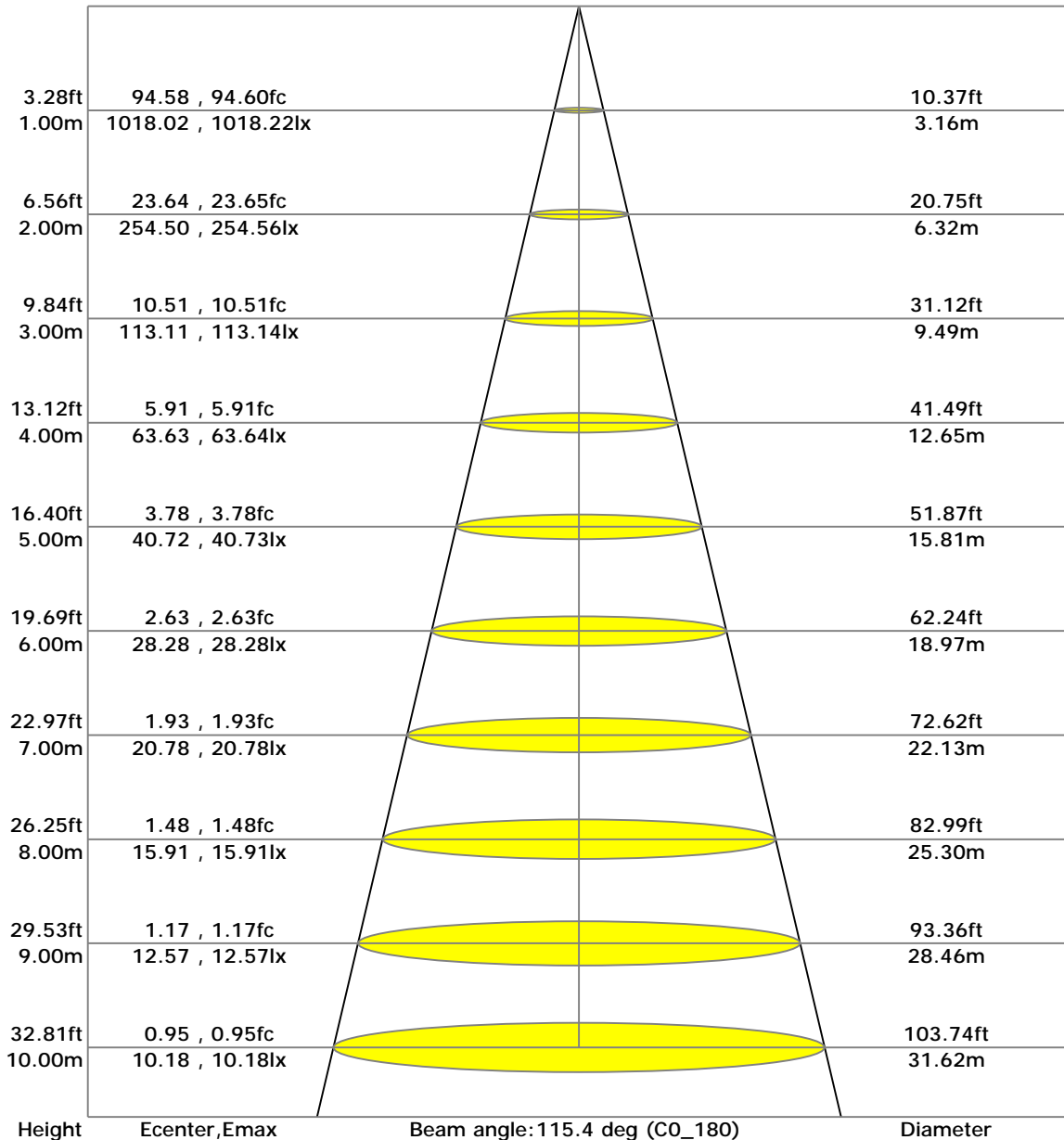
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/1/12 10:22:23

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

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: 2023/1/12 10:22:23

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	19.33	19.41	19.53	19.60	19.84	19.06	19.14	19.26	19.33	19.57
	3H	19.46	19.54	19.67	19.74	19.99	19.23	19.31	19.44	19.51	19.75
	4H	19.49	19.56	19.70	19.76	20.01	19.27	19.34	19.48	19.54	19.79
	6H	19.47	19.55	19.69	19.75	20.00	19.26	19.34	19.48	19.54	19.79
	8H	19.46	19.53	19.68	19.73	19.99	19.25	19.32	19.47	19.52	19.78
	12H	19.44	19.51	19.66	19.72	19.97	19.23	19.30	19.45	19.51	19.76
4H	2H	22.47	22.55	22.68	22.74	22.99	21.93	22.01	22.14	22.20	22.45
	3H	22.75	22.82	22.97	23.02	23.28	22.25	22.32	22.47	22.53	22.78
	4H	22.81	22.88	23.04	23.09	23.35	22.34	22.41	22.57	22.62	22.88
	6H	22.83	22.89	23.07	23.12	23.38	22.38	22.44	22.62	22.66	22.93
	8H	22.83	22.88	23.07	23.11	23.38	22.38	22.44	22.63	22.67	22.94
	12H	22.81	22.86	23.06	23.10	23.37	22.37	22.43	22.62	22.66	22.93
8H	4H	23.70	23.78	23.92	23.98	24.23	22.88	22.96	23.10	23.16	23.41
	6H	24.40	24.46	24.66	24.70	24.97	23.66	23.71	23.91	23.95	24.22
	8H	24.42	24.47	24.68	24.72	24.99	23.69	23.74	23.95	23.99	24.26
	12H	24.42	24.46	24.69	24.72	25.00	23.71	23.75	23.98	24.01	24.29
12H	4H	24.79	24.84	25.04	25.08	25.35	23.85	23.90	24.10	24.13	24.40
	6H	24.95	25.00	25.21	25.24	25.52	24.02	24.07	24.29	24.32	24.59

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

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.:

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ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	1003.68	0.00	0.00	0.00	0.00
5	1000.65	23.94	23.94	0.79	0.79
10	988.85	70.99	94.93	2.33	3.12
15	968.79	115.63	210.56	3.80	6.92
20	940.63	156.40	366.96	5.14	12.06
25	904.58	192.00	558.96	6.31	18.37
30	860.27	221.04	780.00	7.27	25.64
35	809.82	242.88	1022.88	7.98	33.62
40	753.35	256.98	1279.86	8.45	42.07
45	693.09	263.30	1543.17	8.65	50.72
50	626.59	261.26	1804.43	8.59	59.31
55	555.55	250.78	2055.20	8.24	67.55
60	482.65	233.13	2288.33	7.66	75.21
65	407.92	209.16	2497.49	6.87	82.09
70	332.16	179.63	2677.12	5.90	87.99
75	256.05	145.72	2822.84	4.79	92.78
80	181.71	109.12	2931.96	3.59	96.37
85	111.45	72.00	3003.97	2.37	98.73
90	57.26	38.58	3042.55	1.27	100.00

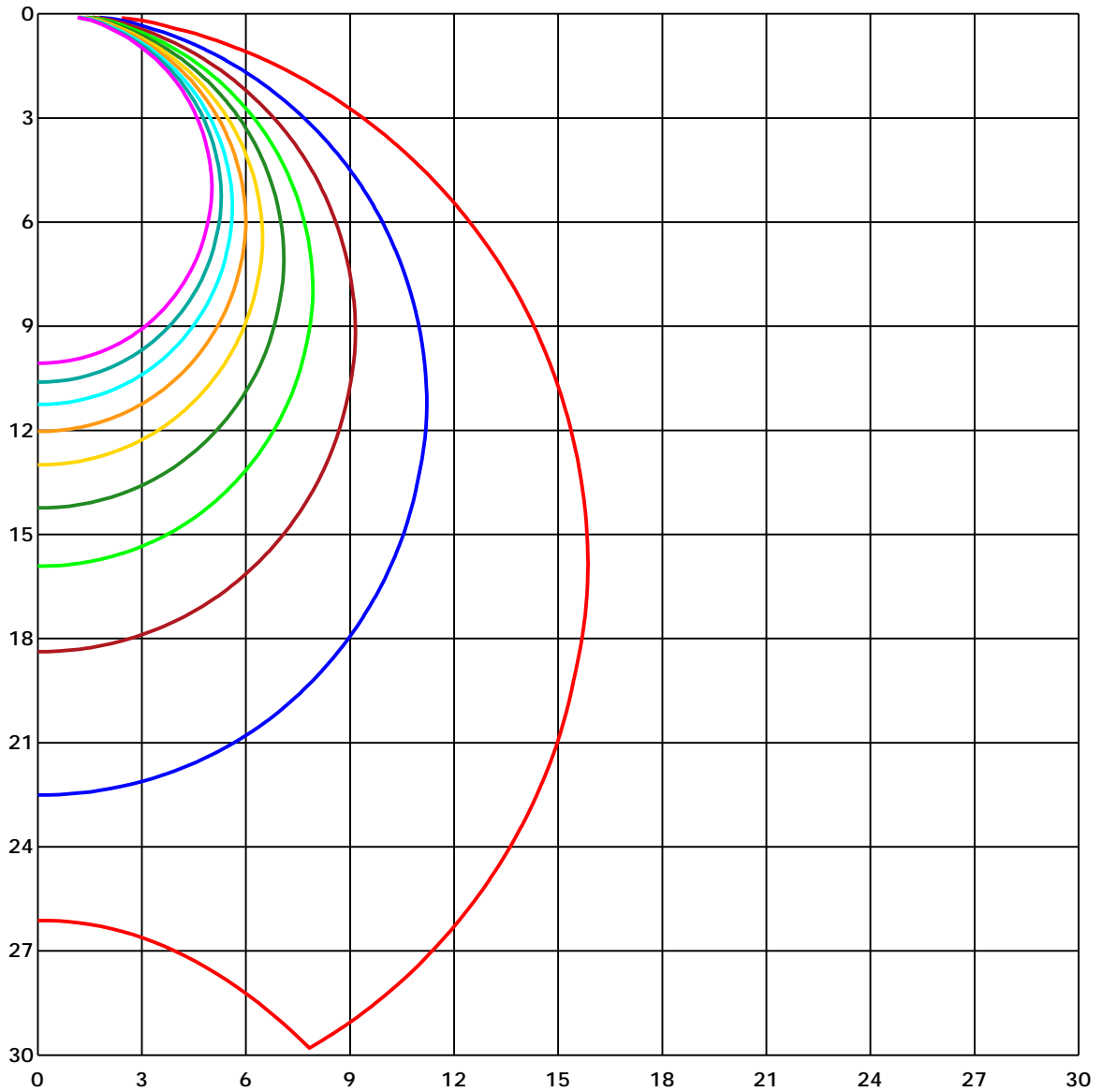
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/1/12 10:22:23

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: 2023/1/12 10:22:23

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|----------|---------|
| — 10.052 | — 5.026 |
| — 9.047 | — 4.021 |
| — 8.041 | — 3.016 |
| — 7.036 | — 2.01 |
| — 6.031 | — 1.005 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

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: 2023/1/12 10:22:23

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1018.02	990.54	998.56	1007.6	1018.02	990.54	998.56	1007.6	1018.02	
G1	1018.22	989.85	998.19	1007.19	1017.24	991.11	998.64	1007.72	1018.22	
G2	1018.06	988.99	997.42	1006.21	1016.02	991.15	998.36	1007.6	1018.06	
G3	1017.53	987.41	996.2	1004.91	1014.48	990.83	997.66	1006.86	1017.53	
G4	1016.8	985.49	994.82	1003.12	1012.36	990.18	996.61	1005.81	1016.8	
G5	1015.58	983.34	993.23	1001.04	1010.0	989.12	995.34	1004.67	1015.58	
G6	1013.99	980.85	990.83	998.52	1007.03	987.81	993.72	1002.83	1013.99	
G7	1012.16	977.92	988.18	995.59	1004.02	986.02	991.56	1000.88	1012.16	
G8	1009.96	974.87	985.33	992.45	1000.56	984.03	989.4	998.56	1009.96	
G9	1007.48	971.37	982.12	988.87	996.81	981.34	986.8	996.04	1007.48	
G10	1004.54	967.5	978.7	985.13	992.66	978.62	983.78	993.02	1004.54	
G11	1001.37	963.39	974.83	980.98	988.1	975.73	980.24	989.97	1001.37	
G12	997.91	958.83	970.64	976.58	983.5	972.22	976.91	986.06	997.91	
G13	993.84	954.19	966.08	971.82	978.41	968.44	972.92	982.08	993.84	
G14	989.69	949.19	961.28	966.53	973.12	964.25	968.48	977.76	989.69	
G15	985.01	943.77	956.07	961.19	967.18	959.57	963.47	973.12	985.01	
G16	980.08	938.03	950.69	955.45	961.28	954.88	958.59	968.07	980.08	
G17	974.79	932.05	945.03	949.43	955.09	950.0	953.26	962.86	974.79	
G18	969.01	925.94	939.01	942.96	948.37	945.16	947.35	957.61	969.01	
G19	962.82	919.15	932.46	936.16	941.41	939.99	941.13	951.95	962.82	
G20	956.27	912.27	925.74	928.79	934.0	934.65	934.49	946.13	956.27	
G21	949.51	904.86	918.94	921.63	926.43	929.24	927.73	940.43	949.51	
G22	942.31	897.33	911.49	913.9	918.54	923.01	920.37	934.45	942.31	
G23	934.94	889.27	903.88	905.63	910.23	915.93	912.96	927.82	934.94	
G24	927.33	880.92	895.82	897.25	901.52	908.52	905.12	920.16	927.33	
G25	919.39	872.42	887.36	888.46	892.48	900.99	897.29	912.35	919.39	
G26	911.09	862.97	878.52	878.97	883.04	893.05	889.11	904.0	911.09	
G27	902.7	853.86	869.45	869.69	873.31	884.87	880.64	895.78	902.7	
G28	893.91	844.13	860.08	859.76	863.34	876.57	872.05	887.23	893.91	
G29	884.95	834.56	850.27	849.83	853.08	868.06	863.14	878.28	884.95	
G30	875.76	824.06	840.42	839.32	842.66	859.15	853.94	869.24	875.76	
G31	866.47	813.84	830.17	828.78	832.08	849.91	844.62	859.84	866.47	
G32	856.83	803.18	819.75	818.08	820.89	840.63	835.01	850.31	856.83	
G33	846.86	792.47	809.12	806.96	809.94	831.39	825.16	840.63	846.86	
G34	836.72	781.73	798.38	796.02	798.42	821.58	815.06	830.65	836.72	
G35	826.34	770.41	787.43	784.46	786.9	811.4	804.52	820.44	826.34	
G36	815.51	758.93	776.15	772.73	775.09	801.14	793.78	810.02	815.51	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

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: 2023/1/12 10:22:23

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	804.4	747.33	764.88	760.97	763.25	790.6	782.66	799.23	804.4	
G38	793.21	735.45	753.03	748.8	750.83	779.77	771.51	788.0	793.21	
G39	781.36	723.52	741.35	736.79	738.91	768.38	759.91	776.6	781.36	
G40	770.66	711.51	729.3	724.29	726.21	756.86	748.88	764.84	770.66	
G41	760.6	699.22	717.29	711.8	713.67	744.89	738.5	752.71	760.6	
G42	750.06	686.76	705.12	699.3	701.01	732.92	727.92	740.49	750.06	
G43	738.99	674.23	692.75	686.4	688.03	720.22	717.01	727.79	738.99	
G44	726.98	661.32	679.93	673.13	674.88	708.05	705.33	715.14	726.98	
G45	714.89	648.1	666.98	659.74	661.49	695.31	693.32	702.19	714.89	
G46	702.15	634.99	653.96	646.43	647.89	682.57	680.7	689.04	702.15	
G47	689.41	621.39	640.73	632.59	634.17	669.34	668.08	675.86	689.41	
G48	676.14	607.43	627.05	618.34	620.09	656.4	655.06	662.34	676.14	
G49	662.55	593.51	613.17	604.26	605.68	642.8	641.91	648.87	662.55	
G50	648.99	578.9	599.05	588.99	591.11	629.45	628.52	635.23	648.99	
G51	635.31	564.65	584.64	574.75	576.46	615.9	614.84	621.43	635.31	
G52	621.19	550.2	570.27	559.85	561.8	602.3	601.12	607.64	621.19	
G53	607.51	535.71	556.1	545.03	546.9	588.59	587.28	593.84	607.51	
G54	593.39	520.69	541.29	529.77	531.76	574.62	573.36	579.51	593.39	
G55	579.1	505.96	526.67	514.75	516.86	560.87	559.4	565.47	579.1	
G56	564.86	491.14	511.78	499.69	501.64	546.66	545.24	551.14	564.86	
G57	550.81	476.28	497.25	484.46	486.62	532.66	531.19	536.81	550.81	
G58	536.36	461.34	482.43	469.28	471.56	518.57	516.62	522.56	536.36	
G59	521.75	446.45	467.86	454.1	456.5	504.04	502.54	507.99	521.75	
G60	507.22	431.3	452.92	438.63	441.24	489.96	488.21	493.54	507.22	
G61	492.48	415.92	437.82	423.29	425.97	475.43	473.68	478.89	492.48	
G62	477.58	401.39	423.08	408.14	410.83	460.69	458.98	463.95	477.58	
G63	462.32	386.37	408.31	392.8	395.85	445.71	443.88	448.85	462.32	
G64	446.85	371.26	393.45	377.7	380.75	430.77	428.9	433.71	446.85	
G65	431.51	356.49	378.8	362.64	365.69	415.51	413.43	418.32	431.51	
G66	416.04	341.63	364.14	347.45	350.95	400.57	398.37	403.26	416.04	
G67	400.45	326.77	349.24	332.27	335.65	385.06	383.23	387.59	400.45	
G68	385.02	311.96	334.35	317.05	320.71	369.84	368.09	372.28	385.02	
G69	369.51	296.61	319.53	301.66	305.49	354.82	352.79	356.9	369.51	
G70	353.97	281.43	304.47	286.07	290.22	339.19	337.52	341.23	353.97	
G71	338.86	266.49	289.37	270.77	275.04	324.41	322.75	326.29	338.86	
G72	323.27	251.27	274.55	255.71	259.98	309.39	307.48	311.02	323.27	
G73	308.54	236.04	259.25	239.18	244.35	294.13	292.75	295.72	308.54	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/1/12 10:22:23

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: 2023/1/12 10:22:23

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	292.91	220.58	244.02	223.67	228.96	279.48	277.81	280.94	292.91	
G75	278.17	205.72	228.8	209.22	213.66	264.62	263.36	265.96	278.17	
G76	263.11	190.86	213.9	192.9	198.56	249.76	248.79	251.02	263.11	
G77	248.3	176.01	199.21	178.57	183.54	235.35	233.93	236.29	248.3	
G78	233.32	161.27	184.27	163.22	168.56	220.62	219.52	221.51	233.32	
G79	218.79	146.62	169.62	146.98	153.74	206.17	204.78	207.02	218.79	
G80	204.38	132.94	155.21	132.7	139.13	192.17	190.5	192.86	204.38	
G81	189.89	118.04	141.41	120.69	125.13	177.76	175.44	178.12	189.89	
G82	176.13	105.02	127.53	107.79	111.2	164.04	161.35	164.28	176.13	
G83	161.11	93.29	113.97	90.73	97.49	150.24	146.82	150.44	161.11	
G84	148.08	78.07	100.58	75.43	84.01	136.03	132.82	136.6	148.08	
G85	134.16	64.48	87.68	63.01	71.76	122.56	119.18	122.97	134.16	
G86	119.59	54.01	75.26	54.87	61.22	108.93	104.41	108.88	119.59	
G87	106.69	46.85	63.87	49.62	51.57	94.8	91.58	94.31	106.69	
G88	94.35	41.64	54.14	45.71	44.98	82.35	79.94	81.08	94.35	
G89	82.35	37.61	45.91	42.45	40.99	71.03	69.24	68.51	82.35	
G90	72.51	34.52	0.0	39.46	36.3	0.0	59.93	0.0	72.51	