

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
Luminaire Type: L-D332-2-30K-24-WH
Lamp Type:
Luminous Width: 70 mm
Luminous Length: 90 mm
Luminous Height: 30 mm

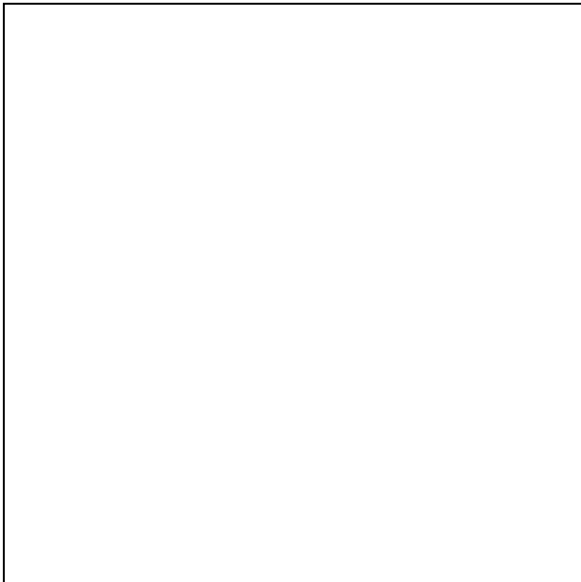
Voltage(V): 221.79 V
Current(A): 0.0425 A
Power(W): 5.54 W
Power Factor: 0.5880
Lamp Luminous Flux: 336.08

Photometric Results

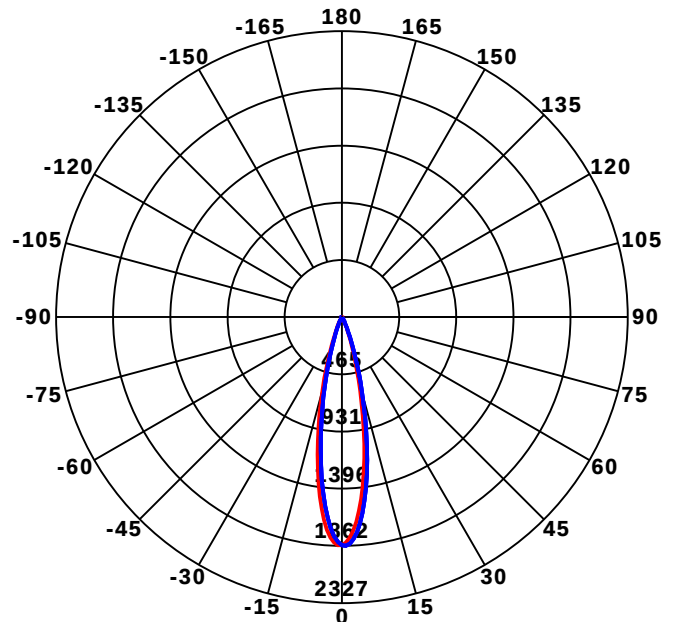
CIE Class: Direct
Luminaire Luminous Flux: 336.0785 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 60.66 lm/W
Beam Angle(50%) C0-180,C90-270: 22.9,22.8
Field Angle(10%) C0-180,C90-270: 41.6,41.4
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 1861.71 cd
Max.Intensity Angle: C=225 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1855.71 cd
Effective Luminous Flux: 297.68 lm
ERP(ϕ use)(120deg): 336.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.9 deg,22.8 deg

C0-180 — C90-270

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

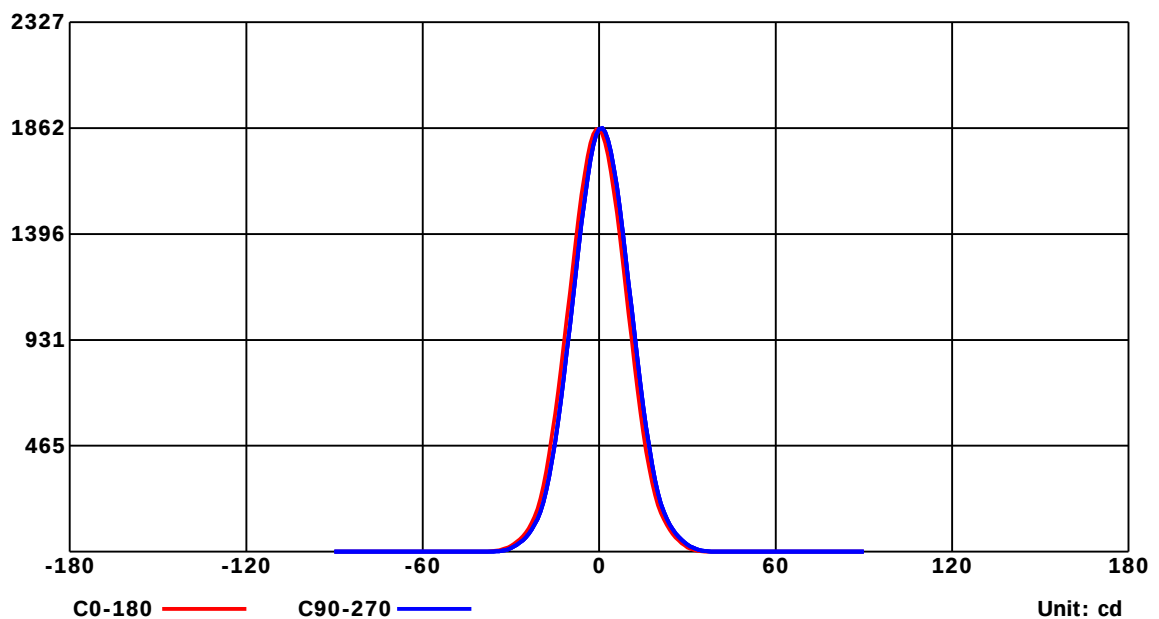
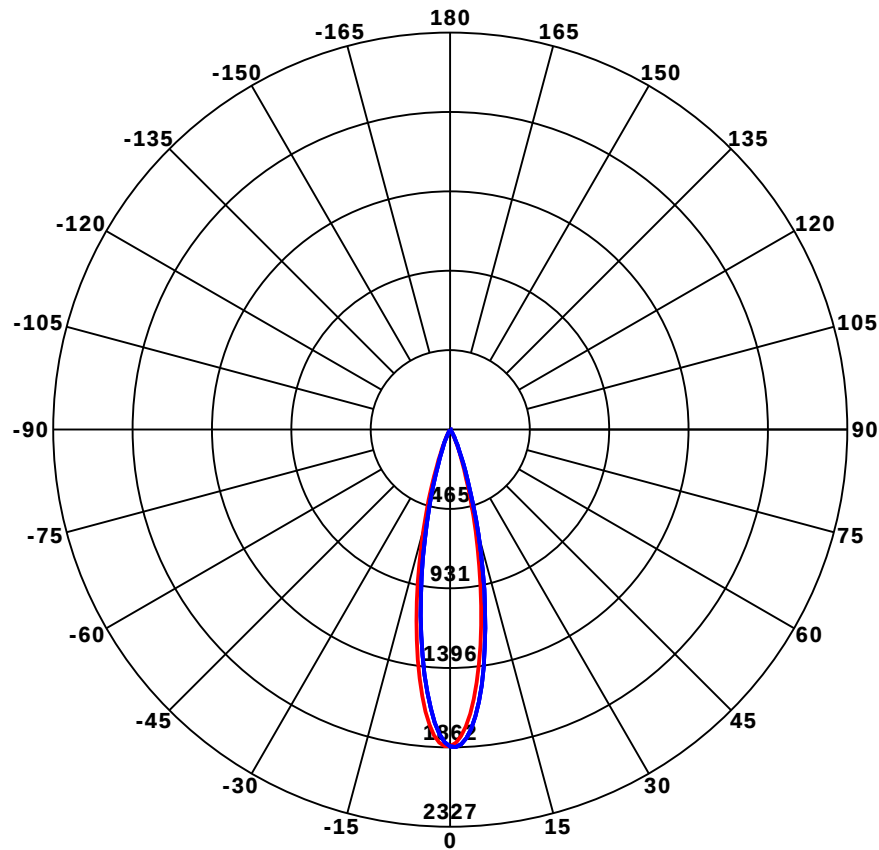
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

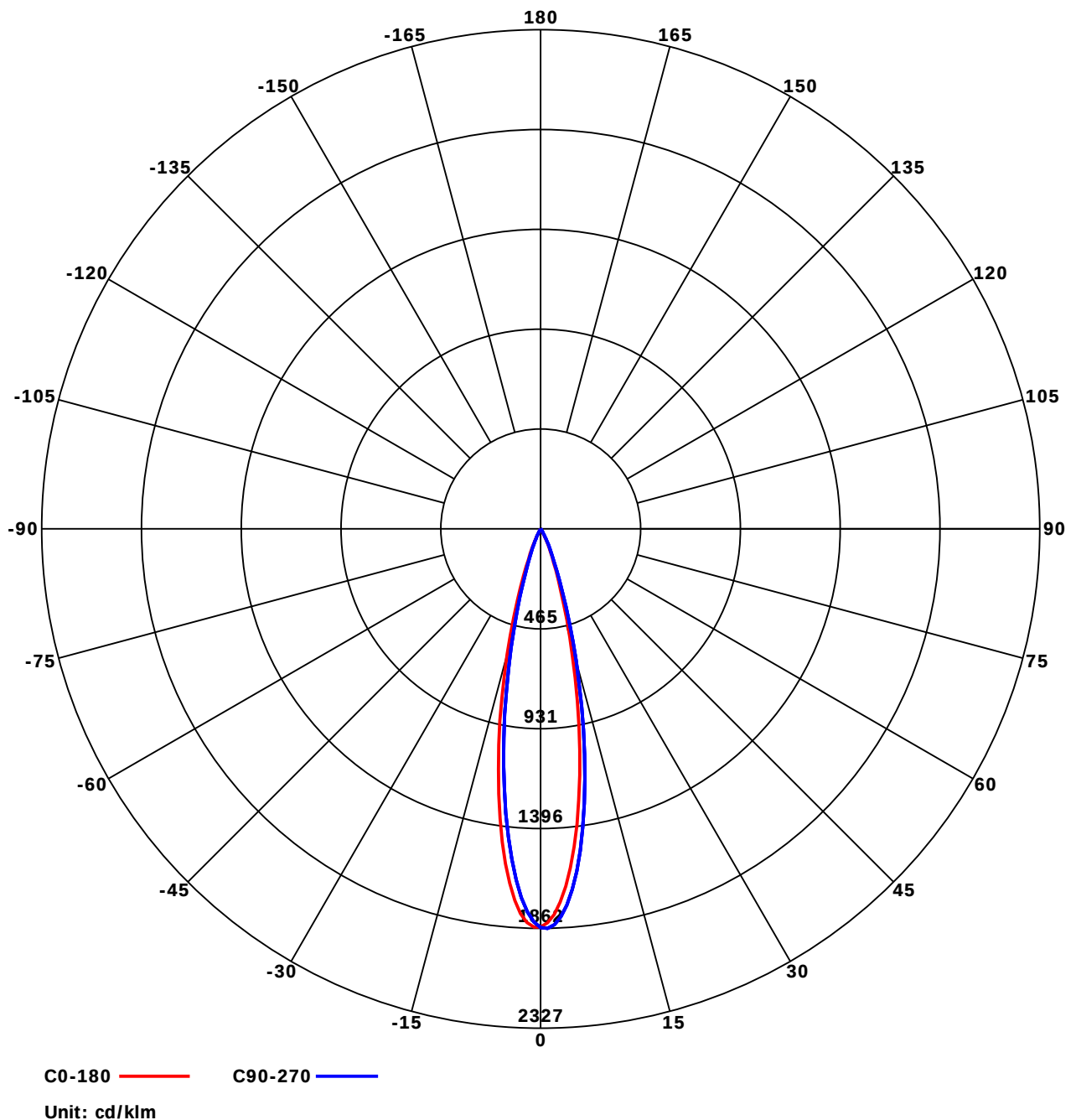
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/8/9 15:45:01

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

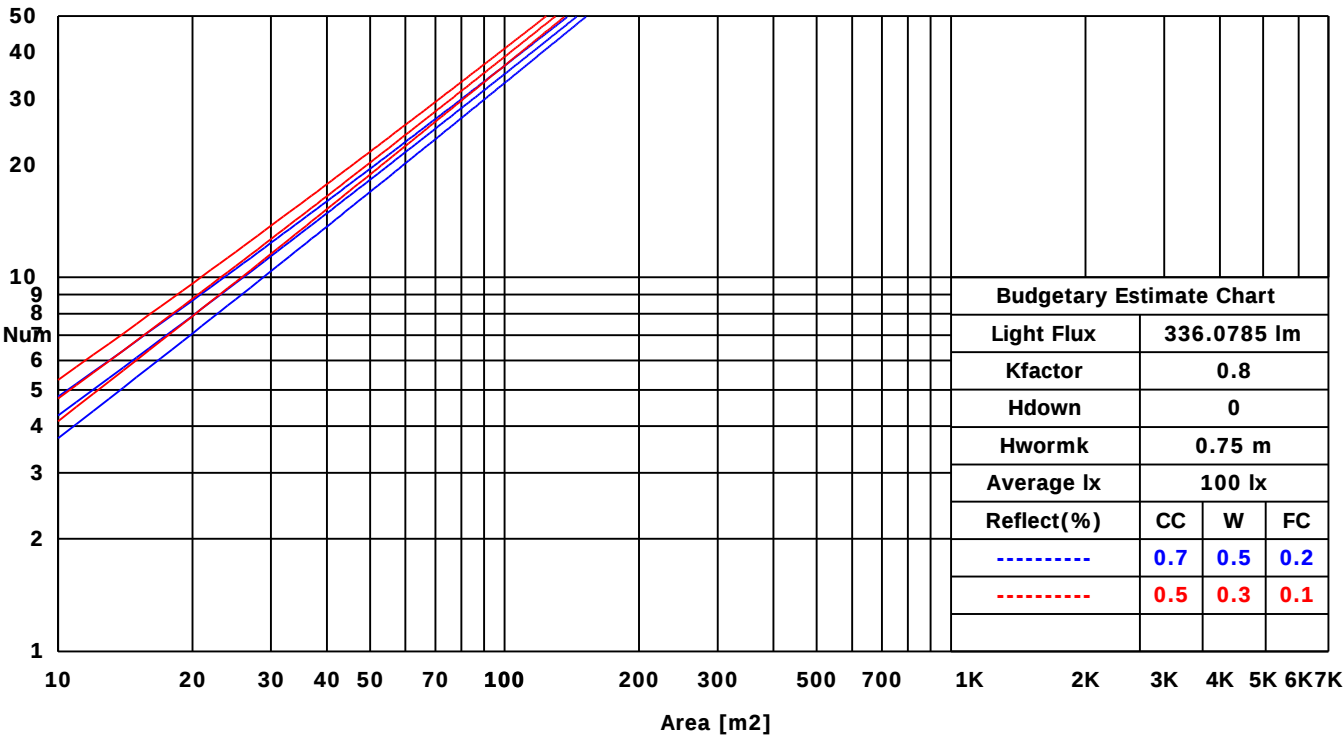
Test Distance: 7.91 m

Remarks:

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	COEFFCIENTS 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	1.18	1.17	1.17	1.16	1.15	1.15	1.11	1.10	1.10	1.05	1.05	1.04	0.98	0.97	0.96	0.91
2	1.14	1.14	1.13	1.12	1.12	1.11	1.08	1.07	1.06	1.03	1.01	1.00	0.96	0.95	0.93	0.89
3	1.11	1.10	1.10	1.09	1.08	1.07	1.05	1.04	1.03	1.00	0.98	0.97	0.94	0.92	0.91	0.86
4	1.08	1.07	1.07	1.06	1.05	1.04	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.84
5	1.06	1.05	1.04	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.92	0.91	0.88	0.86	0.82
6	1.03	1.02	1.02	1.01	1.00	0.99	0.97	0.95	0.94	0.93	0.91	0.89	0.89	0.86	0.84	0.80
7	1.00	1.00	0.99	0.99	0.97	0.97	0.95	0.93	0.92	0.91	0.89	0.87	0.87	0.84	0.82	0.78
8	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.91	0.90	0.89	0.87	0.85	0.85	0.82	0.80	0.76
9	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.89	0.88	0.87	0.85	0.83	0.83	0.80	0.78	0.75
10	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.86	0.85	0.83	0.81	0.82	0.78	0.76	0.73

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

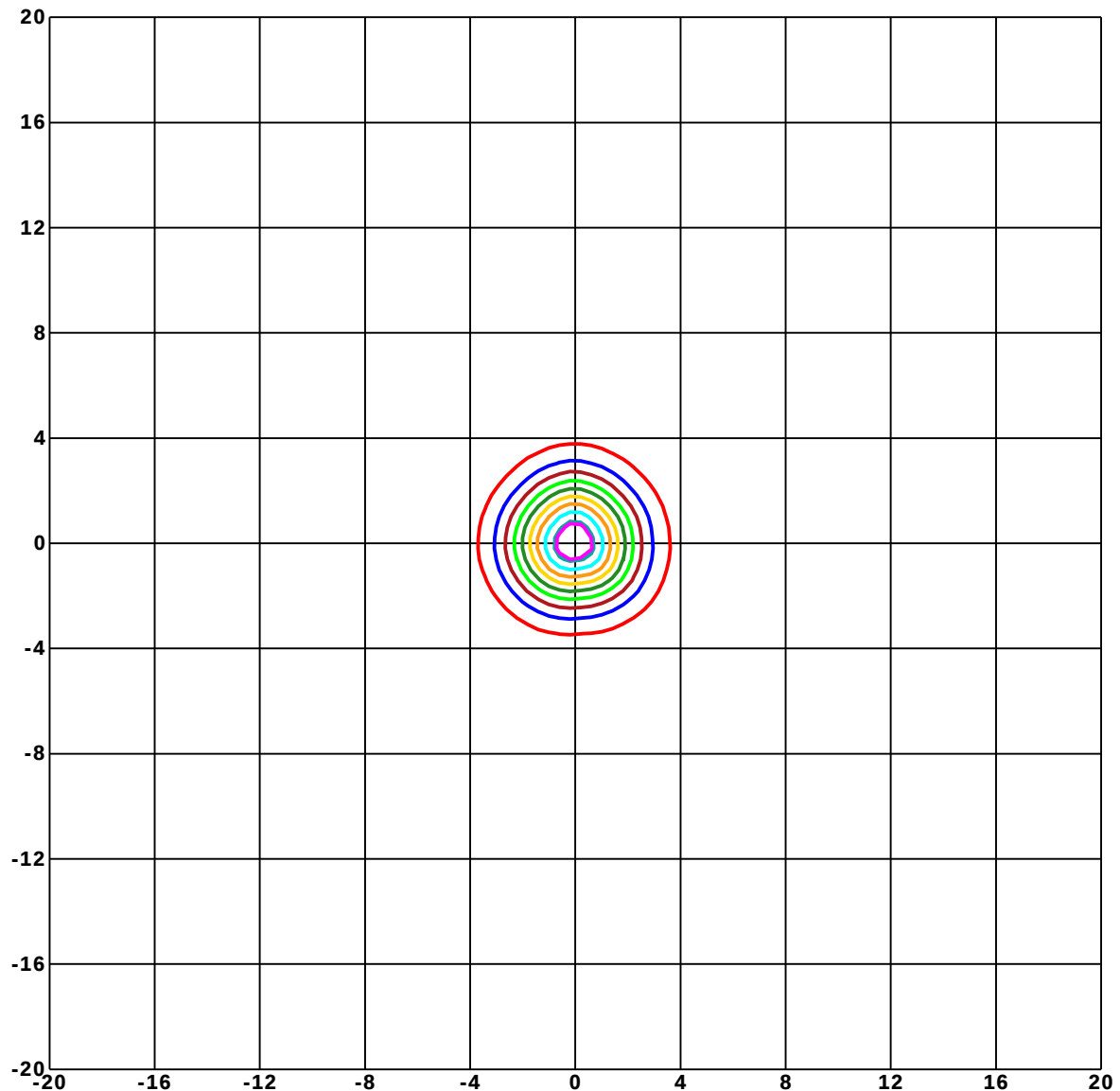
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/8/9 15:45:01

ISOLX DIAGRAM



Unit of illumination: lx

Height of plane: 10.0(m)/32.81(ft)

17.128(92%E_{max})

9.309(50%E_{max})

16.755(90%E_{max})

7.447(40%E_{max})

14.894(80%E_{max})

5.585(30%E_{max})

13.032(70%E_{max})

3.723(20%E_{max})

11.17(60%E_{max})

1.862(10%E_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

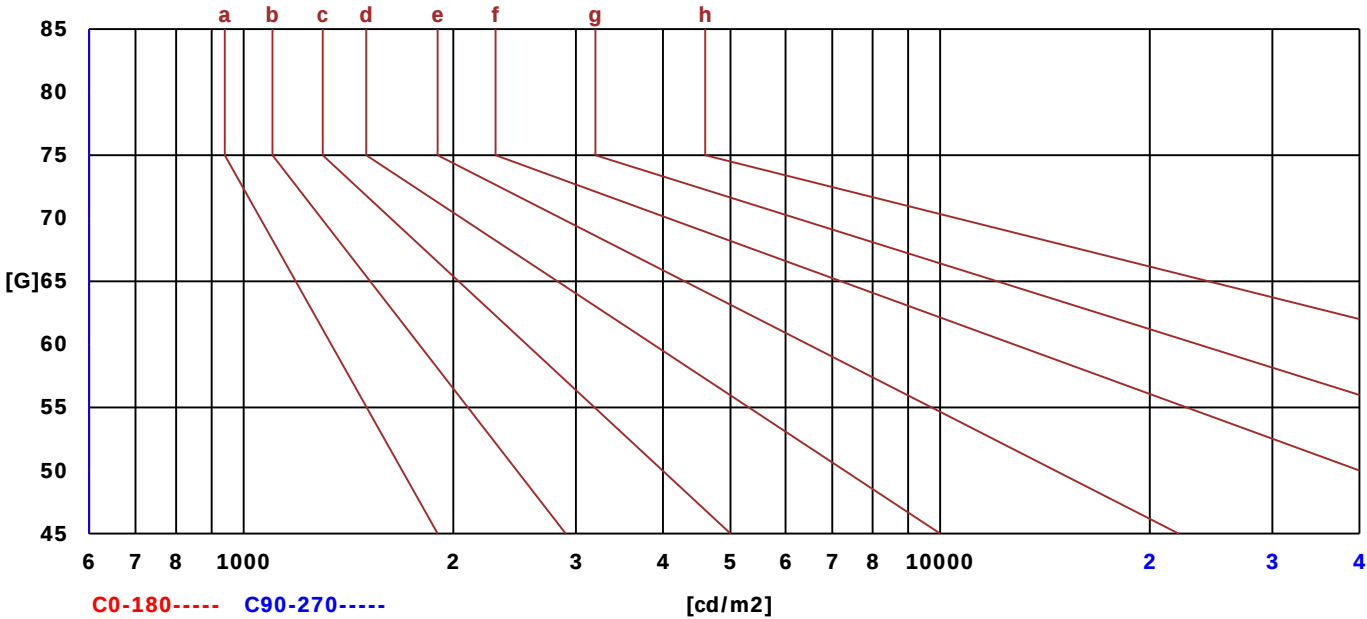
Humidity:

Test Distance: 7.91 m

Remarks:

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: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

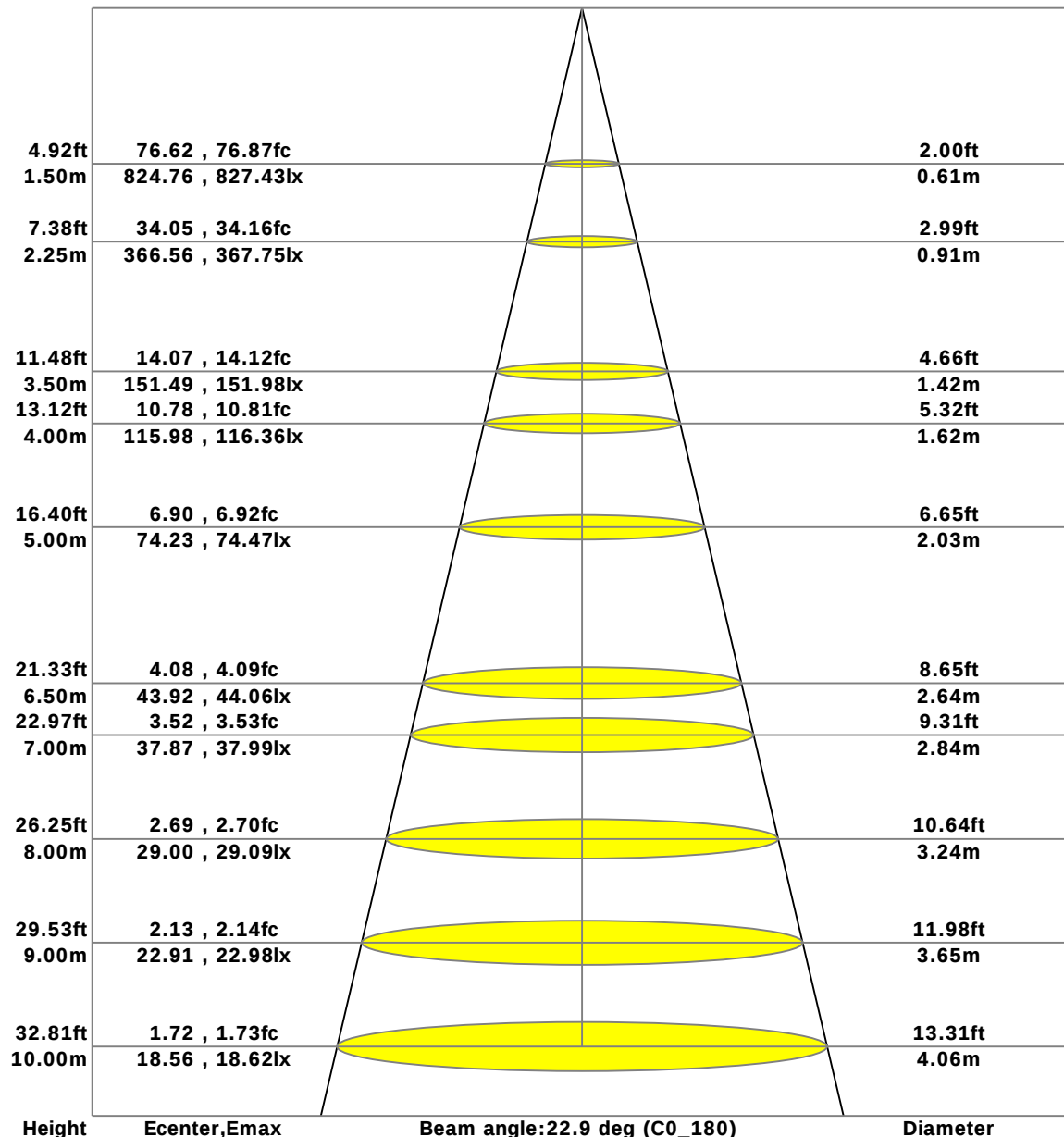
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/8/9 15:45:01

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/8/9 15:45:01

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	-2.38	-2.25	-1.98	-1.75	-1.15	-1.33	-1.21	-0.93	-0.70	-0.11
3H	-2.49	-2.37	-2.09	-1.87	-1.27	-1.44	-1.32	-1.04	-0.82	-0.22
4H	-2.55	-2.43	-2.14	-1.93	-1.33	-1.50	-1.38	-1.10	-0.89	-0.28
6H	-2.61	-2.49	-2.20	-2.00	-1.39	-1.56	-1.44	-1.15	-0.95	-0.35
8H	-2.64	-2.52	-2.23	-2.03	-1.43	-1.59	-1.48	-1.18	-0.99	-0.38
12H	-2.67	-2.56	-2.26	-2.07	-1.46	-1.62	-1.51	-1.21	-1.02	-0.41
4H 2H	-2.55	-2.43	-2.14	-1.93	-1.33	-1.50	-1.38	-1.10	-0.89	-0.28
3H	-2.67	-2.56	-2.26	-2.07	-1.46	-1.62	-1.51	-1.21	-1.02	-0.41
4H	-2.73	-2.62	-2.32	-2.14	-1.53	-1.68	-1.58	-1.27	-1.10	-0.48
6H	-2.80	-2.69	-2.38	-2.22	-1.60	-1.75	-1.65	-1.34	-1.17	-0.56
8H	-2.83	-2.73	-2.41	-2.26	-1.64	-1.78	-1.69	-1.37	-1.21	-0.60
12H	-2.86	-2.77	-2.45	-2.30	-1.68	-1.82	-1.72	-1.40	-1.26	-0.63
8H 4H	-2.64	-2.52	-2.23	-2.03	-1.43	-1.59	-1.48	-1.18	-0.99	-0.38
6H	-2.90	-2.81	-2.48	-2.35	-1.72	-1.85	-1.77	-1.43	-1.30	-0.68
8H	-2.94	-2.85	-2.52	-2.39	-1.77	-1.89	-1.81	-1.47	-1.35	-0.72
12H	-2.97	-2.90	-2.55	-2.44	-1.81	-1.93	-1.85	-1.50	-1.40	-0.76
12H 4H	-2.86	-2.77	-2.45	-2.30	-1.68	-1.82	-1.72	-1.40	-1.26	-0.63
6H	-2.94	-2.85	-2.52	-2.39	-1.77	-1.89	-1.81	-1.47	-1.35	-0.72

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ZONAL LUMINOUS FLUX TABLE-1

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	1047.6	1067.3	1182.4	1113.3	1136.7	1085.2	990.3	1088.3	10	137.2	137.2	40.8	40.8
20	205.0	214.5	258.0	223.2	233.9	211.5	176.4	222.1	20	154.6	291.8	86.8	86.8
30	19.3	23.1	31.7	24.7	26.3	23.3	15.5	24.9	30	40.9	332.7	99.0	99.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40	3.4	336.1	100.0	100.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50	0.0	336.1	100.0	100.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60	0.0	336.1	100.0	100.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70	0.0	336.1	100.0	100.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80	0.0	336.1	100.0	100.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90	0.0	336.1	100.0	100.0

Conical surface Flux(90deg) : 336.1 lm

%lum = 100.0%

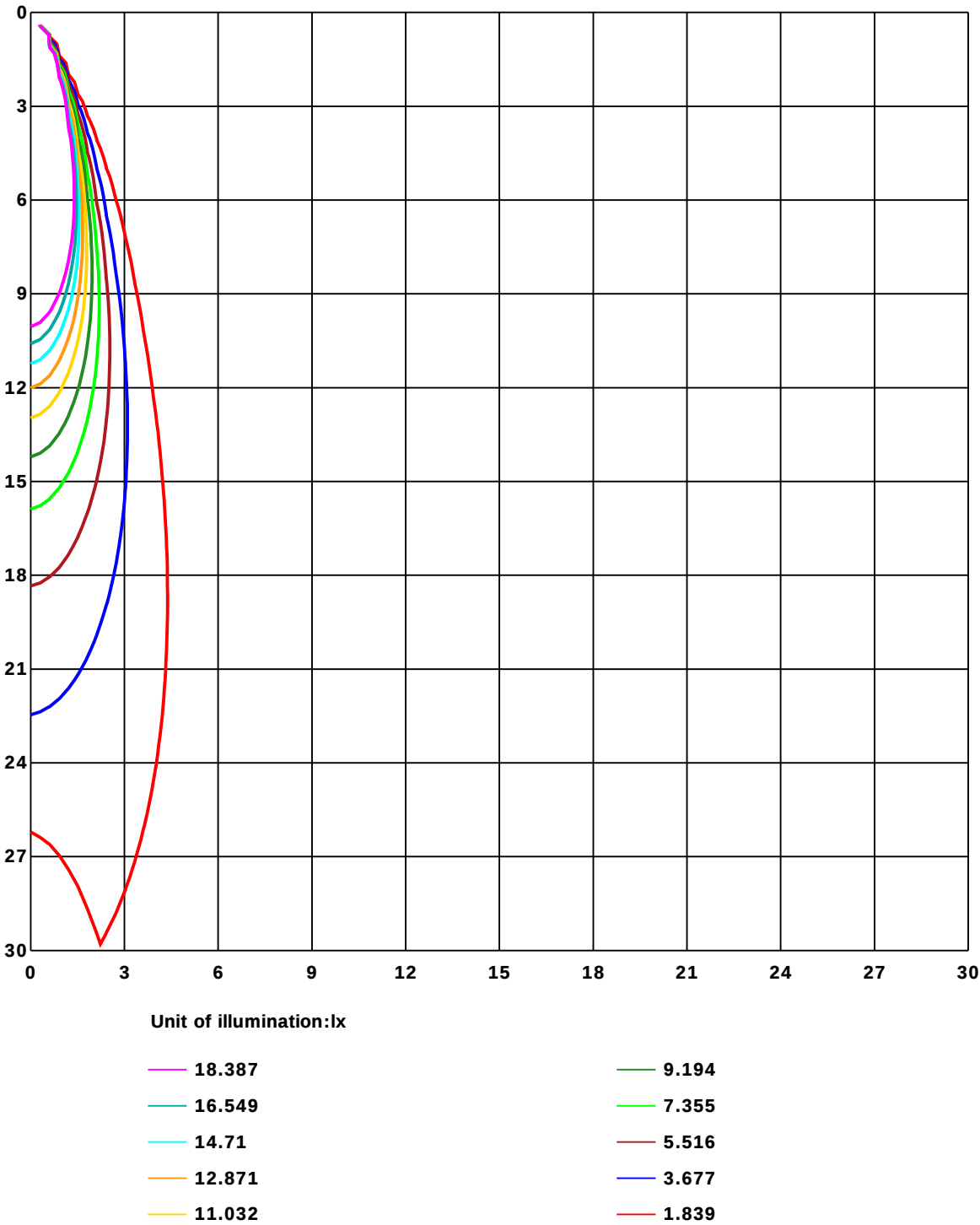
%lamp = 100.0%

Conical surface Flux(120deg) : 336.1 lm

%lum = 100.0%

%lamp = 100.0%

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

Report No.:

Test Time: 2024/8/9 15:45:01

LUMINOUS DISTRIBUTION INTENSITY DATA

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1855.71	1861.71	1857.27	1860.34	1855.71	1861.71	1857.27	1860.34	1855.71	
G1	1835.87	1844.63	1861.53	1851.64	1855.71	1857.65	1831.99	1849.2	1835.87	
G2	1797.58	1810.03	1845.2	1824.8	1835.19	1831.24	1786.51	1817.17	1797.58	
G3	1741.96	1756.98	1809.66	1777.75	1795.33	1783.44	1720.44	1767.24	1741.96	
G4	1669.44	1688.65	1757.48	1713.87	1735.33	1715.81	1638.72	1701.29	1669.44	
G5	1584.73	1606.31	1687.09	1635.28	1658.24	1633.4	1546.25	1621.01	1584.73	
G6	1489.18	1509.89	1603.93	1541.74	1568.96	1535.73	1443.63	1527.04	1489.18	
G7	1385.76	1403.78	1509.71	1439.94	1470.16	1429.12	1333.83	1424.3	1385.76	
G8	1276.08	1295.6	1406.28	1335.27	1362.48	1317.06	1219.39	1315.62	1276.08	
G9	1162.39	1183.41	1295.47	1225.77	1250.11	1203.06	1104.7	1204.37	1162.39	
G10	1047.64	1067.35	1182.41	1113.27	1136.68	1085.18	990.27	1088.31	1047.64	
G11	933.14	953.23	1069.48	999.59	1025.05	969.49	878.46	972.43	933.14	
G12	819.2	844.11	957.23	890.16	914.81	858.81	768.59	861.0	819.2	
G13	713.59	737.11	846.05	782.1	805.75	752.82	666.1	754.57	713.59	
G14	614.92	636.0	738.99	677.61	702.64	651.4	571.0	652.59	614.92	
G15	523.63	542.84	638.13	579.69	606.35	557.67	482.96	558.11	523.63	
G16	440.29	458.87	546.78	490.47	515.37	471.95	401.5	472.39	440.29	
G17	366.71	383.1	460.5	409.01	429.91	393.49	329.3	395.87	366.71	
G18	302.95	315.97	381.98	335.93	353.32	322.23	268.79	326.73	302.95	
G19	250.08	260.22	314.22	273.67	288.19	261.91	217.67	269.48	250.08	
G20	204.97	214.48	258.03	223.18	233.94	211.54	176.38	222.12	204.97	
G21	170.19	177.44	210.73	181.26	188.52	171.19	144.03	183.51	170.19	
G22	141.47	147.04	173.56	148.22	152.98	139.21	117.94	152.29	141.47	
G23	117.19	122.38	143.47	121.95	124.95	114.06	96.48	125.89	117.19	
G24	96.29	101.86	119.0	100.73	101.92	94.35	78.27	104.36	96.29	
G25	78.27	83.9	98.61	83.15	83.28	77.96	62.69	86.34	78.27	
G26	61.94	68.07	80.59	67.89	68.01	63.44	50.3	70.14	61.94	
G27	49.3	53.81	65.45	53.93	54.37	50.99	39.29	55.75	49.3	
G28	36.98	42.36	52.24	43.11	44.05	40.67	30.22	44.17	36.98	
G29	27.84	31.72	41.23	33.1	34.41	31.35	22.34	33.47	27.84	
G30	19.33	23.09	31.66	24.65	26.28	23.28	15.45	24.9	19.33	
G31	12.95	15.77	23.46	17.21	19.27	16.64	10.51	17.02	12.95	
G32	8.2	9.89	16.96	11.51	13.83	11.51	6.57	11.89	8.2	
G33	5.07	6.19	11.7	7.45	9.7	8.01	4.07	8.07	5.07	
G34	3.0	3.69	7.76	4.5	6.44	5.13	2.38	5.38	3.0	
G35	1.56	2.13	5.07	2.75	4.32	3.5	1.13	3.5	1.56	
G36	0.5	0.94	3.38	1.25	2.75	2.06	0.13	2.38	0.5	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2024/8/9 15:45:01

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	0.0	0.13	1.75	0.25	1.56	1.38	0.0	1.13	0.0	
G38	0.0	0.0	1.06	0.0	0.69	0.38	0.0	0.31	0.0	
G39	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	
G40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/8/9 15:45:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks: