

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
 Luminaire Type:L-D927-COB2-30K-24-WH
 Lamp Type:
 Luminous Width: 74 mm
 Luminous Length: 74 mm
 Luminous Height: 50 mm

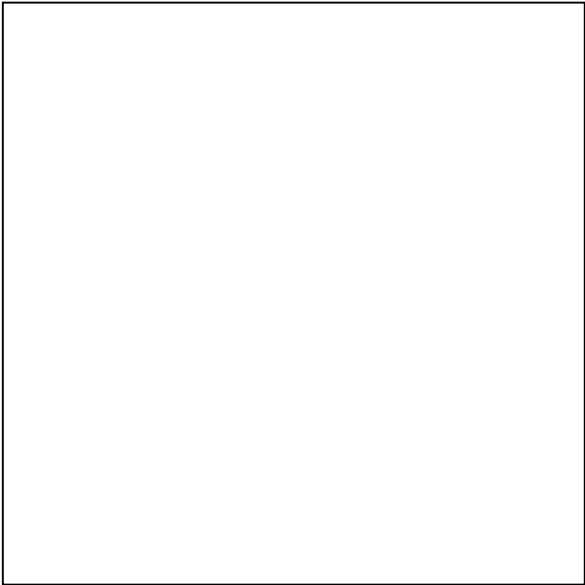
Voltage(V): 230.96 V
 Current(A): 0.0784 A
 Power(W): 10.83 W
 Power Factor: 0.5975
 Lamp Luminous Flux: 579.04

Photometric Results

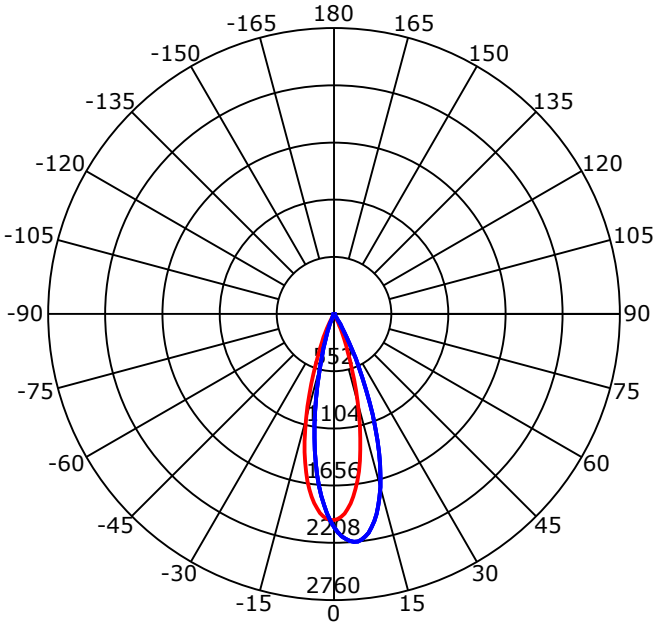
CIE Class: Direct
 Luminaire Luminous Flux: 579.0374 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 53.47 lm/W
 Beam Angle(50%) C0-180,C90-270: 29.4,30.3
 Field Angle(10%) C0-180,C90-270: 48.0,48.8
 S/MH C0-180,C90-270: 0.499,0.536

Max. Intensity: 2208.09 cd
 Max.Intensity Angle: C=90 Gamma=5
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 1989.79 cd
 Effective Luminous Flux: 539.00 lm
 ERP(φuse)(120deg): 578.30 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



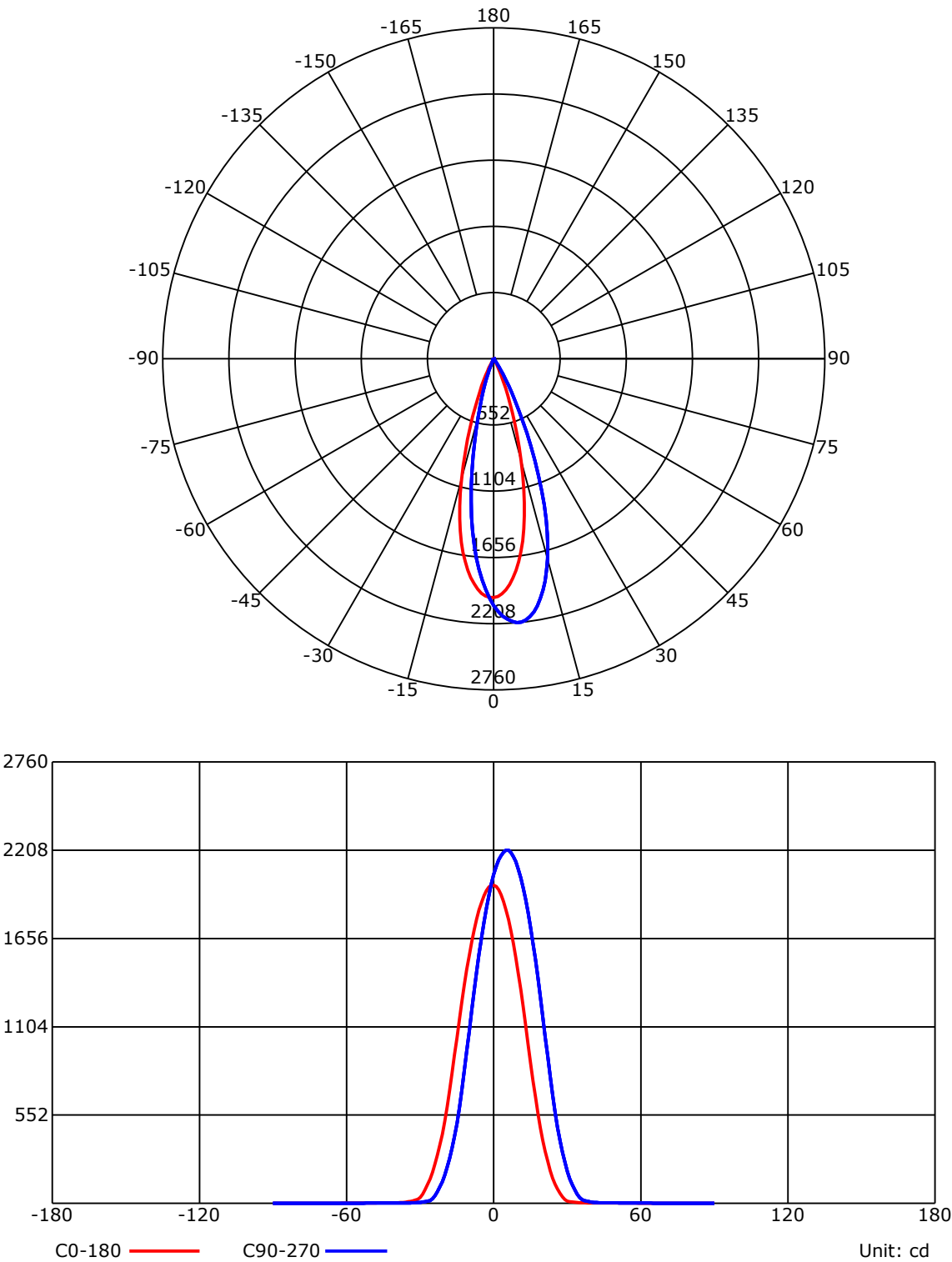
Beam Angle(50%) C0-180,C90-270: 29.4 deg,30.3 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2026/6/5 10:56:39

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

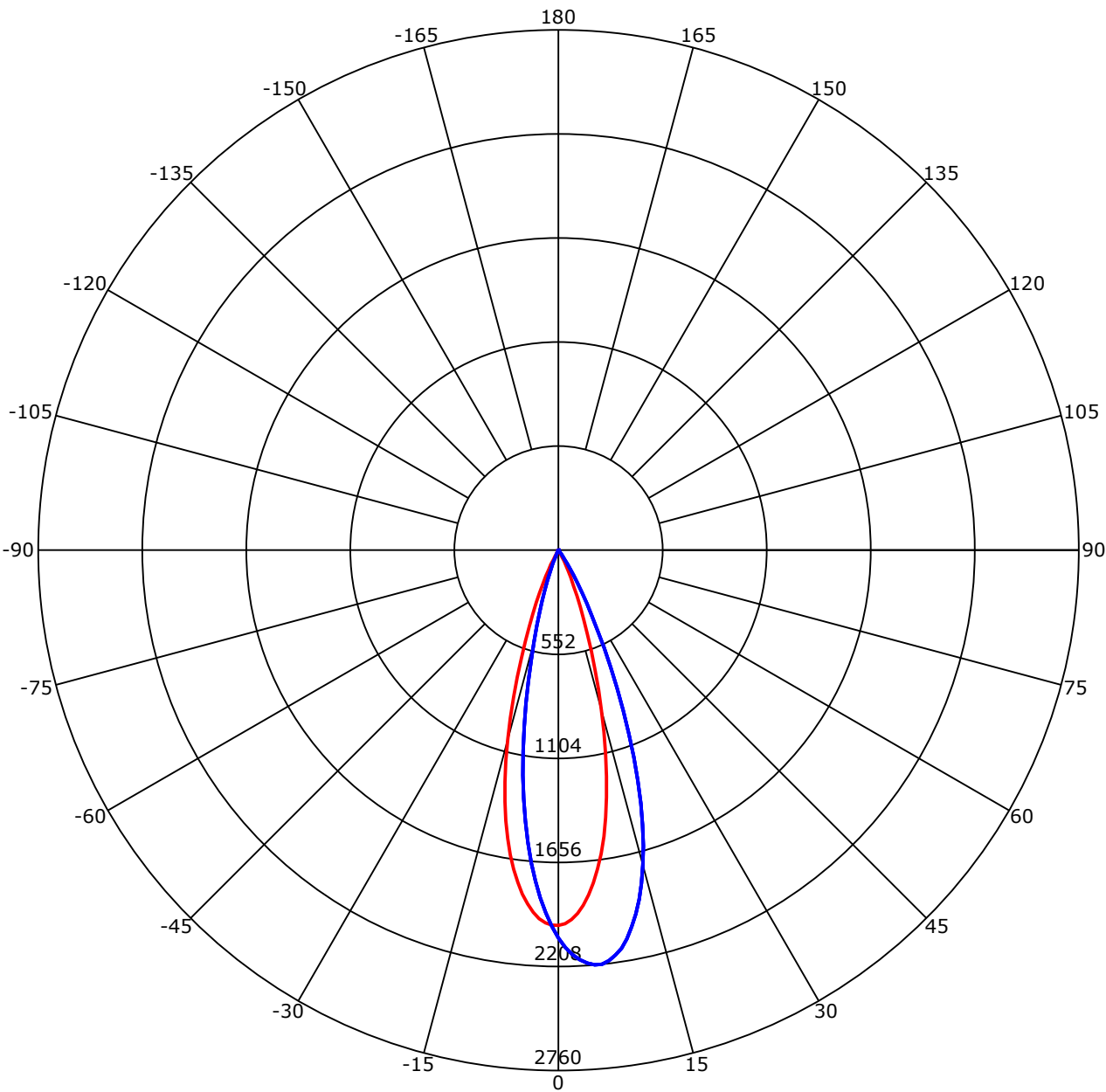
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2026/6/5 10:56:39

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

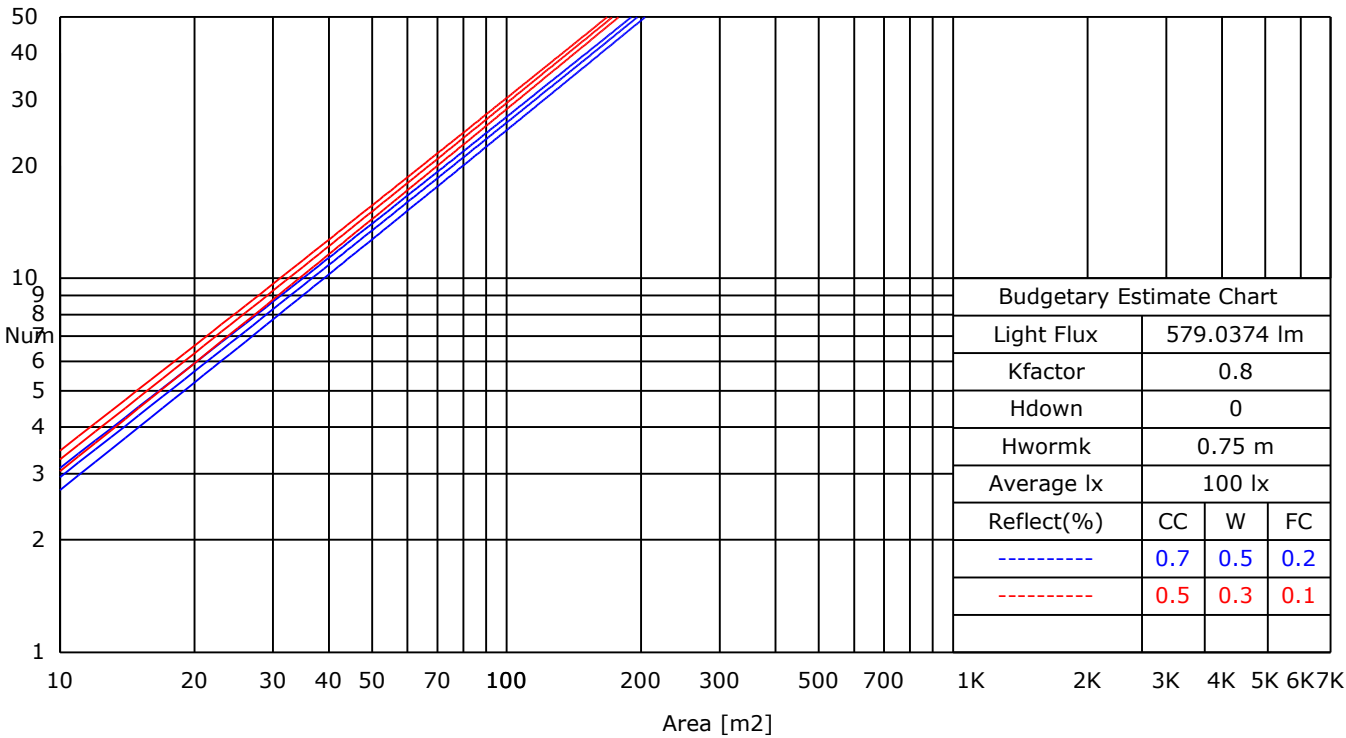


C0-180 C90-270
 Unit: cd/klm

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	0.90	0.87	0.84	0.90	0.86	0.83	0.87	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.70	0.65
2	0.87	0.85	0.83	0.87	0.84	0.81	0.85	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.63
4	0.83	0.81	0.80	0.83	0.80	0.78	0.81	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
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	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.79	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.78	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.67	0.63	0.60
9	0.77	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.59

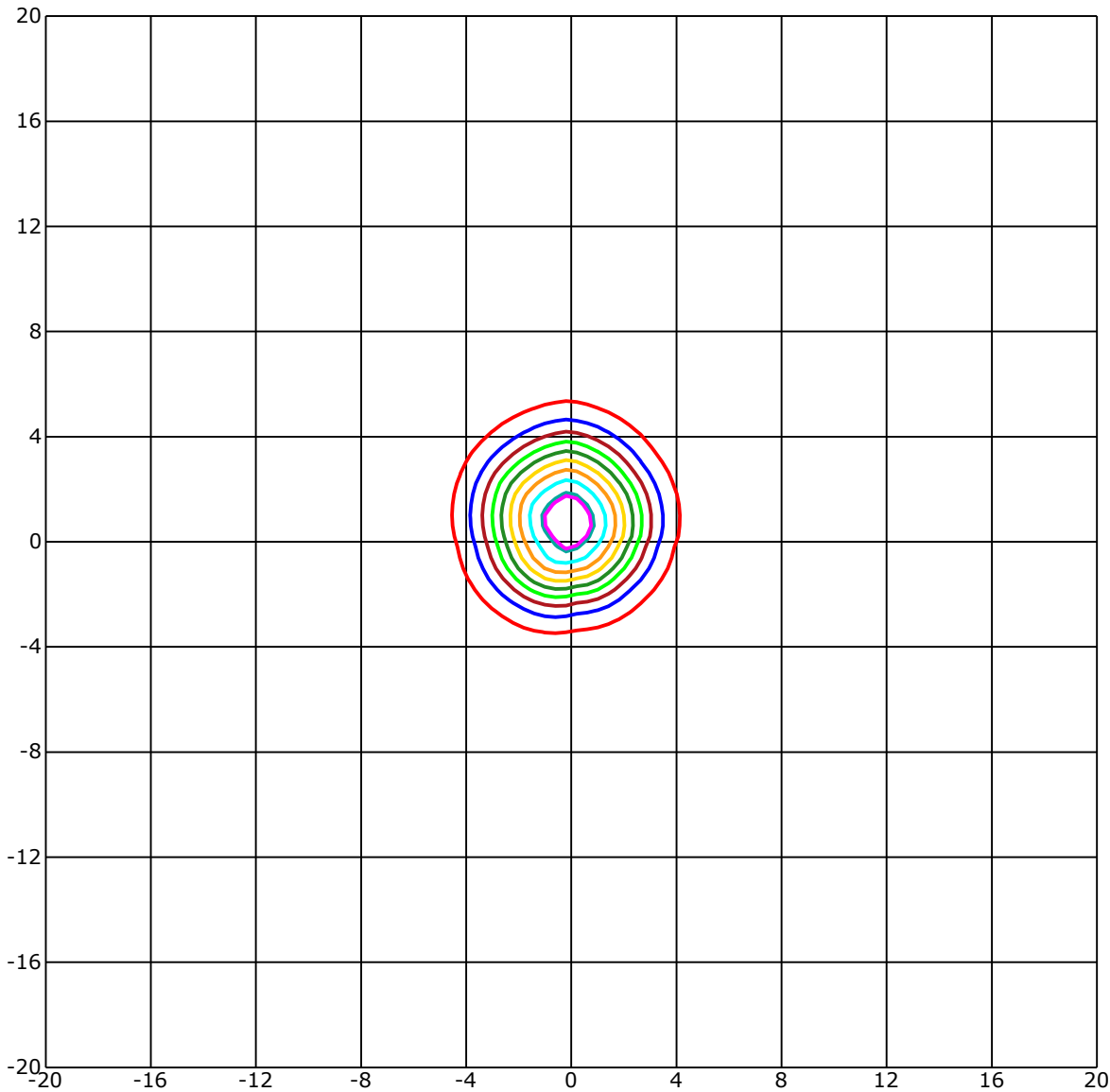
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2026/6/5 10:56:39

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

ISOLX DIAGRAM



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

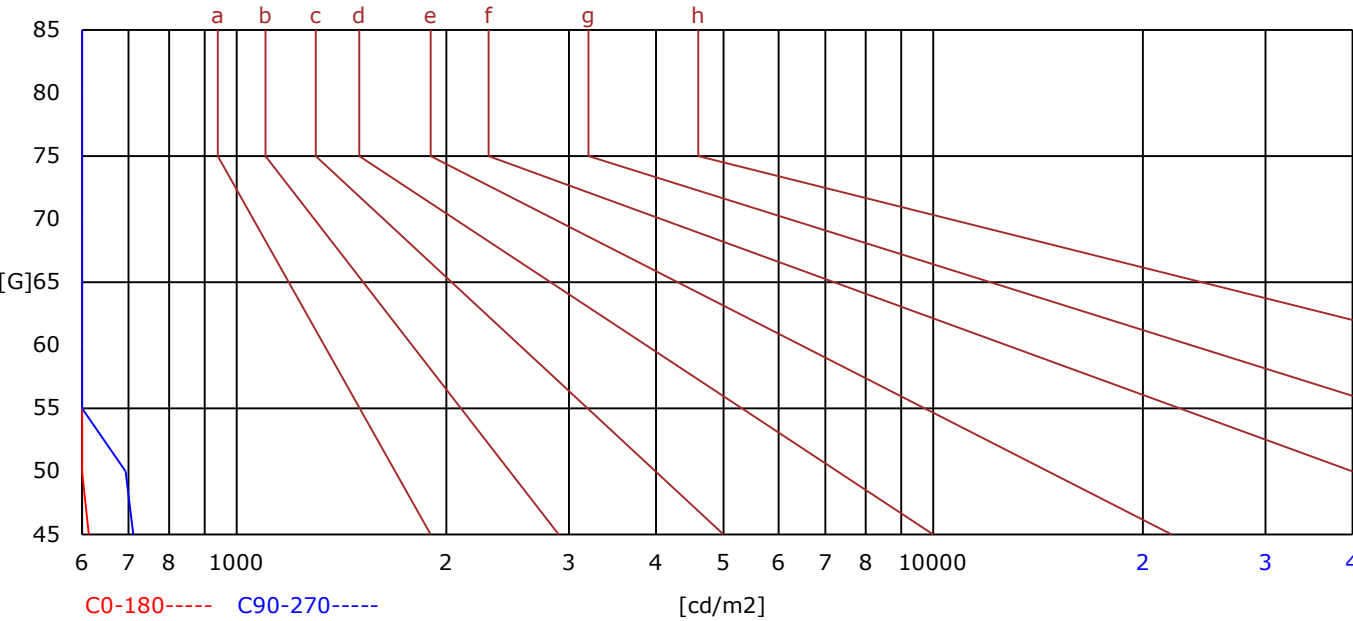
- | | |
|-----------------|-----------------|
| 20.083(92%Emax) | 10.915(50%Emax) |
| 19.647(90%Emax) | 8.732(40%Emax) |
| 17.464(80%Emax) | 6.549(30%Emax) |
| 15.281(70%Emax) | 4.366(20%Emax) |
| 13.098(60%Emax) | 2.183(10%Emax) |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2026/6/5 10:56:39

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

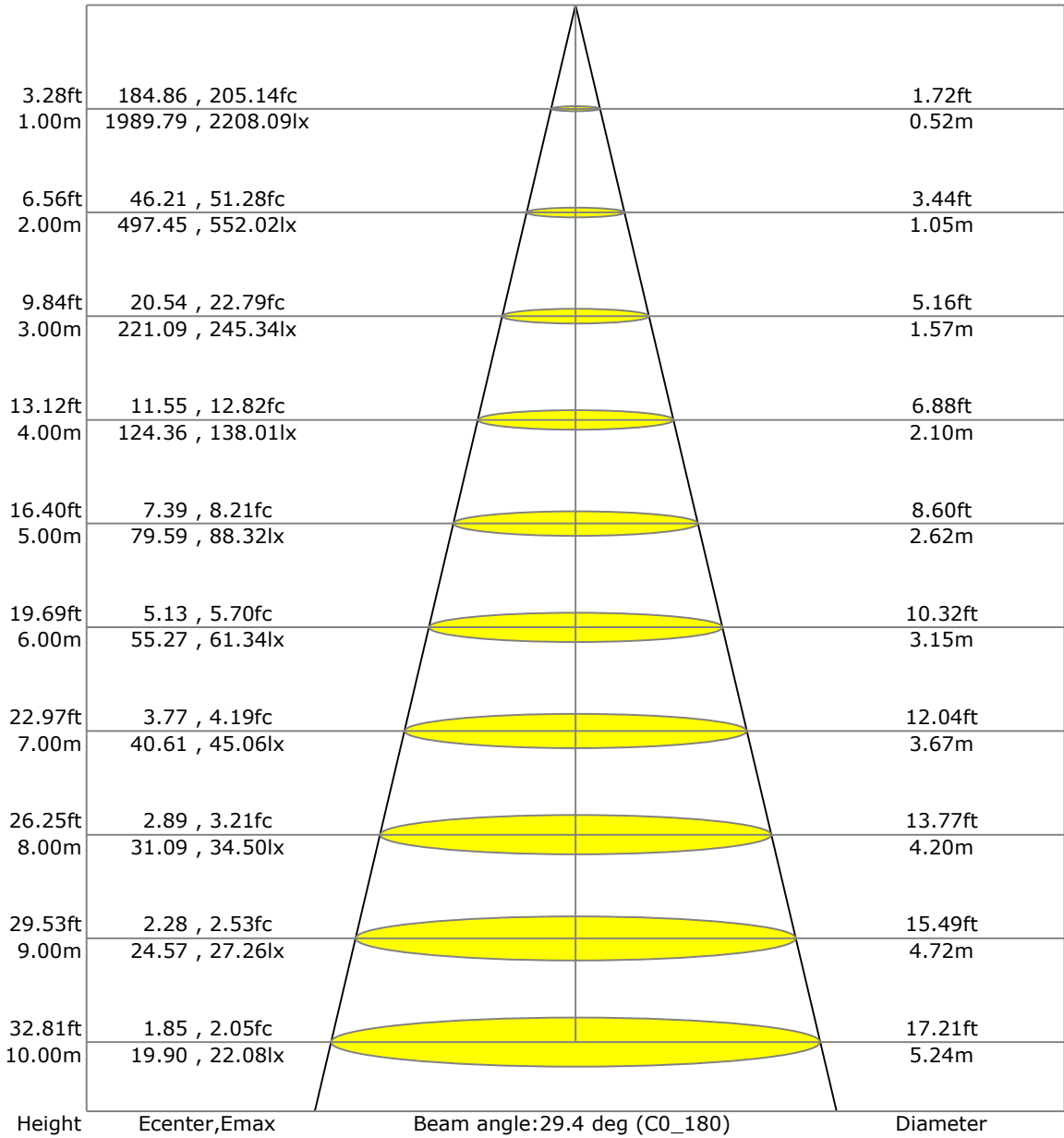
C/G	45	50	55	60	65	70	75	80	85
C0	614	569	538	503	351	134	0	0	0
C90	711	693	598	548	379	167	0	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=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: 2026/6/5 10:56:39

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

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/6/5 10:56:39

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

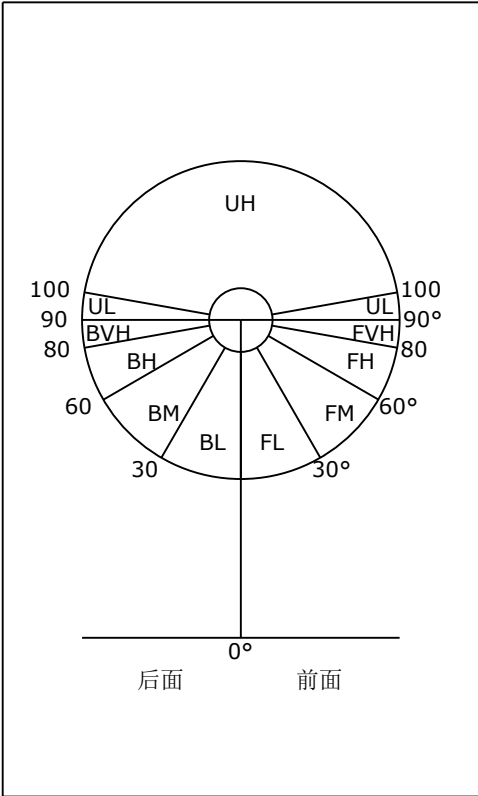
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

BUG等级评价表



区域	光通量(lm)	光通量(%)
前面	379.6	65.6
FL (0°-30°)	367.6	63.5
FM (30°-60°)	11.4	2.0
FH (60°-80°)	0.5	0.1
FVH (80°-90°)	0.0	0.0
后面	199.5	34.4
BL (0°-30°)	195.7	33.8
BM (30°-60°)	3.5	0.6
BH (60°-80°)	0.2	0.0
BVH (80°-90°)	0.0	0.0
上面	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0
限制光	NA	NA

BUG评价等级(基于TM-15-07)	
非对称灯具 (Type I , II , III , IV)	B1 U0 G0
对称灯具 (Type V , Area Light)	B1 U0 G0

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	1.02	1.07	1.22	1.26	1.50	1.02	1.07	1.22	1.26	1.50
3H	1.00	1.05	1.21	1.25	1.49	1.00	1.05	1.21	1.25	1.49
4H	0.99	1.04	1.20	1.24	1.49	0.99	1.04	1.20	1.24	1.49
6H	0.97	1.03	1.19	1.23	1.48	0.97	1.03	1.19	1.23	1.48
8H	0.97	1.02	1.19	1.23	1.48	0.97	1.02	1.19	1.23	1.48
12H	0.96	1.02	1.18	1.22	1.48	0.96	1.02	1.18	1.22	1.48
4H 2H	0.99	1.04	1.20	1.24	1.49	0.99	1.04	1.20	1.24	1.49
3H	0.96	1.02	1.18	1.22	1.48	0.96	1.02	1.18	1.22	1.48
4H	0.94	1.00	1.17	1.21	1.47	0.94	1.00	1.17	1.21	1.47
6H	0.92	0.98	1.16	1.20	1.47	0.92	0.98	1.16	1.20	1.47
8H	0.91	0.97	1.15	1.20	1.46	0.91	0.97	1.15	1.20	1.46
12H	0.90	0.96	1.15	1.19	1.46	0.90	0.96	1.15	1.19	1.46
8H 4H	0.97	1.02	1.19	1.23	1.48	0.97	1.02	1.19	1.23	1.48
6H	0.89	0.94	1.14	1.18	1.45	0.89	0.94	1.14	1.18	1.45
8H	0.87	0.93	1.14	1.17	1.45	0.87	0.93	1.14	1.17	1.45
12H	0.86	0.91	1.13	1.16	1.45	0.86	0.91	1.13	1.16	1.45
12H 4H	0.90	0.96	1.15	1.19	1.46	0.90	0.96	1.15	1.19	1.46
6H	0.87	0.93	1.14	1.17	1.45	0.87	0.93	1.14	1.17	1.45

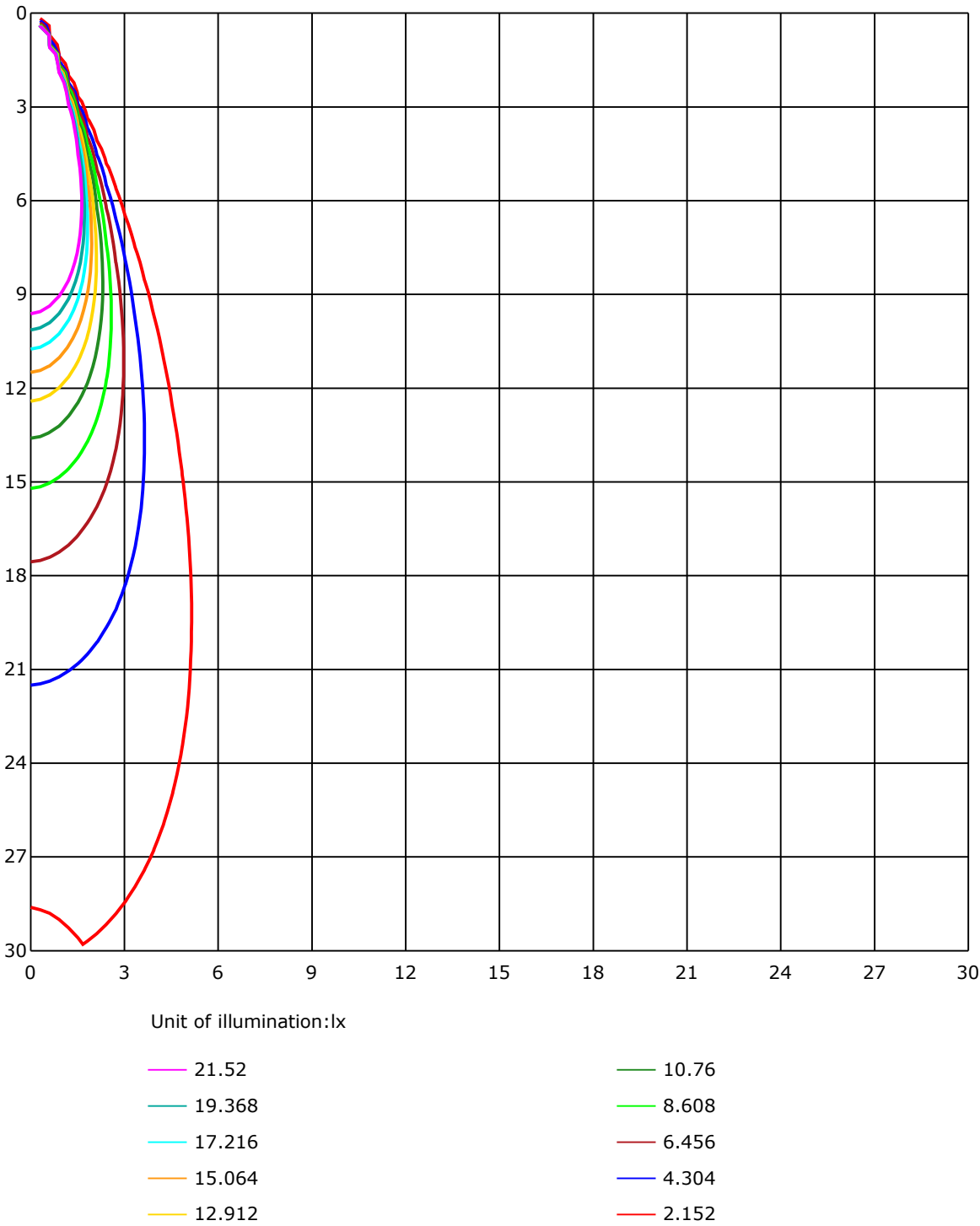
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2026/6/5 10:56:39

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

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2026/6/5 10:56:39

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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1989.79	2069.69	2057.05	2048.1	1989.79	2069.69	2057.05	2048.1	1989.79	
G1	1981.22	2091.96	2107.86	2083.52	1988.85	2037.47	1996.8	1999.74	1981.22	
G2	1960.51	2102.1	2147.53	2106.48	1977.78	1997.99	1923.66	1943.68	1960.51	
G3	1928.72	2101.98	2174.8	2119.24	1956.94	1947.43	1846.07	1881.11	1928.72	
G4	1887.3	2090.34	2195.14	2122.69	1925.03	1884.74	1758.85	1803.96	1887.3	
G5	1835.5	2065.0	2208.09	2116.12	1882.67	1810.85	1664.56	1716.81	1835.5	
G6	1774.18	2030.65	2208.03	2101.35	1833.93	1736.14	1557.26	1627.27	1774.18	
G7	1703.1	1986.35	2193.58	2076.26	1775.31	1651.49	1446.14	1530.98	1703.1	
G8	1626.58	1929.79	2168.8	2040.47	1708.99	1556.07	1329.57	1417.92	1626.58	
G9	1537.36	1863.72	2137.64	1992.92	1635.97	1452.08	1207.94	1301.54	1537.36	
G10	1439.82	1791.33	2092.22	1938.42	1553.0	1349.22	1079.05	1183.85	1439.82	
G11	1334.77	1709.86	2035.4	1879.86	1461.84	1240.66	952.22	1063.53	1334.77	
G12	1226.71	1617.39	1972.02	1806.53	1364.8	1118.47	830.03	935.96	1226.71	
G13	1113.21	1514.15	1901.13	1725.0	1261.75	994.83	710.34	813.82	1113.21	
G14	995.15	1413.6	1820.92	1639.85	1152.57	878.71	599.53	702.83	995.15	
G15	881.33	1305.55	1728.82	1545.81	1038.32	766.71	501.55	600.65	881.33	
G16	771.09	1184.85	1631.46	1438.88	926.38	653.46	416.39	501.67	771.09	
G17	663.85	1059.15	1524.22	1322.82	813.64	550.6	343.62	415.95	663.85	
G18	563.05	943.65	1412.04	1211.94	706.71	465.13	281.37	344.88	563.05	
G19	472.26	827.84	1291.91	1094.75	605.03	390.05	227.12	283.68	472.26	
G20	393.93	710.59	1169.02	969.3	514.0	320.1	176.5	224.24	393.93	
G21	325.04	601.84	1042.39	846.05	433.41	263.54	135.9	171.94	325.04	
G22	263.16	508.99	918.0	735.36	362.02	209.73	102.3	133.46	263.16	
G23	204.72	424.59	794.49	629.81	300.33	164.68	72.45	102.42	204.72	
G24	157.3	347.19	678.99	529.58	246.52	126.51	47.11	72.95	157.3	
G25	120.63	279.37	572.75	438.79	194.84	93.66	28.59	46.68	120.63	
G26	90.1	222.87	477.21	366.77	152.92	65.76	17.52	28.66	90.1	
G27	62.76	172.5	391.68	302.64	117.25	43.48	13.08	17.96	62.76	
G28	40.54	130.58	319.97	242.26	85.66	27.28	10.45	13.58	40.54	
G29	24.09	96.98	258.78	185.14	57.81	19.65	8.26	10.7	24.09	
G30	14.52	69.83	200.28	143.16	37.73	16.14	6.19	8.95	14.52	
G31	10.95	46.05	153.23	107.68	25.53	13.26	4.88	7.07	10.95	
G32	8.82	27.47	116.31	74.89	19.71	10.7	3.88	5.88	8.82	
G33	6.82	16.39	85.09	47.55	15.77	8.63	3.13	5.26	6.82	
G34	5.13	11.95	57.44	30.47	12.45	6.63	2.82	4.38	5.13	
G35	4.13	9.32	36.54	20.27	9.76	5.51	2.69	4.0	4.13	
G36	3.57	6.95	23.65	14.77	7.82	4.32	2.57	3.69	3.57	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2026/6/5 10:56:39

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: 2026/6/5 10:56:39

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	3.0	5.13	17.14	10.7	6.01	3.82	2.57	3.57	3.0	
G38	2.75	4.19	13.45	8.13	4.94	3.57	2.69	3.25	2.75	
G39	2.5	3.19	10.39	6.13	4.19	3.44	2.5	3.44	2.5	
G40	2.32	2.82	7.95	4.69	3.88	3.32	2.44	3.25	2.32	
G41	2.5	2.5	6.19	3.63	3.69	3.32	2.38	3.13	2.5	
G42	2.44	2.19	4.76	3.19	3.57	3.19	2.06	3.0	2.44	
G43	2.38	2.19	4.0	2.88	3.69	2.88	2.06	3.07	2.38	
G44	2.32	2.38	3.63	2.82	3.32	3.0	2.06	2.82	2.32	
G45	2.25	2.38	3.44	2.75	3.25	2.88	1.88	2.69	2.25	
G46	2.25	2.13	3.5	2.69	3.13	2.75	1.81	2.57	2.25	
G47	2.19	2.13	3.32	2.57	3.07	2.88	1.94	2.44	2.19	
G48	2.19	2.13	3.25	2.57	2.69	2.69	1.63	2.32	2.19	
G49	2.19	2.06	3.13	2.5	2.75	2.44	1.56	2.32	2.19	
G50	2.06	2.0	3.07	2.44	2.69	2.13	1.5	1.94	2.06	
G51	2.0	1.94	2.94	2.38	2.57	2.0	1.44	1.88	2.0	
G52	1.88	1.88	2.82	2.0	2.69	2.13	1.31	1.75	1.88	
G53	1.81	1.81	2.69	2.19	2.32	1.94	1.06	1.69	1.81	
G54	1.69	1.75	2.63	2.06	2.25	1.81	1.0	1.56	1.69	
G55	1.63	1.69	2.57	1.88	2.13	1.69	0.94	1.5	1.63	
G56	1.56	1.69	2.44	1.81	2.06	1.63	0.81	1.38	1.56	
G57	1.5	1.63	2.32	1.75	2.0	1.5	0.69	1.25	1.5	
G58	1.38	1.63	2.0	1.63	1.81	1.44	0.63	1.25	1.38	
G59	1.25	1.5	1.94	1.56	1.81	1.38	0.56	1.19	1.25	
G60	1.13	1.38	1.81	1.5	1.56	1.25	0.5	0.81	1.13	
G61	1.06	1.25	1.63	1.31	1.38	1.06	0.38	0.69	1.06	
G62	0.88	1.25	1.56	1.19	1.31	1.19	0.31	0.63	0.88	
G63	0.88	1.0	1.5	1.06	1.25	0.81	0.06	0.5	0.88	
G64	0.75	1.13	1.38	0.94	1.19	0.75	0.0	0.38	0.75	
G65	0.75	0.81	1.25	0.88	1.13	0.63	0.0	0.25	0.75	
G66	0.63	0.75	1.13	0.81	1.0	0.56	0.0	0.19	0.63	
G67	0.5	0.44	0.94	0.75	0.88	0.38	0.0	0.19	0.5	
G68	0.31	0.44	0.81	0.63	0.84	0.19	0.0	0.0	0.31	
G69	0.19	0.44	0.88	0.47	0.81	0.19	0.0	0.0	0.19	
G70	0.06	0.25	0.56	0.31	0.44	0.0	0.0	0.0	0.06	
G71	0.0	0.13	0.5	0.13	0.31	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.06	0.0	0.25	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.06	0.0	0.19	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: 2026/6/5 10:56:39

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: 2026/6/5 10:56:39

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