

Report No.:

Test Time: 2025/5/17 16:57:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 37 60CM 20W BK SLV
Lamp Type: RA90 4000K
Luminous Width: 37 mm
Luminous Length: 600 mm
Luminous Height: 0 mm

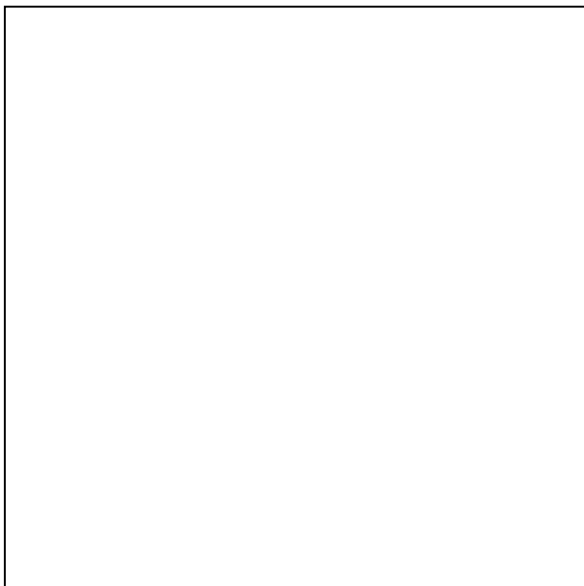
Voltage(V): 231.27 V
Current(A): 0.0859 A
Power(W): 19.58 W
Power Factor: 0.9857
Lamp Luminous Flux: 2571.97

Photometric Results

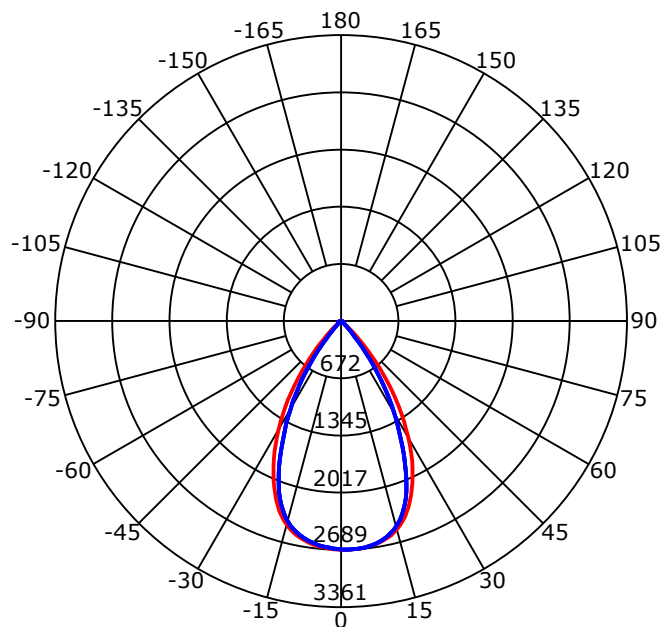
CIE Class: Direct
Luminaire Luminous Flux: 2571.97 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 131.36 lm/W
Beam Angle(50%) C0-180,C90-270: 64.0,57.4
Field Angle(10%) C0-180,C90-270: 89.9,80.9
S/MH C0-180,C90-270: 0.975,0.933

Max. Intensity: 2689.17 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2688.43 cd
Effective Luminous Flux: 2454.05 lm
ERP(ϕ use)(120deg): 2562.33 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 64.0 deg,57.4 deg

C0-180 — C90-270 —

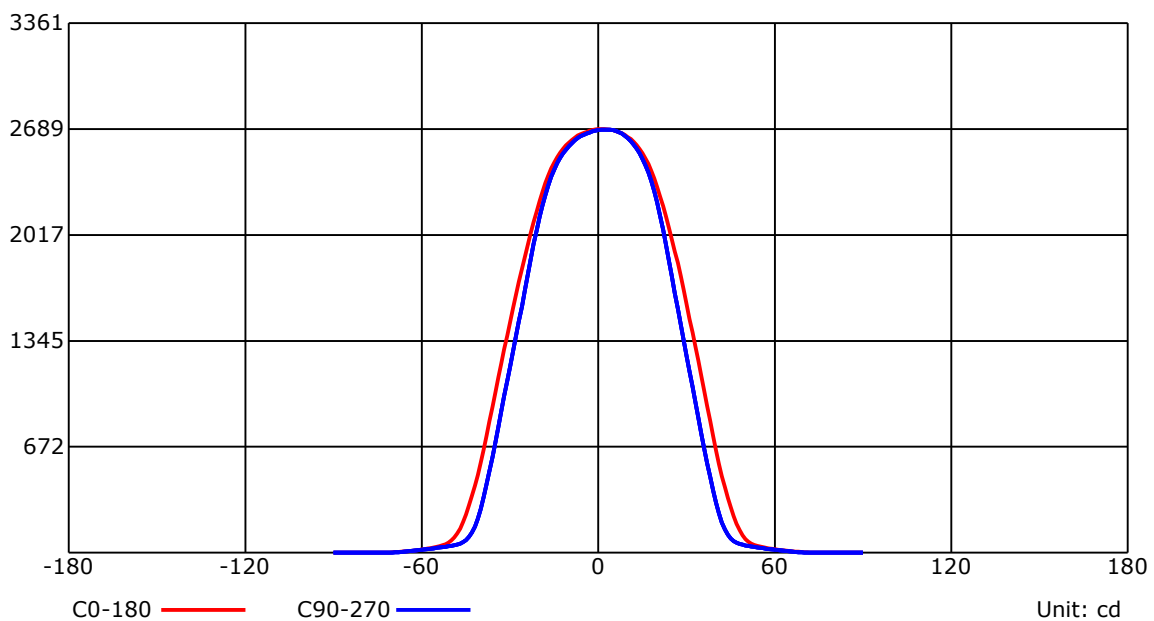
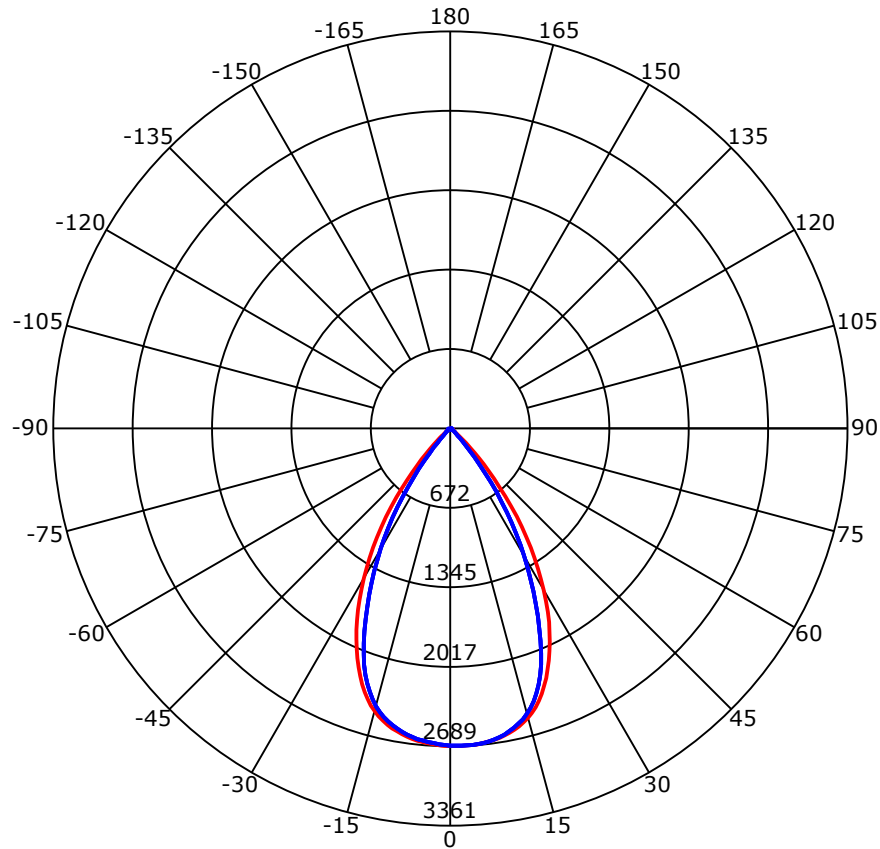
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

Luminous Intensity Distribution Curve



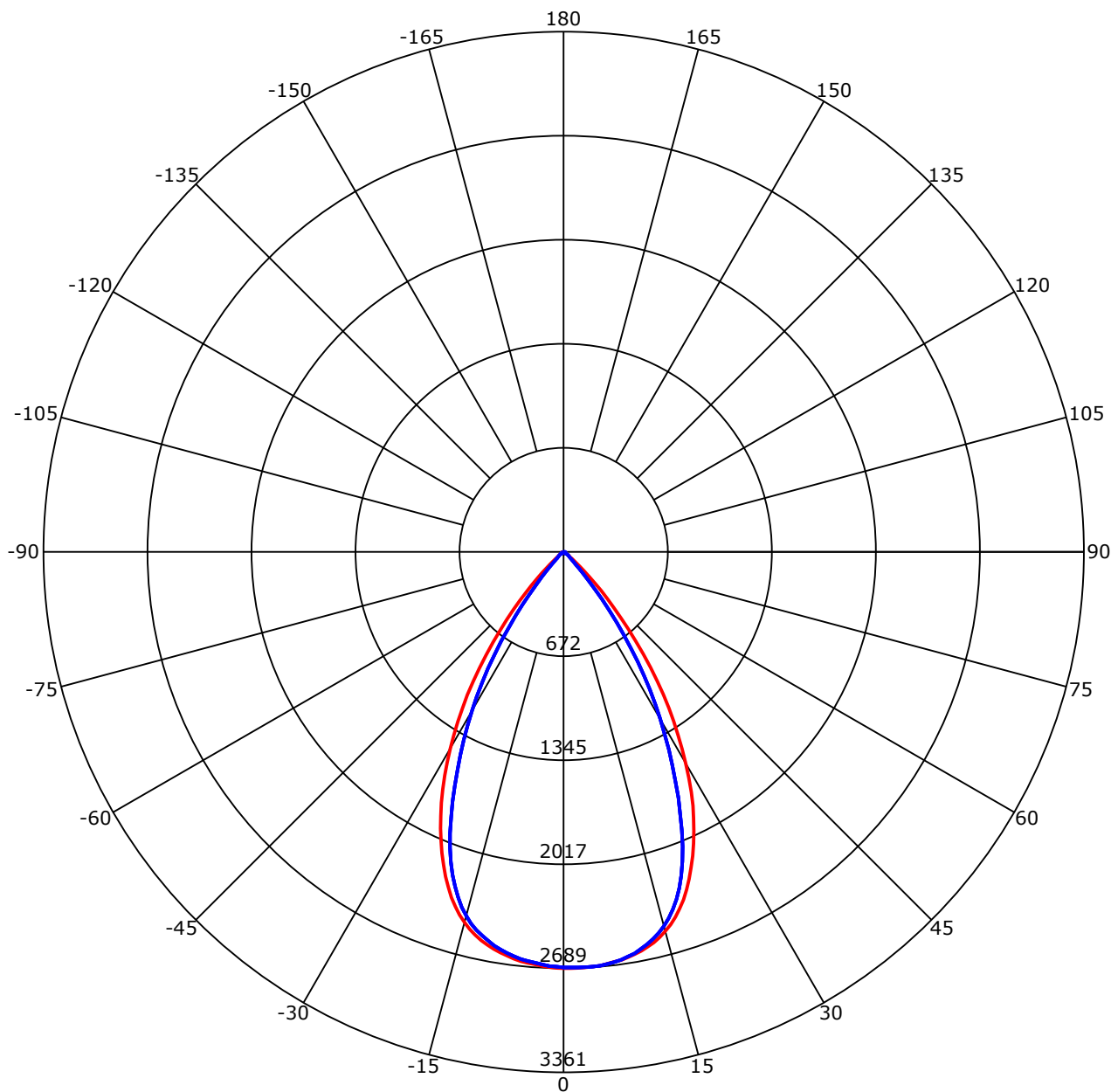
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

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Test Time: 2025/5/17 16:57:59

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

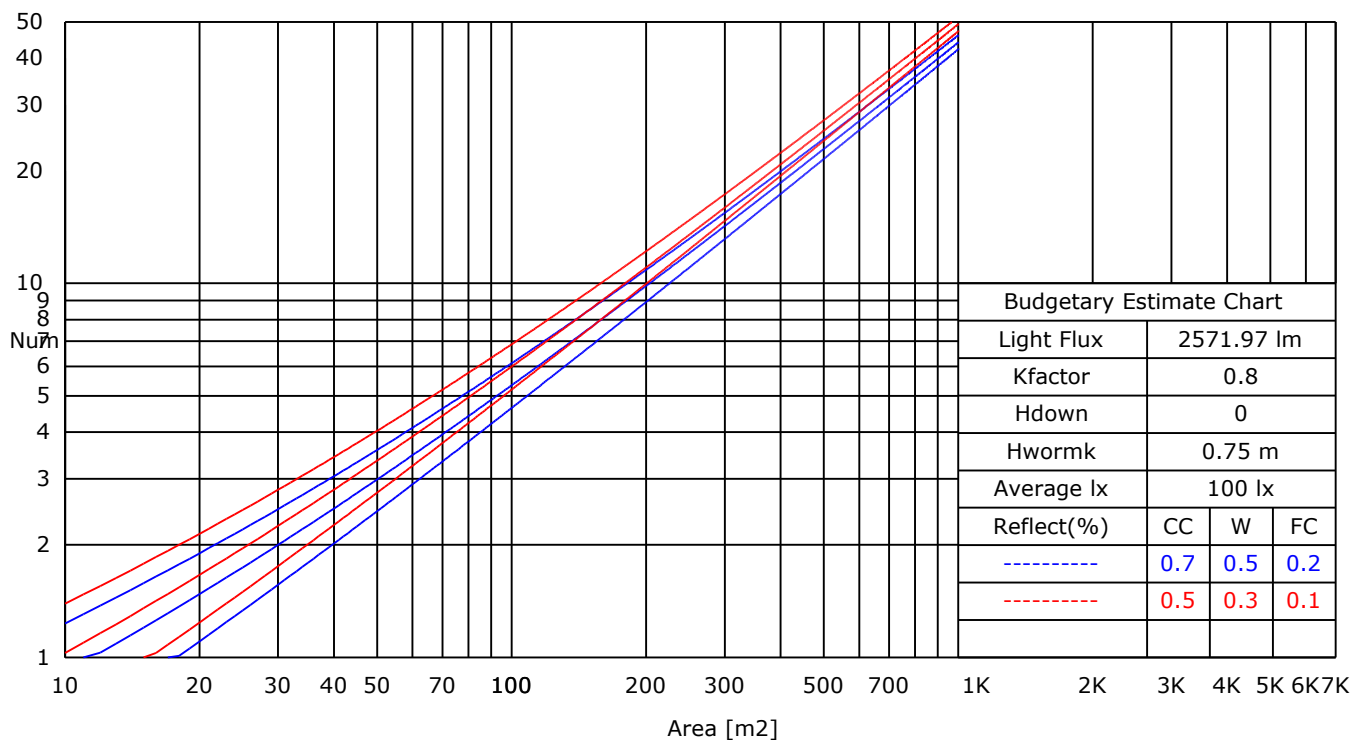
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UTILIZATION FACTORS TABLE

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	1.14	1.13	1.12	1.12	1.11	1.10	1.08	1.07	1.06	1.02	1.01	1.00	0.95	0.94	0.93	0.88
2	1.06	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.88	0.86	0.81
3	0.99	0.97	0.96	0.98	0.96	0.94	0.94	0.92	0.90	0.90	0.88	0.85	0.86	0.83	0.80	0.75
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
6	0.80	0.78	0.77	0.79	0.77	0.76	0.78	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.61
7	0.75	0.73	0.72	0.74	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.68	0.64	0.60	0.57
8	0.70	0.69	0.68	0.70	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.56	0.53
9	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.63	0.59	0.56	0.61	0.57	0.53	0.50
10	0.62	0.61	0.60	0.62	0.60	0.58	0.61	0.58	0.56	0.60	0.56	0.53	0.58	0.53	0.50	0.47

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



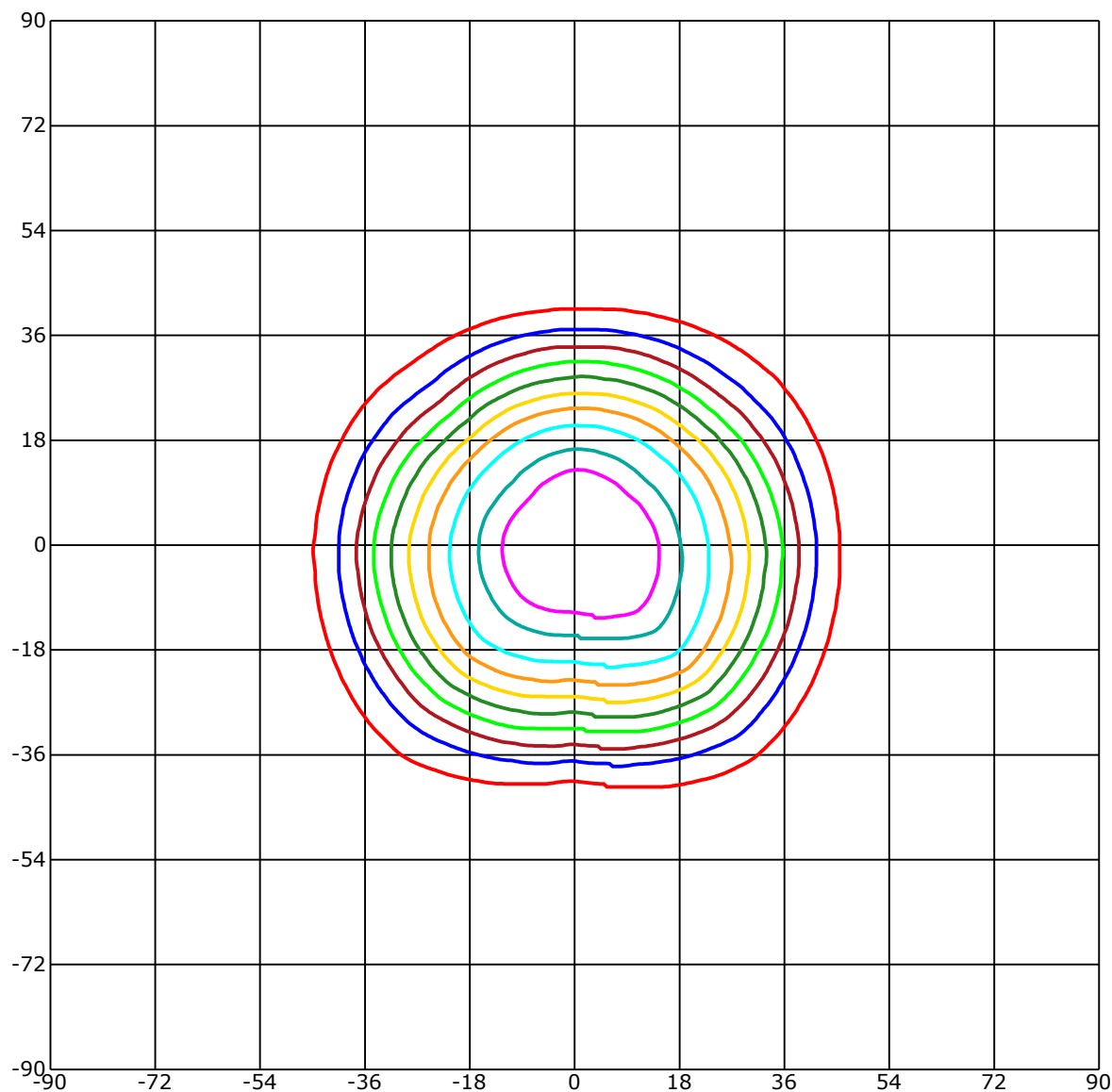
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

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ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 2689.174 cd

2554.715(95%Imax)	1344.587(50%Imax)
2420.256(90%Imax)	1075.669(40%Imax)
2151.339(80%Imax)	806.752(30%Imax)
1882.422(70%Imax)	537.835(20%Imax)
1613.504(60%Imax)	268.917(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

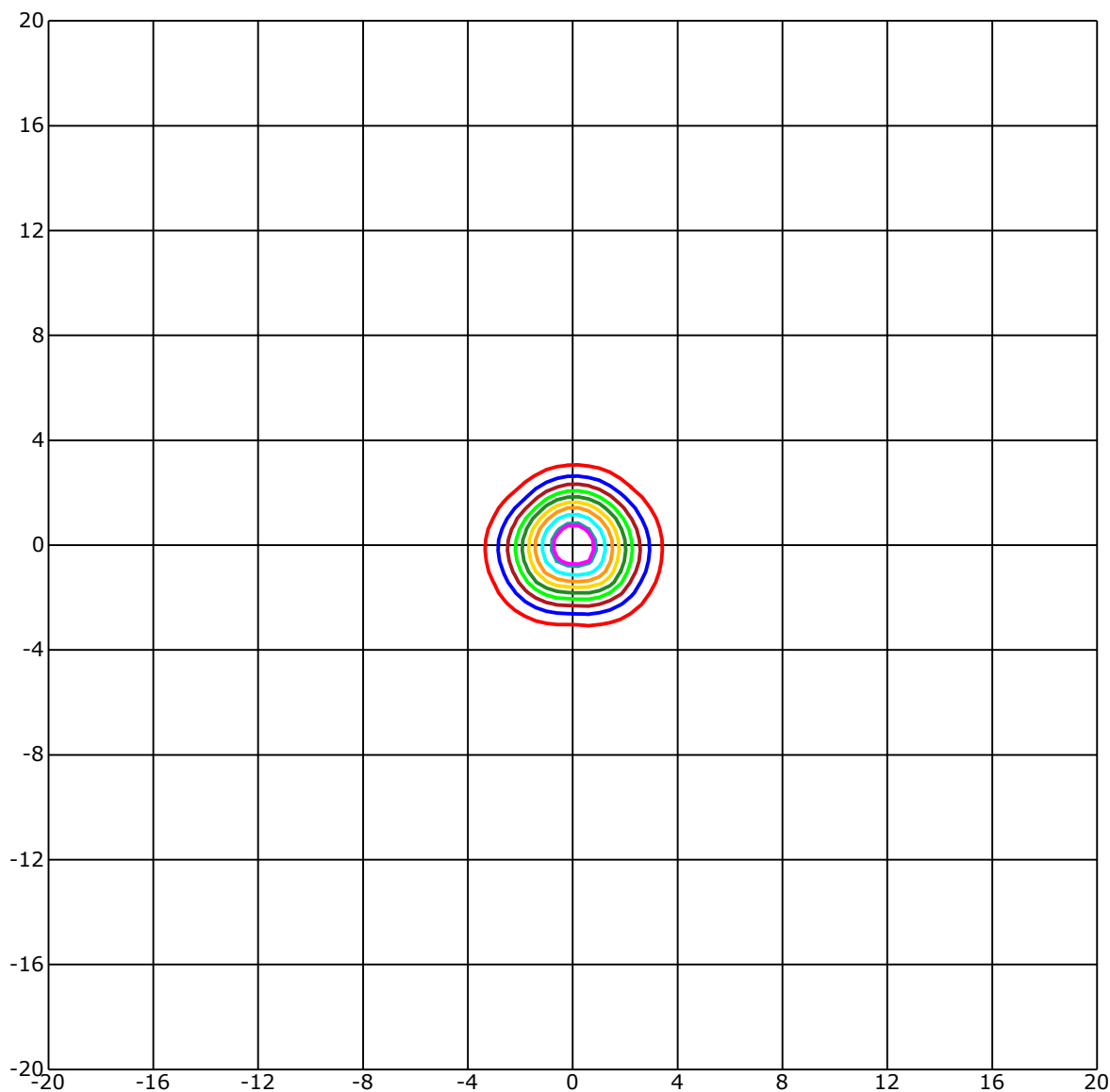
Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

ISOLX DIAGRAM



Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)

154.585(92%Emax)	84.013(50%Emax)
151.224(90%Emax)	67.211(40%Emax)
134.422(80%Emax)	50.408(30%Emax)
117.619(70%Emax)	33.605(20%Emax)
100.816(60%Emax)	16.803(10%Emax)

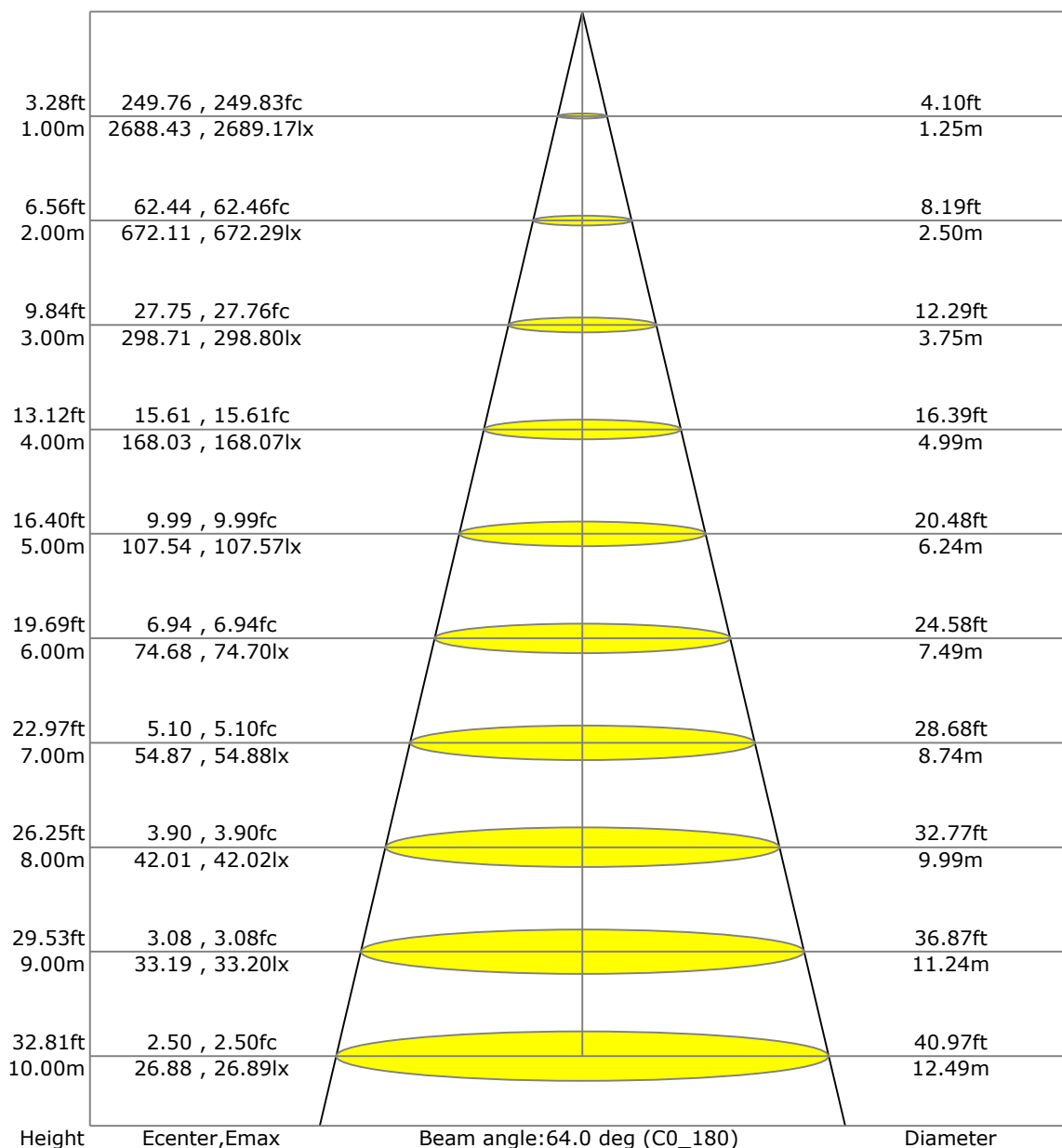
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

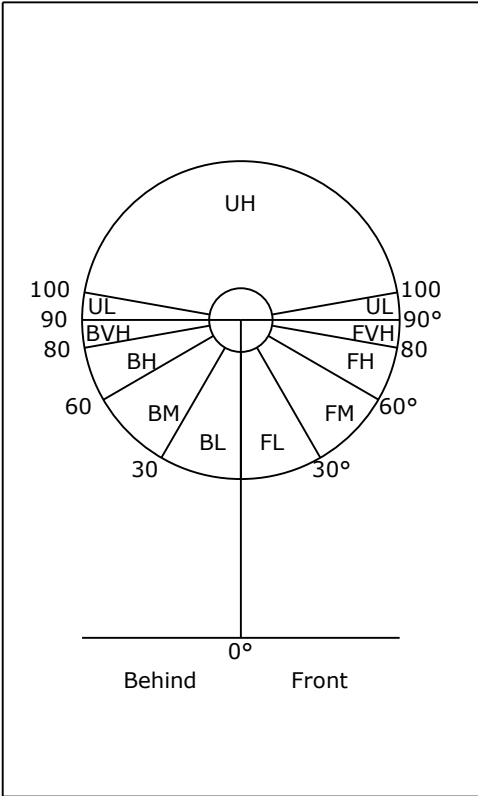
Test Distance: 5.95 m

Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	1224.6	47.6
FL (0°-30°)	878.0	34.1
FM (30°-60°)	342.6	13.3
FH (60°-80°)	3.9	0.2
FVH (80°-90°)	0.0	0.0
Behind	1347.4	52.4
BL (0°-30°)	913.9	35.5
BM (30°-60°)	427.8	16.6
BH (60°-80°)	5.7	0.2
BVH (80°-90°)	0.0	0.0
Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0
Limit Light	NA	NA

BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B2 U0 G0
Symmetrical Lighting Fixtures (Type V , Area Light)	B2 U0 G0

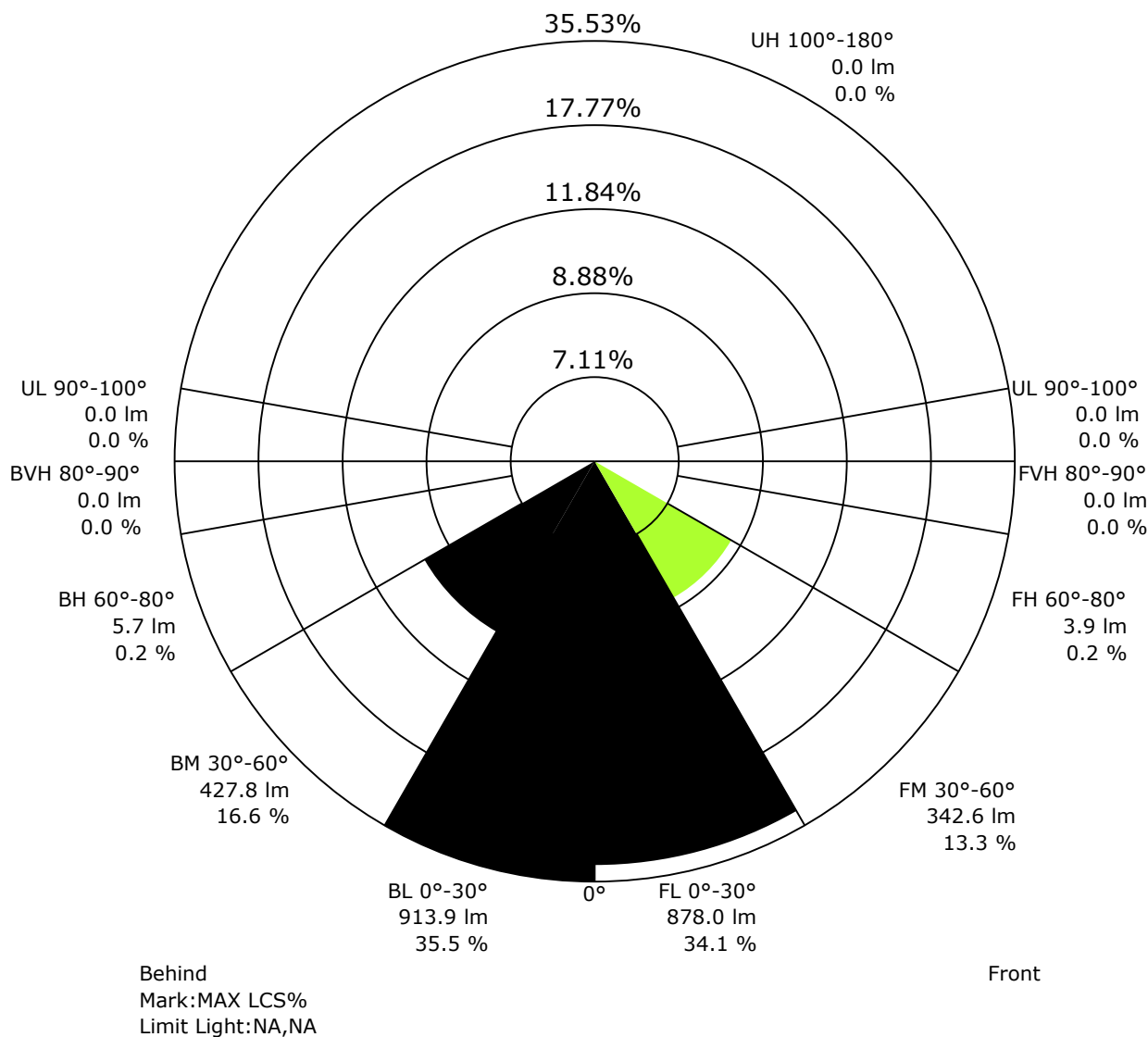
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

LCS 图



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	2639.4	2613.9	2632.7	2580.3	2603.3	2608.0	2581.1	2649.7	10	253.1	253.1	9.8	9.8
20	2321.6	2230.4	2223.5	2132.9	2231.9	2288.8	2131.4	2432.6	20	694.4	947.5	36.8	36.8
30	1578.2	1321.9	1247.5	1128.3	1466.2	1506.4	1182.4	1723.1	30	844.4	1791.9	69.7	69.7
40	648.3	418.0	317.5	314.7	570.7	581.8	277.1	691.9	40	564.0	2355.9	91.6	91.6
50	86.0	63.1	46.2	45.8	76.9	110.1	43.8	125.5	50	172.2	2528.1	98.3	98.3
60	22.0	15.0	18.8	11.9	20.4	21.6	18.6	24.9	60	34.2	2562.3	99.6	99.6
70	3.6	1.0	1.1	0.2	2.7	2.9	0.9	4.4	70	9.1	2571.5	100.0	100.0
80	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.2	80	0.5	2571.9	100.0	100.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90	0.0	2572.0	100.0	100.0

Conical surface Flux(90deg) : 2476.1 lm

%lum = 96.3%

%lamp = 96.3%

Conical surface Flux(120deg) : 2562.3 lm

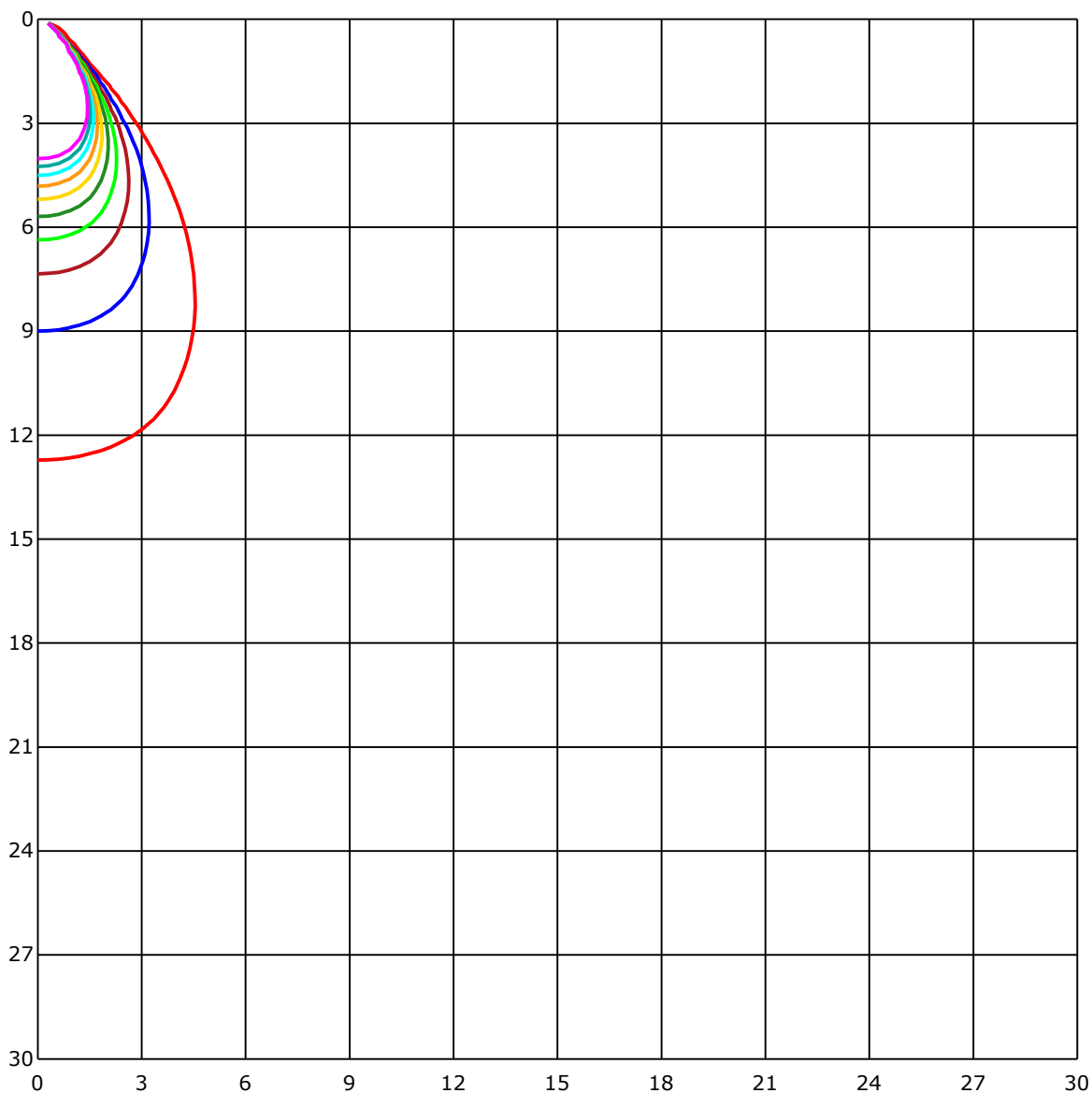
%lum = 99.6%

%lamp = 99.6%

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

166.277	83.138
149.649	66.511
133.022	49.883
116.394	33.255
99.766	16.628

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 5.95 m
Remarks:

Report No.:

Test Time: 2025/5/17 16:57:59

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2688.43	2684.25	2683.86	2686.48	2688.43	2684.25	2683.86	2686.48	2688.43	
G1	2688.57	2686.06	2684.82	2683.62	2687.69	2682.2	2679.12	2687.51	2688.57	
G2	2689.17	2685.92	2686.13	2680.11	2682.62	2681.14	2675.37	2686.94	2689.17	
G3	2686.91	2682.84	2686.24	2675.65	2678.8	2675.69	2667.51	2686.38	2686.91	
G4	2685.32	2680.54	2685.03	2668.15	2670.91	2671.86	2660.14	2680.93	2685.32	
G5	2683.16	2672.85	2682.24	2658.76	2665.74	2664.11	2652.71	2679.69	2683.16	
G6	2675.08	2665.56	2677.14	2647.75	2657.67	2655.19	2644.18	2676.15	2675.08	
G7	2668.15	2655.51	2669.1	2636.32	2647.89	2646.73	2631.5	2673.28	2668.15	
G8	2661.99	2645.03	2659.86	2619.5	2634.02	2636.78	2617.59	2666.62	2661.99	
G9	2651.79	2630.26	2646.02	2602.9	2619.36	2622.19	2600.14	2659.01	2651.79	
G10	2639.36	2613.91	2632.71	2580.35	2603.29	2607.96	2581.13	2649.74	2639.36	
G11	2625.34	2592.88	2611.68	2555.64	2585.06	2589.06	2558.01	2639.12	2625.34	
G12	2607.22	2569.87	2590.44	2528.69	2563.71	2568.42	2533.86	2624.88	2607.22	
G13	2588.6	2542.78	2564.63	2497.82	2538.32	2545.37	2505.75	2609.94	2588.6	
G14	2563.92	2512.94	2536.63	2461.64	2510.04	2517.05	2473.5	2589.59	2563.92	
G15	2535.95	2477.61	2500.62	2423.48	2477.29	2488.48	2433.11	2571.89	2535.95	
G16	2504.05	2439.59	2460.86	2379.12	2439.27	2455.34	2386.8	2548.84	2504.05	
G17	2466.78	2394.77	2412.79	2329.02	2394.34	2419.12	2332.46	2524.91	2466.78	
G18	2422.98	2345.77	2358.02	2269.48	2347.08	2380.29	2271.18	2497.08	2422.98	
G19	2376.04	2289.69	2294.93	2205.33	2290.72	2334.83	2205.68	2466.74	2376.04	
G20	2321.55	2230.43	2223.53	2132.89	2231.88	2288.81	2131.44	2432.65	2321.55	
G21	2262.26	2159.09	2140.9	2054.2	2166.77	2236.48	2047.86	2394.8	2262.26	
G22	2199.13	2088.68	2049.91	1965.69	2098.45	2180.3	1959.49	2350.76	2199.13	
G23	2132.65	2006.83	1952.13	1871.91	2028.67	2113.32	1862.88	2300.77	2132.65	
G24	2062.02	1919.49	1851.13	1776.6	1954.43	2045.27	1765.24	2241.01	2062.02	
G25	1989.16	1830.27	1753.56	1667.14	1878.53	1965.8	1666.47	2174.53	1989.16	
G26	1912.34	1731.15	1647.99	1562.21	1802.41	1882.71	1564.22	2096.11	1912.34	
G27	1839.76	1635.42	1546.63	1451.54	1720.53	1797.46	1470.2	2013.09	1839.76	
G28	1756.39	1530.42	1447.15	1345.08	1636.55	1701.83	1375.21	1920.73	1756.39	
G29	1668.91	1430.65	1348.94	1233.64	1553.04	1611.63	1278.67	1829.71	1668.91	
G30	1578.17	1321.89	1247.48	1128.35	1466.23	1506.38	1182.44	1723.11	1578.17	
G31	1484.64	1219.23	1152.71	1024.02	1378.15	1408.38	1091.92	1612.16	1484.64	
G32	1397.58	1111.64	1050.25	926.45	1291.84	1309.61	994.53	1503.51	1397.58	
G33	1305.22	1010.42	952.26	830.4	1200.25	1212.68	895.93	1393.8	1305.22	
G34	1217.67	906.98	854.23	741.19	1113.13	1114.08	796.91	1290.24	1217.67	
G35	1123.25	811.89	755.21	654.49	1019.17	1017.47	702.28	1180.21	1123.25	
G36	1029.65	719.06	660.33	575.4	926.8	917.46	607.79	1075.39	1029.65	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	932.89	632.39	568.88	497.83	833.76	827.82	516.63	971.62	932.89	
G38	836.35	551.92	479.39	430.81	739.98	737.58	432.62	875.5	836.35	
G39	739.7	482.22	394.99	369.39	652.57	657.99	352.22	780.66	739.7	
G40	648.29	418.0	317.53	314.66	570.65	581.77	277.13	691.94	648.29	
G41	563.25	362.34	249.87	265.77	492.98	511.04	215.5	607.65	563.25	
G42	485.37	310.59	192.59	222.22	424.9	445.36	165.01	530.4	485.37	
G43	414.49	265.09	147.38	182.92	358.91	386.45	127.13	458.46	414.49	
G44	348.82	223.32	113.61	149.47	299.43	332.54	99.8	393.89	348.82	
G45	288.71	186.5	90.03	121.18	243.29	285.03	80.29	335.44	288.71	
G46	232.49	152.34	73.96	97.85	194.93	241.66	67.12	283.36	232.49	
G47	183.56	122.6	63.44	79.44	153.75	202.08	58.38	234.68	183.56	
G48	142.32	97.89	55.79	64.89	120.65	166.43	51.72	192.38	142.32	
G49	109.39	78.24	50.55	53.78	95.55	136.72	47.23	156.3	109.39	
G50	85.96	63.09	46.24	45.85	76.93	110.14	43.76	125.5	85.96	
G51	68.68	52.32	42.73	39.79	63.76	88.86	40.78	100.76	68.68	
G52	57.03	43.9	39.65	34.87	54.17	72.29	37.88	82.06	57.03	
G53	48.86	37.81	36.5	30.84	47.05	59.83	35.37	66.95	48.86	
G54	43.01	32.78	33.77	27.54	41.6	50.41	32.61	55.69	43.01	
G55	38.23	28.92	30.94	24.5	36.92	43.23	30.2	47.23	38.23	
G56	34.38	25.49	28.14	21.6	32.92	37.07	27.58	40.78	34.38	
G57	31.05	22.34	25.81	18.87	29.28	32.5	25.21	35.76	31.05	
G58	27.79	19.68	23.08	16.39	26.2	28.36	22.76	31.65	27.79	
G59	24.78	17.31	21.1	14.02	23.05	24.99	20.53	28.04	24.78	
G60	22.02	14.98	18.83	11.93	20.39	21.56	18.62	24.85	22.02	
G61	19.44	12.96	16.71	9.98	17.77	18.94	16.64	21.88	19.44	
G62	17.13	10.83	14.59	8.11	15.51	16.29	14.48	19.44	17.13	
G63	14.69	9.17	12.28	6.44	13.38	13.98	12.43	16.85	14.69	
G64	12.67	7.4	10.09	4.96	11.36	11.79	10.2	14.69	12.67	
G65	10.59	5.98	8.07	3.72	9.59	9.84	8.11	12.57	10.59	
G66	8.99	4.64	6.48	2.73	8.07	8.0	6.27	10.59	8.99	
G67	7.33	3.5	4.92	1.7	6.66	6.55	4.74	8.74	7.33	
G68	5.84	2.51	3.33	1.1	5.31	5.06	3.22	7.19	5.84	
G69	4.67	1.73	2.16	0.53	4.04	3.89	1.95	5.63	4.67	
G70	3.58	0.96	1.1	0.25	2.69	2.87	0.92	4.39	3.58	
G71	2.34	0.57	0.53	0.0	1.56	2.02	0.32	3.22	2.34	
G72	1.2	0.18	0.42	0.0	0.78	1.38	0.0	2.37	1.2	
G73	0.32	0.04	0.32	0.0	0.46	0.92	0.0	1.59	0.32	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/5/17 16:57:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 5.95 m

Remarks:

