

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
Luminaire Type:L-D535-COB3-30K-25-BK
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 72 mm
Luminous Height: 70 mm

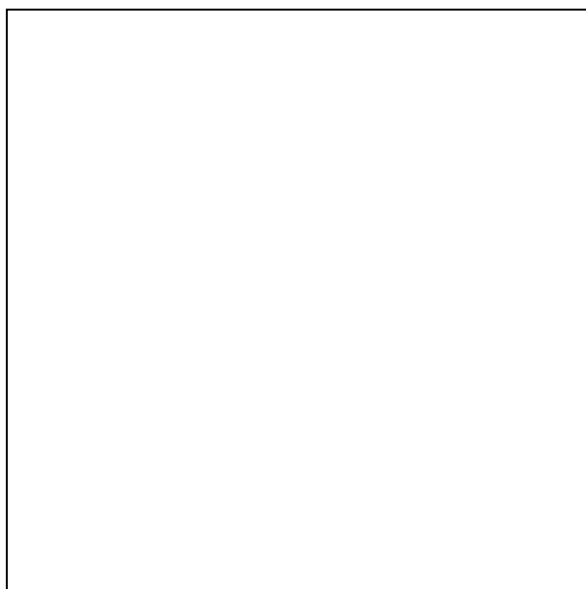
Voltage(V): 221.19 V
Current(A): 0.0821 A
Power(W): 10.48 W
Power Factor: 0.5767
Lamp Luminous Flux: 836.61

Photometric Results

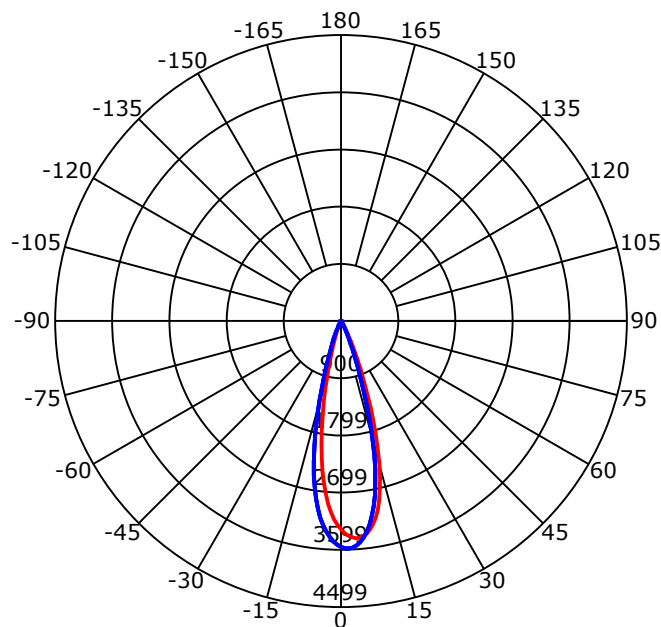
CIE Class: Direct
Luminaire Luminous Flux: 836.6138 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 79.83 lm/W
Beam Angle(50%) C0-180,C90-270: 27.8,28.5
Field Angle(10%) C0-180,C90-270: 44.6,44.7
S/MH C0-180,C90-270: 0.499,0.536

Max. Intensity: 3598.98 cd
Max.Intensity Angle: C=45 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3277.38 cd
Effective Luminous Flux: 765.27 lm
ERP(ϕ use)(120deg): 835.73 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



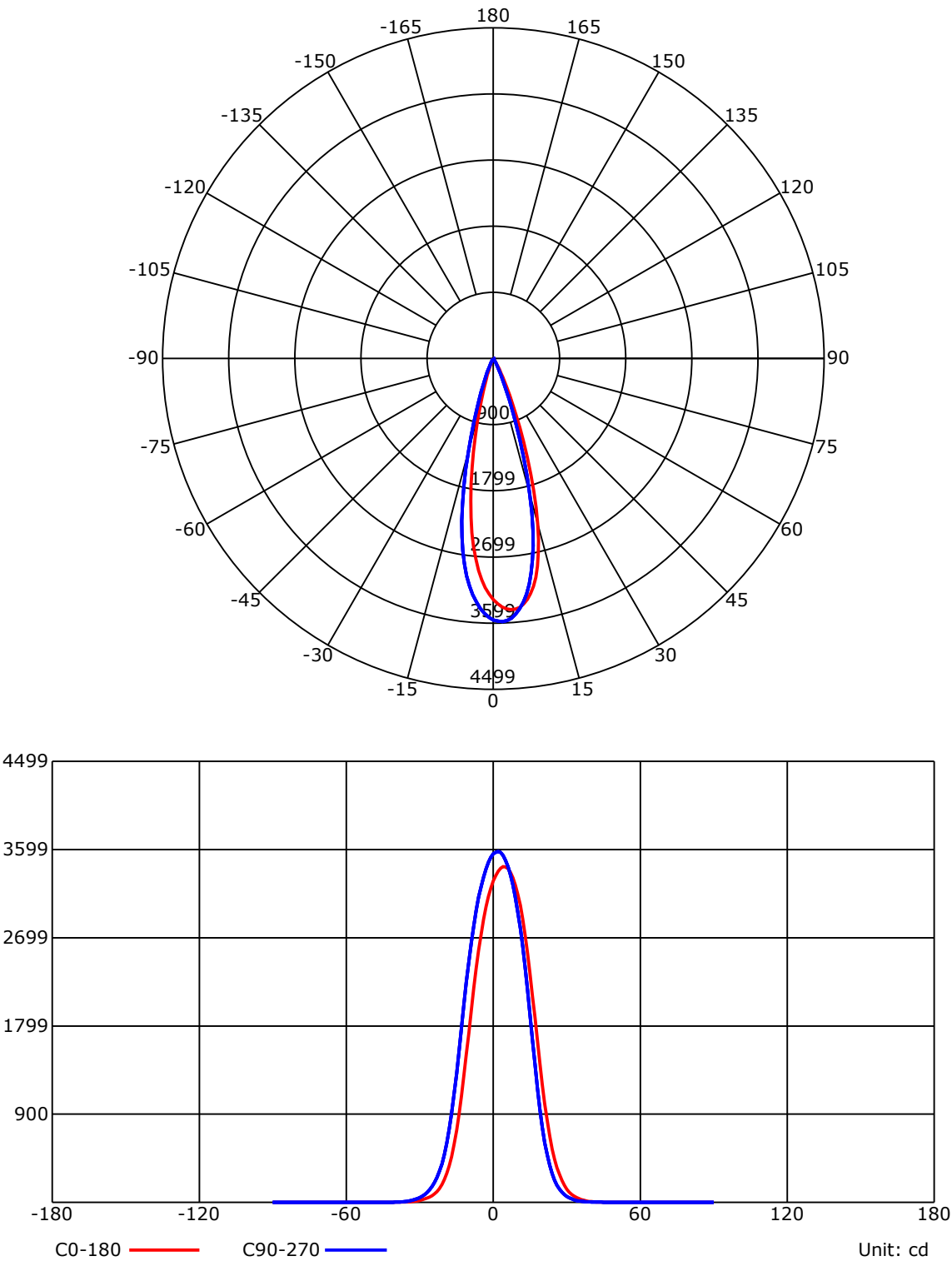
Beam Angle(50%) C0-180,C90-270: 27.8 deg,28.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.91
Operators:
Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity: 1
Test Distance: 7.91 m
Remarks:

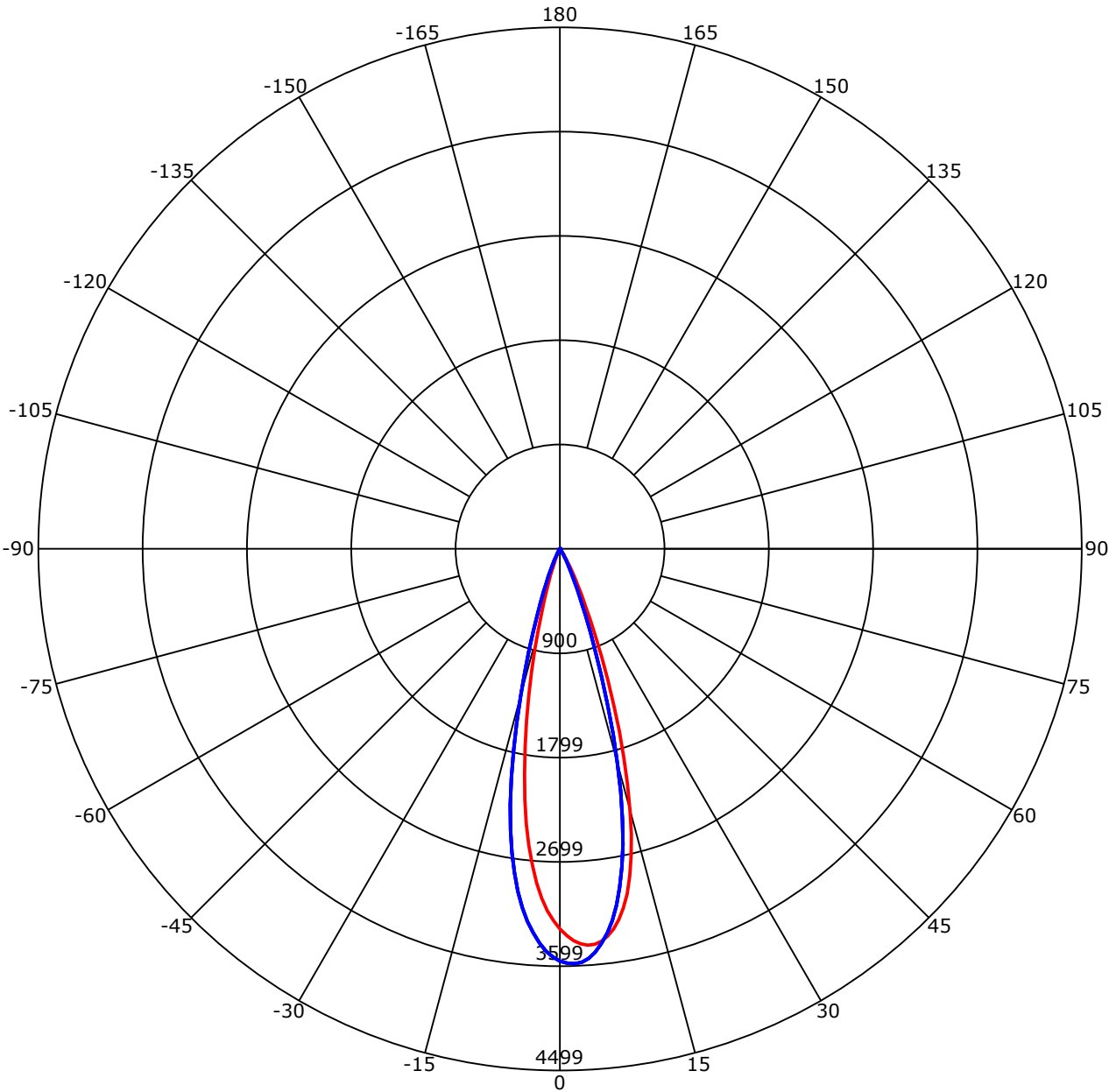
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 7.91
 Operators:
 Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 1
 Test Distance: 7.91 m
 Remarks:

Luminous Intensity Distribution Curve



C0-180 C90-270
 Unit: cd/klm

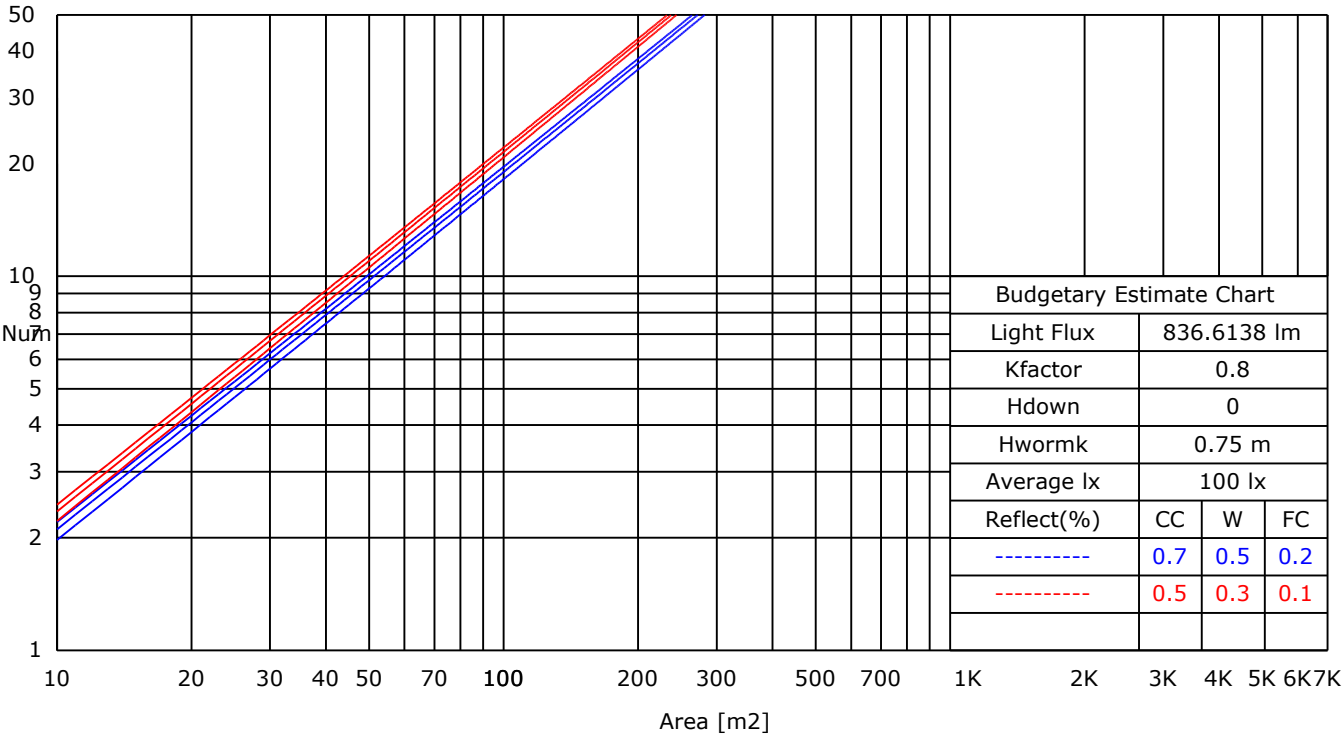
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 7.91
 Operators:
 Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 1
 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	0.85	0.82	0.79	0.85	0.81	0.77	0.83	0.78	0.74	0.79	0.75	0.71	0.75	0.70	0.66	0.61
2	0.82	0.79	0.77	0.82	0.79	0.76	0.80	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.80	0.78	0.76	0.80	0.77	0.75	0.79	0.75	0.71	0.76	0.72	0.68	0.73	0.68	0.64	0.59
4	0.79	0.77	0.75	0.79	0.76	0.74	0.77	0.73	0.70	0.75	0.70	0.67	0.72	0.67	0.63	0.59
5	0.78	0.76	0.74	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.77	0.75	0.74	0.76	0.74	0.72	0.75	0.71	0.69	0.73	0.68	0.65	0.70	0.65	0.62	0.58
7	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.57
8	0.75	0.73	0.72	0.74	0.72	0.71	0.73	0.69	0.67	0.71	0.67	0.64	0.68	0.64	0.60	0.57
9	0.74	0.73	0.72	0.73	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.67	0.63	0.60	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

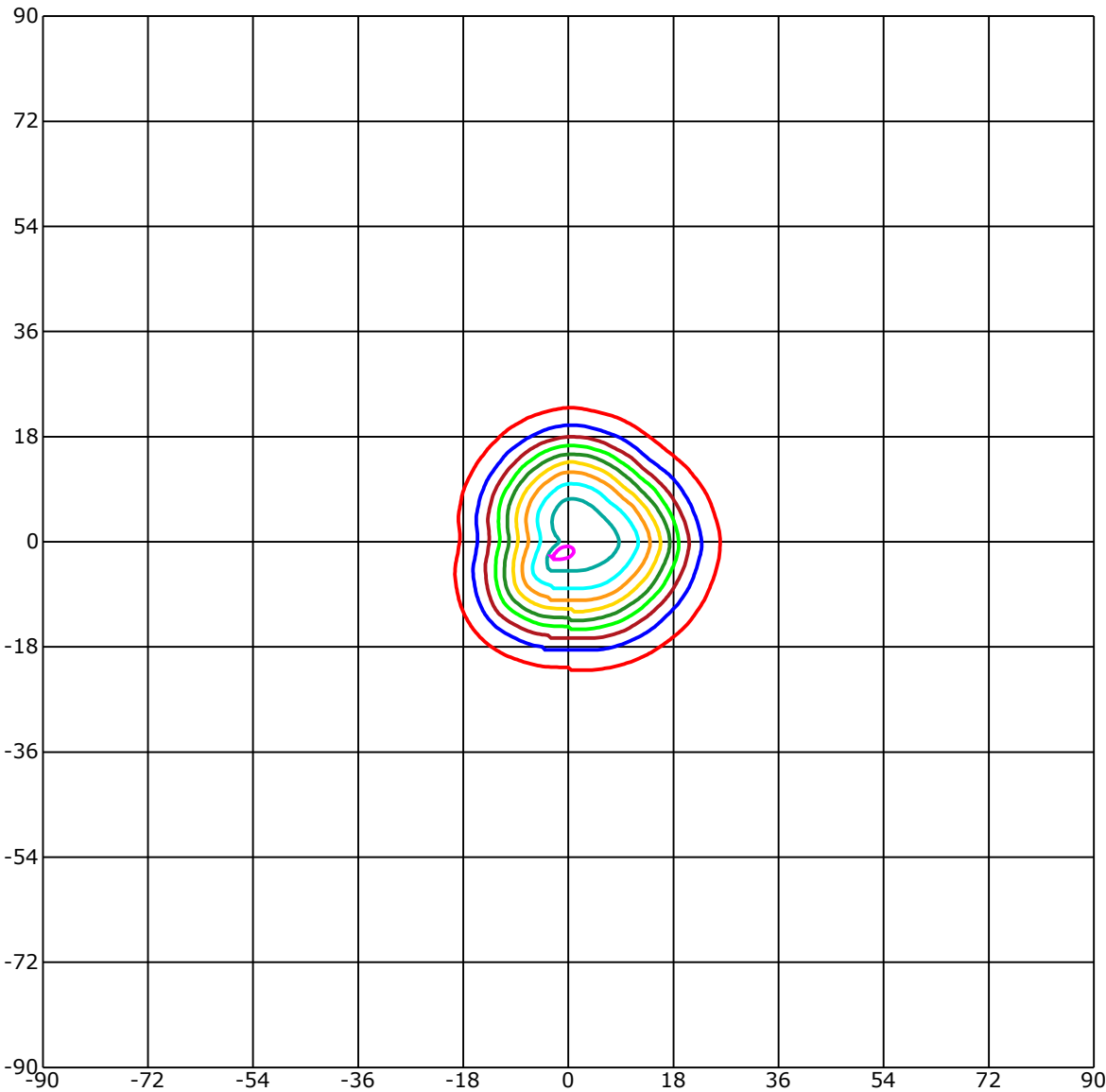
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 7.91
 Operators:
 Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 1
 Test Distance: 7.91 m
 Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



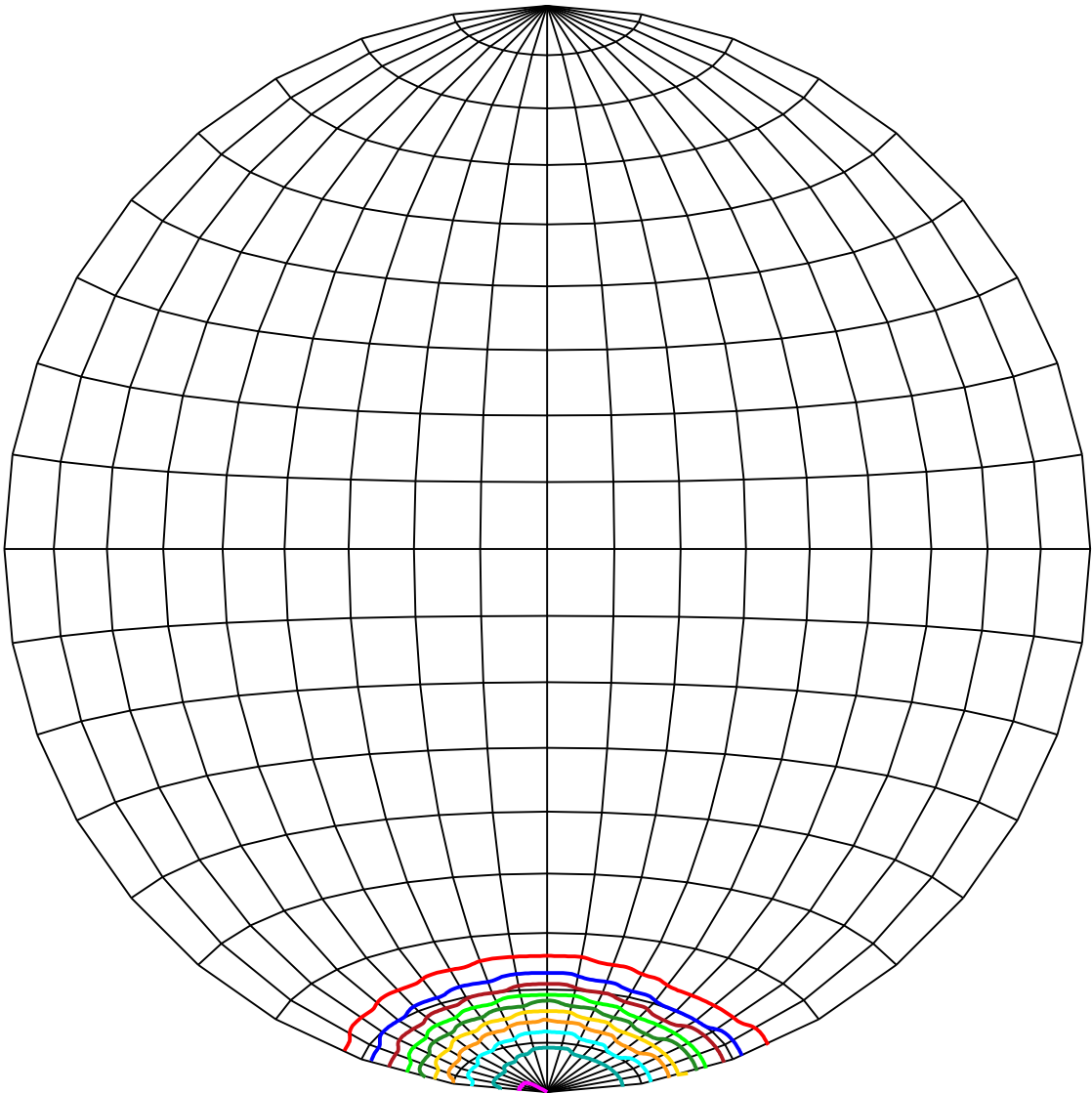
Unit of intensity:cd Imax(100%): 3598.979 cd

- | | |
|-------------------|-------------------|
| 3419.03(95%Imax) | 1799.49(50%Imax) |
| 3239.081(90%Imax) | 1439.592(40%Imax) |
| 2879.183(80%Imax) | 1079.694(30%Imax) |
| 2519.285(70%Imax) | 719.796(20%Imax) |
| 2159.387(60%Imax) | 359.898(10%Imax) |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 7.91
 Operators:
 Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 1
 Test Distance: 7.91 m
 Remarks:

ISOCANDELA DIAGRAM (SPHERE)



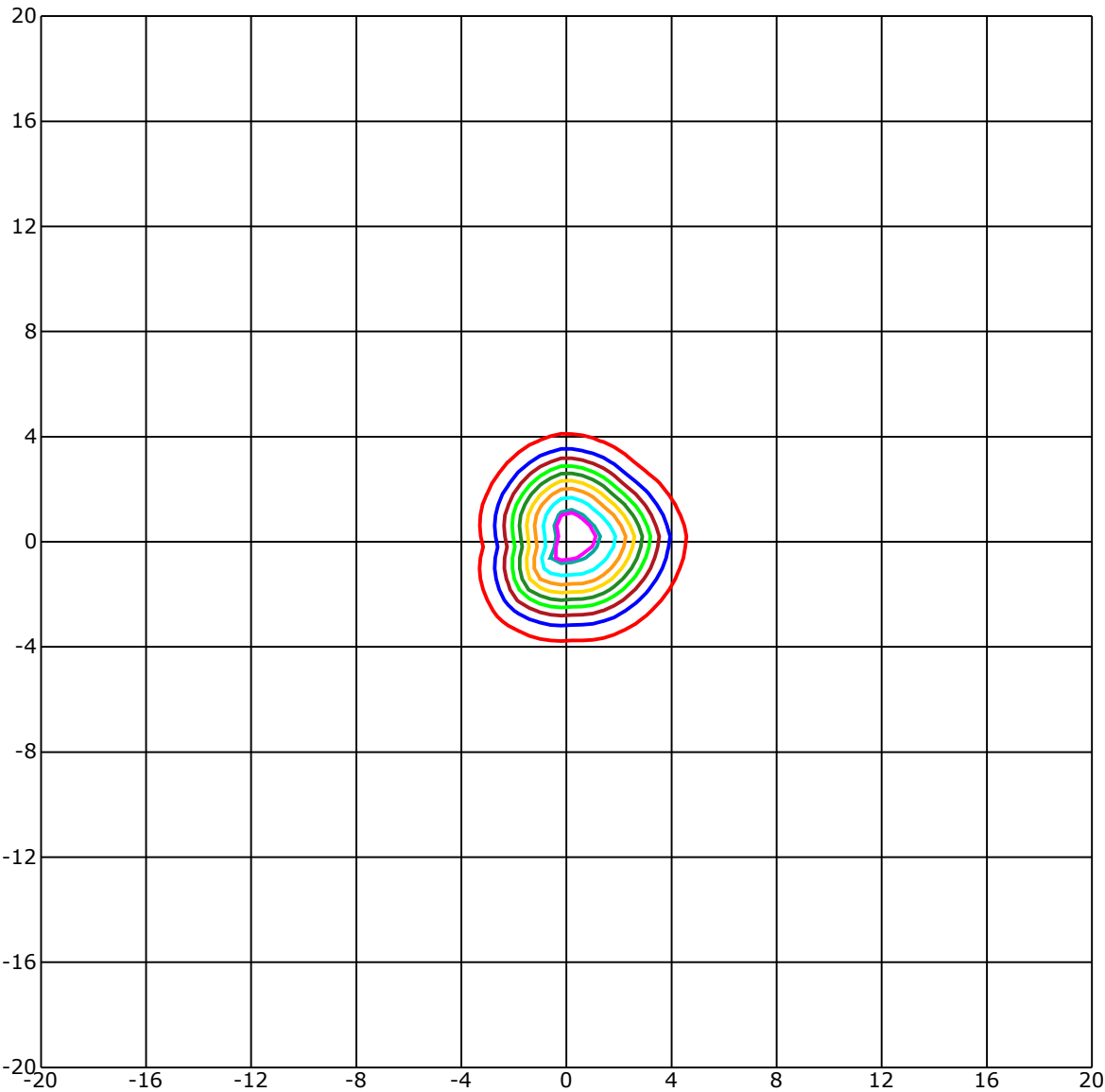
Unit of intensity:cd Imax(100%): 3598.979 cd

3419.03(95%Imax)	1799.49(50%Imax)
3239.081(90%Imax)	1439.592(40%Imax)
2879.183(80%Imax)	1079.694(30%Imax)
2519.285(70%Imax)	719.796(20%Imax)
2159.387(60%Imax)	359.898(10%Imax)

C Range: 0 - 360 Deg
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 Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 1
 Test Distance: 7.91 m
 Remarks:

ISOLX DIAGRAM



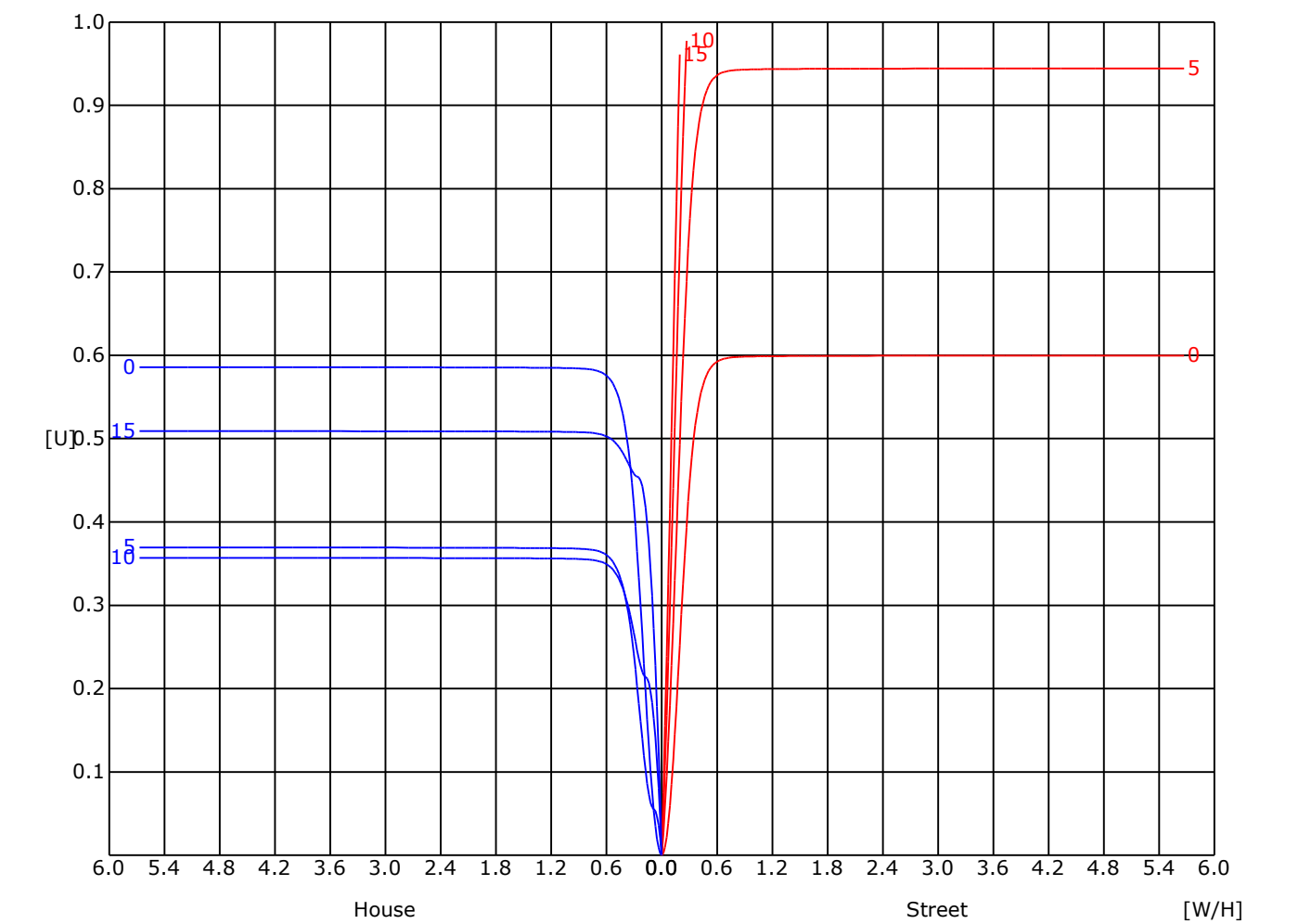
Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

- 33.095(92%Emax)
 17.987(50%Emax)
- 32.376(90%Emax)
 14.389(40%Emax)
- 28.779(80%Emax)
 10.792(30%Emax)
- 25.181(70%Emax)
 7.195(20%Emax)
- 21.584(60%Emax)
 3.597(10%Emax)

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
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 Operators:
 Test Date: 2025/11/13 10:32:14

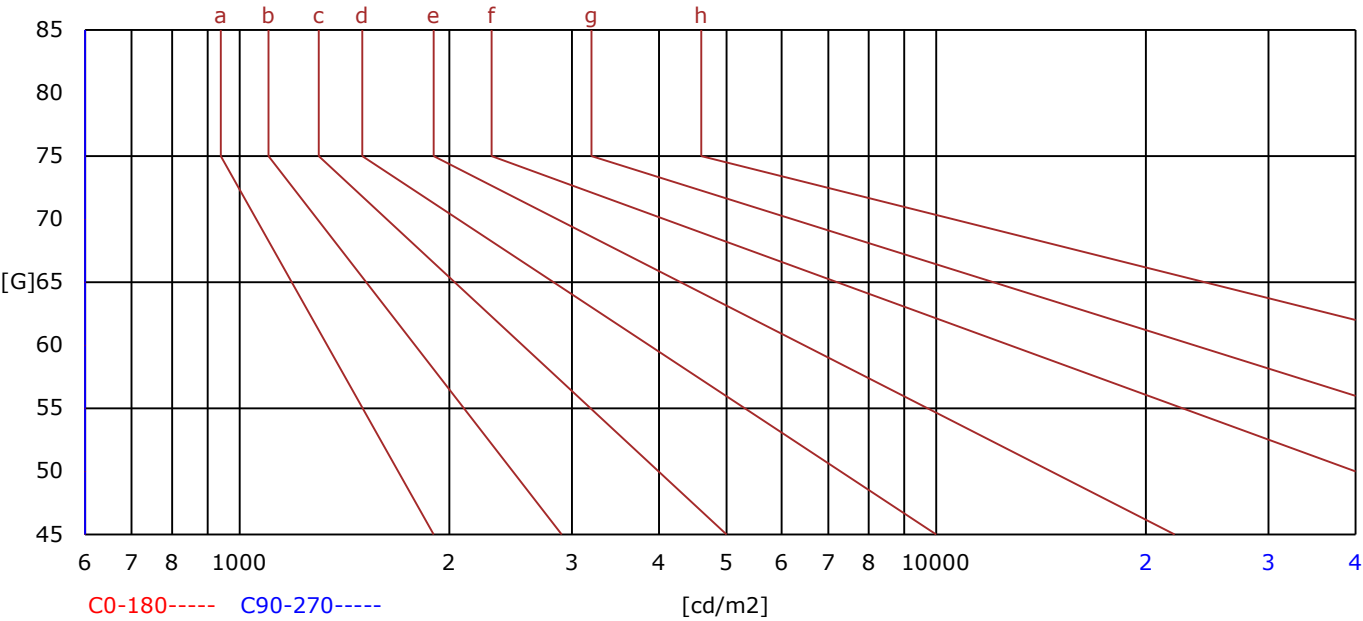
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 1
 Test Distance: 7.91 m
 Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

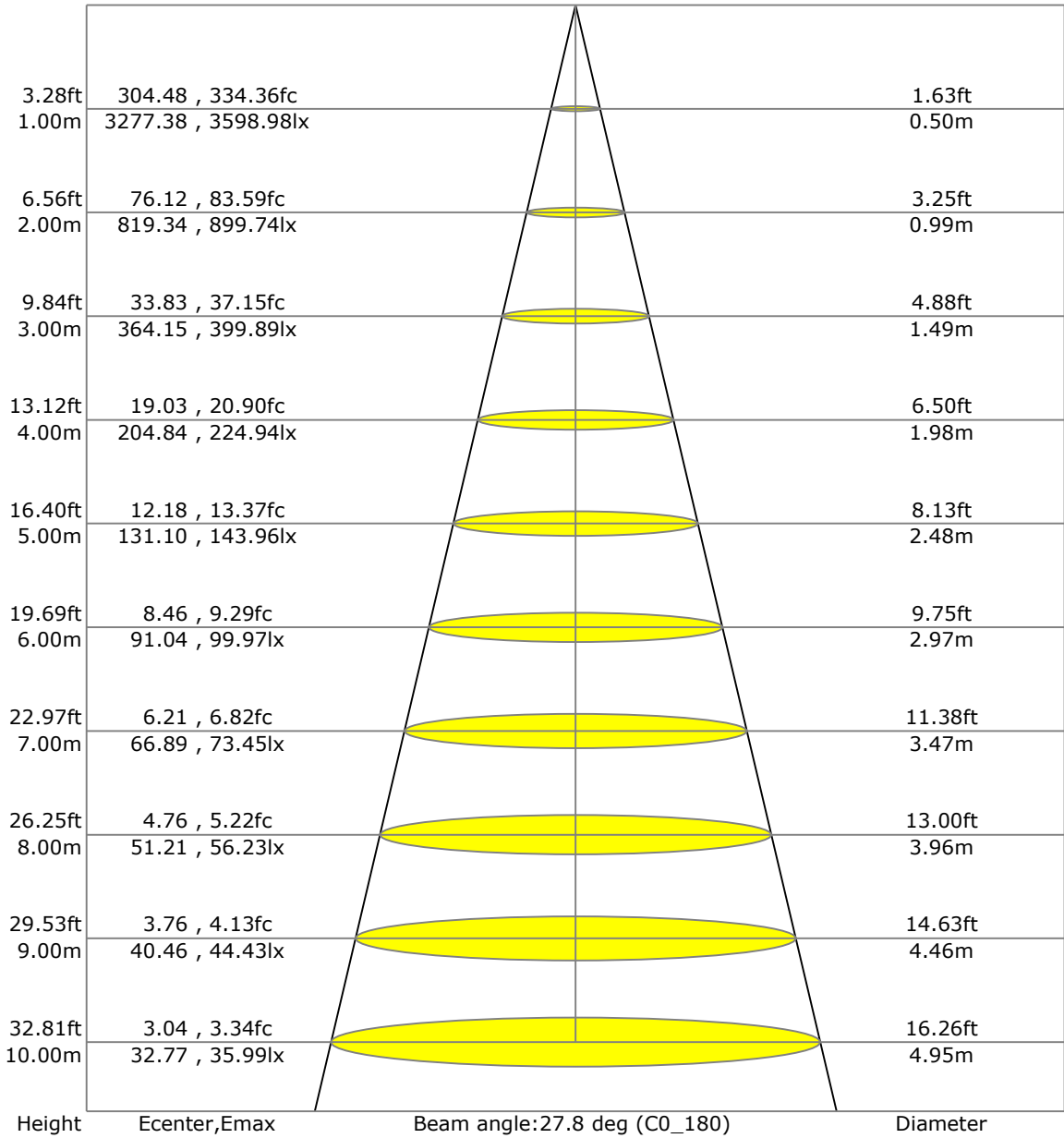


BRIGHT LIMIT DIAGRAM

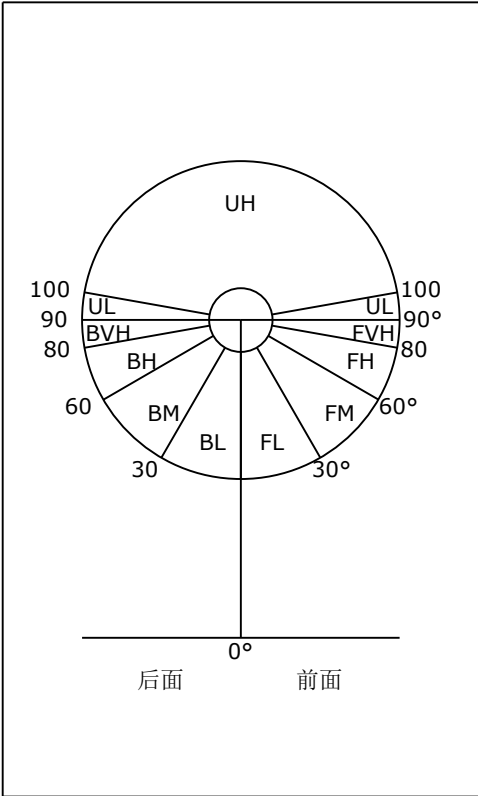
C/G	45	50	55	60	65	70	75	80	85
C0	119	19	63	0	0	35	47	139	277
C90	119	19	53	24	0	35	47	0	277
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



LX-DISTANCE DIAGRAM



BUG等级评价表



区域	光通量(lm)	光通量(%)
前面	420.8	50.3
FL (0°-30°)	414.5	49.5
FM (30°-60°)	5.9	0.7
FH (60°-80°)	0.2	0.0
FVH (80°-90°)	0.1	0.0
后面	415.8	49.7
BL (0°-30°)	407.0	48.6
BM (30°-60°)	8.3	1.0
BH (60°-80°)	0.4	0.0
BVH (80°-90°)	0.1	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	1.20	1.25	1.40	1.44	1.68	1.20	1.25	1.40	1.44	1.68
3H	1.18	1.23	1.38	1.43	1.67	1.18	1.23	1.38	1.43	1.67
4H	1.16	1.22	1.38	1.42	1.67	1.16	1.22	1.38	1.42	1.67
6H	1.15	1.21	1.37	1.41	1.66	1.15	1.21	1.37	1.41	1.66
8H	1.14	1.21	1.36	1.41	1.66	1.14	1.21	1.36	1.41	1.66
12H	1.14	1.20	1.36	1.40	1.66	1.14	1.20	1.36	1.40	1.66
4H 2H	1.16	1.22	1.38	1.42	1.67	1.16	1.22	1.38	1.42	1.67
3H	1.14	1.20	1.36	1.40	1.66	1.14	1.20	1.36	1.40	1.66
4H	1.12	1.18	1.35	1.39	1.65	1.12	1.18	1.35	1.39	1.65
6H	1.10	1.16	1.34	1.38	1.65	1.10	1.16	1.34	1.38	1.65
8H	1.09	1.15	1.33	1.38	1.65	1.09	1.15	1.33	1.38	1.65
12H	1.08	1.14	1.33	1.37	1.64	1.08	1.14	1.33	1.37	1.64
8H 4H	1.14	1.21	1.36	1.41	1.66	1.14	1.21	1.36	1.41	1.66
6H	1.06	1.12	1.32	1.36	1.64	1.06	1.12	1.32	1.36	1.64
8H	1.05	1.11	1.31	1.36	1.63	1.05	1.11	1.31	1.36	1.63
12H	1.03	1.09	1.31	1.35	1.63	1.03	1.09	1.31	1.35	1.63
12H 4H	1.08	1.14	1.33	1.37	1.64	1.08	1.14	1.33	1.37	1.64
6H	1.05	1.11	1.31	1.36	1.63	1.05	1.11	1.31	1.36	1.63

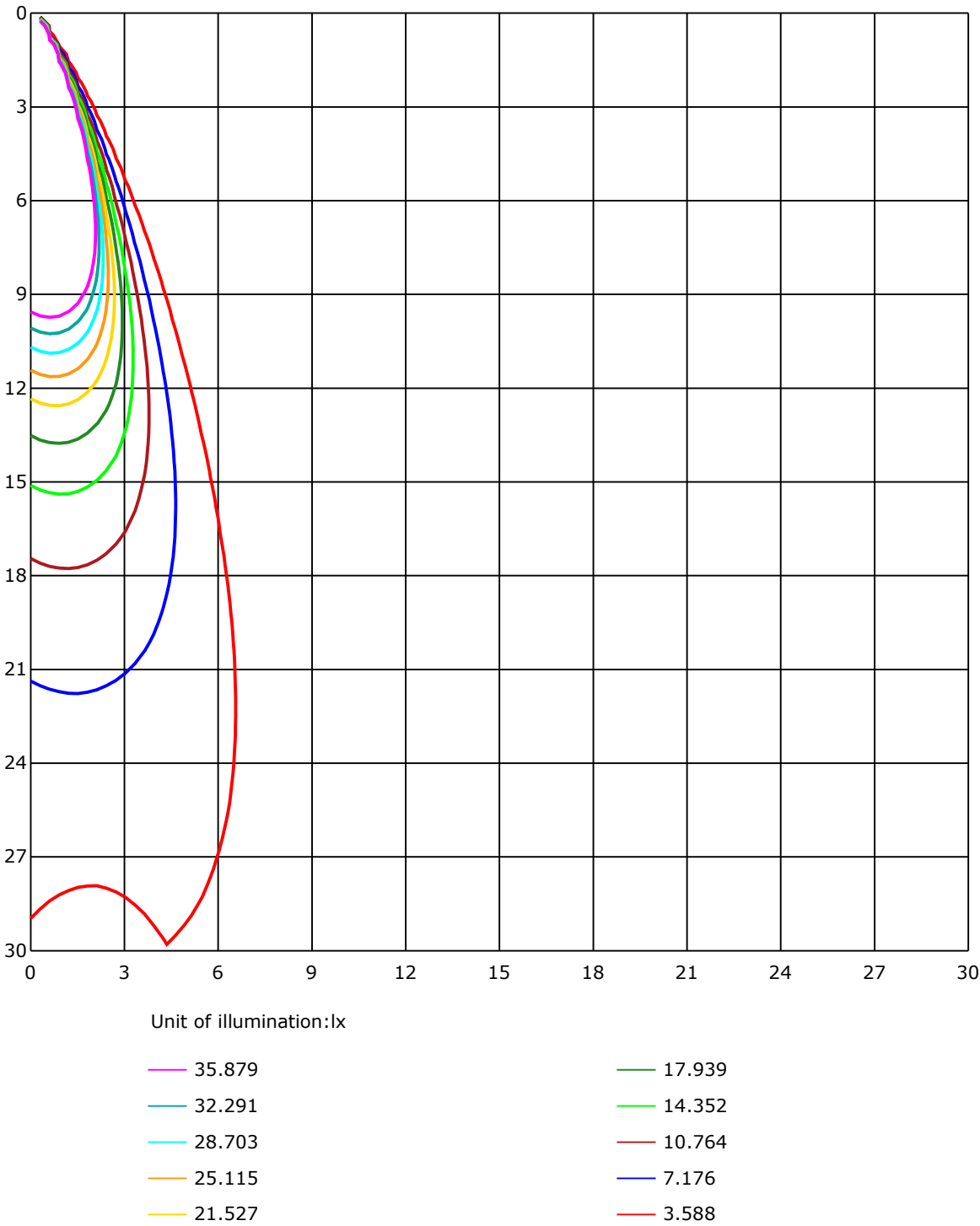
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.91
Operators:
Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity: 1
Test Distance: 7.91 m
Remarks:

SPACE ISOLX DIAGRAM



Report No.:

Test Time: 2025/11/13 10:32:14

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3277.38	3597.23	3555.12	3419.53	3277.38	3597.23	3555.12	3419.53	3277.38	
G1	3336.13	3598.98	3572.83	3396.38	3205.55	3575.14	3520.02	3424.35	3336.13	
G2	3379.8	3588.47	3580.21	3359.28	3120.83	3532.85	3469.28	3417.85	3379.8	
G3	3409.59	3562.38	3568.7	3304.35	3014.97	3473.91	3401.95	3397.26	3409.59	
G4	3425.17	3516.08	3539.04	3233.52	2888.46	3398.89	3317.99	3360.72	3425.17	
G5	3422.6	3451.57	3490.55	3142.3	2735.73	3311.79	3223.38	3308.29	3422.6	
G6	3403.27	3367.1	3422.73	3029.05	2568.48	3201.74	3111.14	3244.03	3403.27	
G7	3365.54	3260.8	3338.7	2893.4	2386.97	3078.6	2976.55	3160.88	3365.54	
G8	3311.35	3144.92	3236.9	2746.36	2184.38	2946.9	2819.01	3056.95	3311.35	
G9	3236.46	3010.15	3109.64	2578.56	1961.26	2797.61	2651.39	2941.7	3236.46	
G10	3146.11	2851.85	2963.35	2376.96	1733.45	2612.53	2461.05	2796.17	3146.11	
G11	3031.74	2665.34	2794.48	2150.03	1511.08	2410.25	2247.76	2630.68	3031.74	
G12	2886.83	2469.0	2606.46	1930.6	1294.6	2201.9	2018.7	2443.16	2886.83	
G13	2720.96	2250.76	2391.35	1704.11	1086.56	1977.84	1782.38	2244.57	2720.96	
G14	2538.83	2009.06	2160.23	1466.53	899.73	1727.57	1545.12	2015.07	2538.83	
G15	2333.85	1752.35	1913.33	1224.21	735.11	1489.37	1314.87	1780.38	2333.85	
G16	2109.61	1512.15	1661.43	1018.3	587.2	1272.51	1102.07	1556.82	2109.61	
G17	1881.55	1274.64	1404.84	834.41	465.82	1075.92	912.06	1342.52	1881.55	
G18	1652.36	1043.64	1162.33	666.04	372.03	883.09	749.07	1122.6	1652.36	
G19	1422.99	834.22	950.72	525.57	296.26	715.65	607.72	931.45	1422.99	
G20	1202.06	665.66	766.52	421.83	234.88	581.95	489.66	772.28	1202.06	
G21	1006.28	525.63	609.79	334.11	181.82	466.57	392.87	635.19	1006.28	
G22	830.53	410.13	482.96	260.72	139.84	367.15	314.97	510.56	830.53	
G23	676.99	316.16	379.48	198.28	109.43	292.63	254.65	412.2	676.99	
G24	545.53	249.27	293.94	154.23	86.47	235.32	204.85	334.61	545.53	
G25	441.11	192.96	226.0	119.0	68.76	189.89	165.12	272.92	441.11	
G26	355.64	146.91	173.81	91.47	54.68	149.1	130.45	217.55	355.64	
G27	284.18	110.56	134.52	70.08	43.99	116.63	102.24	172.88	284.18	
G28	224.18	85.09	103.93	54.56	34.98	92.98	80.34	137.4	224.18	
G29	174.75	64.76	79.59	42.17	27.09	73.96	62.76	109.12	174.75	
G30	134.77	48.62	60.69	31.6	20.08	57.94	48.62	85.34	134.77	
G31	104.68	36.29	46.61	22.34	14.45	45.74	37.85	66.89	104.68	
G32	80.9	26.9	35.35	15.27	11.07	36.66	29.41	52.24	80.9	
G33	63.13	19.08	25.78	10.51	8.82	29.16	22.77	41.55	63.13	
G34	49.37	12.64	18.02	7.76	6.88	21.96	16.71	32.03	49.37	
G35	37.92	8.45	13.33	5.63	5.19	15.7	11.51	24.34	37.92	
G36	28.84	6.51	10.51	3.94	3.94	11.32	7.76	18.14	28.84	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.91

Operators:

Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2025/11/13 10:32:14

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	21.27	4.94	8.26	2.32	3.32	9.07	5.94	13.01	21.27	
G38	14.7	3.25	6.38	1.38	2.88	7.26	4.44	9.13	14.7	
G39	10.01	2.25	4.88	0.94	2.5	5.82	3.57	7.45	10.01	
G40	7.57	1.5	3.88	0.88	2.19	4.57	2.32	6.26	7.57	
G41	6.01	1.06	3.32	0.94	1.94	3.75	1.94	5.19	6.01	
G42	4.63	0.81	2.69	0.5	1.69	3.19	1.56	4.19	4.63	
G43	3.38	0.63	2.44	0.44	1.81	2.75	1.31	3.5	3.38	
G44	2.57	0.5	2.19	0.44	1.56	2.63	1.13	2.94	2.57	
G45	1.94	0.44	1.81	0.44	1.38	2.19	0.94	2.75	1.94	
G46	1.19	0.41	1.69	0.31	1.25	1.88	0.75	2.63	1.19	
G47	1.06	0.38	1.63	0.25	1.19	1.75	0.69	2.13	1.06	
G48	0.88	0.31	1.5	0.19	1.13	1.63	0.5	1.88	0.88	
G49	0.69	0.25	1.38	0.06	1.06	1.5	0.38	1.75	0.69	
G50	0.56	0.06	1.25	0.06	0.94	1.38	0.25	1.63	0.56	
G51	0.5	0.06	1.13	0.06	0.88	1.19	0.19	1.5	0.5	
G52	0.44	0.06	1.06	0.13	0.81	1.13	0.19	1.38	0.44	
G53	0.38	0.31	1.0	0.13	0.75	1.06	0.19	1.31	0.38	
G54	0.38	0.31	1.0	0.13	0.81	0.94	0.19	1.19	0.38	
G55	0.25	0.19	1.0	0.16	0.75	0.94	0.19	1.13	0.25	
G56	0.19	0.13	0.94	0.08	0.75	0.94	0.13	1.0	0.19	
G57	0.19	0.06	0.88	0.0	0.75	0.94	0.09	0.94	0.19	
G58	0.19	0.06	0.81	0.0	0.69	0.88	0.06	0.88	0.19	
G59	0.19	0.06	0.69	0.0	0.56	0.81	0.0	0.81	0.19	
G60	0.19	0.0	0.69	0.06	0.56	0.75	0.0	0.81	0.19	
G61	0.19	0.0	0.69	0.06	0.56	0.69	0.06	0.81	0.19	
G62	0.19	0.0	0.69	0.06	0.53	0.63	0.13	0.81	0.19	
G63	0.17	0.0	0.69	0.0	0.5	0.63	0.13	0.81	0.17	
G64	0.16	0.0	0.69	0.0	0.5	0.63	0.09	0.75	0.16	
G65	0.14	0.0	0.69	0.0	0.5	0.69	0.06	0.63	0.14	
G66	0.13	0.0	0.56	0.0	0.53	0.69	0.06	0.63	0.13	
G67	0.06	0.06	0.69	0.0	0.56	0.63	0.06	0.56	0.06	
G68	0.0	0.06	0.81	0.06	0.53	0.63	0.06	0.56	0.0	
G69	0.0	0.06	0.5	0.06	0.5	0.56	0.06	0.56	0.0	
G70	0.19	0.06	0.5	0.06	0.44	0.5	0.13	0.56	0.19	
G71	0.19	0.0	0.5	0.0	0.38	0.44	0.13	0.56	0.19	
G72	0.13	0.0	0.56	0.0	0.63	0.44	0.06	0.56	0.13	
G73	0.13	0.0	0.56	0.0	0.63	0.5	0.06	0.56	0.13	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.91

Operators:

Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1

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: 7.91

Operators:

Test Date: 2025/11/13 10:32:14

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 1

Test Distance: 7.91 m

Remarks: