

Report No.:

Test Time: 2025/7/17 10:32:21

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H90-24°-15W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

Voltage(V): 219.80 V
Current(A): 0.0720 A
Power(W): 15.26 W
Power Factor: 0.9530
Lamp Luminous Flux: 1107.53

Photometric Results

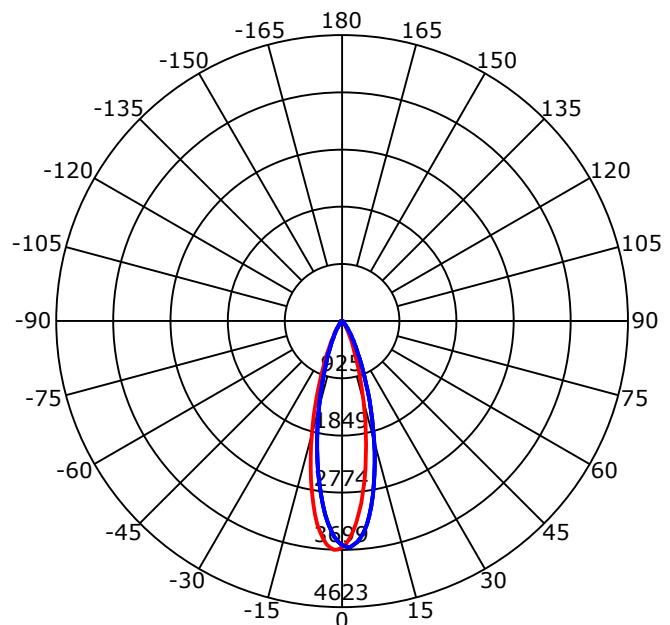
CIE Class: Direct
Luminaire Luminous Flux: 1107.531 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 72.59 lm/W
Beam Angle(50%) C0-180,C90-270: 27.2,28.7
Field Angle(10%) C0-180,C90-270: 52.7,56.0
S/MH C0-180,C90-270: 0.462,0.499

Max. Intensity: 3698.73 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3656.96 cd
Effective Luminous Flux: 936.09 lm
ERP(ϕ use)(120deg): 1099.98 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 27.2 deg,28.7 deg

C0-180 — C90-270 —

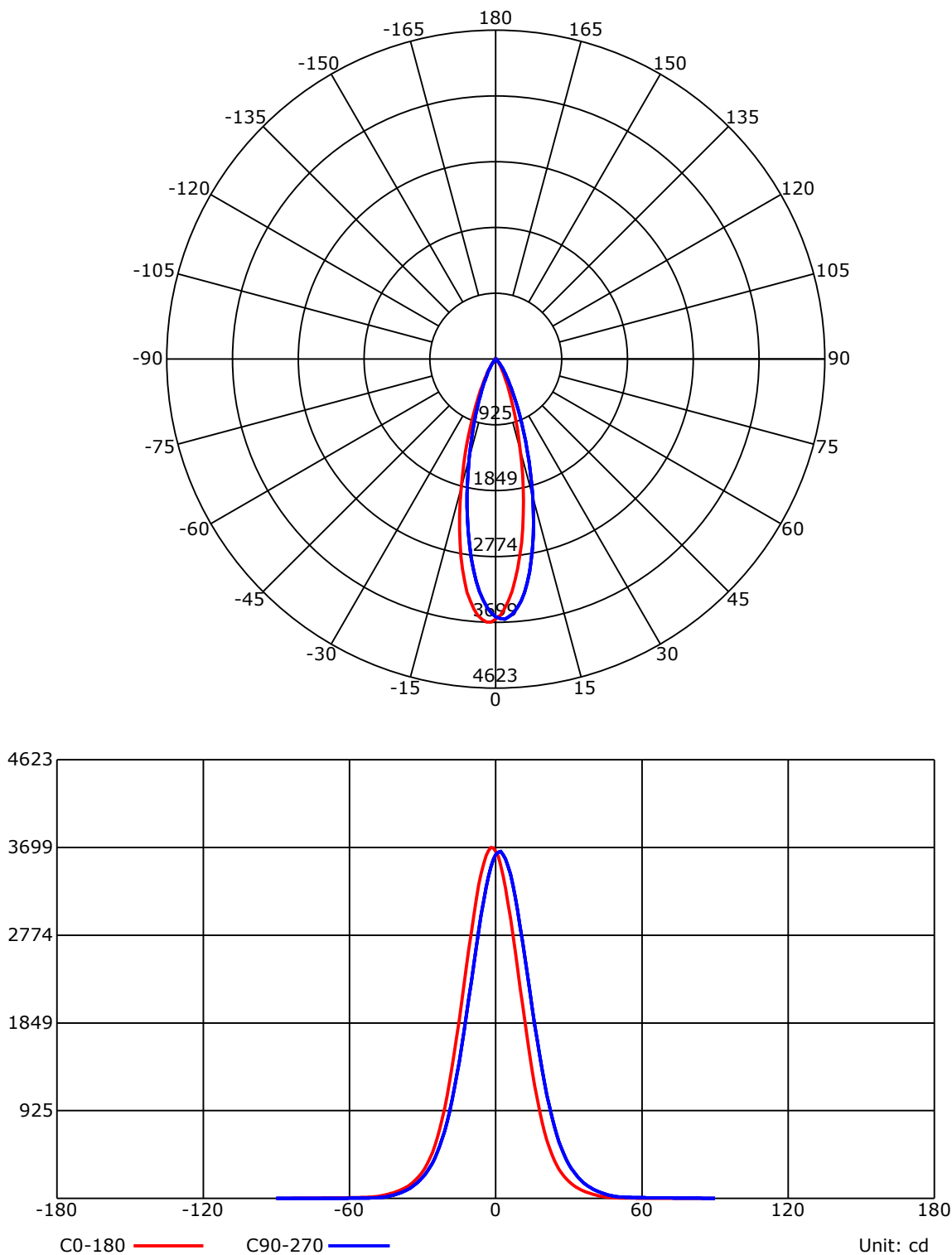
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 10:32:21

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



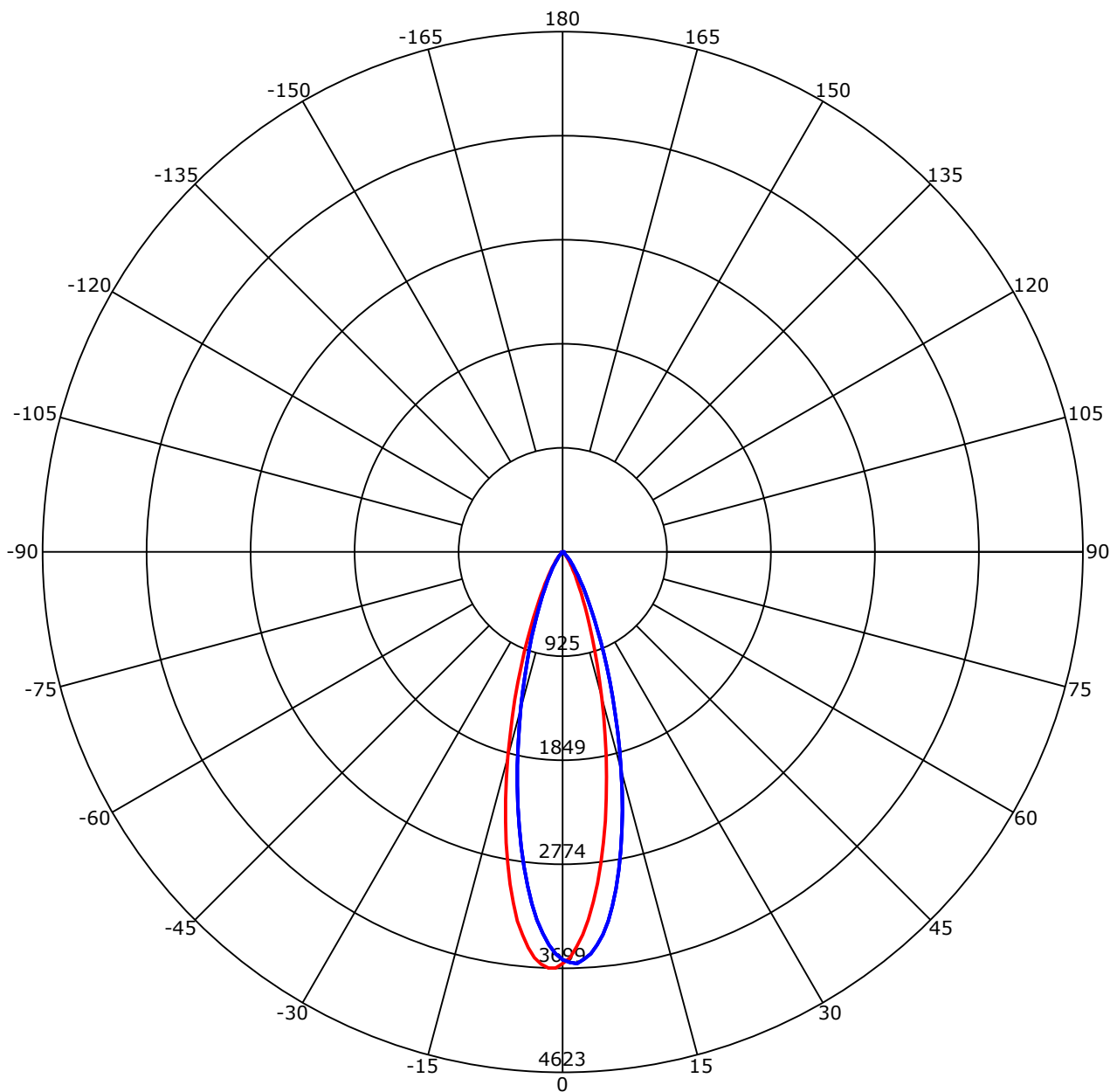
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Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 25
Operators: QC01
Test Date: 2025/7/17 10:32:21

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

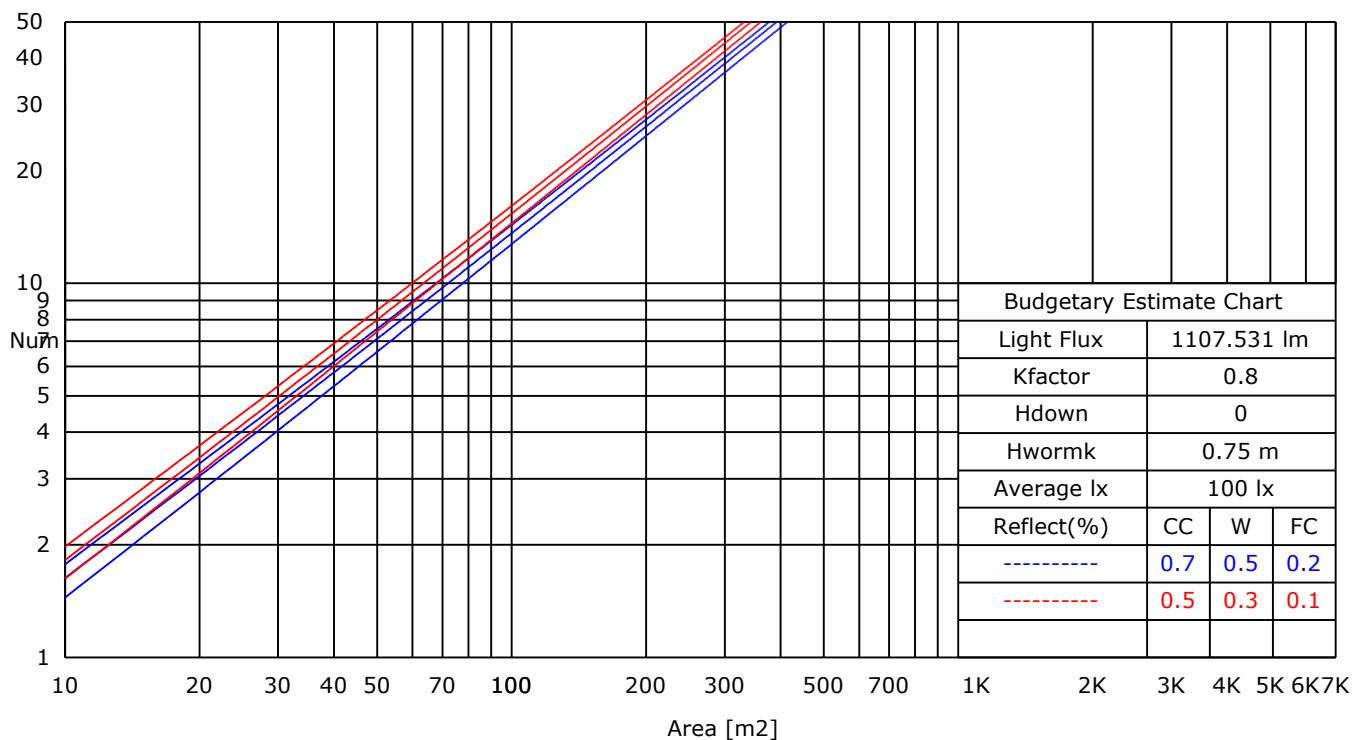
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UTILIZATION FACTORS TABLE

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	0.94	0.91	0.89	0.93	0.90	0.88	0.91	0.87	0.84	0.87	0.83	0.80	0.81	0.78	0.74	0.69
2	0.89	0.87	0.85	0.89	0.86	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.71	0.66
3	0.86	0.84	0.82	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.64
4	0.83	0.81	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
5	0.81	0.79	0.78	0.81	0.78	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	0.79	0.78	0.77	0.79	0.76	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.67	0.64	0.60
7	0.78	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.59
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.68	0.71	0.68	0.65	0.69	0.65	0.61	0.58
9	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.72	0.71	0.72	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.63	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



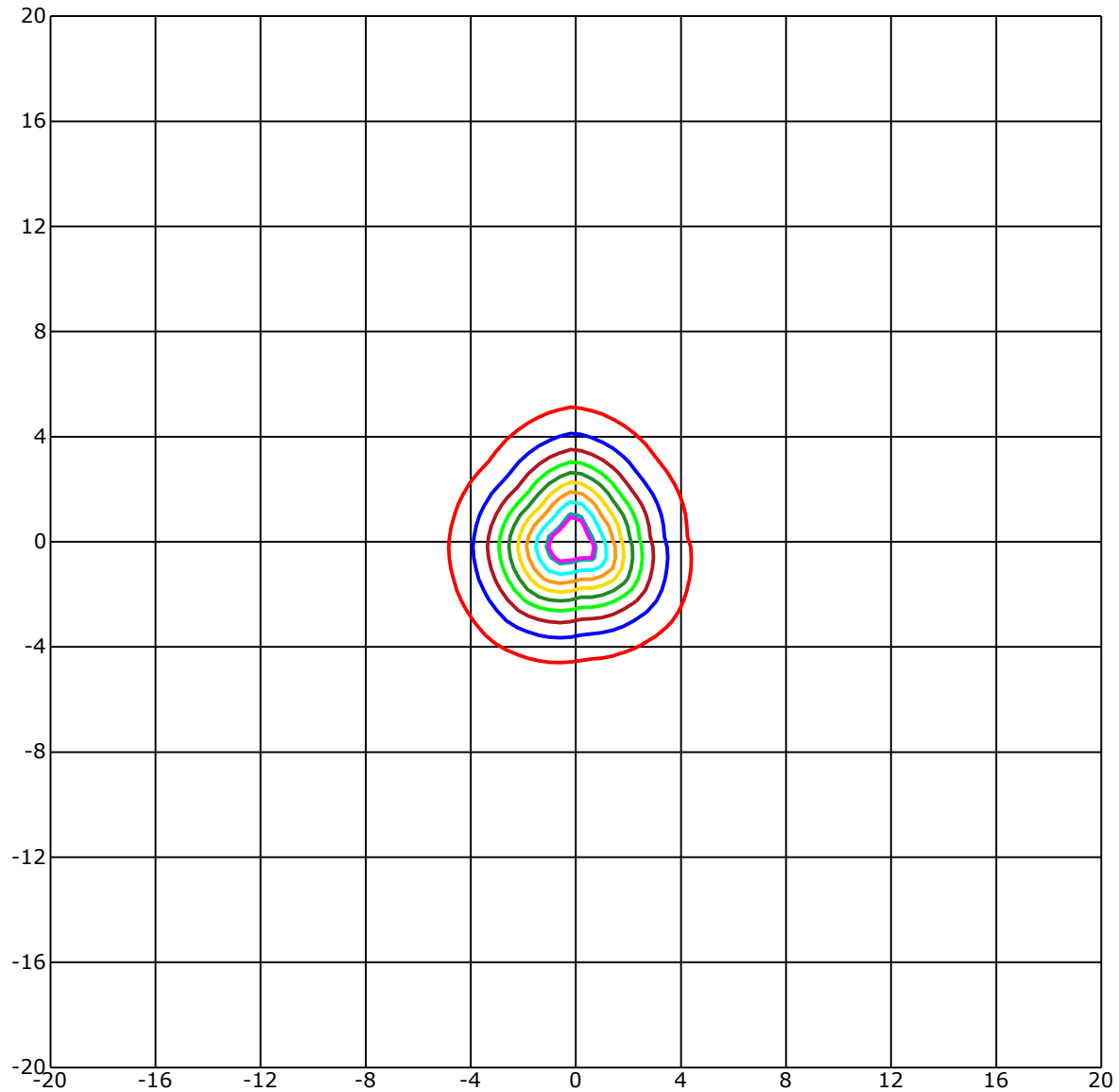
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

33.984(92%Emax)	18.47(50%Emax)
33.245(90%Emax)	14.776(40%Emax)
29.551(80%Emax)	11.082(30%Emax)
25.857(70%Emax)	7.388(20%Emax)
22.164(60%Emax)	3.694(10%Emax)

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Temperature: 25
Operators: QC01
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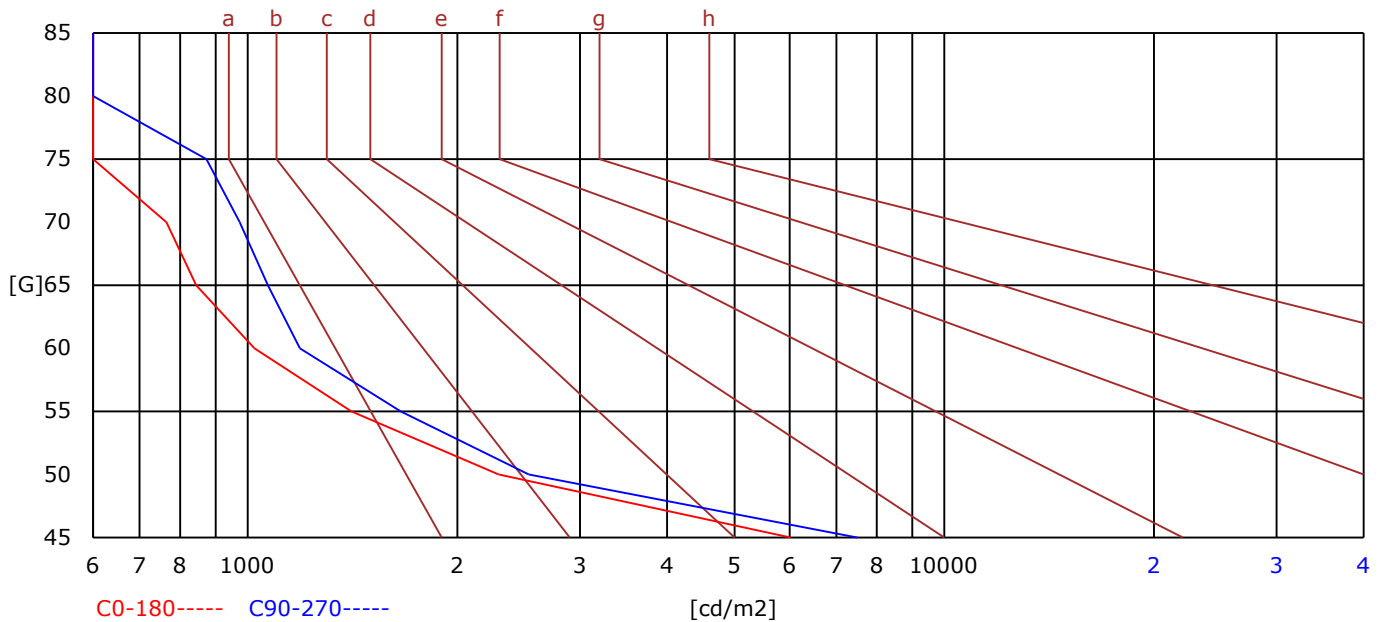
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6020	2294	1410	1023	844	765	505	0	0
C90	7500	2534	1659	1189	1069	974	873	274	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



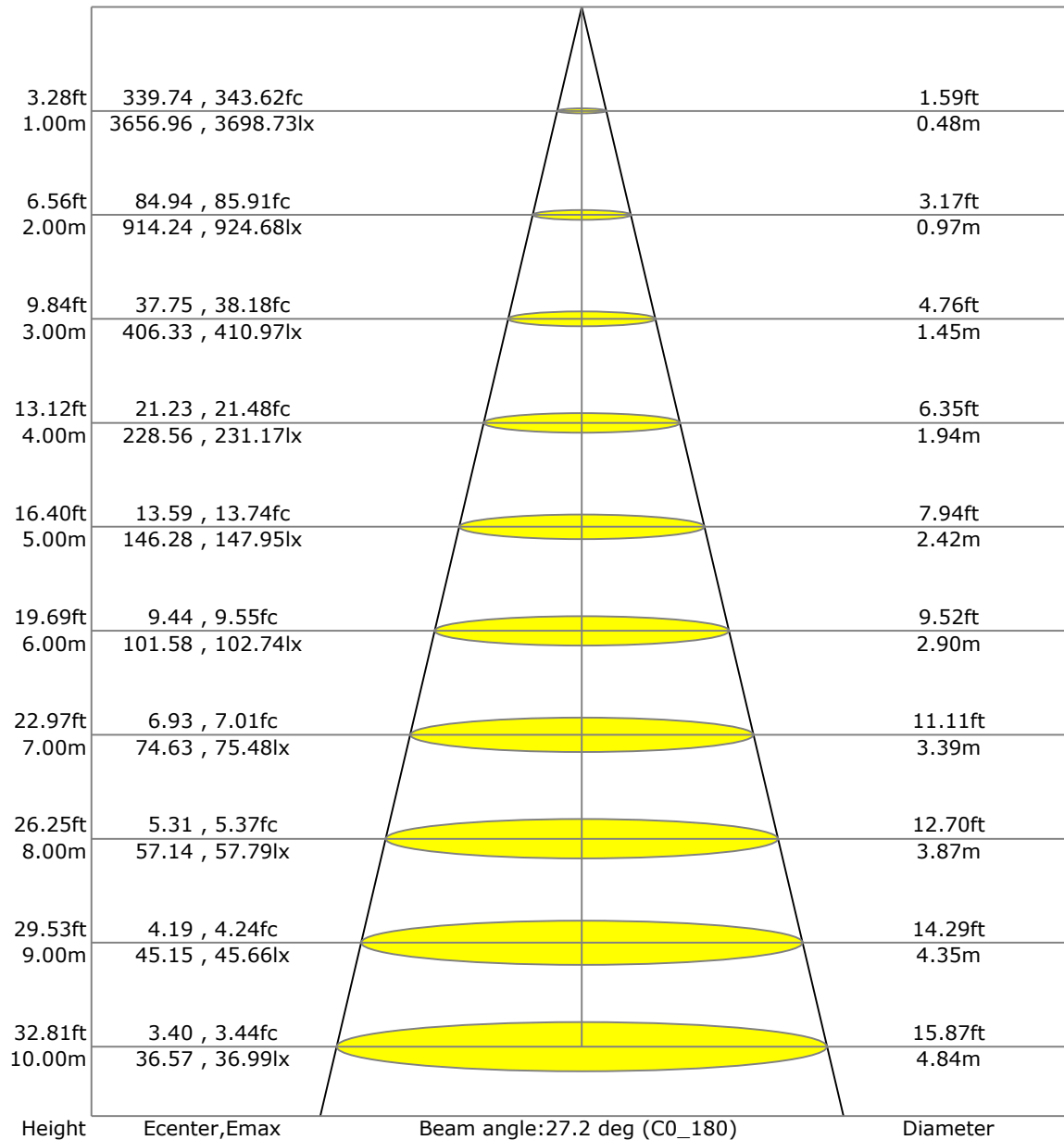
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Test Distance: 6.87 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 10:32:21

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

UGR(Unified Glare Rating) TABLE

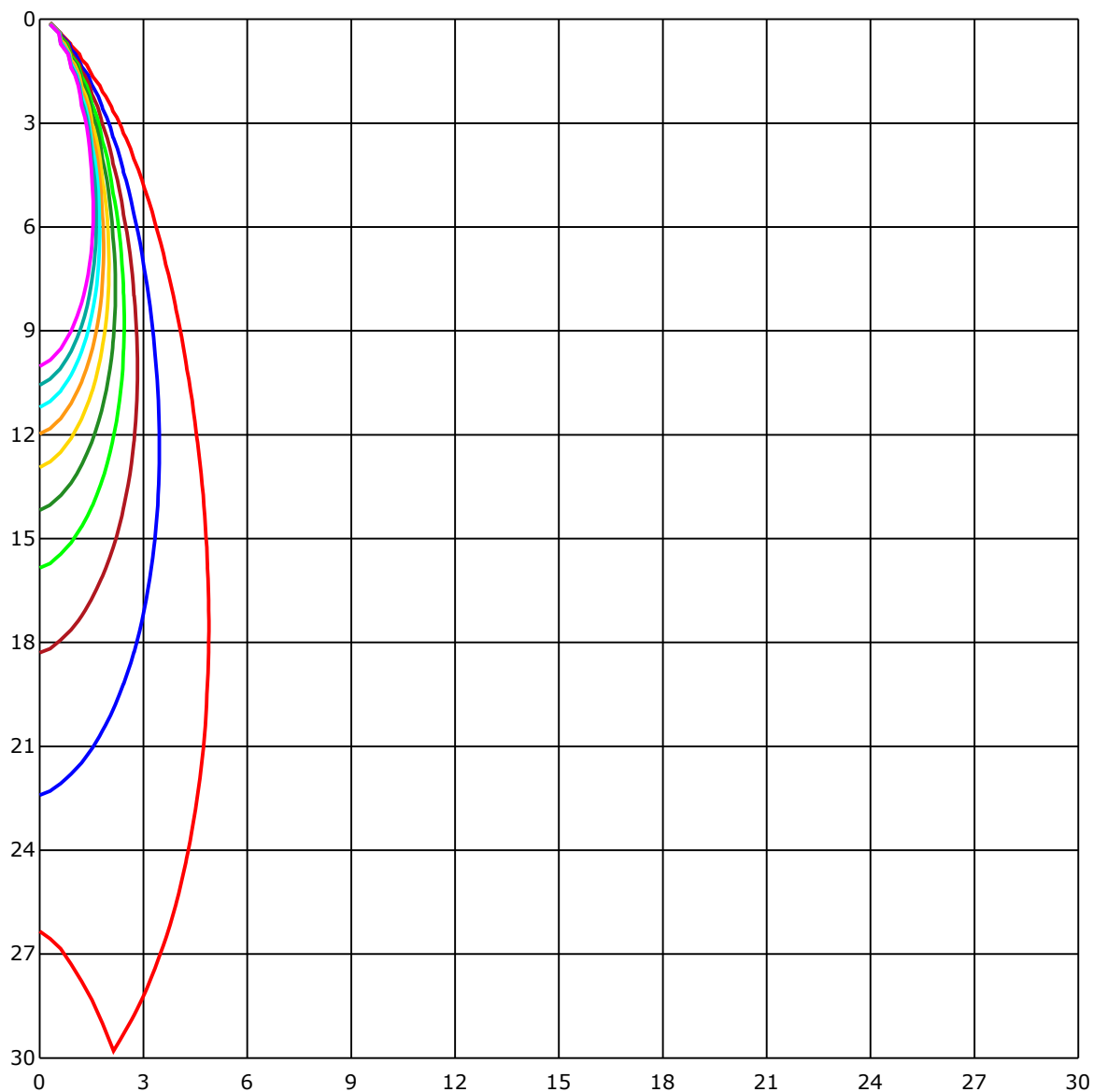
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	7.66	7.72	7.86	7.90	8.15	7.96	8.02	8.16	8.21	8.45
3H	7.65	7.71	7.86	7.90	8.15	7.94	8.00	8.15	8.19	8.44
4H	7.64	7.70	7.85	7.90	8.15	7.93	7.99	8.14	8.18	8.43
6H	7.63	7.69	7.85	7.89	8.14	7.91	7.97	8.13	8.17	8.42
8H	7.62	7.68	7.84	7.88	8.14	7.91	7.96	8.12	8.17	8.42
12H	7.61	7.67	7.84	7.88	8.13	7.90	7.95	8.12	8.16	8.42
4H 2H	7.66	7.71	7.87	7.91	8.16	8.30	8.36	8.52	8.56	8.81
3H	7.64	7.70	7.86	7.91	8.16	8.29	8.35	8.51	8.55	8.81
4H	7.63	7.69	7.86	7.90	8.16	8.27	8.33	8.50	8.54	8.80
6H	7.62	7.67	7.86	7.90	8.16	8.25	8.31	8.49	8.53	8.79
8H	7.61	7.67	7.85	7.89	8.16	8.24	8.29	8.48	8.52	8.79
12H	7.60	7.65	7.85	7.89	8.16	8.22	8.28	8.47	8.51	8.78
8H 4H	7.63	7.69	7.85	7.89	8.15	8.58	8.64	8.80	8.84	9.10
6H	7.58	7.63	7.83	7.87	8.14	8.58	8.64	8.84	8.88	9.15
8H	7.57	7.62	7.83	7.87	8.14	8.57	8.62	8.83	8.87	9.14
12H	7.56	7.61	7.83	7.86	8.14	8.55	8.60	8.82	8.86	9.14
12H 4H	7.58	7.64	7.83	7.87	8.14	8.77	8.83	9.02	9.06	9.33
6H	7.56	7.62	7.83	7.86	8.14	8.77	8.82	9.03	9.07	9.34

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

36.407	18.203
32.766	14.563
29.125	10.922
25.485	7.281
21.844	3.641

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3656.96	3602.16	3622.5	3686.17	3656.96	3602.16	3622.5	3686.17	3656.96	
G1	3606.46	3541.51	3647.9	3660.69	3695.61	3625.38	3569.79	3684.28	3606.46	
G2	3510.27	3466.85	3657.34	3594.89	3698.73	3636.62	3492.05	3652.95	3510.27	
G3	3403.98	3361.65	3622.17	3515.93	3665.64	3604.62	3393.17	3599.71	3403.98	
G4	3273.44	3243.7	3578.33	3405.12	3612.97	3555.86	3276.88	3514.61	3273.44	
G5	3118.44	3105.51	3506.21	3279.67	3527.4	3479.07	3136.52	3414.65	3118.44	
G6	2958.92	2952.21	3419.09	3124.39	3421.54	3382.32	2984.97	3292.41	2958.92	
G7	2783.34	2786.22	3305.2	2959.77	3303.55	3254.79	2817.66	3151.86	2783.34	
G8	2605.41	2610.22	3176.35	2786.88	3150.35	3110.42	2649.26	2996.48	2605.41	
G9	2417.71	2436.92	3030.51	2612.16	2986.24	2965.95	2470.52	2826.67	2417.71	
G10	2224.3	2253.27	2866.79	2423.04	2813.12	2805.67	2292.5	2653.41	2224.3	
G11	2035.93	2072.46	2698.53	2239.16	2634.86	2627.22	2113.29	2472.03	2035.93	
G12	1853.0	1895.33	2529.05	2056.61	2448.48	2450.46	1937.91	2288.34	1853.0	
G13	1676.01	1726.51	2358.05	1875.23	2258.66	2269.32	1765.83	2104.7	1676.01	
G14	1500.58	1558.91	2184.6	1693.19	2069.11	2096.01	1601.34	1923.37	1500.58	
G15	1338.55	1403.45	2002.85	1528.94	1881.98	1916.05	1440.45	1748.79	1338.55	
G16	1187.47	1256.71	1831.66	1369.75	1702.63	1745.2	1293.29	1581.99	1187.47	
G17	1048.62	1117.58	1666.0	1220.47	1535.27	1582.98	1154.34	1421.81	1048.62	
G18	920.06	988.87	1510.87	1079.58	1374.7	1422.61	1027.9	1267.99	920.06	
G19	805.27	875.5	1362.01	952.91	1224.62	1268.94	909.86	1126.92	805.27	
G20	703.33	770.58	1223.25	838.97	1079.82	1126.45	806.31	997.22	703.33	
G21	612.33	678.27	1089.16	737.64	949.98	998.78	711.82	878.19	612.33	
G22	531.77	595.91	969.42	646.41	832.79	885.37	628.29	773.46	531.77	
G23	463.62	522.0	861.01	566.5	729.33	781.34	552.39	679.82	463.62	
G24	404.19	456.3	763.65	494.43	636.69	686.62	486.98	595.62	404.19	
G25	352.14	400.37	674.02	431.47	556.69	602.56	425.72	521.1	352.14	
G26	306.12	351.0	593.6	376.4	485.56	529.17	373.85	456.25	306.12	
G27	266.66	309.0	523.41	328.92	423.64	463.1	327.64	400.37	266.66	
G28	233.2	272.09	462.01	287.71	369.6	405.8	288.51	350.86	233.2	
G29	204.13	237.97	406.32	252.27	323.16	355.25	253.21	307.96	204.13	
G30	178.4	208.66	358.6	221.26	282.1	311.97	223.43	270.06	178.4	
G31	156.27	181.66	316.31	194.55	249.2	274.78	195.4	238.11	156.27	
G32	136.12	158.02	279.69	170.57	219.37	242.21	169.86	210.17	136.12	
G33	119.31	137.96	246.93	148.95	193.7	212.91	148.01	184.4	119.31	
G34	103.83	120.35	216.96	129.74	169.48	187.23	128.38	161.7	103.83	
G35	90.95	105.15	190.2	112.9	149.24	163.73	110.68	142.02	90.95	
G36	78.96	91.61	166.37	98.08	130.41	143.29	95.81	124.69	78.96	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	68.58	79.15	145.51	85.62	114.69	125.69	82.26	109.36	68.58	
G38	59.33	68.62	127.15	74.05	100.81	110.77	70.56	96.47	59.33	
G39	50.93	58.43	111.34	64.0	89.06	97.37	60.22	85.05	50.93	
G40	43.0	49.32	97.04	55.13	78.49	86.04	51.16	74.71	43.0	
G41	36.25	41.53	84.34	46.54	69.33	75.33	42.43	65.32	36.25	
G42	29.73	34.55	73.06	38.94	60.55	65.79	35.02	57.01	29.73	
G43	24.45	28.03	62.96	32.33	52.91	57.01	28.13	49.37	24.45	
G44	19.35	22.51	53.57	26.29	45.17	49.04	22.09	42.43	19.35	
G45	14.44	16.9	44.84	21.05	38.89	42.43	17.13	36.29	14.44	
G46	10.86	12.6	37.43	15.91	33.32	36.29	13.26	30.73	10.86	
G47	8.59	9.49	30.63	11.94	27.89	30.25	10.01	25.2	8.59	
G48	7.22	7.74	24.92	9.16	22.89	24.73	8.21	20.63	7.22	
G49	6.28	6.51	20.67	7.65	19.3	20.44	6.84	17.89	6.28	
G50	5.47	5.85	18.03	6.47	16.71	17.65	5.95	15.48	5.47	
G51	4.81	5.1	15.67	5.66	15.06	15.53	5.05	14.11	4.81	
G52	4.29	4.53	14.16	5.14	13.73	14.11	4.63	12.93	4.29	
G53	3.82	4.06	12.88	4.72	12.74	12.88	4.11	11.94	3.82	
G54	3.4	3.59	12.08	4.06	11.75	11.99	3.63	11.09	3.4	
G55	2.97	3.21	11.09	3.78	11.0	11.19	3.3	10.43	2.97	
G56	2.69	2.93	10.48	3.4	10.24	10.43	3.11	9.82	2.69	
G57	2.36	2.6	9.77	3.16	9.63	9.82	2.78	9.25	2.36	
G58	2.12	2.36	9.3	2.78	8.97	9.25	2.6	8.64	2.12	
G59	2.08	2.17	8.83	2.5	8.54	8.68	2.36	8.35	2.08	
G60	1.84	2.03	8.31	2.36	8.07	8.21	2.22	7.83	1.84	
G61	1.65	1.89	7.83	2.27	7.6	7.79	2.12	7.46	1.65	
G62	1.56	1.89	7.46	2.12	7.22	7.5	2.03	6.99	1.56	
G63	1.56	1.7	7.22	2.03	7.17	7.13	1.94	6.89	1.56	
G64	1.32	1.6	6.94	1.79	6.75	6.7	1.75	6.51	1.32	
G65	1.27	1.42	6.51	1.79	6.47	6.32	1.51	6.14	1.27	
G66	1.23	1.37	6.47	1.56	6.14	6.23	1.51	5.81	1.23	
G67	1.13	1.18	6.18	1.42	5.95	5.9	1.37	5.71	1.13	
G68	1.23	1.18	5.95	1.42	5.57	5.66	1.32	5.38	1.23	
G69	1.09	0.99	5.57	1.37	5.43	5.43	1.23	5.14	1.09	
G70	0.99	1.04	5.33	1.32	5.19	5.24	1.18	4.91	0.99	
G71	0.9	0.9	5.19	1.32	5.14	5.1	1.13	4.91	0.9	
G72	0.76	0.94	4.96	1.13	4.91	4.91	1.09	4.53	0.76	
G73	0.71	0.71	4.81	0.99	4.77	4.72	0.99	4.34	0.71	

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