

Report No.:

Test Time: 2024/10/8 16:00:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT055-24°-8W
Lamp Type:
Luminous Width: 45 mm
Luminous Length: 45 mm
Luminous Height: 50 mm

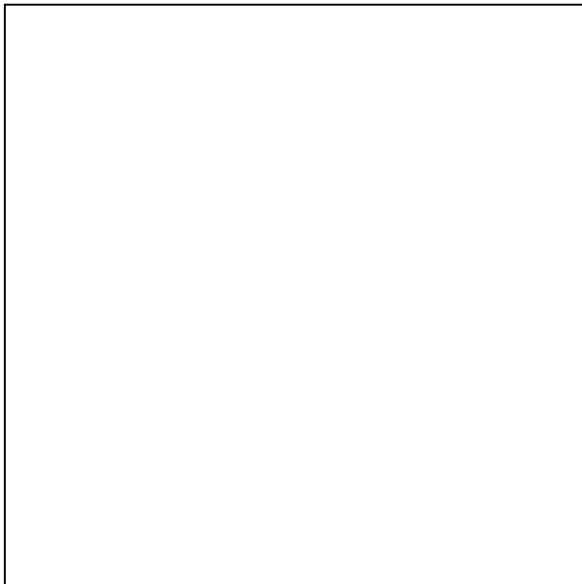
Voltage(V): 219.90 V
Current(A): 0.0420 A
Power(W): 8.69 W
Power Factor: 0.9330
Lamp Luminous Flux: 823.14

Photometric Results

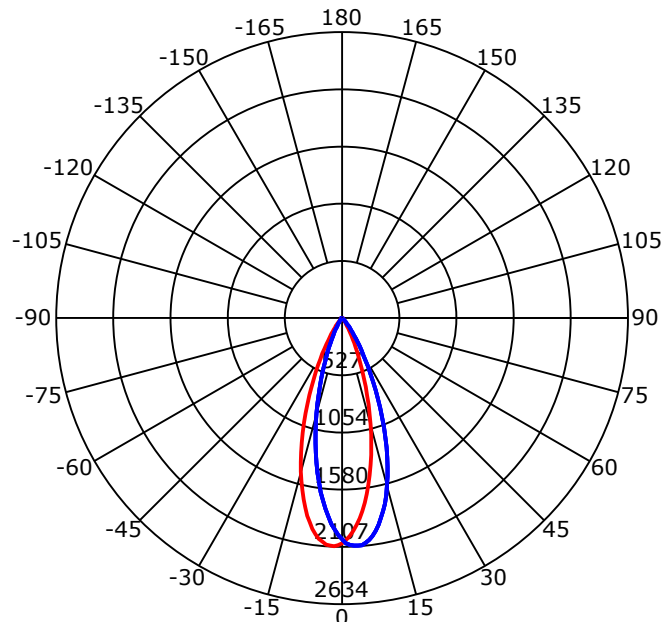
CIE Class: Direct
Luminaire Luminous Flux: 823.1422 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.72 lm/W
Beam Angle(50%) C0-180,C90-270: 34.3,34.7
Field Angle(10%) C0-180,C90-270: 60.1,60.7
S/MH C0-180,C90-270: 0.573,0.573

Max. Intensity: 2107.28 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2074.96 cd
Effective Luminous Flux: 745.35 lm
ERP(ϕ use)(120deg): 822.45 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 34.3 deg,34.7 deg

C0-180 — C90-270 —

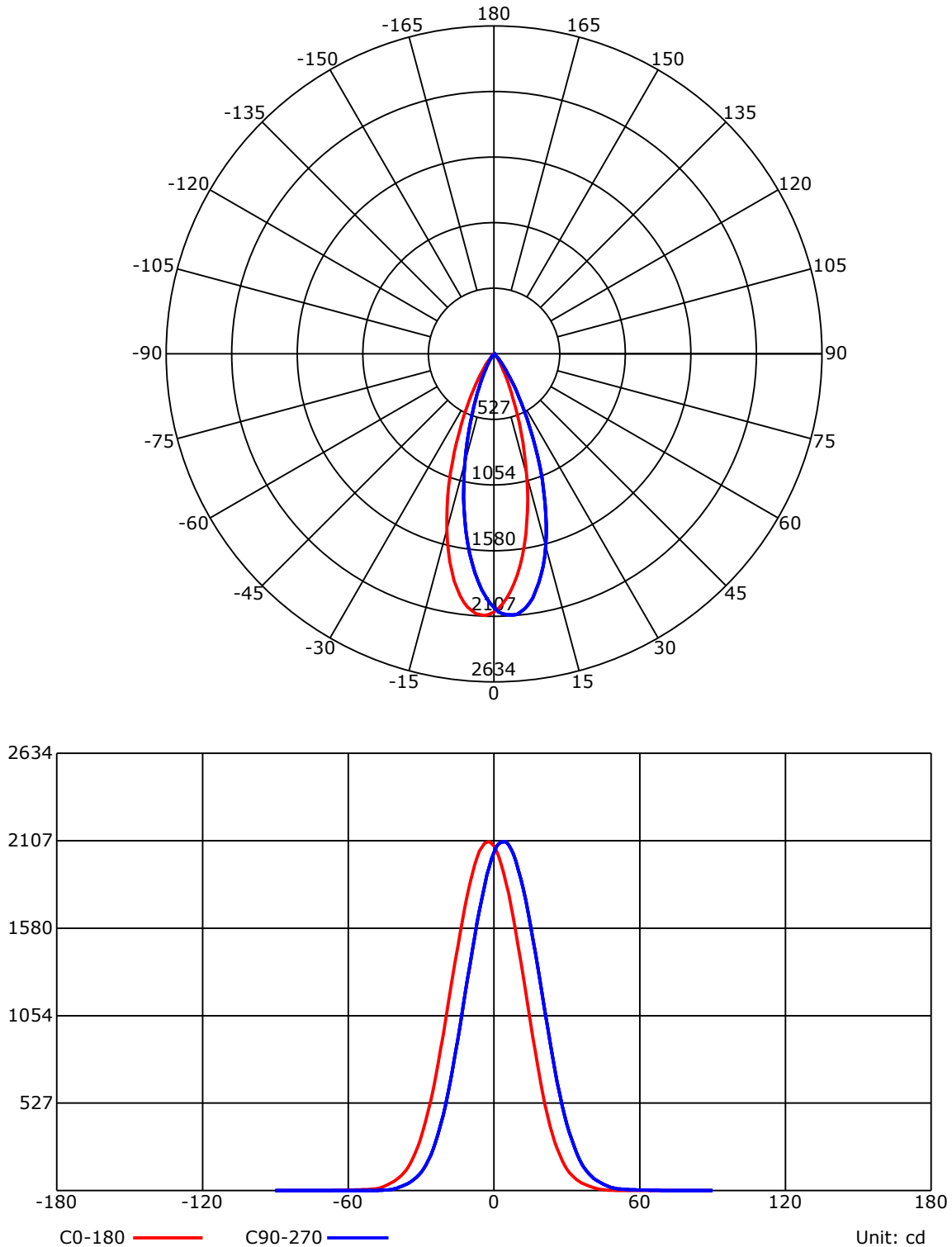
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 16:00:22

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



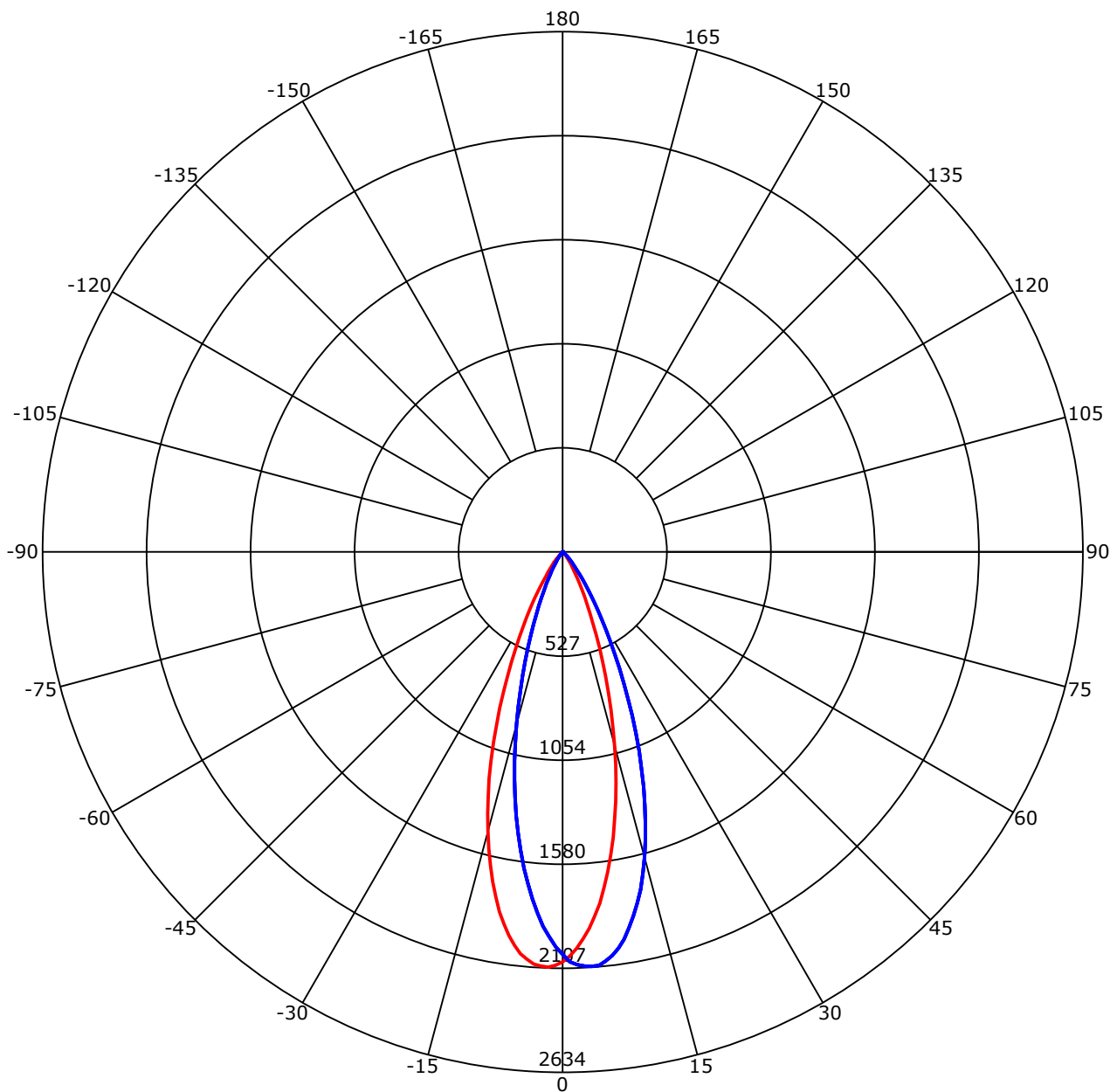
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

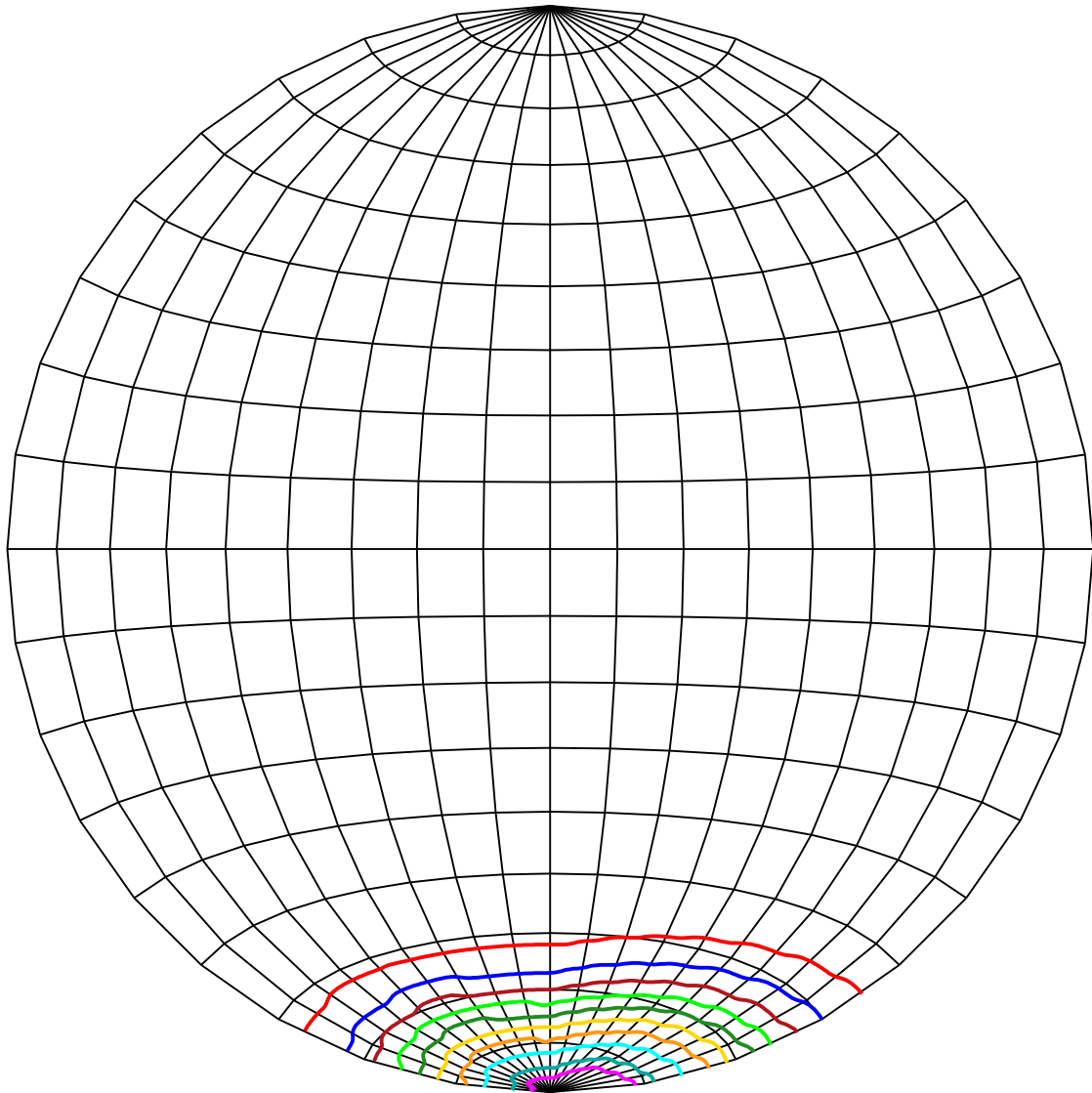
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2107.283 cd

2001.919(95%I _{max})	1053.642(50%I _{max})
1896.555(90%I _{max})	842.913(40%I _{max})
1685.827(80%I _{max})	632.185(30%I _{max})
1475.098(70%I _{max})	421.457(20%I _{max})
1264.37(60%I _{max})	210.728(10%I _{max})

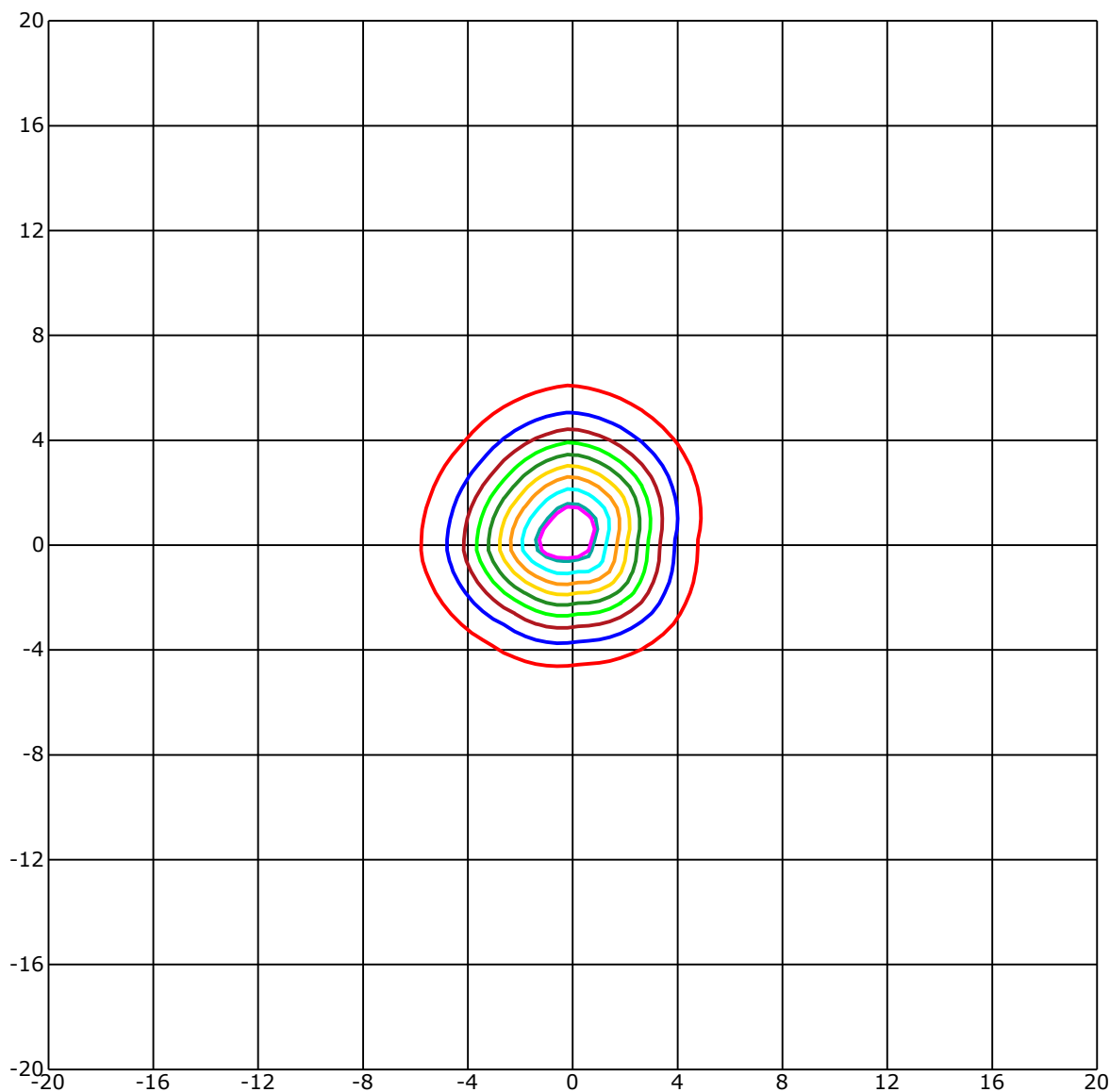
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ISOLX DIAGRAM



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

19.352(92%Emax)	10.517(50%Emax)
18.931(90%Emax)	8.414(40%Emax)
16.827(80%Emax)	6.31(30%Emax)
14.724(70%Emax)	4.207(20%Emax)
12.621(60%Emax)	2.103(10%Emax)

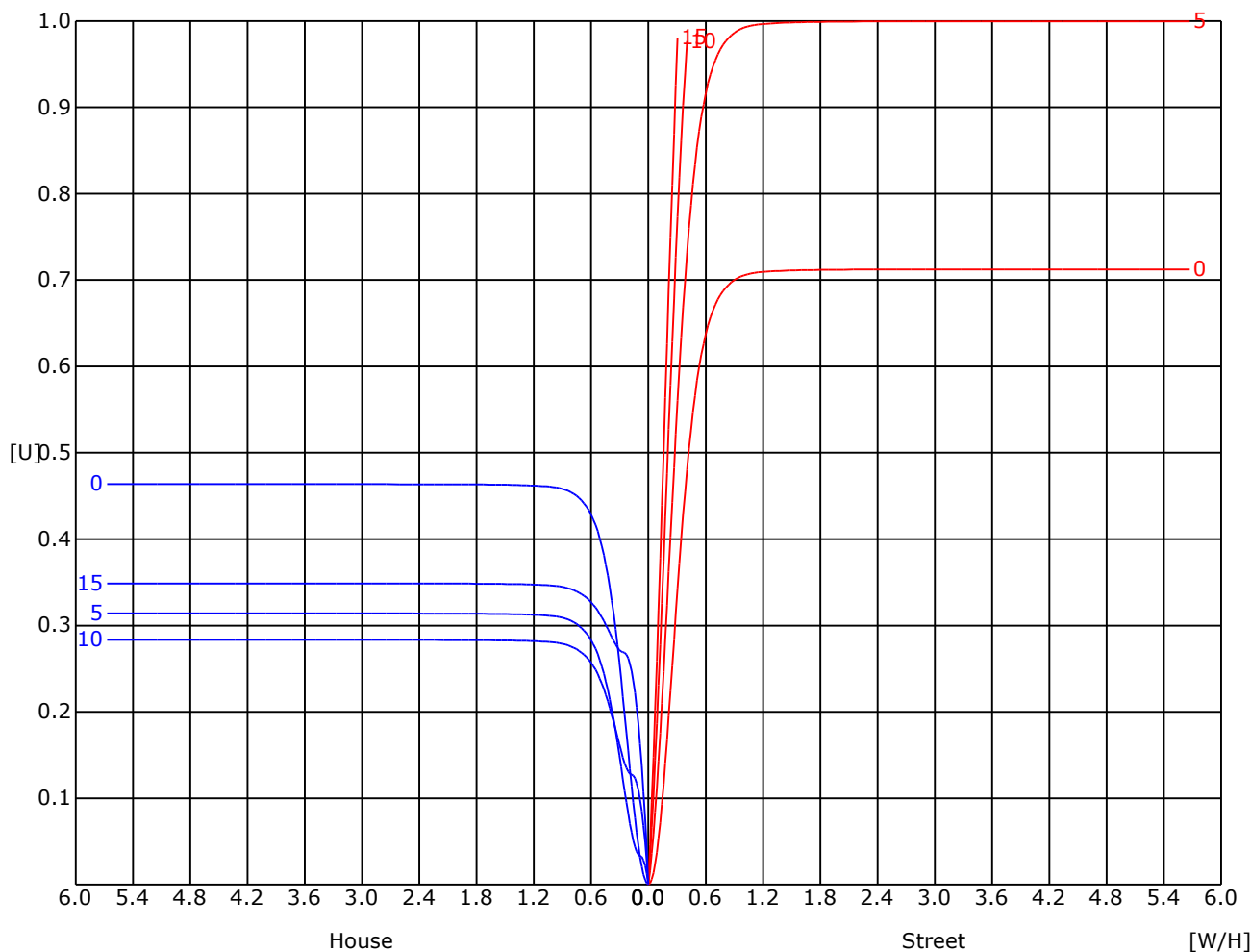
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UTILIZATION FACTOR DIAGRAM (ROAD)



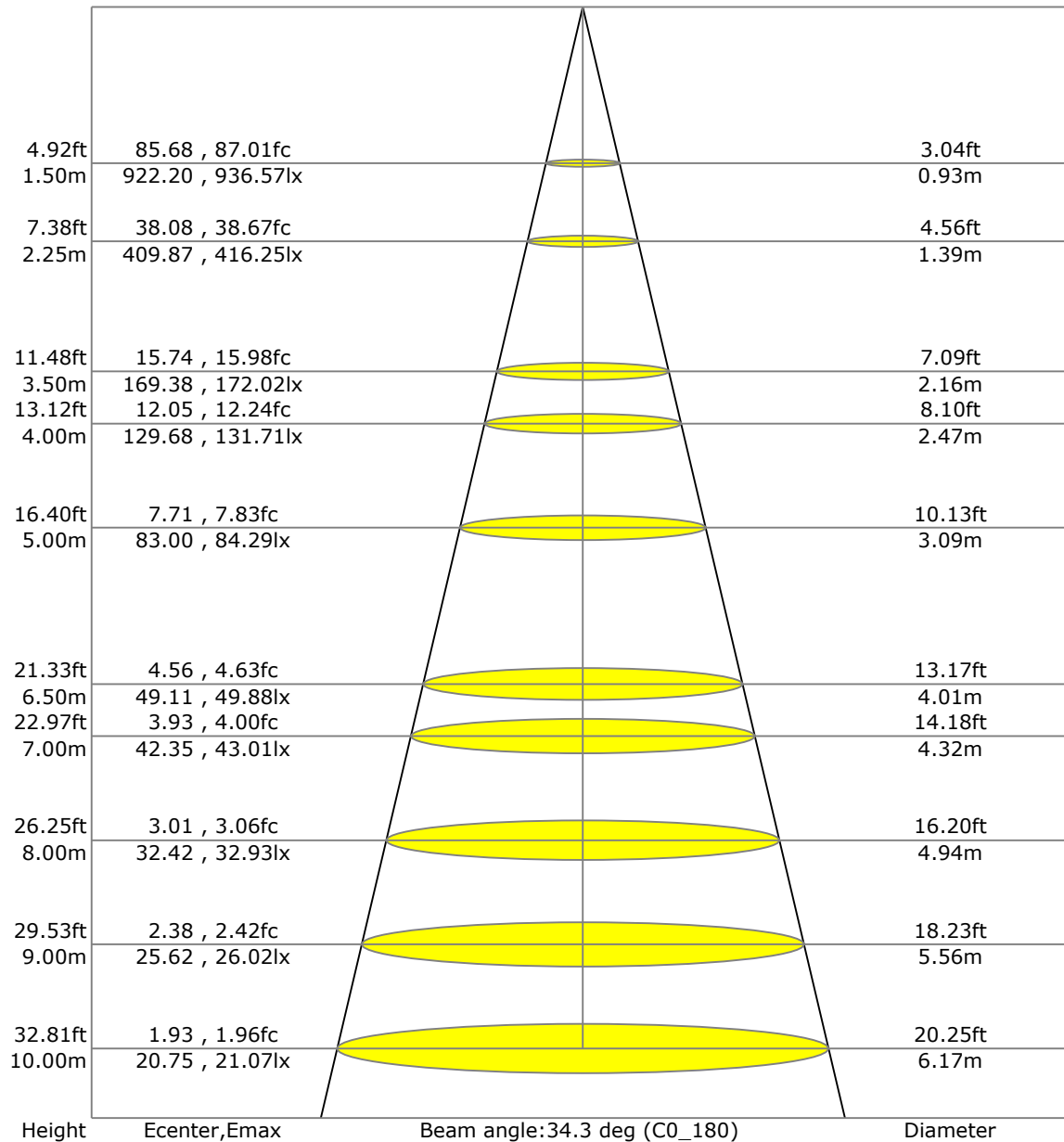
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LX-DISTANCE DIAGRAM



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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	12.68	12.73	12.88	12.92	13.16	12.82	12.87	13.02	13.06	13.30
	3H	12.65	12.71	12.86	12.90	13.15	12.80	12.85	13.01	13.04	13.29
	4H	12.64	12.69	12.85	12.89	13.14	12.79	12.84	13.00	13.03	13.28
	6H	12.63	12.68	12.84	12.88	13.13	12.77	12.82	12.99	13.02	13.28
	8H	12.62	12.67	12.84	12.87	13.13	12.76	12.82	12.98	13.02	13.27
	12H	12.61	12.66	12.83	12.87	13.12	12.75	12.81	12.98	13.01	13.27
4H	2H	12.64	12.69	12.85	12.89	13.14	12.80	12.85	13.01	13.05	13.29
	3H	12.61	12.66	12.83	12.87	13.12	12.77	12.82	12.99	13.03	13.28
	4H	12.59	12.64	12.82	12.86	13.12	12.75	12.80	12.98	13.01	13.27
	6H	12.57	12.62	12.81	12.84	13.11	12.73	12.78	12.96	13.00	13.26
	8H	12.56	12.61	12.80	12.84	13.10	12.71	12.77	12.96	12.99	13.26
	12H	12.55	12.60	12.79	12.83	13.10	12.70	12.75	12.95	12.98	13.25
8H	4H	12.62	12.67	12.84	12.87	13.13	12.77	12.83	12.99	13.03	13.28
	6H	12.53	12.58	12.79	12.82	13.09	12.69	12.74	12.94	12.98	13.25
	8H	12.52	12.56	12.78	12.81	13.09	12.67	12.72	12.93	12.97	13.24
	12H	12.50	12.54	12.77	12.80	13.08	12.65	12.70	12.92	12.95	13.24
12H	4H	12.55	12.60	12.79	12.83	13.10	12.70	12.75	12.95	12.98	13.25
	6H	12.52	12.56	12.78	12.81	13.09	12.67	12.72	12.93	12.97	13.24

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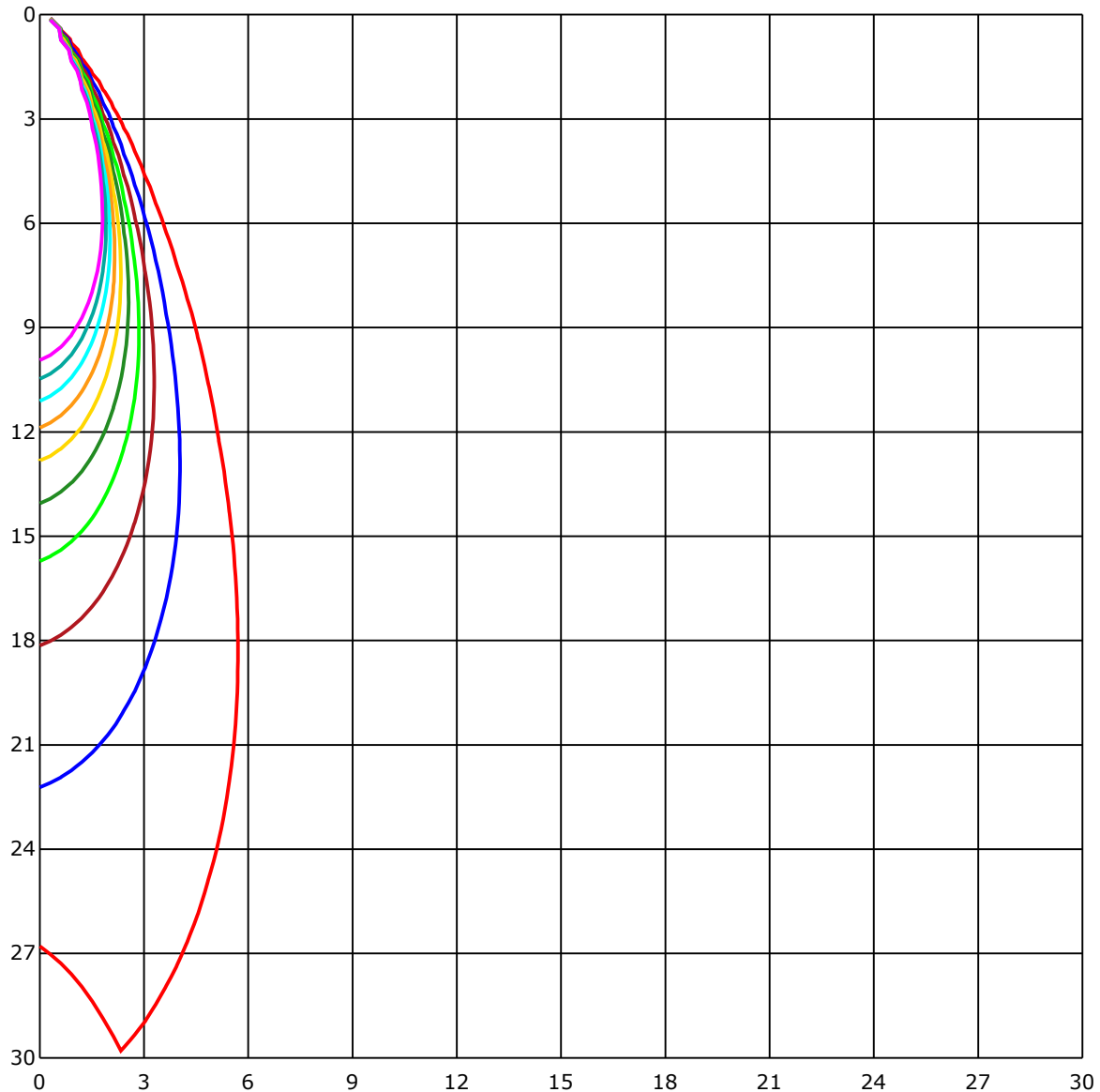
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2074.96	2079.78	2036.51	2085.3	2074.96	2079.78	2036.51	2085.3	2074.96	
G1	2044.72	2090.64	2074.54	2099.68	2091.7	2056.41	1999.69	2064.34	2044.72	
G2	2008.36	2094.76	2089.85	2107.28	2103.3	2024.92	1948.12	2031.04	2008.36	
G3	1961.85	2088.27	2099.08	2098.47	2098.57	1988.28	1898.04	1993.43	1961.85	
G4	1910.79	2071.76	2101.77	2081.73	2090.82	1937.45	1831.07	1943.02	1910.79	
G5	1851.75	2042.82	2101.58	2059.28	2069.21	1883.84	1763.36	1889.69	1851.75	
G6	1788.26	2010.45	2081.22	2024.92	2045.0	1822.07	1687.07	1826.06	1788.26	
G7	1712.95	1964.31	2057.15	1987.08	2006.05	1756.63	1613.8	1757.65	1712.95	
G8	1636.94	1916.4	2025.52	1937.78	1960.97	1679.97	1526.19	1684.19	1636.94	
G9	1554.39	1856.48	1985.08	1886.39	1904.85	1598.49	1442.9	1607.16	1554.39	
G10	1468.87	1795.54	1931.98	1825.04	1849.48	1518.21	1356.18	1522.34	1468.87	
G11	1378.02	1727.42	1876.61	1760.02	1777.83	1433.02	1267.13	1436.13	1378.02	
G12	1290.28	1652.84	1816.92	1684.01	1707.34	1345.46	1177.17	1349.73	1290.28	
G13	1199.75	1572.47	1753.9	1607.03	1628.36	1257.49	1084.6	1262.4	1199.75	
G14	1106.91	1493.26	1679.14	1525.17	1549.15	1168.77	993.05	1171.79	1106.91	
G15	1016.01	1404.96	1600.72	1441.28	1464.7	1077.36	906.33	1083.39	1016.01	
G16	924.37	1317.87	1518.77	1351.96	1377.7	992.17	818.96	990.55	924.37	
G17	834.17	1226.32	1432.93	1263.19	1292.41	902.43	734.64	903.59	834.17	
G18	749.35	1136.17	1346.67	1172.76	1204.71	817.98	656.55	813.85	749.35	
G19	667.63	1043.23	1258.23	1087.2	1116.69	735.48	584.15	729.08	667.63	
G20	590.04	955.25	1167.1	993.1	1024.22	657.1	514.4	649.73	590.04	
G21	518.39	865.98	1079.36	906.19	935.73	581.88	452.12	572.98	518.39	
G22	450.96	781.72	986.56	821.04	850.91	516.44	394.8	504.43	450.96	
G23	391.14	698.84	899.19	741.55	767.11	455.18	343.6	441.36	391.14	
G24	340.82	620.7	813.72	661.46	688.64	400.41	296.34	384.83	340.82	
G25	294.02	547.05	733.07	590.23	614.02	348.33	253.03	335.39	294.02	
G26	253.17	480.55	653.53	523.77	548.44	300.05	215.42	288.78	253.17	
G27	216.48	419.47	581.6	463.95	485.0	257.34	184.07	247.88	216.48	
G28	181.28	367.21	513.34	408.53	428.01	219.41	154.66	211.15	181.28	
G29	152.9	318.51	453.88	357.19	374.26	187.22	130.92	180.77	152.9	
G30	129.76	275.01	398.65	309.75	325.65	159.86	110.79	152.9	129.76	
G31	109.26	235.87	350.74	265.41	280.62	136.81	93.73	130.5	109.26	
G32	92.43	200.02	305.57	226.08	241.2	116.64	79.02	111.44	92.43	
G33	78.14	168.21	264.62	193.25	206.74	99.66	67.25	95.3	78.14	
G34	66.36	142.61	226.87	164.73	177.06	85.42	56.63	81.81	66.36	
G35	56.07	120.53	192.6	139.82	150.44	73.27	47.4	70.45	56.07	
G36	47.26	101.66	164.17	118.44	128.14	62.65	39.28	60.66	47.26	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	39.47	85.8	139.82	100.5	109.35	53.61	32.37	52.27	39.47	
G38	33.25	72.9	119.23	84.96	93.26	45.54	26.16	44.2	33.25	
G39	27.73	61.49	102.12	71.6	79.72	38.4	20.73	37.8	27.73	
G40	22.21	52.27	87.42	60.06	68.22	31.63	15.49	31.44	22.21	
G41	17.39	43.55	74.48	50.09	58.11	25.27	10.9	26.11	17.39	
G42	13.36	36.64	64.05	40.86	49.53	19.71	7.51	21.1	13.36	
G43	9.46	30.14	54.91	33.53	41.32	15.16	5.19	16.83	9.46	
G44	6.63	24.86	46.05	26.39	34.13	12.2	3.76	13.26	6.63	
G45	4.45	19.34	38.68	19.99	27.32	10.16	2.88	10.81	4.45	
G46	3.34	14.89	31.91	14.01	21.33	8.95	2.09	9.23	3.34	
G47	2.41	10.71	25.79	9.69	16.32	7.98	1.67	7.98	2.41	
G48	1.9	7.65	20.08	6.54	12.75	7.1	0.97	6.91	1.9	
G49	1.34	5.47	15.77	4.59	10.71	6.35	0.56	6.17	1.34	
G50	0.88	4.03	12.66	3.48	9.37	5.66	0.32	5.43	0.88	
G51	0.7	3.15	10.76	2.74	8.3	5.1	0.09	5.01	0.7	
G52	0.28	2.6	9.46	2.13	7.42	4.54	0.0	4.36	0.28	
G53	0.05	1.95	8.35	1.76	6.68	4.17	0.0	3.94	0.05	
G54	0.0	1.34	7.47	1.39	6.17	3.85	0.0	3.62	0.0	
G55	0.0	0.79	6.72	0.97	5.47	3.34	0.0	3.15	0.0	
G56	0.0	0.51	5.89	0.79	4.92	3.11	0.0	2.92	0.0	
G57	0.0	0.28	5.33	0.46	4.5	2.64	0.0	2.64	0.0	
G58	0.0	0.0	4.82	0.05	4.08	2.41	0.0	2.23	0.0	
G59	0.0	0.0	4.31	0.0	3.76	1.99	0.0	1.99	0.0	
G60	0.0	0.0	3.8	0.0	3.29	1.72	0.0	1.67	0.0	
G61	0.0	0.0	3.62	0.0	2.97	1.44	0.0	1.34	0.0	
G62	0.0	0.0	3.25	0.0	2.6	1.21	0.0	1.02	0.0	
G63	0.0	0.0	2.97	0.0	2.23	0.93	0.0	0.97	0.0	
G64	0.0	0.0	2.46	0.0	1.95	0.79	0.0	0.74	0.0	
G65	0.0	0.0	2.18	0.0	1.67	0.56	0.0	0.51	0.0	
G66	0.0	0.0	1.86	0.0	1.39	0.46	0.0	0.46	0.0	
G67	0.0	0.0	1.62	0.0	1.16	0.32	0.0	0.32	0.0	
G68	0.0	0.0	1.25	0.0	0.93	0.09	0.0	0.19	0.0	
G69	0.0	0.0	1.02	0.0	0.6	0.0	0.0	0.19	0.0	
G70	0.0	0.0	0.74	0.0	0.42	0.0	0.0	0.05	0.0	
G71	0.0	0.0	0.65	0.0	0.23	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.46	0.0	0.19	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	

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