

Report No.:

Test Time: 2024/9/20 11:06:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H89-24°-15W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

Voltage(V): 219.90 V
Current(A): 0.0720 A
Power(W): 15.10 W
Power Factor: 0.9510
Lamp Luminous Flux: 1524.58

Photometric Results

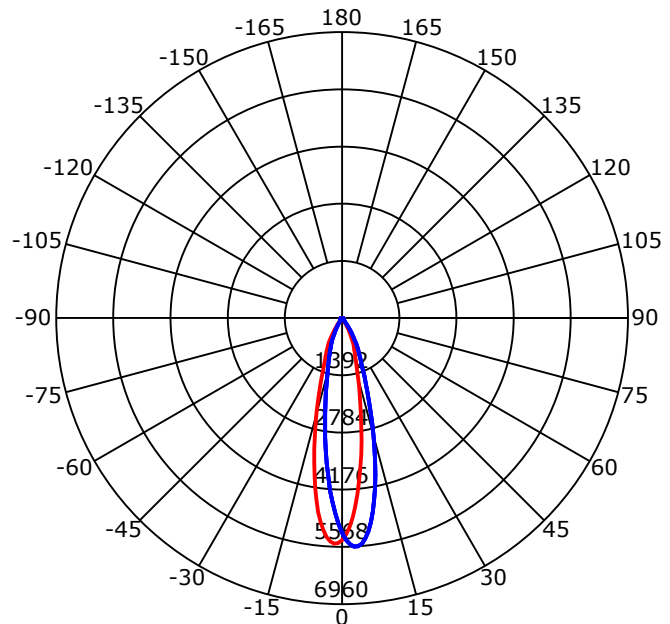
CIE Class: Direct
Luminaire Luminous Flux: 1524.583 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 100.97 lm/W
Beam Angle(50%) C0-180,C90-270: 23.6,24.1
Field Angle(10%) C0-180,C90-270: 55.4,55.4
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 5567.68 cd
Max.Intensity Angle: C=90 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5404.16 cd
Effective Luminous Flux: 1260.57 lm
ERP(ϕ use)(120deg): 1486.53 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.6 deg,24.1 deg

C0-180 — C90-270 —

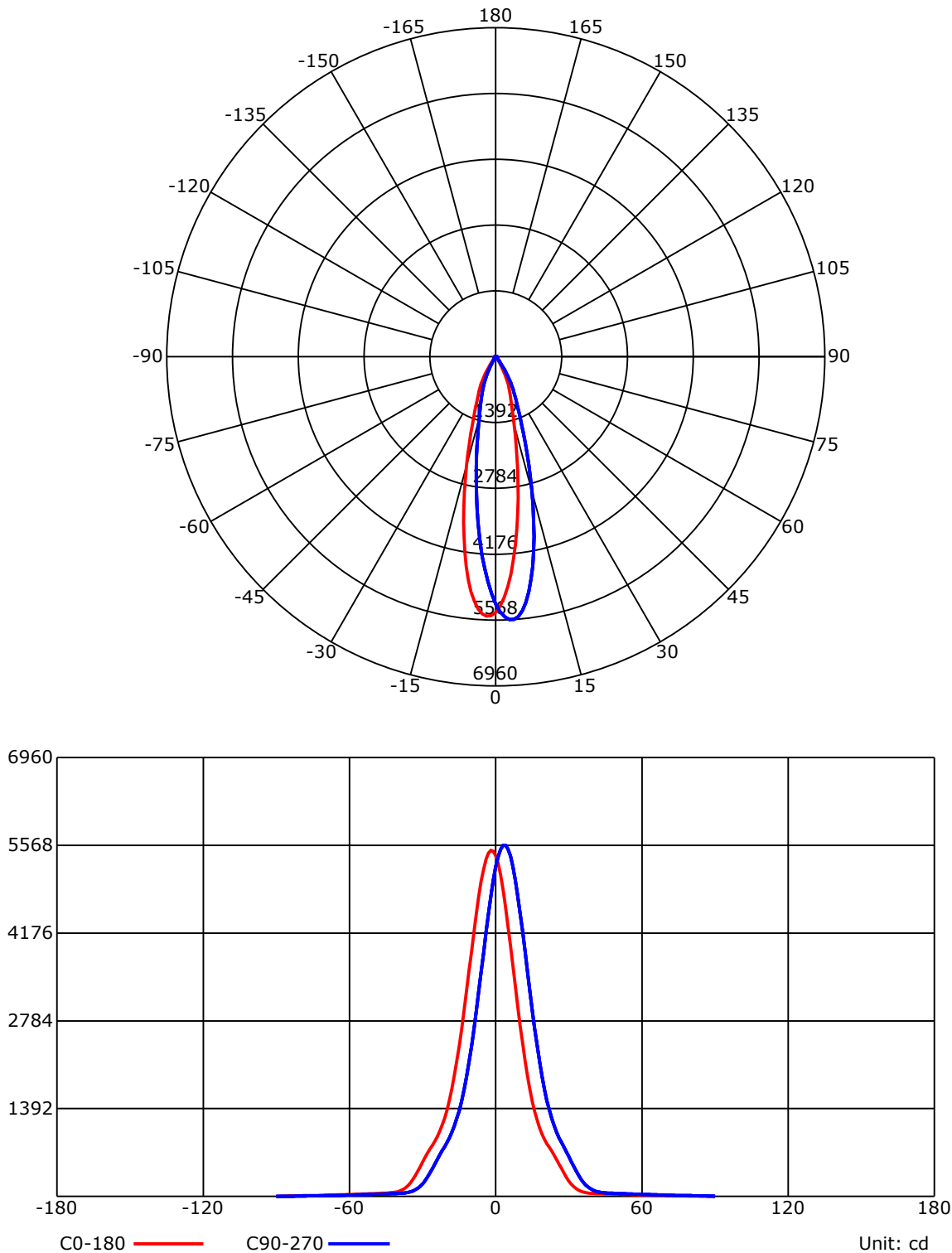
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 11:06:59

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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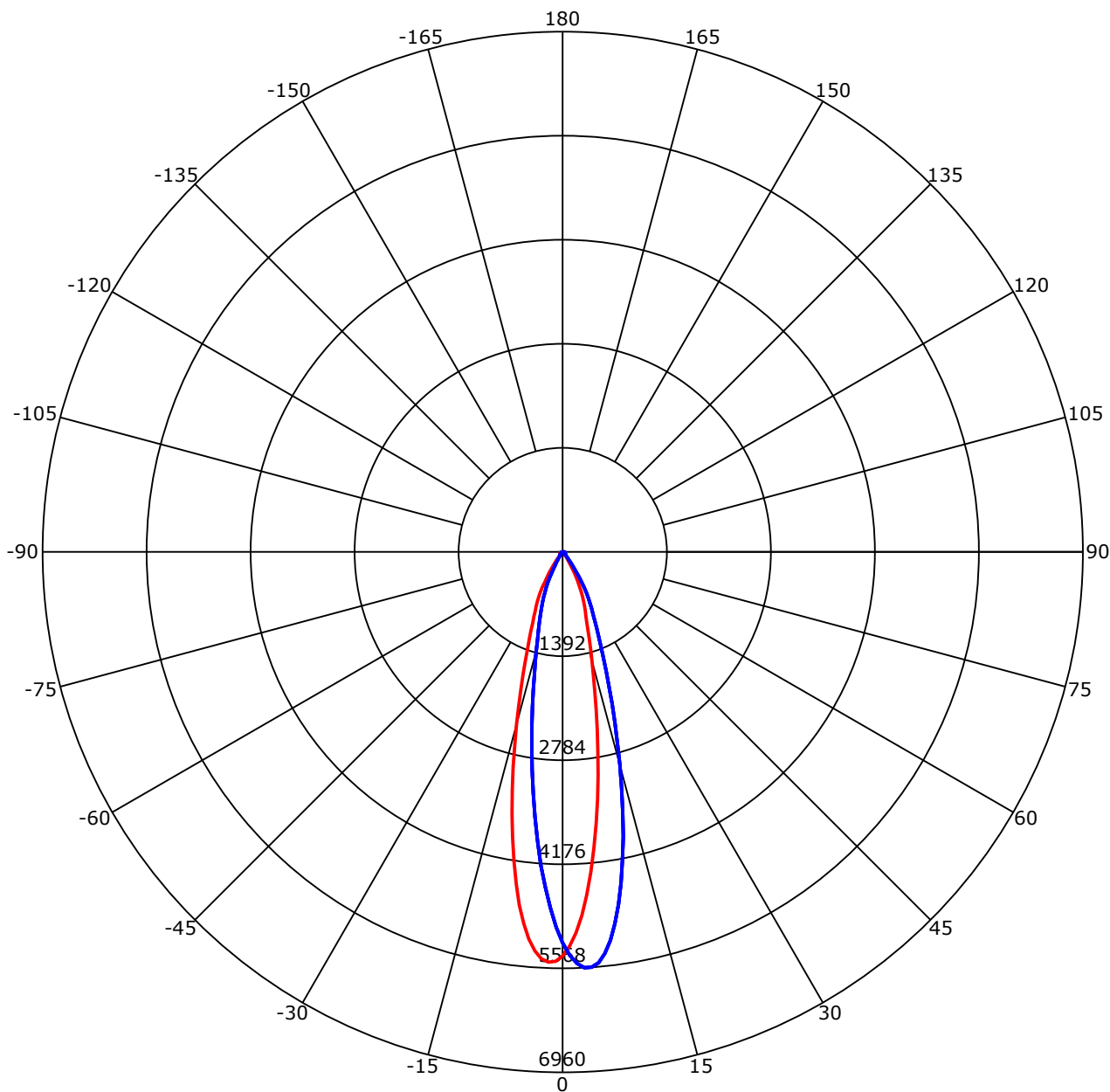
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

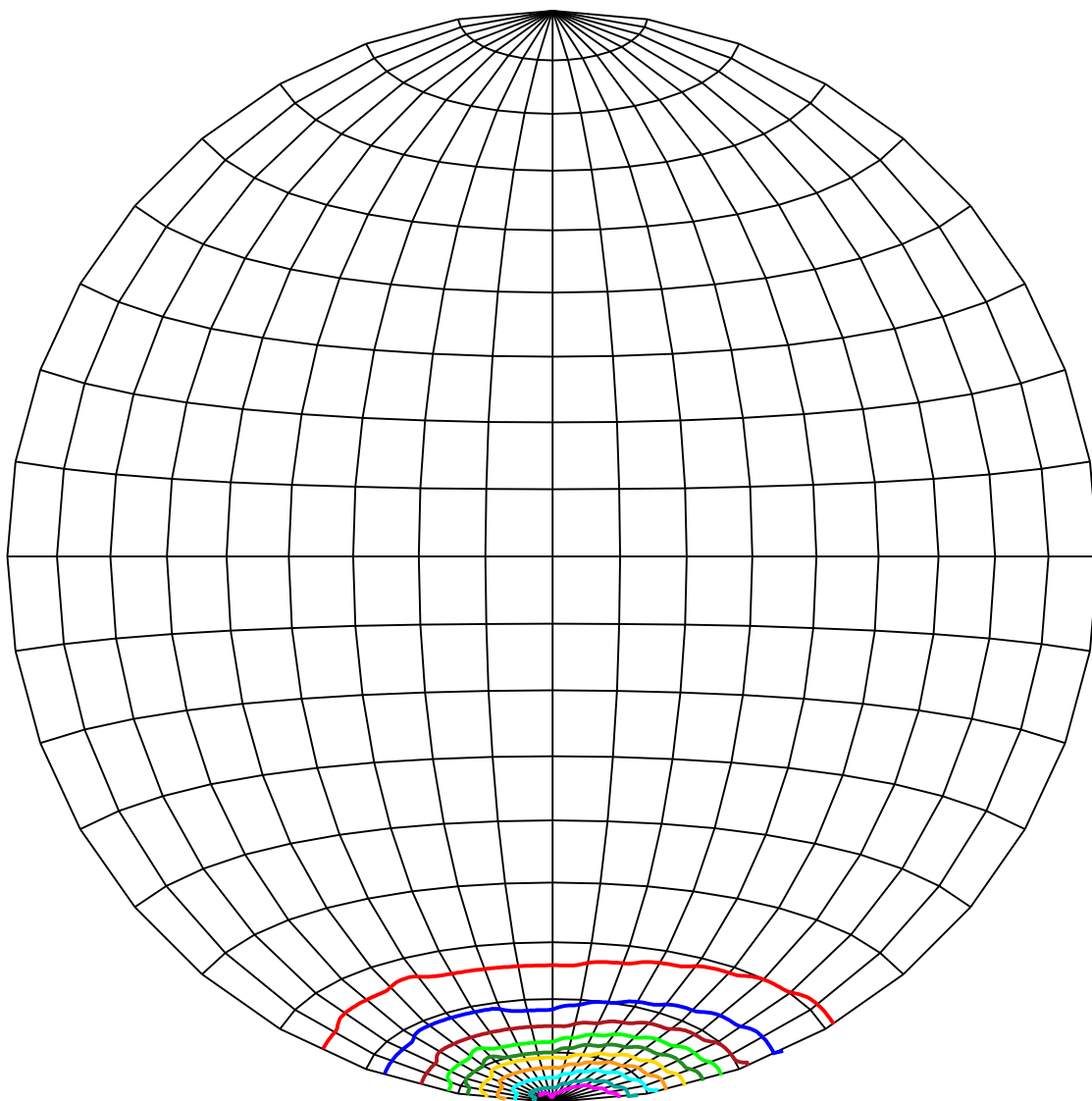
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 5567.683 cd

5289.298(95%I _{max})	2783.841(50%I _{max})
5010.914(90%I _{max})	2227.073(40%I _{max})
4454.146(80%I _{max})	1670.305(30%I _{max})
3897.378(70%I _{max})	1113.536(20%I _{max})
3340.61(60%I _{max})	556.768(10%I _{max})

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Humidity: 60

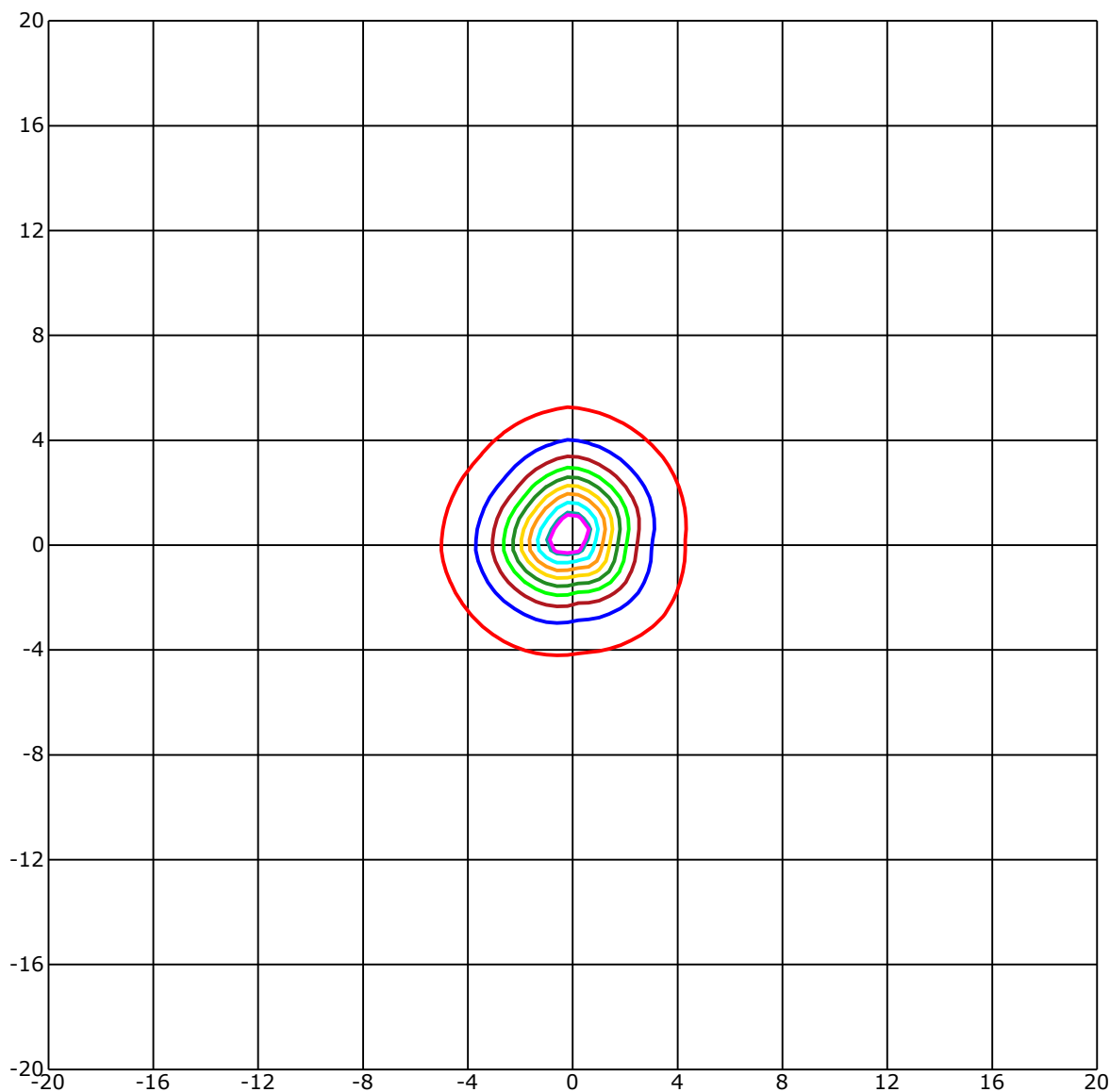
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ISOLX DIAGRAM



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

51.0(92%Emax)	27.717(50%Emax)
49.891(90%Emax)	22.174(40%Emax)
44.348(80%Emax)	16.63(30%Emax)
38.804(70%Emax)	11.087(20%Emax)
33.261(60%Emax)	5.543(10%Emax)

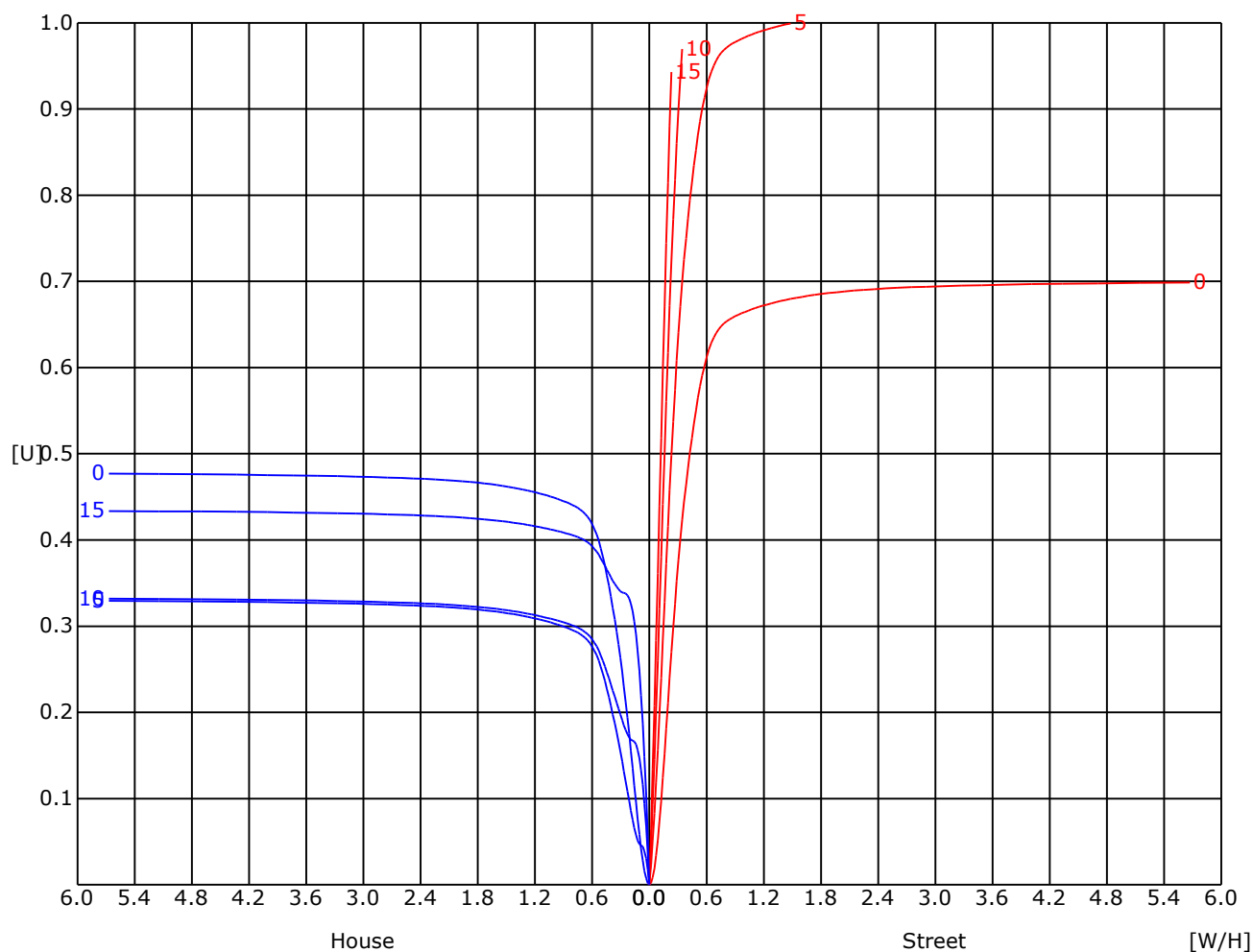
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UTILIZATION FACTOR DIAGRAM (ROAD)



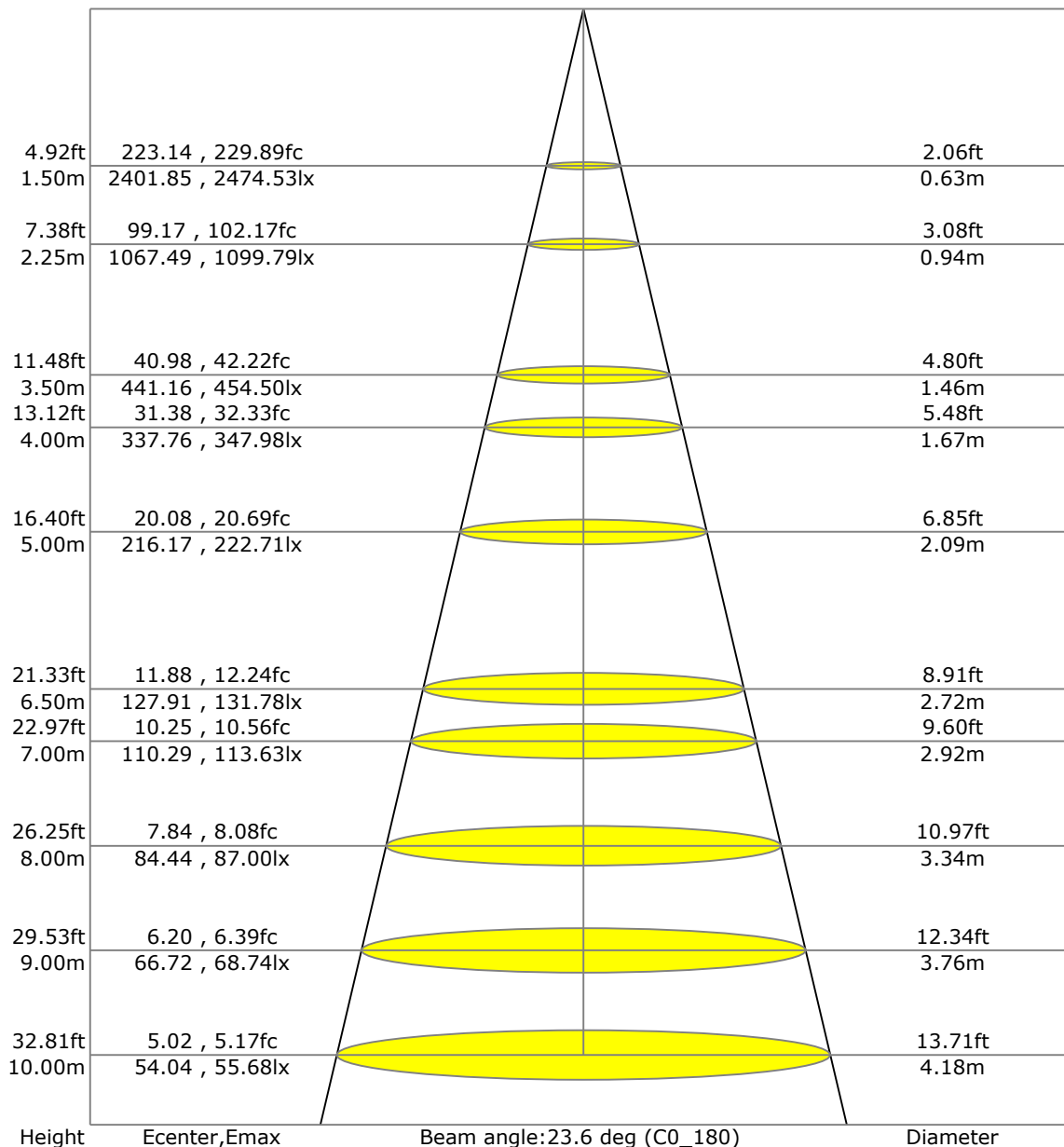
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LX-DISTANCE DIAGRAM



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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	10.39	10.45	10.59	10.63	10.88	10.75	10.81	10.95	10.99	11.24
3H	10.48	10.54	10.69	10.74	10.98	10.80	10.86	11.01	11.05	11.30
4H	10.50	10.56	10.71	10.75	11.00	10.80	10.86	11.01	11.06	11.31
6H	10.49	10.56	10.71	10.76	11.01	10.79	10.85	11.01	11.05	11.31
8H	10.49	10.55	10.71	10.75	11.00	10.78	10.84	11.00	11.05	11.30
12H	10.48	10.54	10.70	10.74	11.00	10.77	10.84	11.00	11.04	11.30
4H 2H	11.48	11.54	11.69	11.73	11.98	12.33	12.39	12.54	12.58	12.83
3H	11.74	11.80	11.96	12.01	12.26	12.53	12.59	12.75	12.80	13.05
4H	11.82	11.89	12.05	12.10	12.36	12.59	12.65	12.81	12.86	13.12
6H	11.87	11.93	12.11	12.16	12.42	12.60	12.66	12.84	12.88	13.15
8H	11.88	11.94	12.13	12.17	12.44	12.60	12.66	12.84	12.88	13.15
12H	11.88	11.94	12.13	12.17	12.44	12.59	12.65	12.84	12.88	13.15
8H 4H	11.88	11.94	12.10	12.15	12.40	13.08	13.14	13.30	13.34	13.60
6H	12.61	12.67	12.87	12.91	13.18	13.74	13.80	14.00	14.04	14.31
8H	12.66	12.72	12.93	12.96	13.24	13.76	13.82	14.03	14.07	14.34
12H	12.69	12.75	12.96	13.00	13.28	13.76	13.82	14.03	14.07	14.35
12H 4H	12.57	12.63	12.82	12.86	13.13	14.06	14.11	14.31	14.35	14.62
6H	12.76	12.82	13.02	13.06	13.34	14.24	14.29	14.50	14.54	14.81

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ZONAL LUMINOUS FLUX TABLE

[illegible]

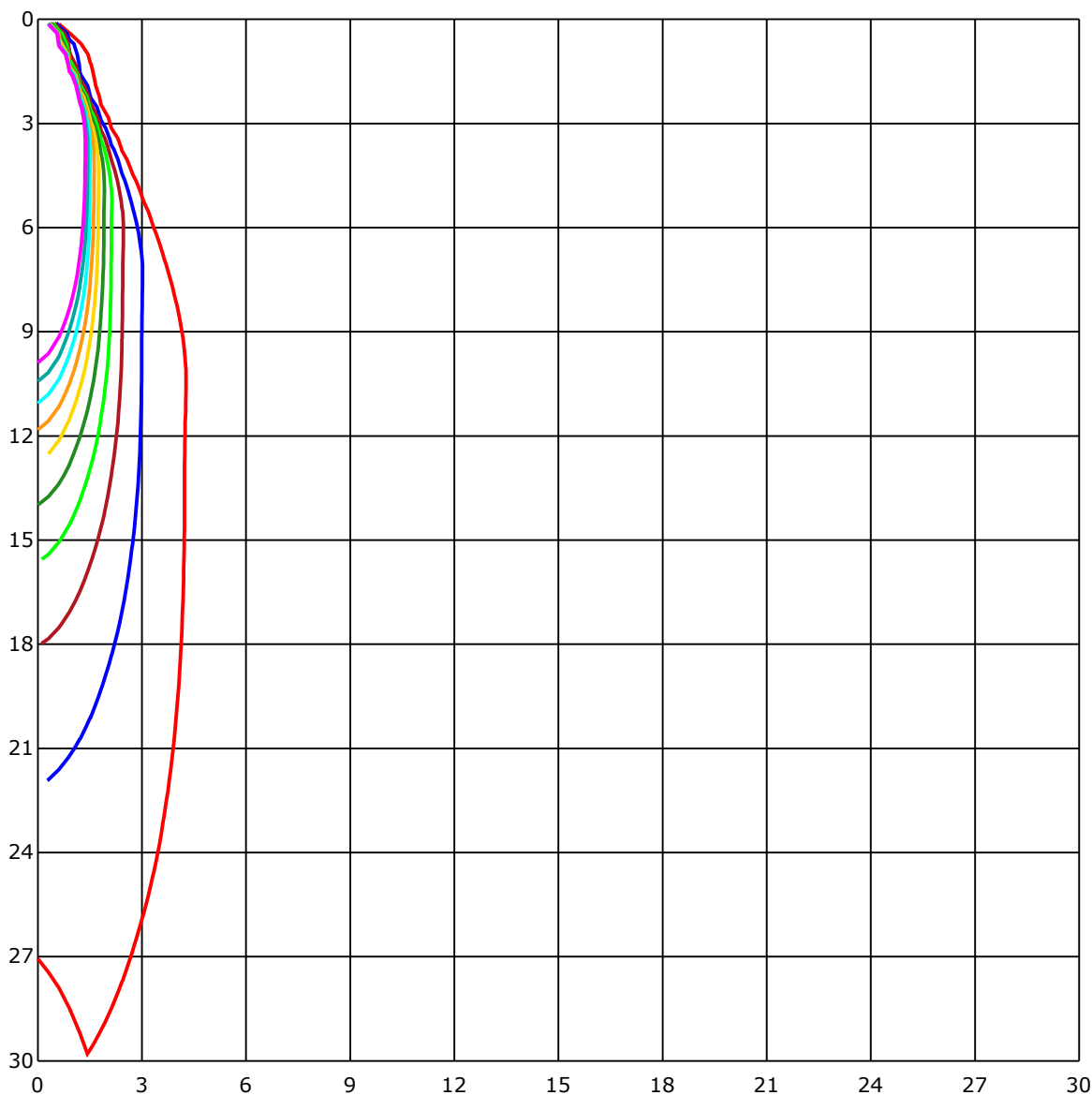
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

55.262	27.631
49.736	22.105
44.209	16.579
38.683	11.052
33.157	5.526

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5404.16	5437.6	5226.26	5458.19	5404.16	5437.6	5226.26	5458.19	5404.16	
G1	5274.03	5487.82	5394.65	5530.17	5475.16	5336.41	5016.64	5329.59	5274.03	
G2	5094.18	5483.65	5506.65	5539.44	5489.26	5184.29	4760.09	5149.37	5094.18	
G3	4865.83	5417.84	5566.29	5497.66	5445.95	4990.53	4485.73	4928.39	4865.83	
G4	4600.7	5302.64	5567.68	5396.37	5349.11	4756.66	4199.31	4668.17	4600.7	
G5	4296.65	5135.69	5511.99	5234.84	5193.66	4491.29	3870.23	4381.71	4296.65	
G6	3977.59	4919.9	5398.87	5023.46	4996.56	4209.88	3554.4	4071.4	3977.59	
G7	3662.04	4658.43	5230.76	4770.25	4757.17	3911.73	3248.32	3744.73	3662.04	
G8	3345.34	4374.66	5018.91	4481.65	4476.55	3600.22	2939.5	3423.21	3345.34	
G9	3020.71	4071.36	4770.34	4179.55	4183.12	3298.27	2644.78	3106.83	3020.71	
G10	2714.07	3752.94	4493.33	3867.58	3873.1	2997.38	2373.53	2804.92	2714.07	
G11	2424.91	3438.19	4194.21	3533.4	3564.61	2712.49	2117.07	2510.39	2424.91	
G12	2152.27	3121.62	3889.98	3215.35	3252.31	2448.19	1890.75	2244.88	2152.27	
G13	1911.53	2816.65	3563.96	2908.66	2949.94	2203.61	1693.42	1998.49	1911.53	
G14	1697.46	2524.44	3255.09	2607.82	2657.91	1977.2	1517.75	1780.98	1697.46	
G15	1507.87	2258.79	2950.87	2327.06	2390.09	1775.51	1361.6	1590.01	1507.87	
G16	1345.79	2008.36	2659.3	2076.35	2138.96	1593.99	1232.07	1426.44	1345.79	
G17	1204.11	1789.84	2384.52	1848.51	1914.08	1434.74	1116.51	1281.97	1204.11	
G18	1084.18	1593.53	2131.45	1647.51	1708.13	1296.86	1018.19	1159.31	1084.18	
G19	987.58	1426.02	1903.23	1470.08	1533.01	1177.68	931.74	1056.77	987.58	
G20	905.45	1275.53	1698.39	1318.38	1372.69	1075.69	857.49	969.68	905.45	
G21	835.37	1151.57	1516.5	1187.18	1243.34	986.51	789.46	892.0	835.37	
G22	773.46	1045.87	1363.5	1078.75	1128.66	905.96	726.25	825.49	773.46	
G23	715.26	955.25	1228.87	984.19	1032.94	835.79	657.06	765.72	715.26	
G24	649.45	873.73	1115.58	903.13	949.27	772.58	586.15	702.64	649.45	
G25	580.77	802.77	1014.85	832.96	874.84	702.04	514.73	635.68	580.77	
G26	508.56	731.21	928.73	768.08	811.91	629.83	443.45	565.93	508.56	
G27	436.91	660.02	852.16	705.15	751.99	556.23	372.96	490.89	436.91	
G28	367.07	583.64	779.4	638.41	686.64	482.36	307.8	416.6	367.07	
G29	301.12	509.77	704.68	568.06	617.68	410.94	248.58	346.57	301.12	
G30	242.22	436.68	630.2	492.61	546.12	342.02	198.86	283.27	242.22	
G31	193.25	367.07	552.94	418.22	471.78	280.95	159.9	226.32	193.25	
G32	153.5	301.4	474.29	346.85	397.3	228.45	129.06	181.7	153.5	
G33	121.74	244.45	399.76	282.15	329.69	184.9	105.0	145.85	121.74	
G34	97.3	195.34	332.7	225.85	268.8	150.26	86.82	118.21	97.3	
G35	79.44	156.24	271.9	177.44	215.88	123.45	73.41	97.67	79.44	
G36	66.6	124.43	219.36	140.24	171.73	103.0	63.77	83.11	66.6	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	58.06	101.05	176.69	111.91	137.74	87.84	57.18	72.44	58.06	
G38	52.68	82.5	143.21	90.02	112.04	76.57	52.73	65.76	52.68	
G39	49.34	69.1	117.1	74.11	92.8	68.59	49.53	60.98	49.34	
G40	46.89	59.87	97.34	63.63	78.84	62.75	46.89	57.6	46.89	
G41	44.98	53.7	82.46	56.53	69.43	58.8	44.8	54.82	44.98	
G42	43.32	49.85	71.98	51.99	63.4	55.84	43.32	52.78	43.32	
G43	42.11	46.7	64.74	48.28	59.55	53.52	41.6	50.69	42.11	
G44	40.76	44.57	60.06	46.05	56.07	51.2	40.49	48.97	40.76	
G45	39.65	42.99	56.53	44.29	53.66	49.11	39.0	46.93	39.65	
G46	38.63	41.55	53.66	42.85	51.66	47.03	37.7	45.54	38.63	
G47	37.52	40.21	51.57	41.41	49.9	45.54	36.64	43.92	37.52	
G48	36.22	39.0	49.58	40.07	47.49	43.92	35.38	42.48	36.22	
G49	35.34	37.84	47.44	38.72	45.82	42.34	34.32	41.09	35.34	
G50	33.95	36.78	45.77	37.7	44.2	40.81	33.3	39.84	33.95	
G51	32.97	35.48	44.1	36.31	42.9	39.42	32.05	38.58	32.97	
G52	32.0	34.41	42.71	35.2	41.27	37.89	31.21	37.61	32.0	
G53	30.89	33.25	41.27	34.09	39.84	36.64	30.01	35.99	30.89	
G54	29.77	32.14	40.25	32.93	38.45	35.34	28.71	34.87	29.77	
G55	28.8	31.3	38.54	31.86	37.24	33.95	27.55	33.44	28.8	
G56	27.69	30.28	37.38	30.7	36.08	32.6	26.48	32.37	27.69	
G57	26.53	29.12	36.03	29.59	34.64	31.58	25.18	30.98	26.53	
G58	25.37	28.01	34.83	28.8	33.39	30.01	24.02	29.77	25.37	
G59	24.16	26.99	33.53	27.5	32.19	28.85	22.63	28.34	24.16	
G60	22.91	25.92	32.37	26.43	30.84	27.59	21.43	26.99	22.91	
G61	21.66	24.9	31.03	25.27	29.73	26.25	20.13	25.51	21.66	
G62	20.27	23.74	29.87	24.25	28.47	24.9	18.83	24.12	20.27	
G63	18.92	22.45	28.66	22.91	27.18	23.61	17.34	22.63	18.92	
G64	17.44	21.15	27.55	21.7	25.83	22.26	15.35	20.92	17.44	
G65	15.54	19.9	26.06	20.64	24.63	20.68	13.91	19.01	15.54	
G66	14.1	18.55	24.86	19.71	23.37	18.74	13.5	17.39	14.1	
G67	13.5	17.21	23.56	18.46	22.08	17.34	13.12	16.6	13.5	
G68	12.94	15.4	22.12	17.02	20.27	16.56	12.57	16.14	12.94	
G69	12.57	13.96	20.45	15.35	18.46	16.0	12.15	15.63	12.57	
G70	12.1	13.45	18.74	14.1	17.3	15.44	11.78	15.12	12.1	
G71	11.92	13.12	17.44	13.54	16.56	14.93	11.22	14.61	11.92	
G72	11.22	12.75	17.07	13.26	15.95	14.47	10.71	13.91	11.22	
G73	10.76	12.29	16.19	12.8	15.49	13.73	10.25	13.4	10.76	

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Test Distance: 6.81 m

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