

Report No.:

Test Time: 2024/10/16 17:26:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H69-15°-10W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 63 mm

Voltage(V): 219.90 V
Current(A): 0.0530 A
Power(W): 10.76 W
Power Factor: 0.9170
Lamp Luminous Flux: 1088.27

Photometric Results

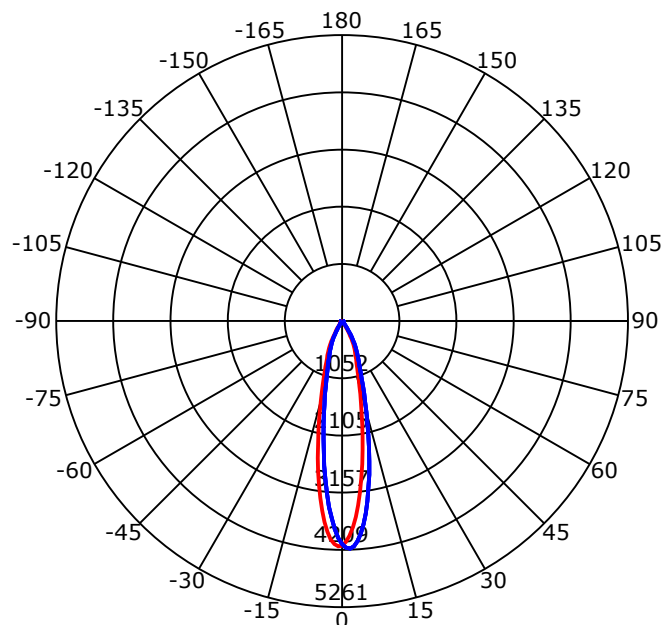
CIE Class: Direct
Luminaire Luminous Flux: 1088.274 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.14 lm/W
Beam Angle(50%) C0-180,C90-270: 22.5,22.7
Field Angle(10%) C0-180,C90-270: 55.2,55.2
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4209.00 cd
Max.Intensity Angle: C=315 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4132.25 cd
Effective Luminous Flux: 893.66 lm
ERP(ϕ use)(120deg): 1060.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.5 deg,22.7 deg

C0-180 — C90-270 —

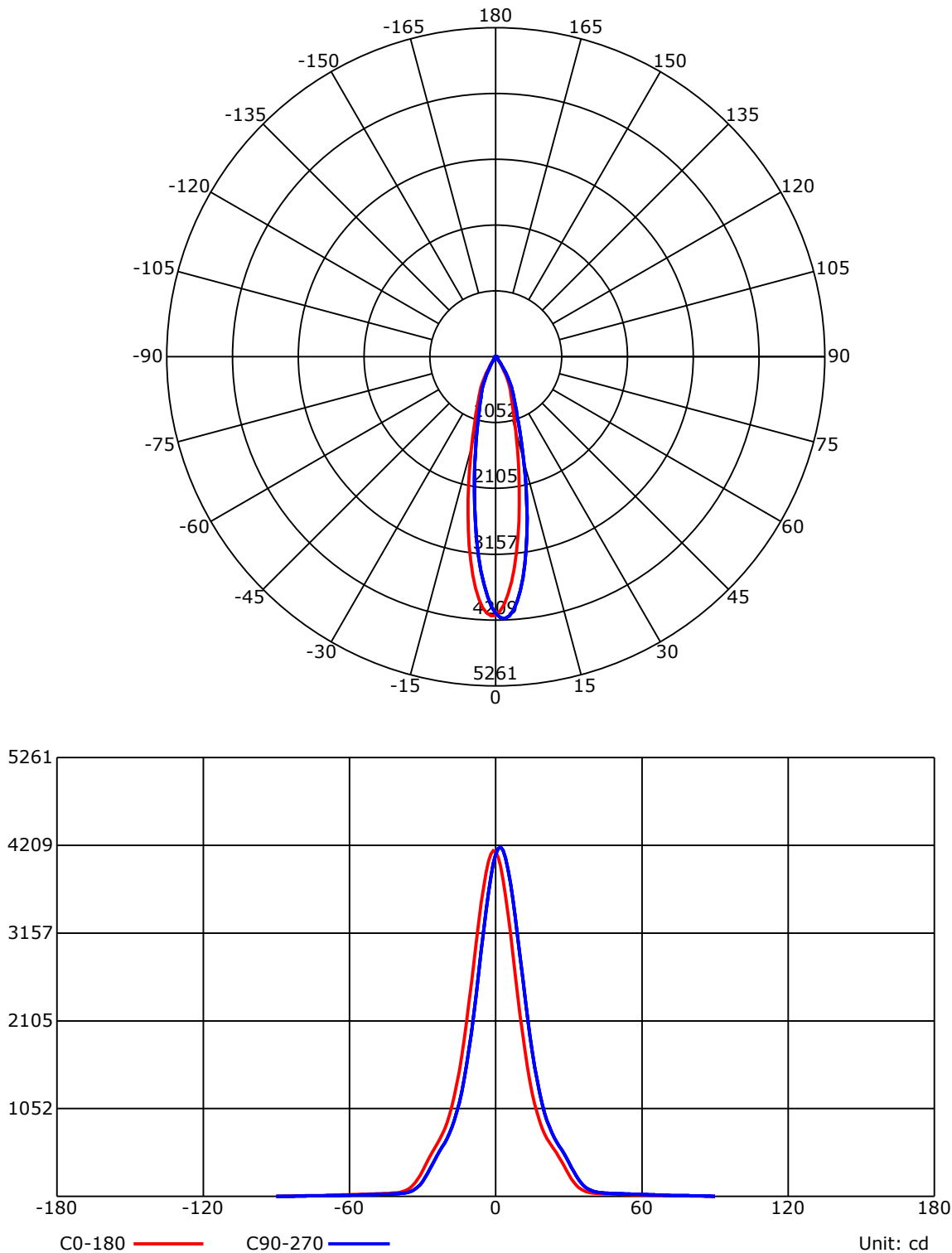
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/16 17:26:22

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



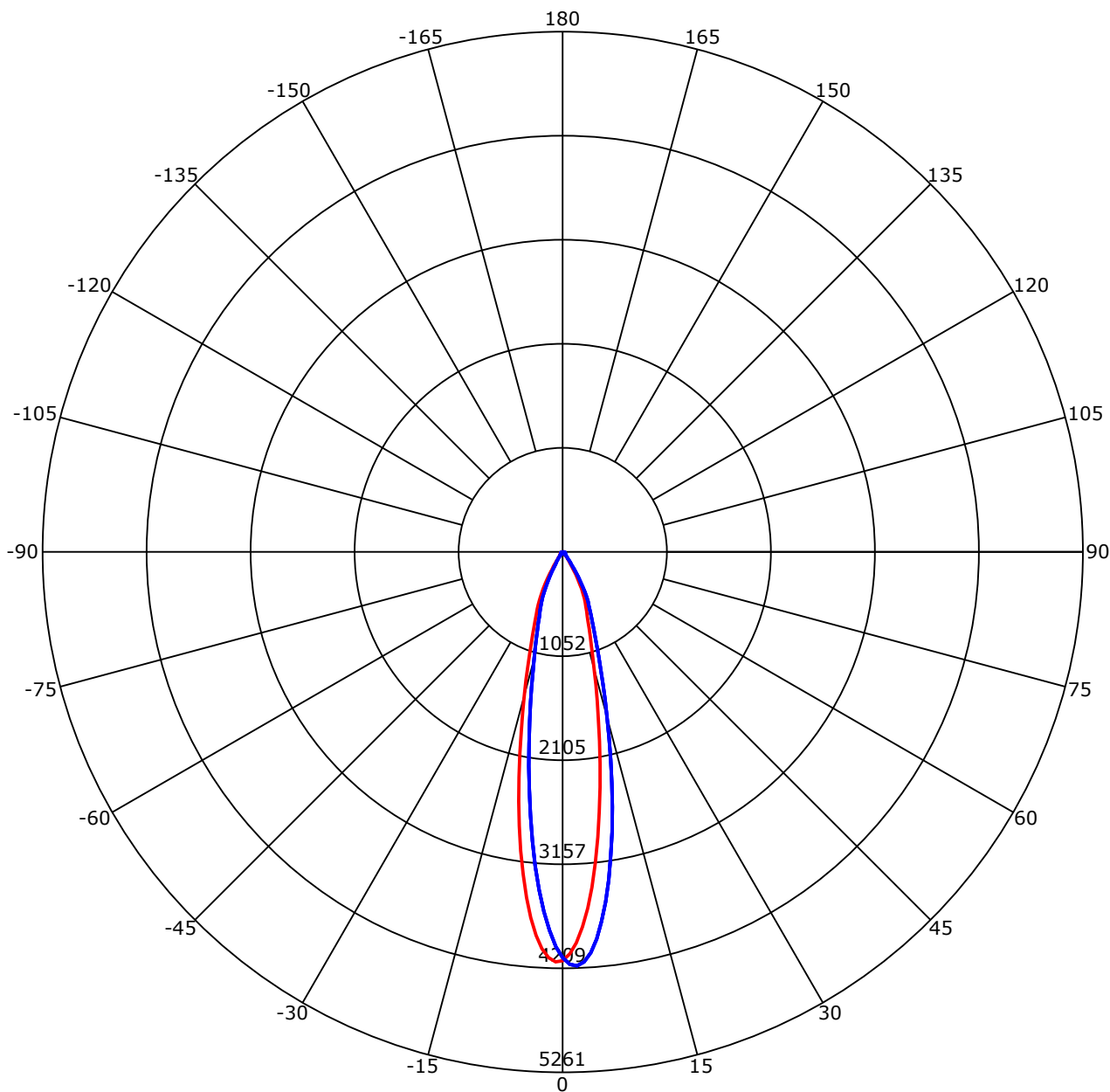
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

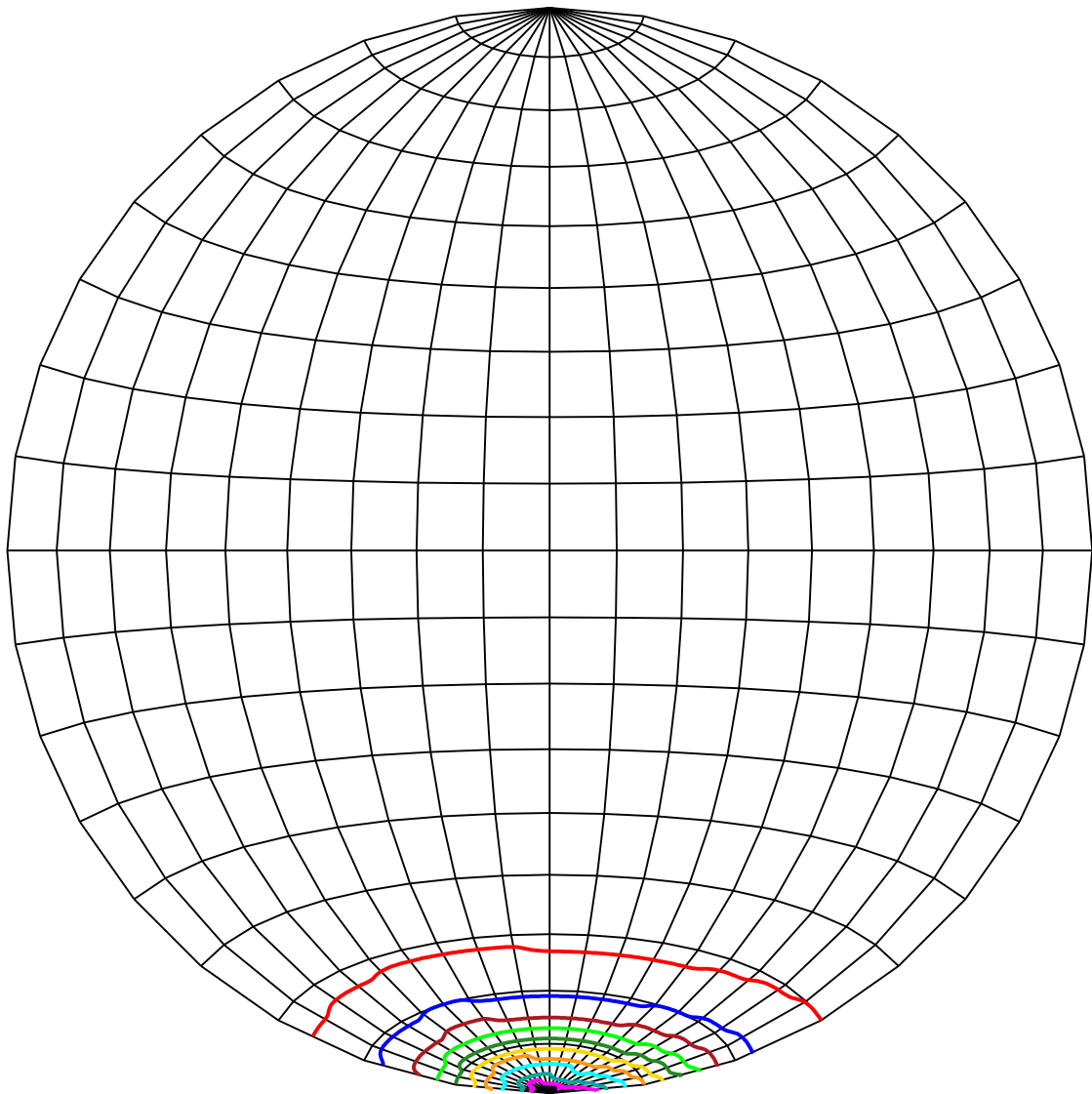
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 4209.002 cd

3998.552(95%I _{max})	2104.501(50%I _{max})
3788.102(90%I _{max})	1683.601(40%I _{max})
3367.202(80%I _{max})	1262.701(30%I _{max})
2946.301(70%I _{max})	841.8(20%I _{max})
2525.401(60%I _{max})	420.9(10%I _{max})

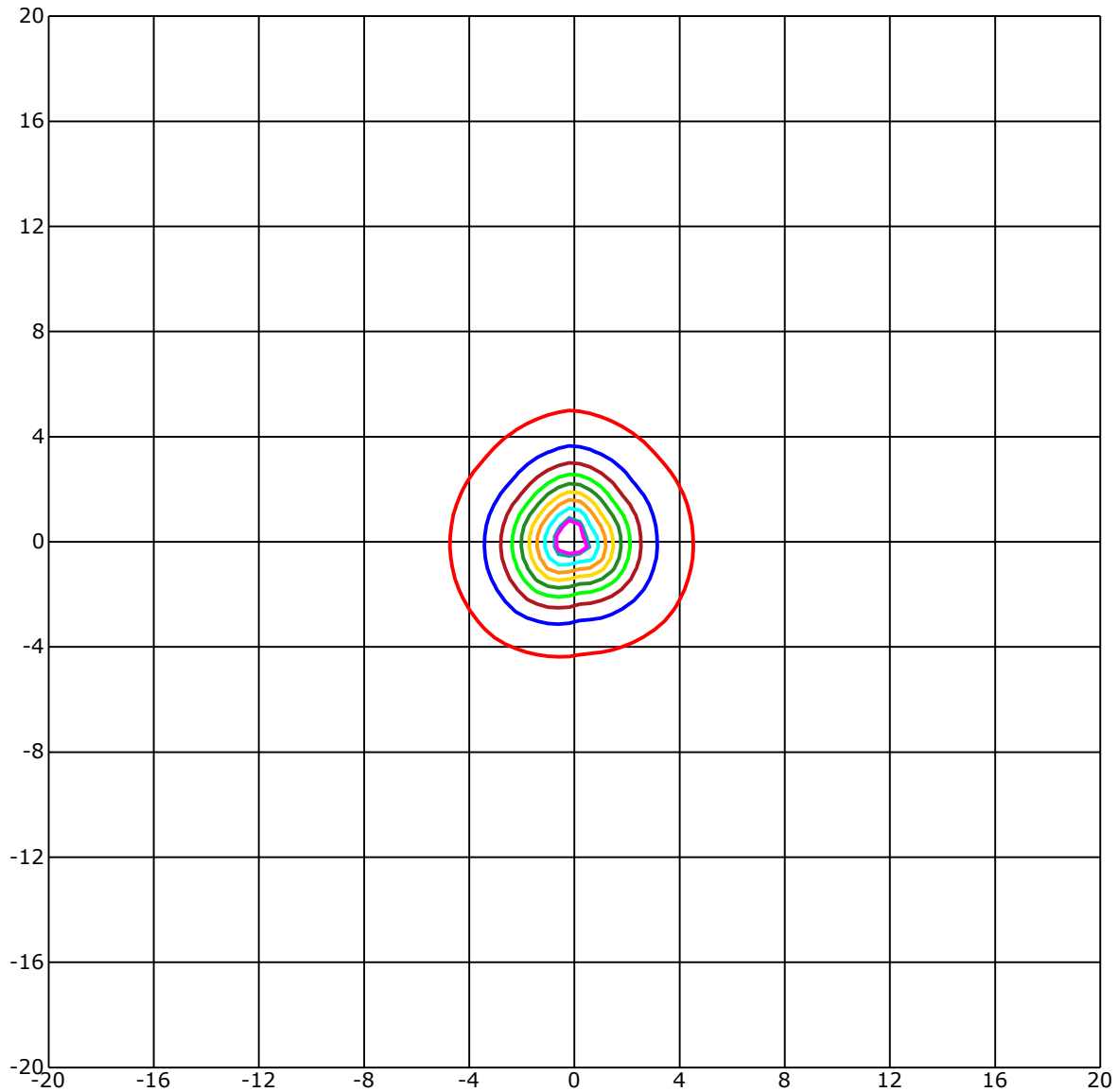
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ISOLX DIAGRAM



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

38.723(92%Emax)	21.045(50%Emax)
37.881(90%Emax)	16.836(40%Emax)
33.672(80%Emax)	12.627(30%Emax)
29.463(70%Emax)	8.418(20%Emax)
25.254(60%Emax)	4.209(10%Emax)

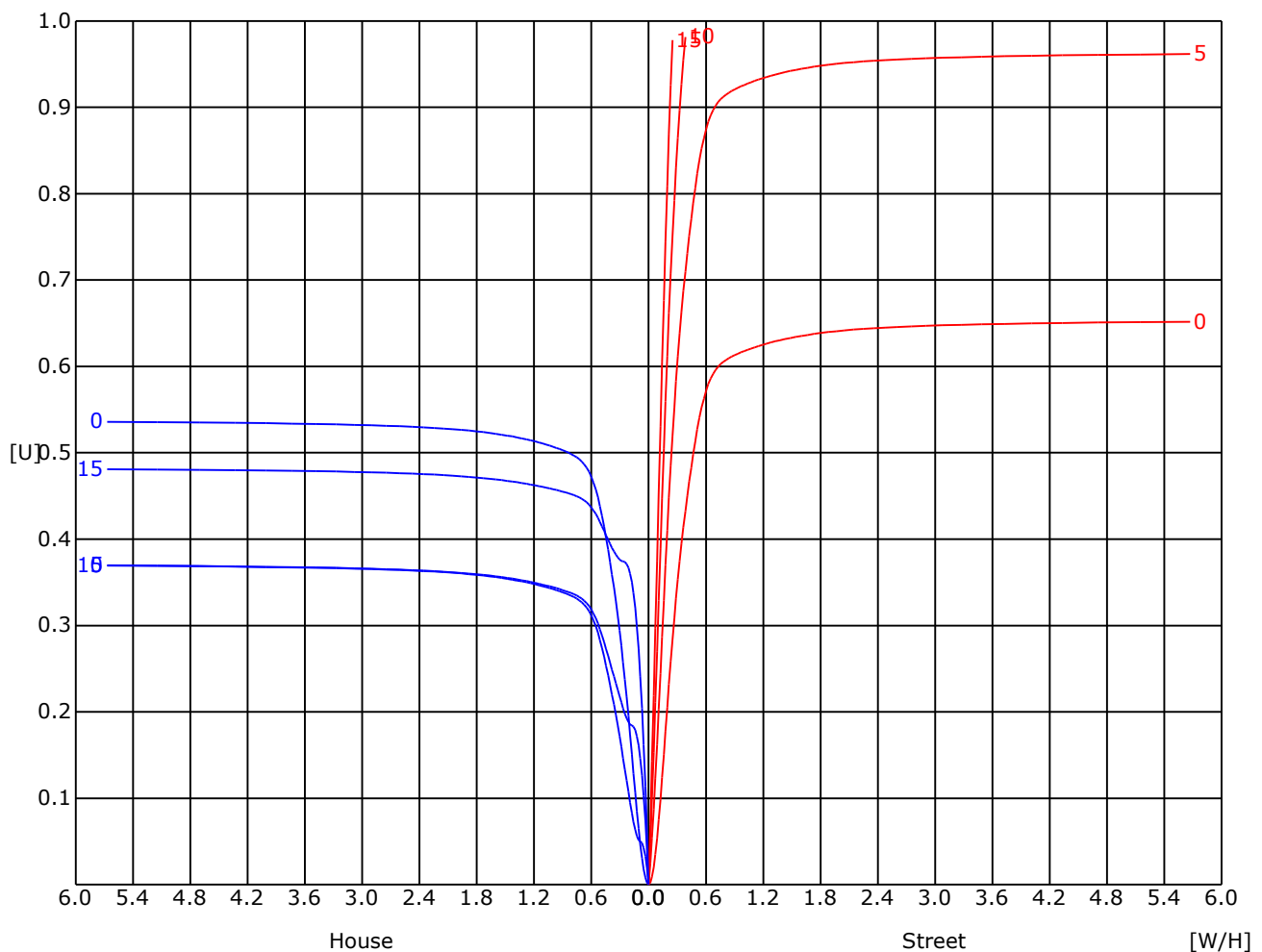
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UTILIZATION FACTOR DIAGRAM (ROAD)



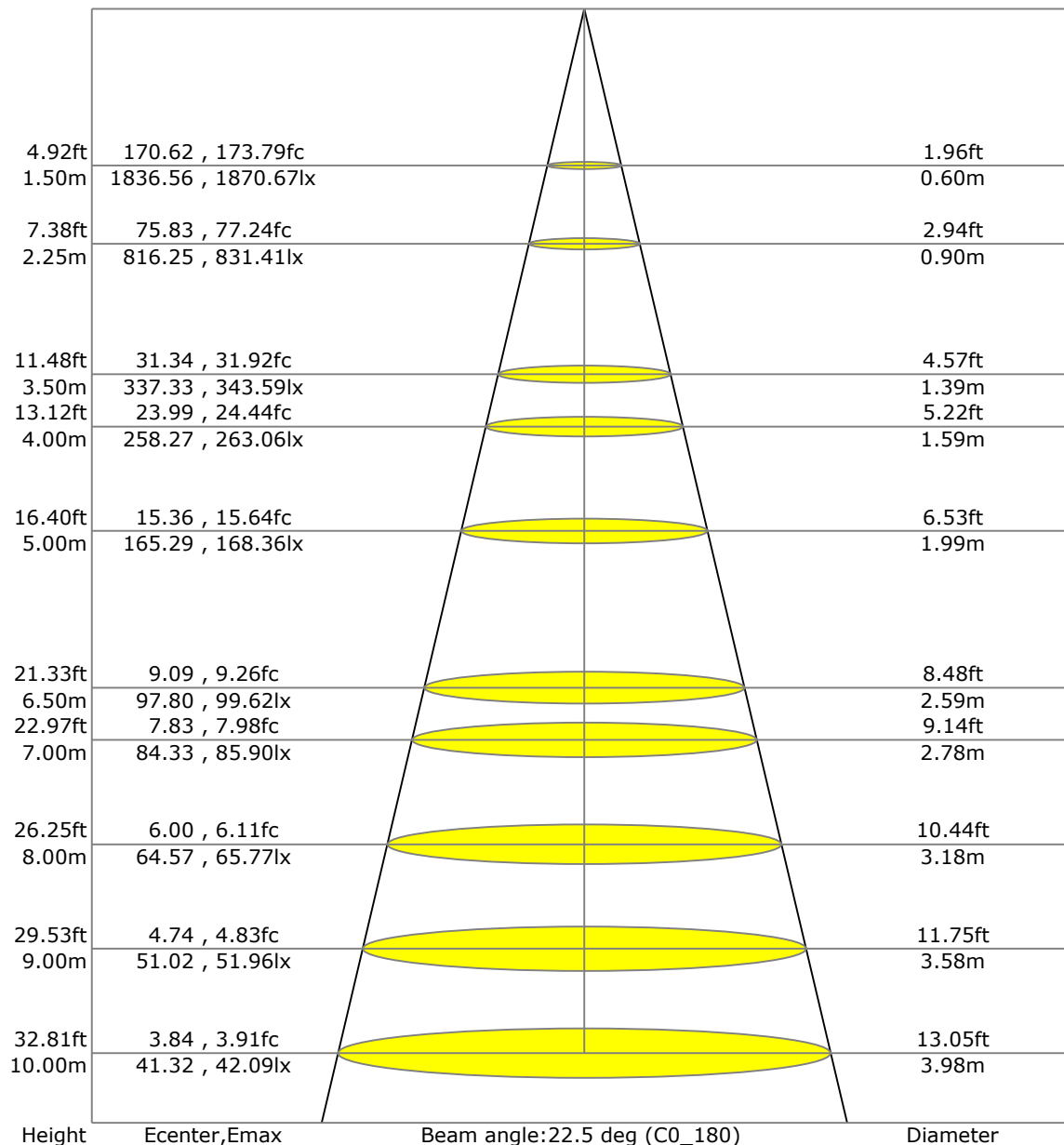
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LX-DISTANCE DIAGRAM



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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	9.82	9.88	10.02	10.07	10.31	10.20	10.26	10.40	10.45	10.69
3H	9.92	9.98	10.12	10.17	10.42	10.26	10.32	10.46	10.51	10.76
4H	9.93	9.99	10.15	10.19	10.44	10.26	10.32	10.47	10.52	10.77
6H	9.93	9.99	10.15	10.19	10.44	10.25	10.31	10.47	10.51	10.77
8H	9.92	9.98	10.14	10.19	10.44	10.24	10.31	10.46	10.51	10.76
12H	9.91	9.97	10.13	10.18	10.44	10.23	10.30	10.46	10.50	10.76
4H 2H	11.06	11.12	11.27	11.32	11.57	11.86	11.92	12.07	12.11	12.36
3H	11.31	11.38	11.54	11.58	11.84	12.06	12.12	12.28	12.32	12.58
4H	11.39	11.45	11.62	11.67	11.93	12.11	12.17	12.34	12.38	12.64
6H	11.43	11.49	11.67	11.71	11.98	12.12	12.18	12.36	12.40	12.67
8H	11.44	11.50	11.68	11.72	11.99	12.11	12.17	12.36	12.40	12.67
12H	11.43	11.49	11.68	11.72	11.99	12.10	12.16	12.35	12.39	12.66
8H 4H	11.53	11.59	11.75	11.79	12.05	12.61	12.67	12.83	12.87	13.13
6H	12.17	12.23	12.43	12.47	12.74	13.19	13.25	13.45	13.49	13.76
8H	12.20	12.26	12.47	12.51	12.78	13.20	13.26	13.47	13.50	13.78
12H	12.22	12.27	12.49	12.53	12.81	13.20	13.25	13.47	13.50	13.79
12H 4H	12.21	12.27	12.46	12.50	12.77	13.49	13.55	13.74	13.78	14.05
6H	12.35	12.41	12.61	12.65	12.93	13.62	13.68	13.88	13.92	14.20

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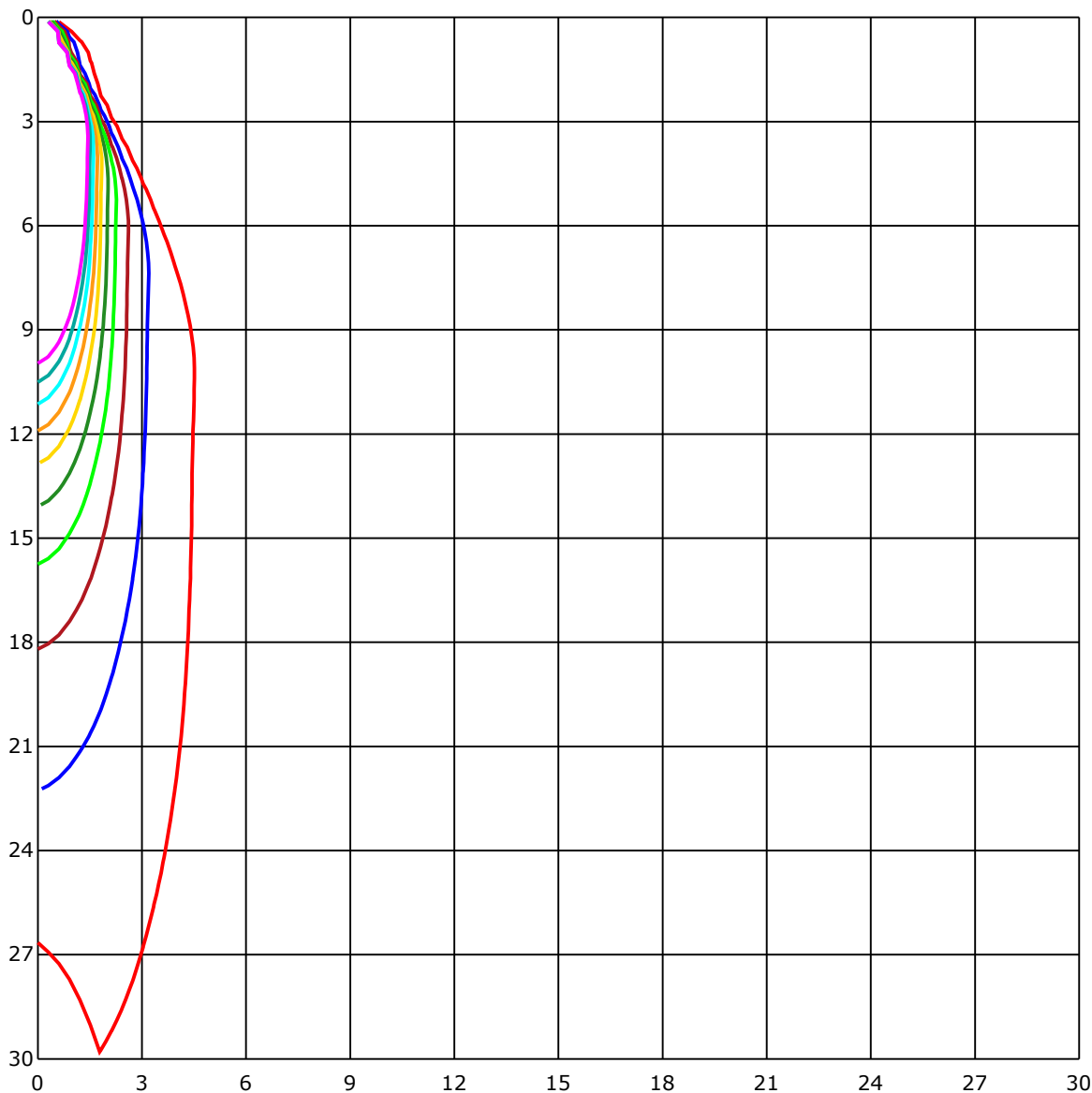
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|---|--|
| — 41.628 | — 20.814 |
| — 37.465 | — 16.651 |
| — 33.302 | — 12.488 |
| — 29.139 | — 8.326 |
| — 24.977 | — 4.163 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4132.25	4062.41	4101.27	4209.0	4132.25	4062.41	4101.27	4209.0	4132.25	
G1	4061.39	3990.94	4170.97	4202.56	4144.68	4080.4	3992.84	4165.41	4061.39	
G2	3953.7	3884.0	4186.6	4147.14	4103.08	4066.67	3827.65	4055.08	3953.7	
G3	3794.45	3733.46	4148.76	4047.2	4017.24	3976.89	3639.36	3915.91	3794.45	
G4	3609.41	3564.93	4059.63	3887.34	3884.6	3859.0	3425.66	3729.06	3609.41	
G5	3401.92	3345.85	3928.15	3693.53	3710.27	3695.29	3190.07	3524.86	3401.92	
G6	3159.23	3123.2	3758.27	3478.3	3512.53	3510.53	2935.38	3277.07	3159.23	
G7	2905.32	2889.42	3563.26	3236.91	3282.04	3296.09	2677.66	3033.32	2905.32	
G8	2654.75	2648.4	3346.96	2985.23	3052.06	3065.14	2424.59	2775.38	2654.75	
G9	2407.43	2412.81	3109.29	2731.97	2803.02	2831.96	2191.64	2515.35	2407.43	
G10	2170.96	2187.65	2874.9	2479.68	2558.94	2595.21	1965.47	2267.56	2170.96	
G11	1947.66	1969.73	2624.19	2240.24	2320.99	2355.07	1756.82	2031.13	1947.66	
G12	1740.17	1771.01	2382.11	2004.38	2085.21	2125.51	1567.98	1813.07	1740.17	
G13	1547.9	1583.28	2151.16	1791.79	1871.18	1913.71	1400.23	1619.55	1547.9	
G14	1379.78	1418.32	1931.7	1593.16	1677.52	1720.18	1248.4	1445.17	1379.78	
G15	1233.05	1270.06	1734.28	1421.01	1499.76	1540.8	1120.96	1287.08	1233.05	
G16	1107.32	1139.74	1551.98	1262.03	1344.12	1382.56	1008.31	1152.17	1107.32	
G17	995.69	1027.28	1389.24	1126.89	1202.86	1242.23	911.06	1038.59	995.69	
G18	900.21	930.26	1240.93	1008.54	1082.84	1115.53	828.51	939.53	900.21	
G19	818.58	845.81	1114.09	910.27	977.1	1004.09	756.95	854.62	818.58	
G20	751.48	774.71	1004.37	829.95	886.2	910.5	692.72	781.21	751.48	
G21	694.11	712.01	911.66	757.65	807.78	826.19	640.55	721.94	694.11	
G22	645.46	657.57	833.38	698.98	743.36	758.48	591.67	671.2	645.46	
G23	600.71	609.2	764.0	646.95	684.28	695.18	544.46	624.27	600.71	
G24	561.34	566.02	704.82	599.64	633.64	639.29	493.44	581.42	561.34	
G25	518.3	521.13	653.76	555.86	584.34	589.63	439.88	537.04	518.3	
G26	469.79	471.6	606.18	510.46	534.11	536.71	384.88	487.0	469.79	
G27	418.87	420.12	561.57	460.61	478.65	478.69	329.46	435.47	418.87	
G28	365.4	367.9	514.45	404.86	422.95	422.3	275.47	380.33	365.4	
G29	311.37	315.13	463.2	347.87	365.26	364.7	225.16	326.35	311.37	
G30	260.73	265.04	407.27	292.63	308.31	309.47	180.12	272.69	260.73	
G31	211.38	218.62	351.11	241.62	254.79	256.97	142.1	223.95	211.38	
G32	169.13	177.34	296.71	195.1	207.53	209.99	111.91	179.8	169.13	
G33	134.63	142.79	246.35	154.9	166.35	169.64	89.23	142.7	134.63	
G34	107.41	114.41	201.04	122.2	133.24	136.95	71.42	113.9	107.41	
G35	86.12	92.57	162.36	95.81	106.25	109.82	58.29	91.22	86.12	
G36	69.8	75.41	130.73	76.15	85.98	89.13	48.46	74.9	69.8	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	57.14	62.0	105.69	61.26	70.54	73.41	41.97	63.16	57.14	
G38	48.23	52.31	86.96	50.69	59.83	61.87	37.66	54.86	48.23	
G39	42.39	45.03	72.67	43.64	52.13	53.52	34.97	49.72	42.39	
G40	38.58	40.21	62.24	39.0	46.89	47.44	32.79	45.45	38.58	
G41	36.03	36.87	54.58	36.17	43.32	43.64	31.21	42.76	36.03	
G42	34.27	34.69	49.11	34.27	41.04	40.9	29.82	40.58	34.27	
G43	32.65	33.02	45.03	32.74	38.86	38.82	28.8	38.72	32.65	
G44	31.58	31.77	42.39	31.4	37.38	36.96	27.78	37.05	31.58	
G45	30.42	30.61	40.39	30.28	35.8	35.48	27.04	35.8	30.42	
G46	29.36	29.63	38.77	29.54	34.46	34.36	25.97	34.36	29.36	
G47	28.38	28.52	37.24	28.66	33.3	32.83	25.27	33.3	28.38	
G48	27.59	27.83	35.9	27.59	32.37	31.81	24.44	32.0	27.59	
G49	26.67	27.04	34.78	26.94	31.26	30.84	23.56	30.84	26.67	
G50	25.97	26.16	33.67	26.2	30.24	29.59	22.91	29.59	25.97	
G51	25.04	25.55	32.65	25.41	29.22	28.61	22.08	28.8	25.04	
G52	24.25	24.72	31.54	24.67	28.38	27.55	21.29	27.96	24.25	
G53	23.42	23.84	30.42	24.02	27.45	26.71	20.73	27.04	23.42	
G54	22.82	23.1	29.54	23.14	26.67	25.97	19.8	26.2	22.82	
G55	21.98	22.31	28.75	22.49	25.6	25.09	19.15	25.18	21.98	
G56	21.24	21.66	27.73	21.7	24.81	24.07	18.32	24.35	21.24	
G57	20.45	20.78	26.81	20.96	23.84	23.23	17.62	23.61	20.45	
G58	19.76	19.94	26.11	20.08	23.23	22.4	16.83	22.54	19.76	
G59	18.78	19.15	25.14	19.48	22.17	21.56	16.19	21.7	18.78	
G60	17.85	18.36	24.25	18.5	21.38	20.73	15.12	20.73	17.85	
G61	17.16	17.48	23.19	17.9	20.41	19.76	14.38	19.8	17.16	
G62	16.14	16.42	22.35	16.97	19.66	18.88	13.59	18.83	16.14	
G63	15.07	15.26	21.24	16.14	18.6	18.04	12.75	17.81	15.07	
G64	14.05	14.28	20.13	15.03	17.62	17.16	11.83	16.6	14.05	
G65	13.08	13.36	19.06	14.14	16.56	16.19	10.67	15.72	13.08	
G66	11.92	12.06	18.04	13.12	15.63	15.35	9.88	14.42	11.92	
G67	10.48	10.57	16.79	11.73	14.38	14.1	9.37	13.22	10.48	
G68	9.88	9.74	15.44	10.48	13.12	13.22	9.0	12.43	9.88	
G69	9.41	9.32	13.96	10.02	12.52	12.52	8.81	12.06	9.41	
G70	9.14	9.28	12.85	9.37	12.15	12.06	8.44	11.59	9.14	
G71	8.72	8.81	12.43	9.37	11.69	11.64	8.12	11.13	8.72	
G72	8.53	8.35	11.92	8.95	11.36	11.18	7.79	10.76	8.53	
G73	8.25	8.07	11.59	8.67	10.9	10.85	7.37	10.34	8.25	

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