

Report No.:

Test Time: 2024/8/19 11:38:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042PIN-36°-7.5W
Lamp Type:
Luminous Width: 14 mm
Luminous Length: 14 mm
Luminous Height: 47 mm

Voltage(V): 220.40 V
Current(A): 0.0640 A
Power(W): 7.54 W
Power Factor: 0.5320
Lamp Luminous Flux: 318.70

Photometric Results

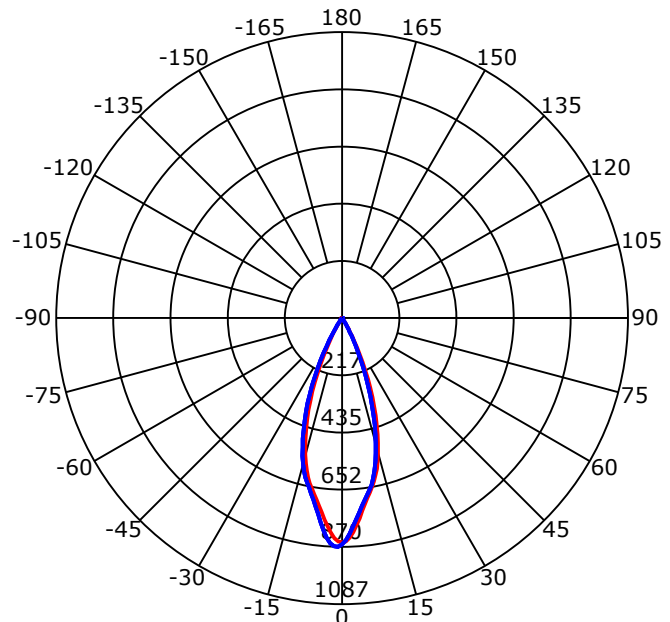
CIE Class: Direct
Luminaire Luminous Flux: 318.7049 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 42.27 lm/W
Beam Angle(50%) C0-180,C90-270: 36.4,36.1
Field Angle(10%) C0-180,C90-270: 57.8,57.9
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 869.51 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 853.03 cd
Effective Luminous Flux: 300.73 lm
ERP(ϕ use)(120deg): 318.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.4 deg,36.1 deg

C0-180 — C90-270 —

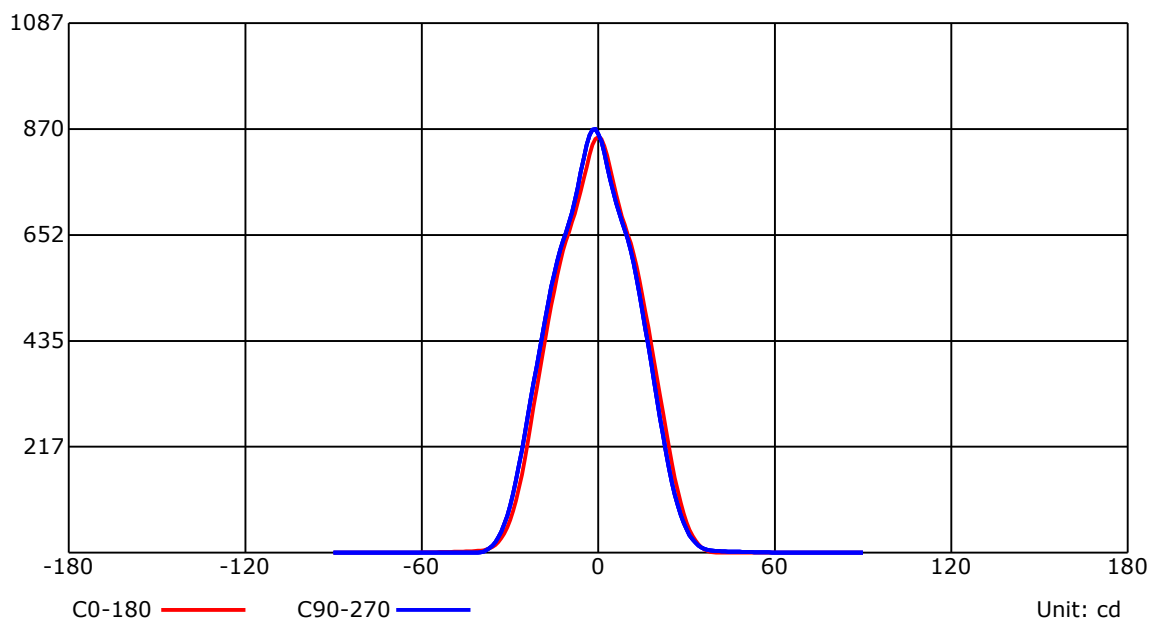
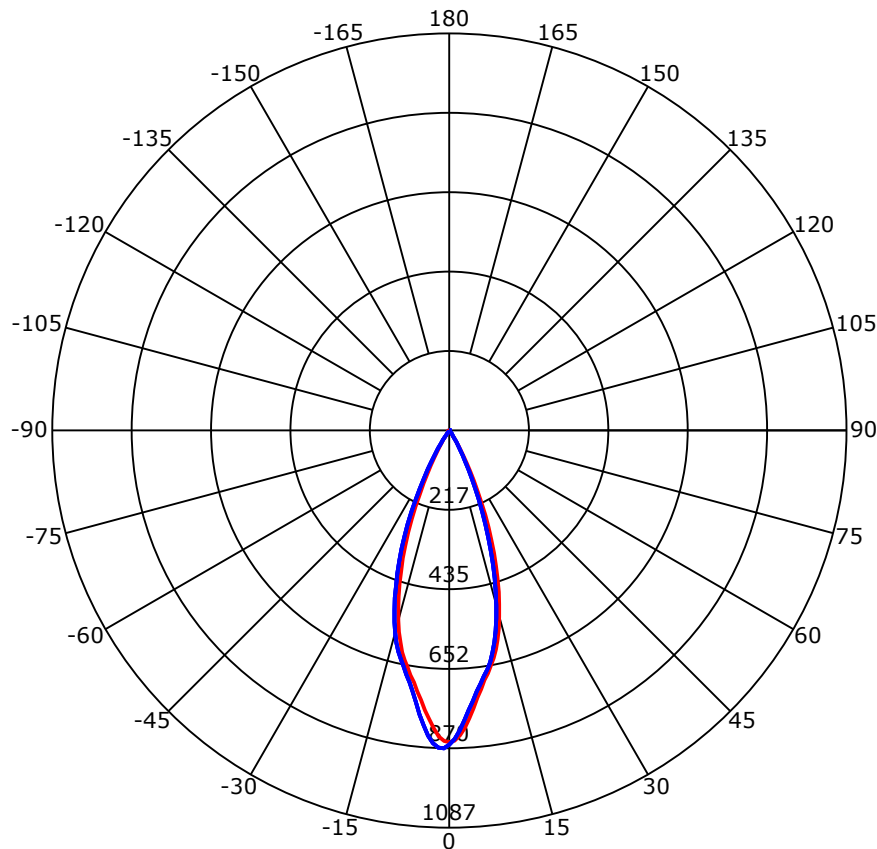
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 11:38:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



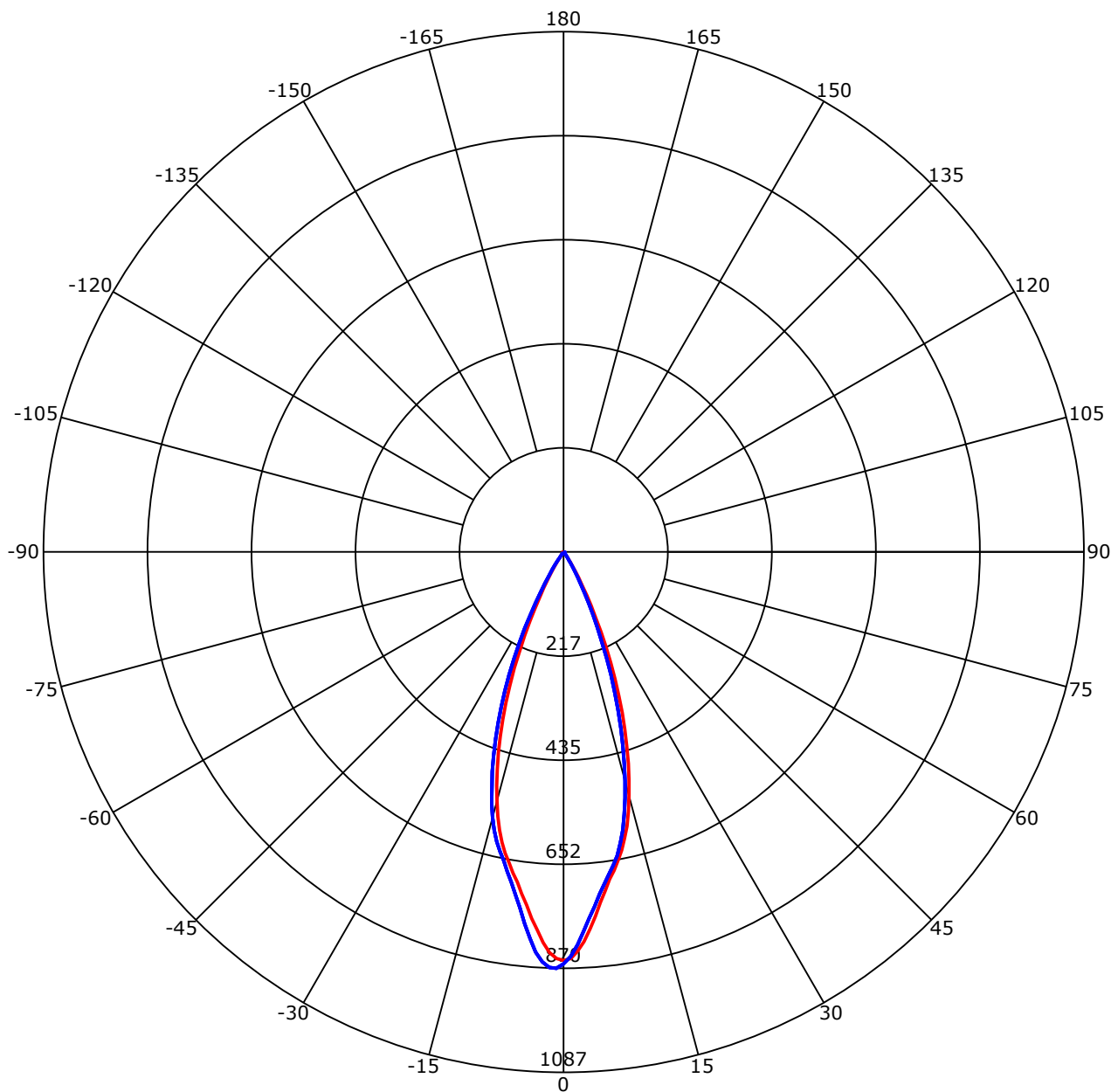
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

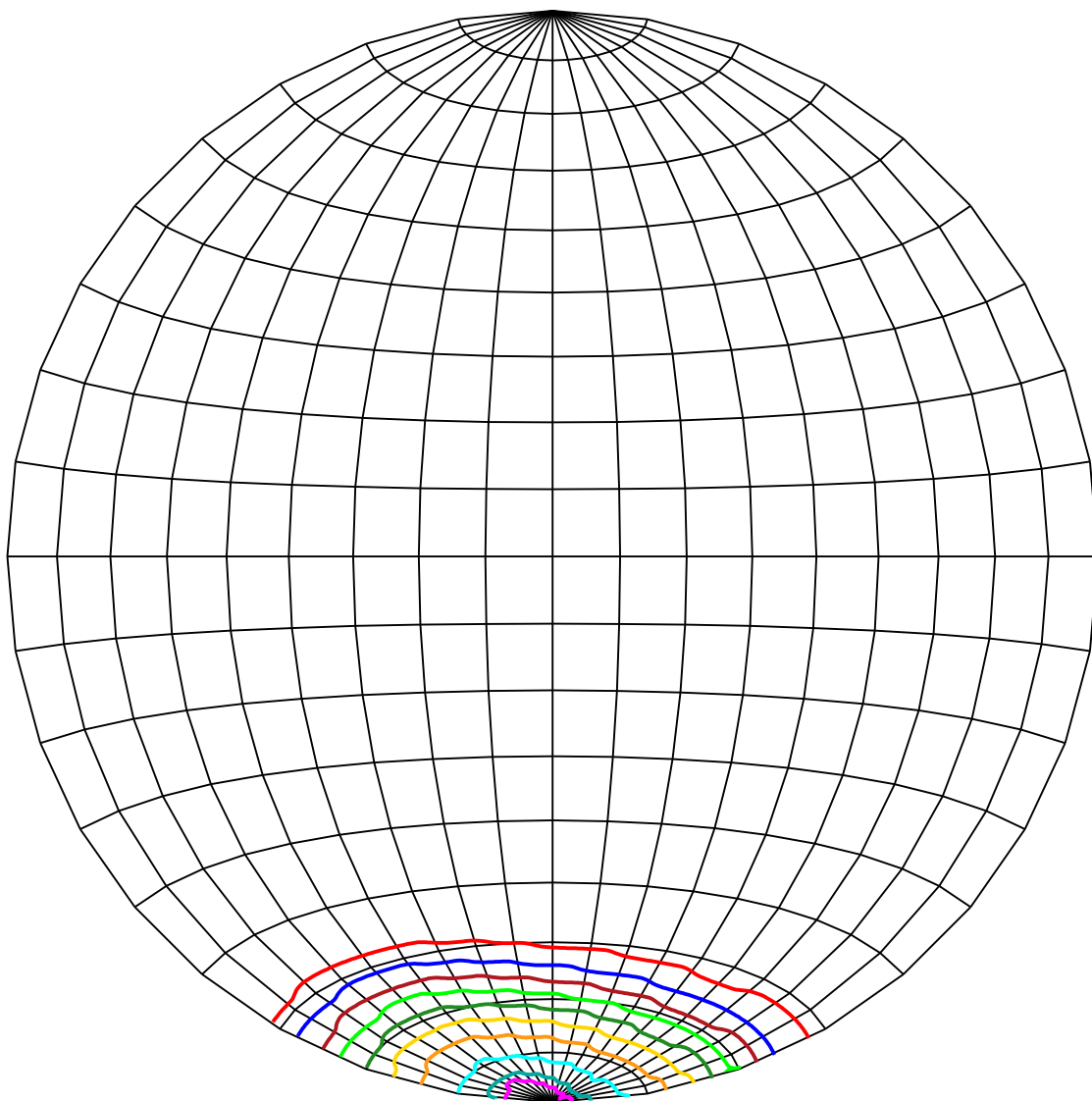
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 869.505 cd

826.03(95%I _{max})	434.753(50%I _{max})
782.555(90%I _{max})	347.802(40%I _{max})
695.604(80%I _{max})	260.852(30%I _{max})
608.654(70%I _{max})	173.901(20%I _{max})
521.703(60%I _{max})	86.951(10%I _{max})

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Humidity: 60

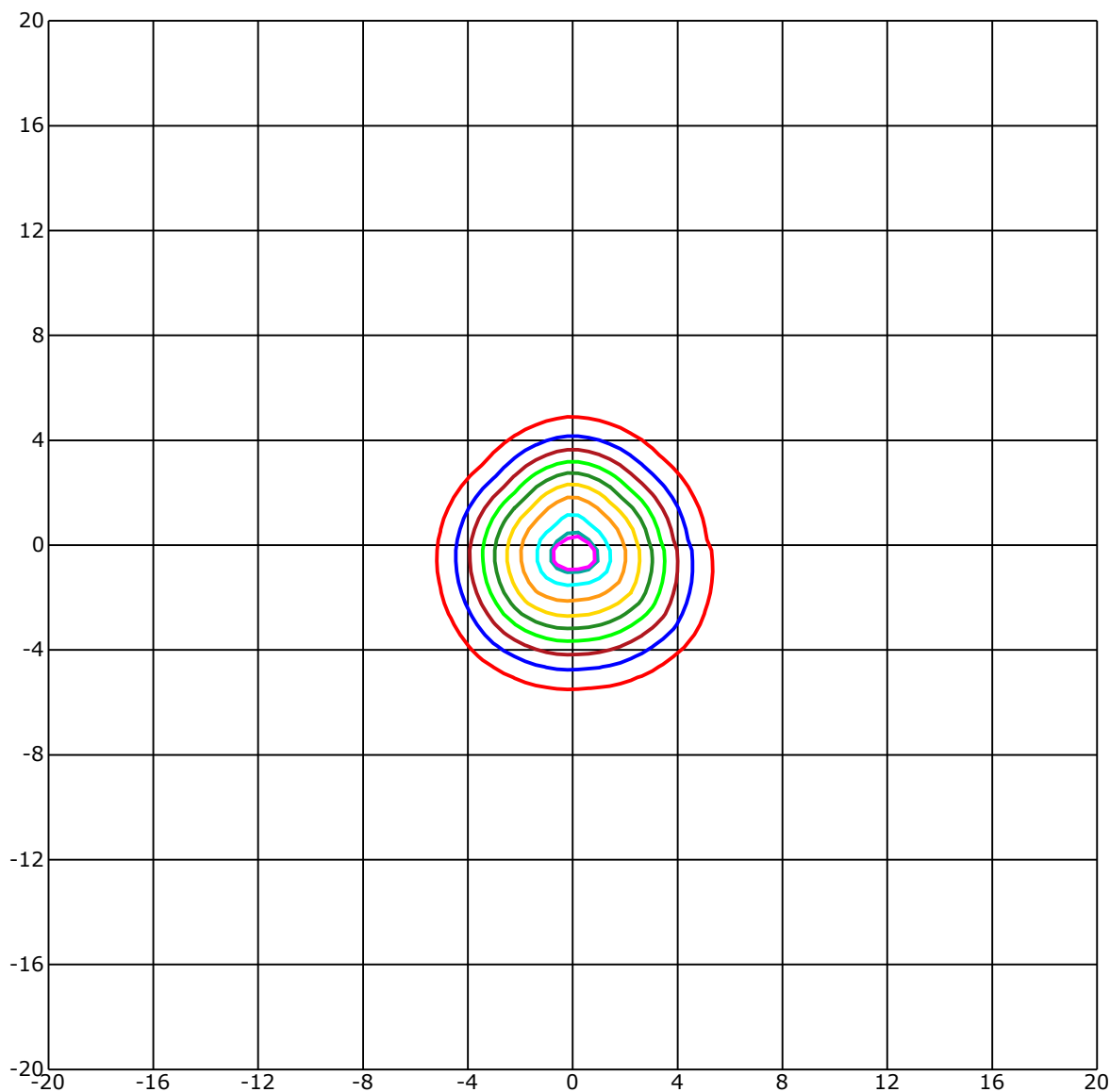
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ISOLX DIAGRAM



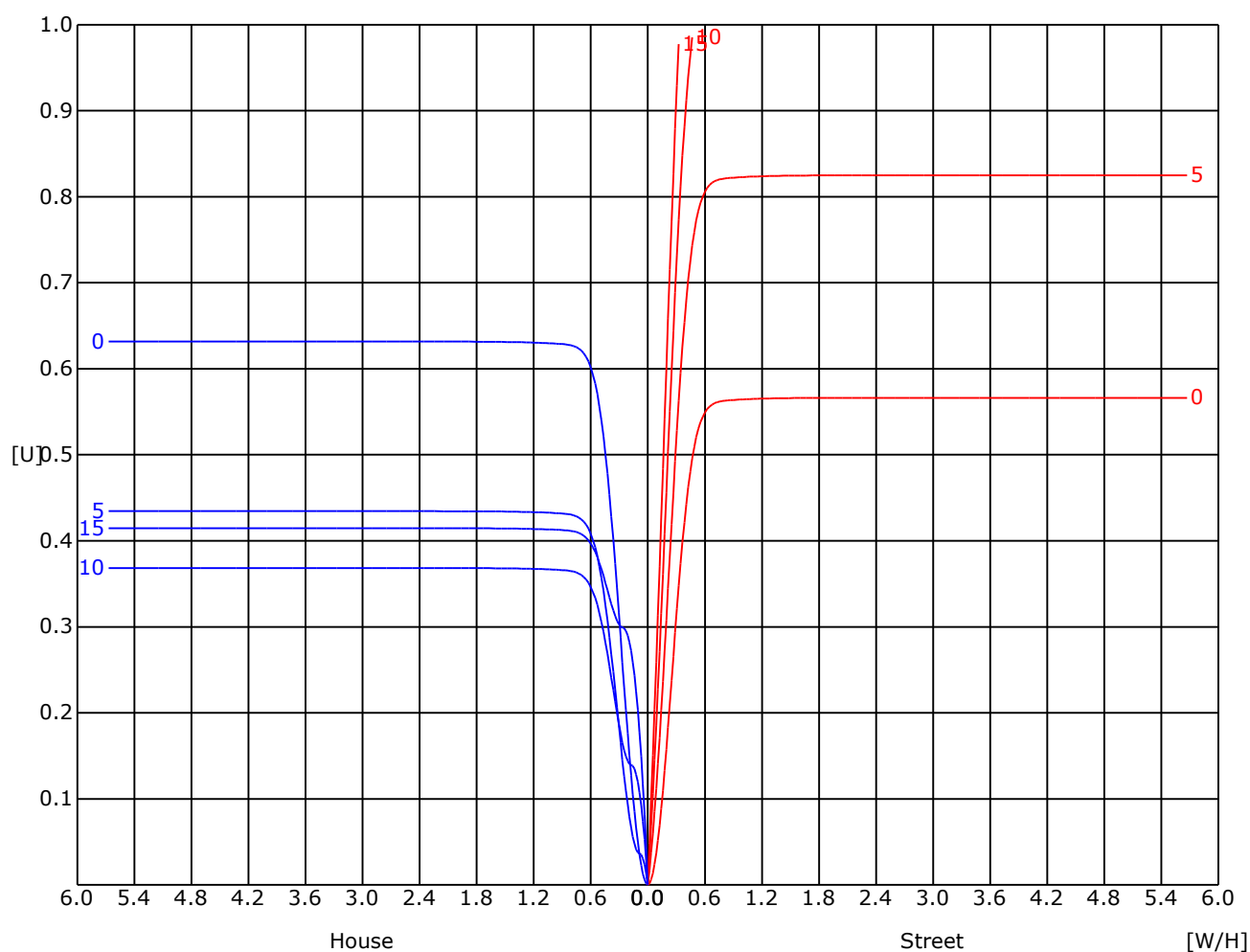
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UTILIZATION FACTOR DIAGRAM (ROAD)



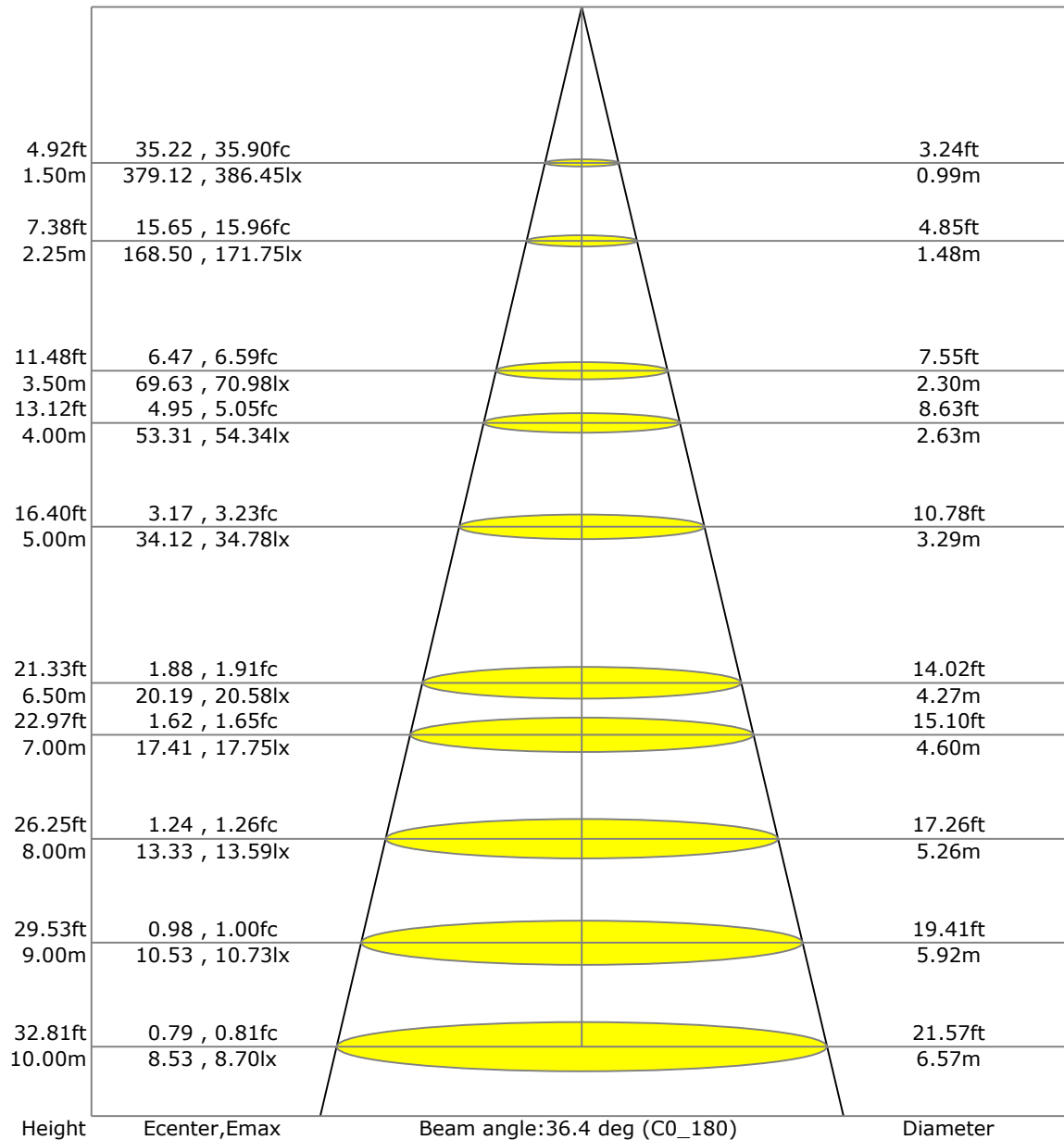
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LX-DISTANCE DIAGRAM



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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	3.60	3.65	3.80	3.83	4.08	4.24	4.29	4.44	4.48	4.72
3H	3.58	3.63	3.78	3.82	4.06	4.22	4.27	4.43	4.46	4.71
4H	3.56	3.61	3.77	3.81	4.06	4.21	4.26	4.42	4.46	4.70
6H	3.55	3.60	3.76	3.80	4.05	4.19	4.25	4.41	4.45	4.70
8H	3.54	3.59	3.76	3.80	4.05	4.19	4.24	4.41	4.44	4.70
12H	3.53	3.59	3.76	3.79	4.05	4.18	4.23	4.40	4.44	4.69
4H 2H	3.56	3.61	3.77	3.81	4.06	4.21	4.26	4.42	4.46	4.71
3H	3.53	3.59	3.76	3.79	4.05	4.18	4.23	4.40	4.44	4.69
4H	3.52	3.57	3.75	3.78	4.04	4.16	4.22	4.39	4.43	4.69
6H	3.50	3.55	3.73	3.77	4.03	4.14	4.20	4.38	4.42	4.68
8H	3.49	3.54	3.73	3.76	4.03	4.13	4.18	4.37	4.41	4.68
12H	3.47	3.52	3.72	3.76	4.02	4.12	4.17	4.37	4.40	4.67
8H 4H	3.54	3.59	3.76	3.80	4.05	4.19	4.24	4.41	4.44	4.70
6H	3.46	3.51	3.72	3.75	4.02	4.11	4.16	4.36	4.39	4.67
8H	3.45	3.49	3.71	3.74	4.02	4.09	4.14	4.36	4.39	4.66
12H	3.43	3.48	3.70	3.73	4.01	4.08	4.12	4.35	4.38	4.66
12H 4H	3.47	3.52	3.72	3.76	4.02	4.12	4.17	4.37	4.40	4.67
6H	3.45	3.49	3.71	3.74	4.02	4.09	4.14	4.36	4.39	4.66

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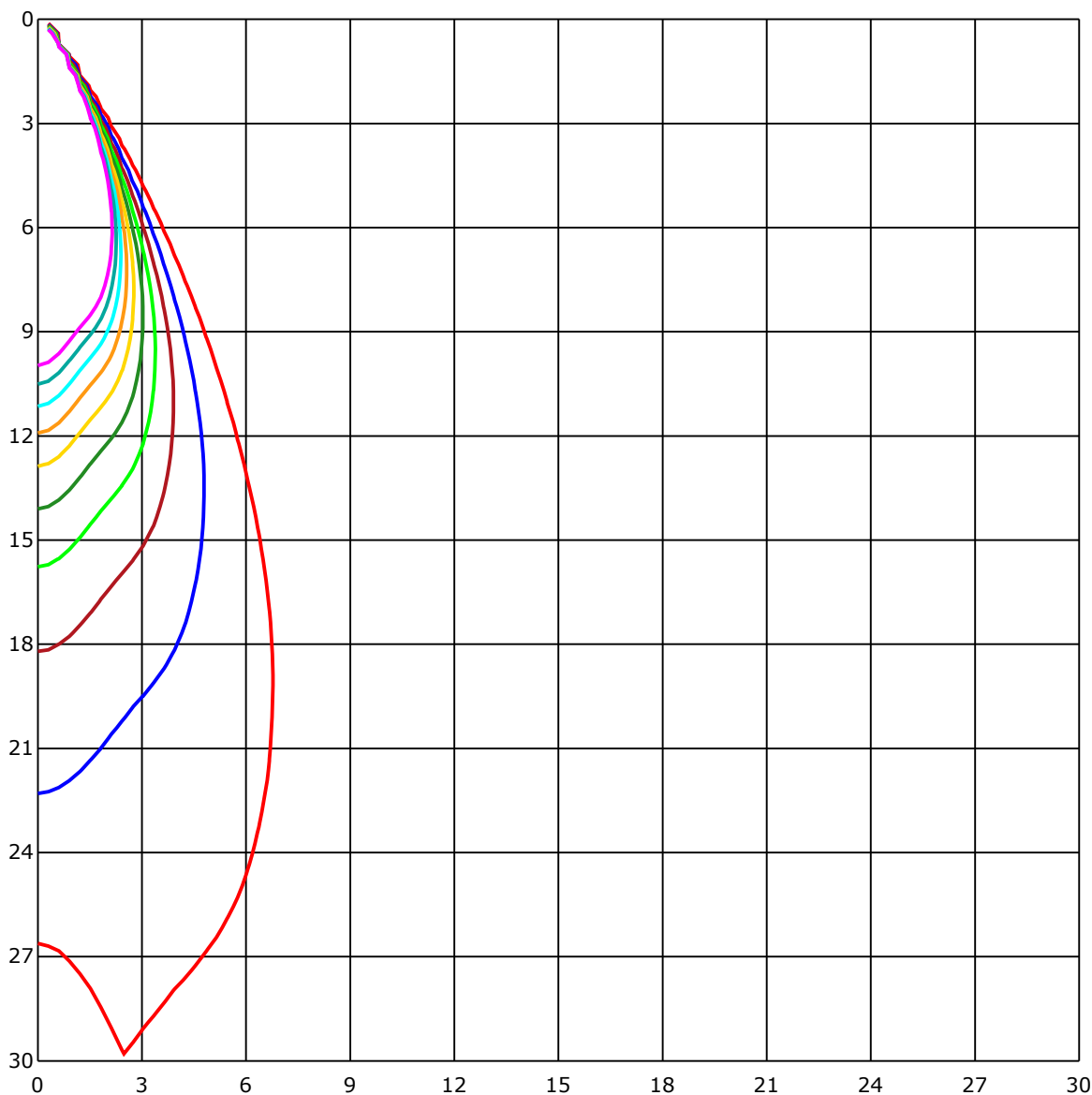
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

8.581	4.29
7.723	3.432
6.865	2.574
6.007	1.716
5.149	0.858

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	853.03	842.04	860.01	834.07	853.03	842.04	860.01	834.07	853.03	
G1	848.88	822.86	844.47	809.17	849.38	857.12	869.51	851.23	848.88	
G2	834.43	794.0	821.01	783.69	837.54	859.74	868.2	861.36	834.43	
G3	814.85	766.45	792.83	755.28	816.83	854.96	857.12	861.94	814.85	
G4	789.18	738.13	766.22	732.86	791.48	840.46	837.45	854.83	789.18	
G5	763.52	713.05	743.08	708.59	768.52	819.89	810.07	835.15	763.52	
G6	735.74	692.43	717.82	690.17	741.23	794.5	781.03	810.93	735.74	
G7	712.82	672.93	698.41	669.51	718.94	768.83	749.16	782.07	712.82	
G8	689.77	652.44	679.55	653.16	696.34	741.46	722.73	753.21	689.77	
G9	673.07	634.39	661.99	631.69	678.74	718.36	698.19	725.07	673.07	
G10	653.66	612.55	643.93	608.28	658.48	697.87	678.15	700.98	653.66	
G11	634.7	585.85	619.17	580.45	640.47	678.69	656.9	678.69	634.7	
G12	612.01	556.63	593.01	549.88	620.39	660.95	640.11	661.76	612.01	
G13	587.88	525.79	561.9	516.29	595.58	642.81	620.97	642.4	587.88	
G14	558.61	491.53	529.71	483.24	569.01	620.39	598.96	625.88	558.61	
G15	527.14	457.04	495.13	447.09	538.58	597.42	573.25	603.68	527.14	
G16	494.81	422.42	459.25	411.97	507.15	568.97	545.47	580.36	494.81	
G17	462.17	389.28	423.23	375.01	475.14	538.58	513.36	551.86	462.17	
G18	426.06	353.3	386.98	337.5	440.56	505.53	481.98	522.19	426.06	
G19	391.48	317.15	349.12	300.31	406.12	472.21	448.89	492.2	391.48	
G20	357.27	282.48	312.47	264.02	371.45	437.32	415.84	459.56	357.27	
G21	322.69	248.89	275.64	228.05	336.83	403.15	382.48	428.54	322.69	
G22	285.81	215.26	239.35	193.69	300.54	368.03	349.07	396.17	285.81	
G23	251.5	183.79	204.77	162.31	263.35	332.77	315.35	362.76	251.5	
G24	217.15	154.48	173.07	133.5	226.74	296.62	280.73	330.3	217.15	
G25	184.19	127.6	144.26	107.07	192.61	260.01	245.34	294.77	184.19	
G26	153.22	103.29	119.0	85.14	160.47	224.31	211.21	259.61	153.22	
G27	126.47	83.16	96.13	65.92	132.15	190.77	178.93	225.17	126.47	
G28	102.07	64.97	77.08	50.38	106.8	159.61	148.89	192.43	102.07	
G29	80.55	49.93	61.28	36.96	85.82	131.16	121.2	161.64	80.55	
G30	61.95	36.96	47.86	26.47	67.27	105.9	96.8	132.87	61.95	
G31	46.55	26.83	35.84	18.46	51.78	84.78	75.64	107.92	46.55	
G32	34.67	18.73	27.19	12.25	39.04	65.92	58.08	86.13	34.67	
G33	24.9	12.52	20.4	7.52	29.49	51.42	43.0	67.54	24.9	
G34	17.2	7.79	14.9	4.28	21.7	38.68	31.43	52.36	17.2	
G35	11.39	4.64	10.85	2.07	15.89	28.91	21.79	39.35	11.39	
G36	6.89	2.16	8.06	0.77	11.71	21.48	14.86	29.54	6.89	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	3.96	0.72	6.26	0.0	8.6	15.8	9.09	21.7	3.96	
G38	1.71	0.0	4.95	0.0	6.44	11.53	5.18	15.76	1.71	
G39	0.54	0.0	4.19	0.0	5.09	8.6	2.43	11.35	0.54	
G40	0.0	0.0	3.78	0.0	4.32	6.35	0.81	8.51	0.0	
G41	0.0	0.0	3.42	0.0	3.87	5.0	0.0	6.3	0.0	
G42	0.0	0.0	3.06	0.0	3.69	4.14	0.0	4.95	0.0	
G43	0.0	0.0	2.84	0.0	3.11	3.56	0.0	4.14	0.0	
G44	0.0	0.0	2.43	0.0	2.7	3.24	0.0	3.6	0.0	
G45	0.0	0.0	2.25	0.0	2.66	3.02	0.0	3.24	0.0	
G46	0.0	0.0	2.12	0.0	2.3	2.61	0.0	2.88	0.0	
G47	0.0	0.0	1.98	0.0	2.16	2.34	0.0	2.52	0.0	
G48	0.0	0.0	1.85	0.0	1.94	2.07	0.0	2.39	0.0	
G49	0.0	0.0	1.58	0.0	1.85	1.98	0.0	2.03	0.0	
G50	0.0	0.0	1.44	0.0	1.8	1.94	0.0	1.94	0.0	
G51	0.0	0.0	1.26	0.0	1.67	1.89	0.0	1.58	0.0	
G52	0.0	0.0	1.22	0.0	1.58	1.67	0.0	1.44	0.0	
G53	0.0	0.0	0.9	0.0	1.44	1.62	0.0	1.35	0.0	
G54	0.0	0.0	0.9	0.0	1.17	1.4	0.0	1.35	0.0	
G55	0.0	0.0	0.72	0.0	1.08	1.22	0.0	1.17	0.0	
G56	0.0	0.0	0.77	0.0	0.86	1.04	0.0	1.17	0.0	
G57	0.0	0.0	0.68	0.0	0.86	0.99	0.0	0.81	0.0	
G58	0.0	0.0	0.59	0.0	0.77	0.86	0.0	0.68	0.0	
G59	0.0	0.0	0.41	0.0	0.68	0.77	0.0	0.68	0.0	
G60	0.0	0.0	0.32	0.0	0.54	0.63	0.0	0.5	0.0	
G61	0.0	0.0	0.23	0.0	0.45	0.59	0.0	0.41	0.0	
G62	0.0	0.0	0.18	0.0	0.27	0.36	0.0	0.32	0.0	
G63	0.0	0.0	0.11	0.0	0.23	0.36	0.0	0.23	0.0	
G64	0.0	0.0	0.05	0.0	0.2	0.36	0.0	0.23	0.0	
G65	0.0	0.0	0.0	0.0	0.18	0.23	0.0	0.05	0.0	
G66	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.05	0.0	
G67	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	
G68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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