

Report No.:

Test Time: 2024/5/18 15:27:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H94-24°-15W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

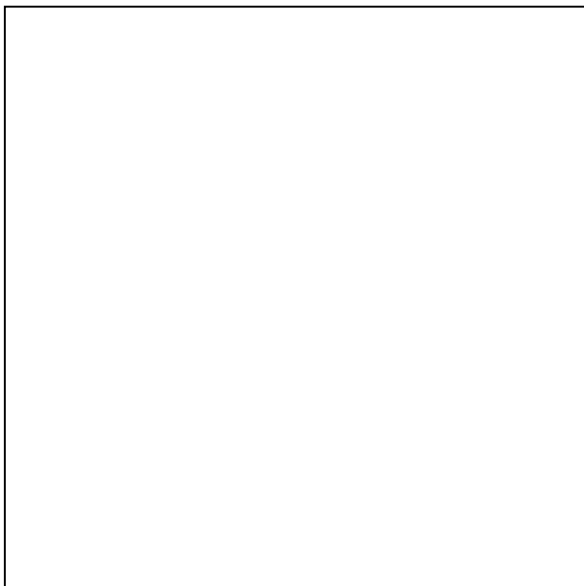
Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.72 W
Power Factor: 0.9500
Lamp Luminous Flux: 1537.96

Photometric Results

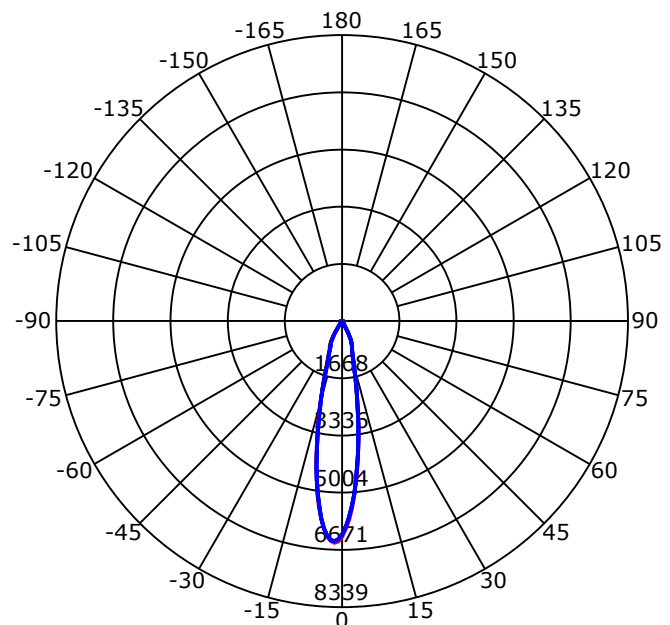
CIE Class: Direct
Luminaire Luminous Flux: 1537.961 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.48 lm/W
Beam Angle(50%) C0-180,C90-270: 21.2,21.2
Field Angle(10%) C0-180,C90-270: 53.3,52.9
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 6671.42 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6294.30 cd
Effective Luminous Flux: 1249.32 lm
ERP(ϕ use)(120deg): 1510.94 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.2 deg,21.2 deg

C0-180 — C90-270 —

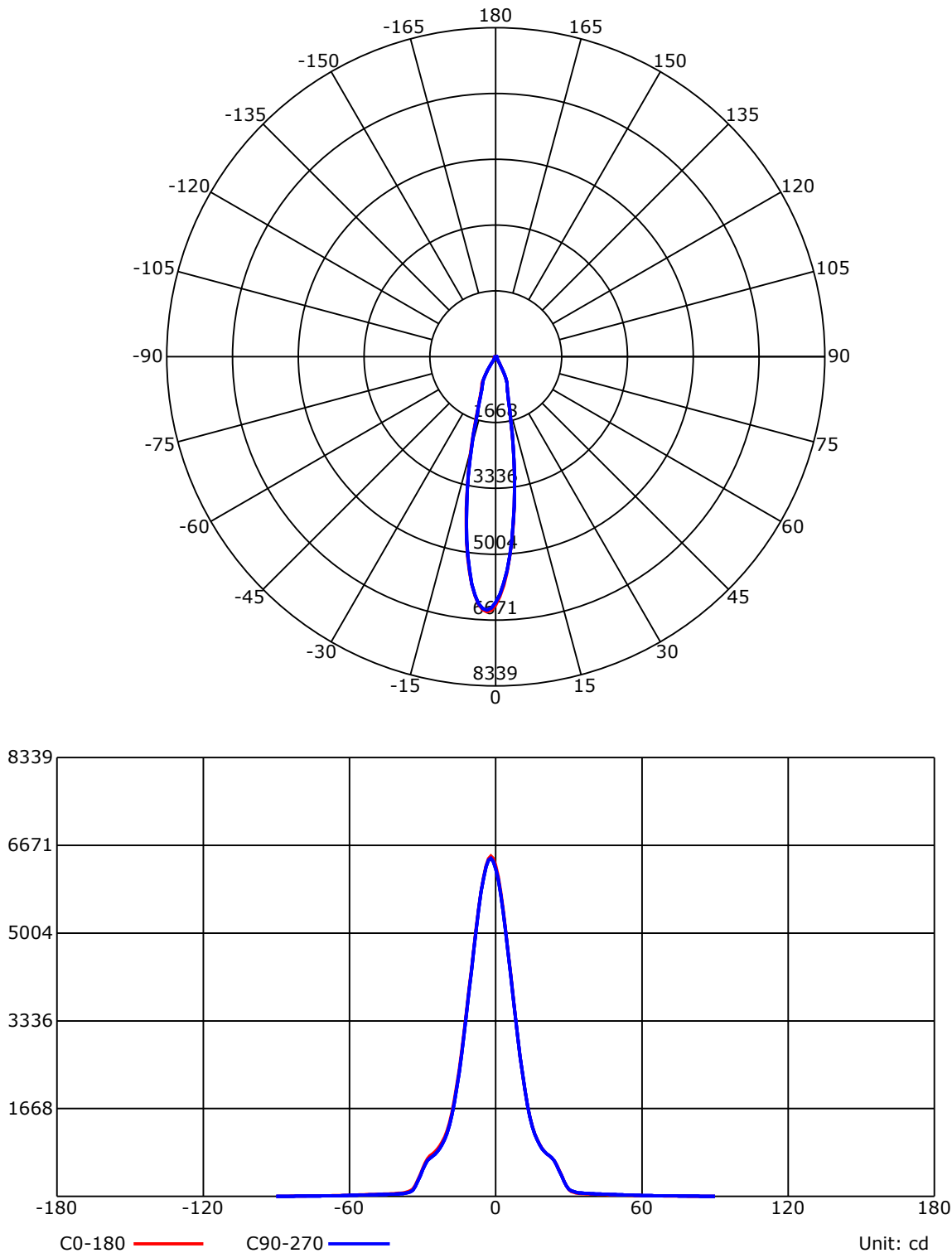
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/18 15:27:34

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



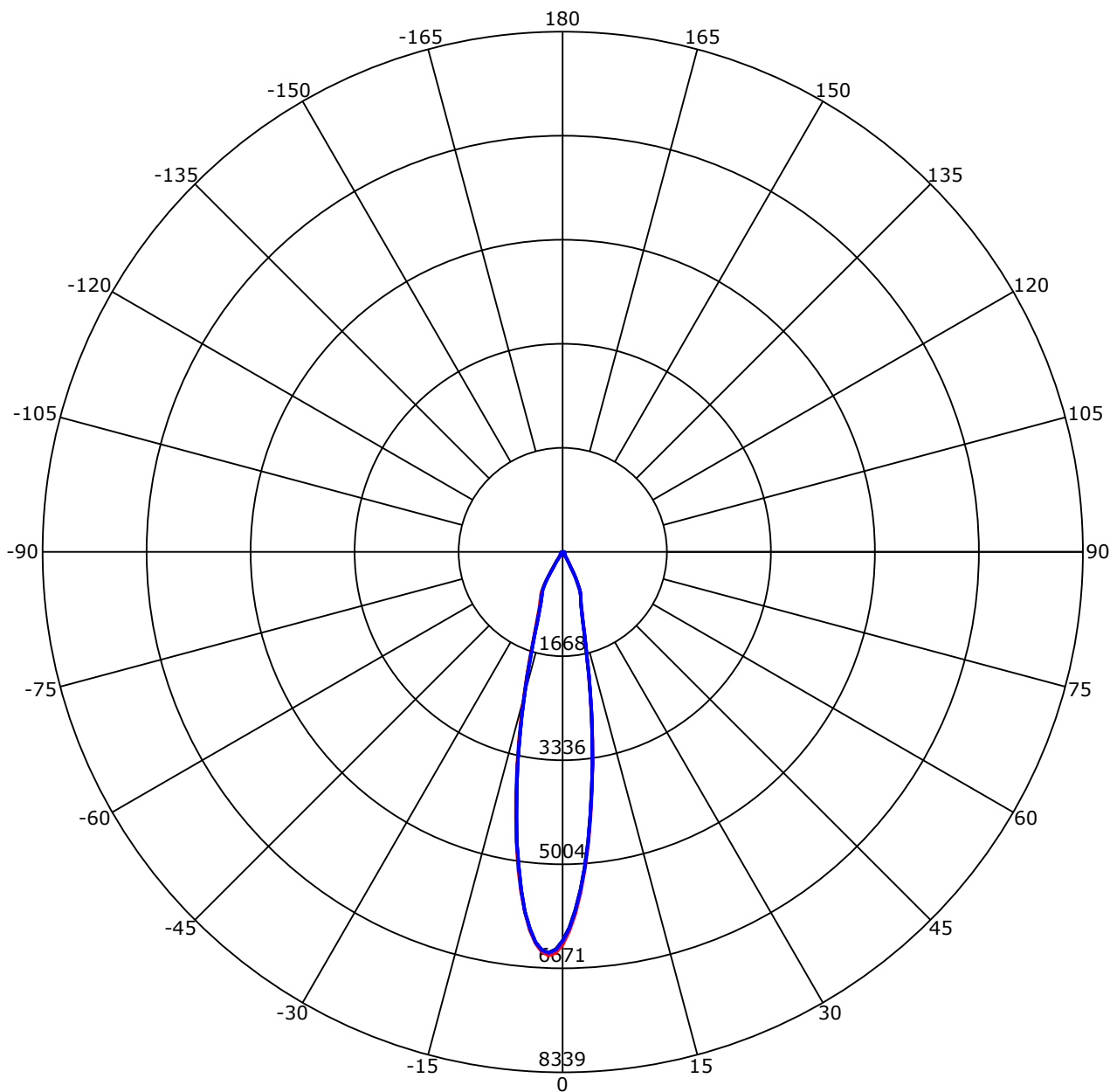
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

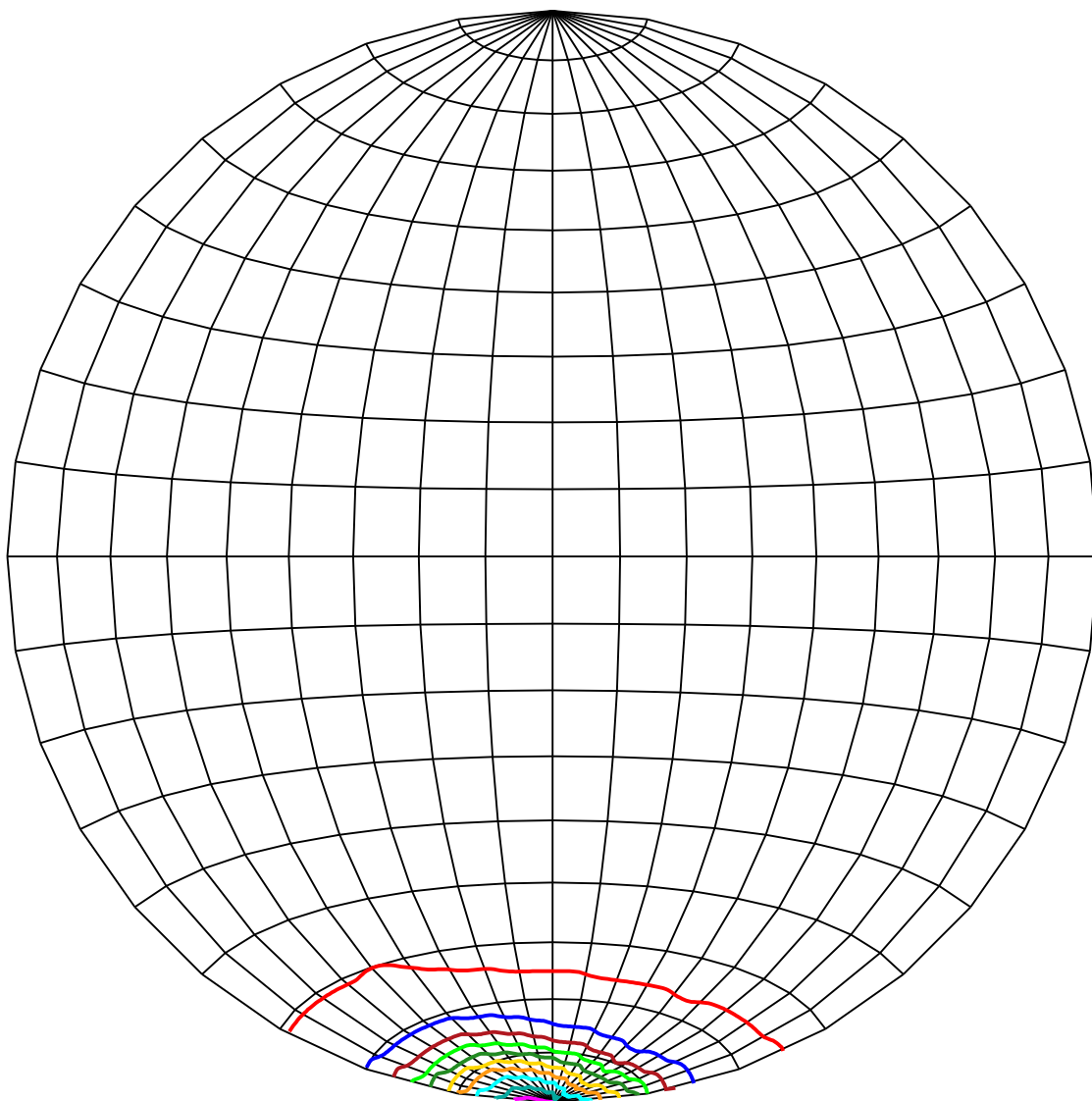
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 6671.417 cd

6337.846(95%Imax)	3335.708(50%Imax)
6004.275(90%Imax)	2668.567(40%Imax)
5337.134(80%Imax)	2001.425(30%Imax)
4669.992(70%Imax)	1334.283(20%Imax)
4002.85(60%Imax)	667.142(10%Imax)

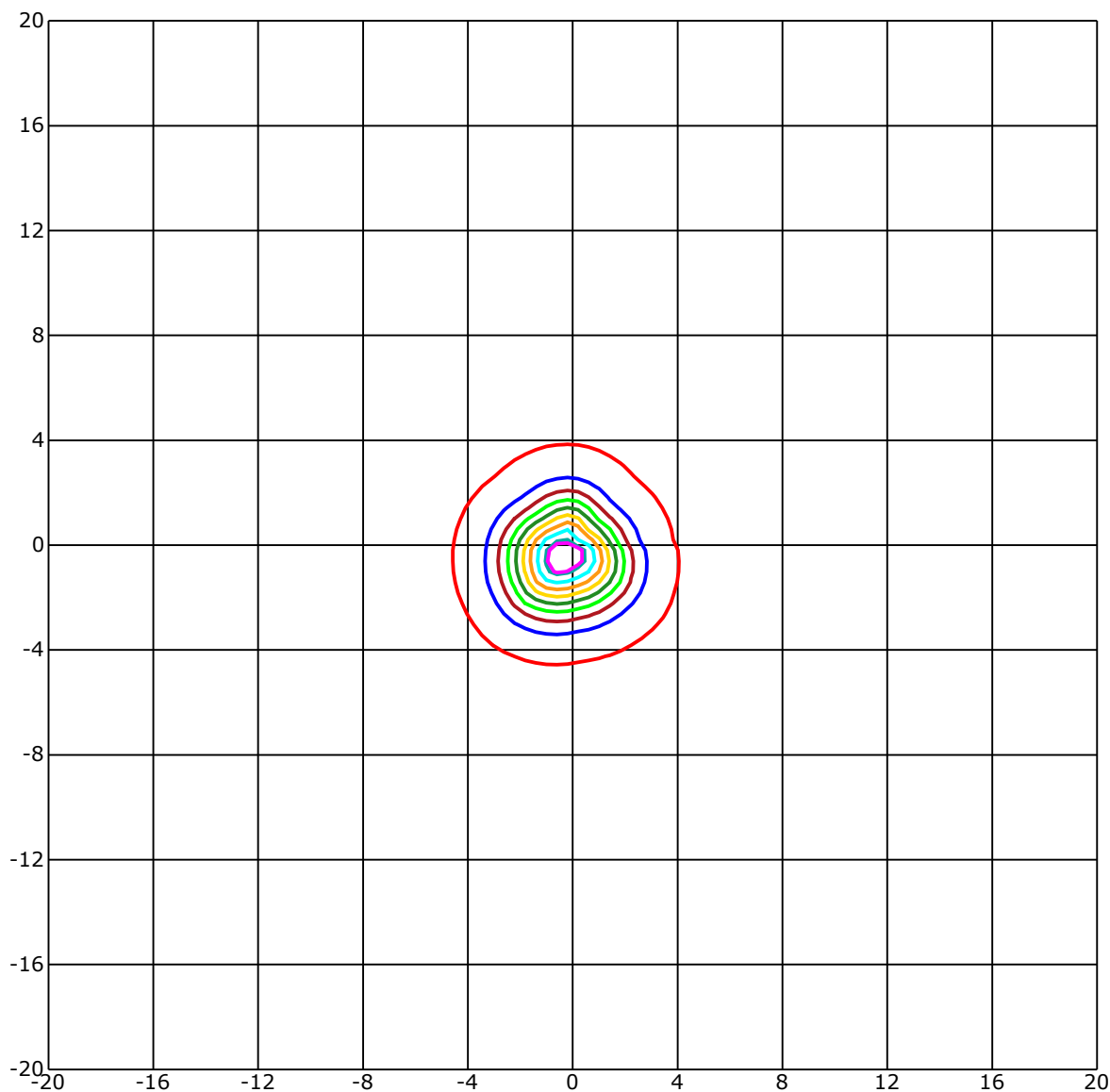
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ISOLX DIAGRAM



60.93(92%Emax)	33.114(50%Emax)
59.605(90%Emax)	26.491(40%Emax)
52.982(80%Emax)	19.868(30%Emax)
46.359(70%Emax)	13.246(20%Emax)
39.737(60%Emax)	6.623(10%Emax)

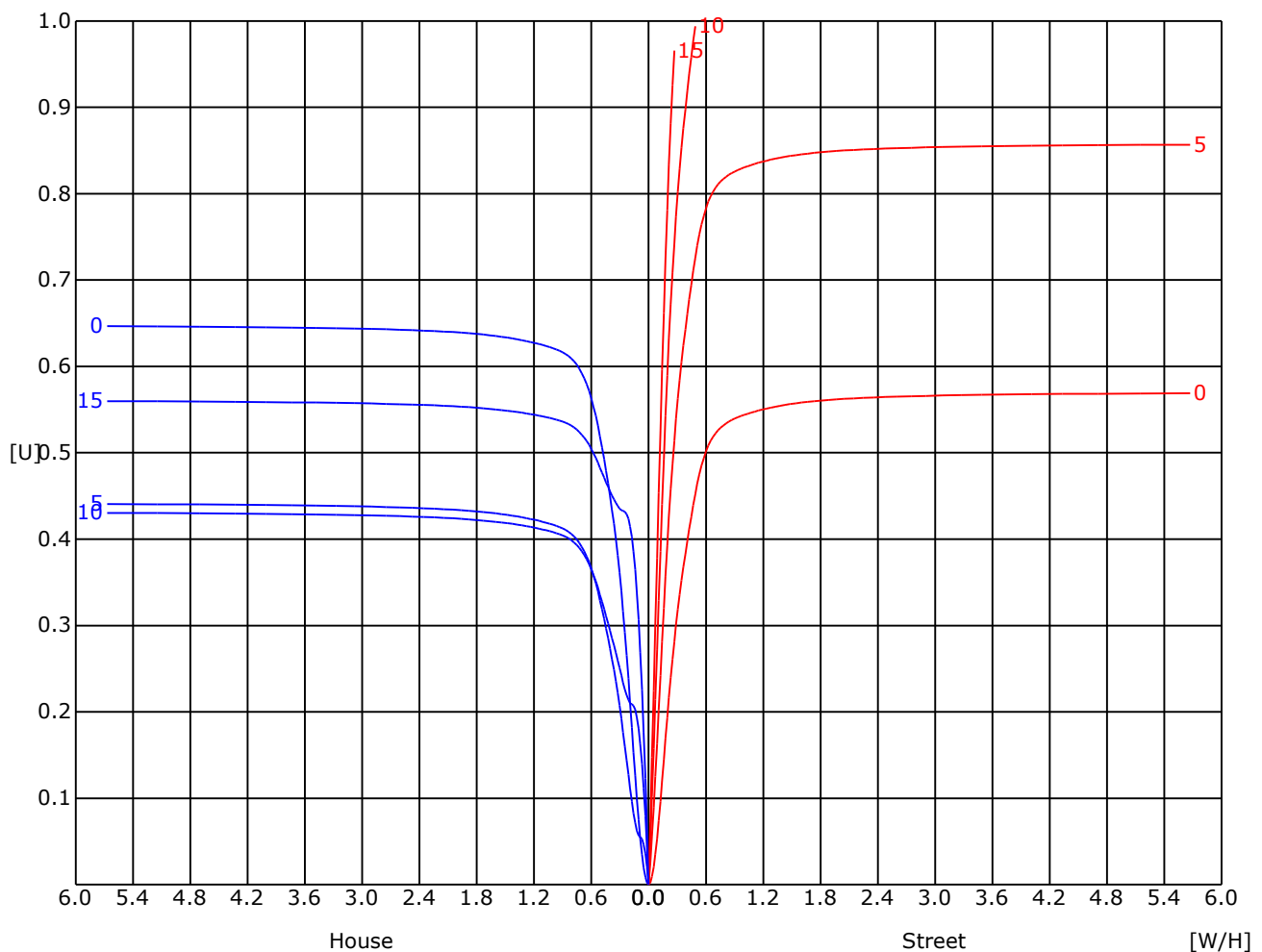
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UTILIZATION FACTOR DIAGRAM (ROAD)



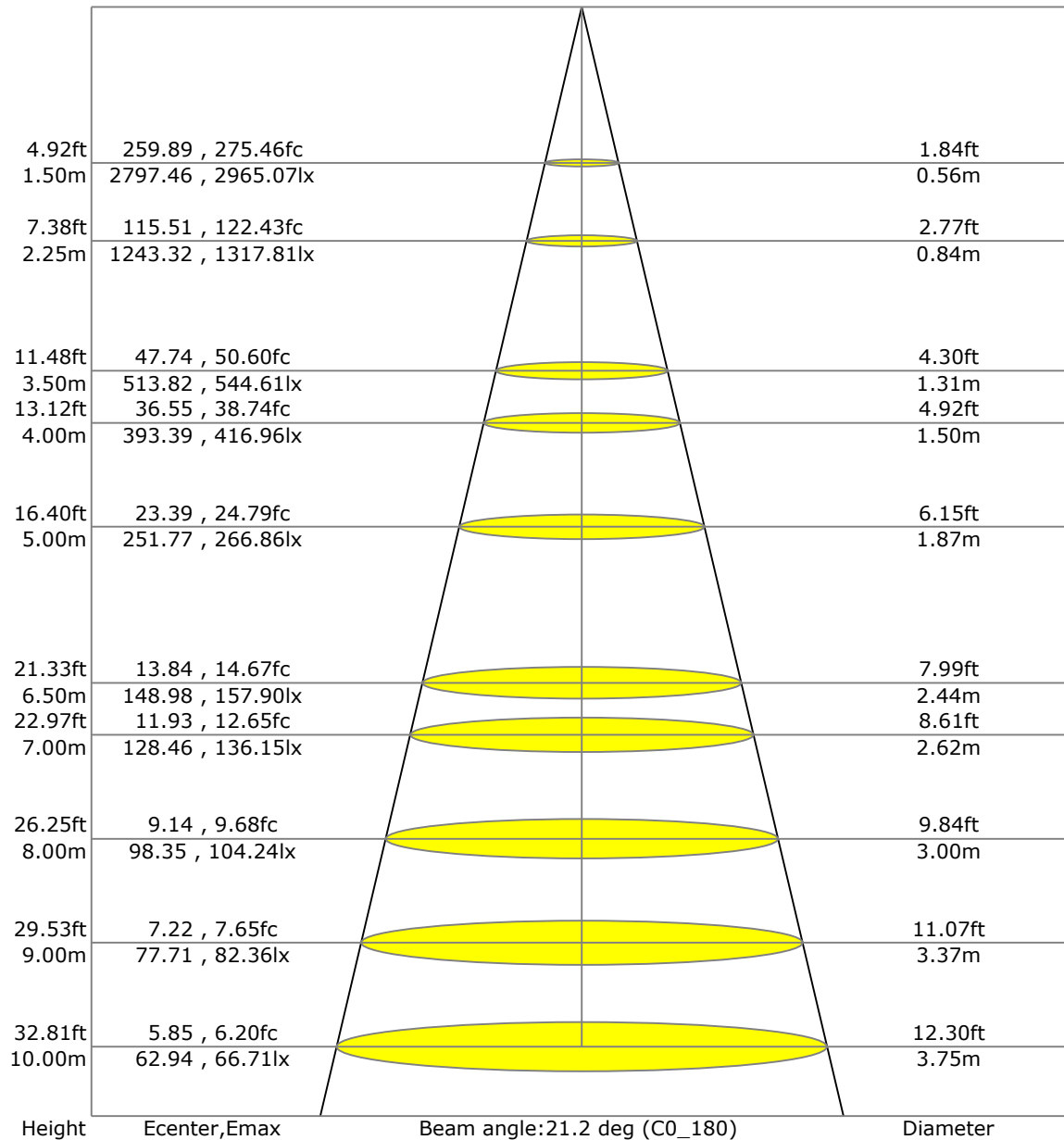
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LX-DISTANCE DIAGRAM



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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	6.80	6.86	7.00	7.05	7.29	7.09	7.15	7.29	7.34	7.58
3H	6.88	6.94	7.08	7.13	7.38	7.14	7.20	7.35	7.40	7.64
4H	6.89	6.95	7.10	7.15	7.40	7.14	7.21	7.36	7.40	7.65
6H	6.88	6.94	7.10	7.14	7.40	7.13	7.19	7.35	7.39	7.65
8H	6.87	6.93	7.09	7.14	7.39	7.12	7.19	7.34	7.39	7.64
12H	6.86	6.92	7.08	7.13	7.39	7.11	7.18	7.34	7.38	7.64
4H 2H	7.88	7.94	8.09	8.14	8.38	8.49	8.55	8.70	8.74	8.99
3H	8.08	8.14	8.30	8.35	8.60	8.65	8.72	8.88	8.92	9.18
4H	8.12	8.19	8.35	8.40	8.66	8.68	8.74	8.91	8.96	9.22
6H	8.13	8.19	8.37	8.41	8.68	8.67	8.74	8.91	8.96	9.22
8H	8.12	8.19	8.37	8.41	8.68	8.66	8.72	8.91	8.95	9.22
12H	8.11	8.17	8.36	8.41	8.68	8.65	8.71	8.90	8.94	9.21
8H 4H	8.12	8.18	8.34	8.38	8.64	9.00	9.06	9.22	9.27	9.52
6H	8.44	8.50	8.70	8.74	9.01	9.32	9.38	9.58	9.62	9.89
8H	8.44	8.49	8.70	8.74	9.02	9.31	9.36	9.57	9.61	9.89
12H	8.42	8.48	8.69	8.73	9.02	9.29	9.34	9.56	9.60	9.88
12H 4H	8.42	8.48	8.67	8.71	8.98	9.47	9.53	9.72	9.76	10.03
6H	8.43	8.49	8.69	8.73	9.01	9.48	9.53	9.74	9.78	10.06

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ZONAL LUMINOUS FLUX TABLE

[illegible]

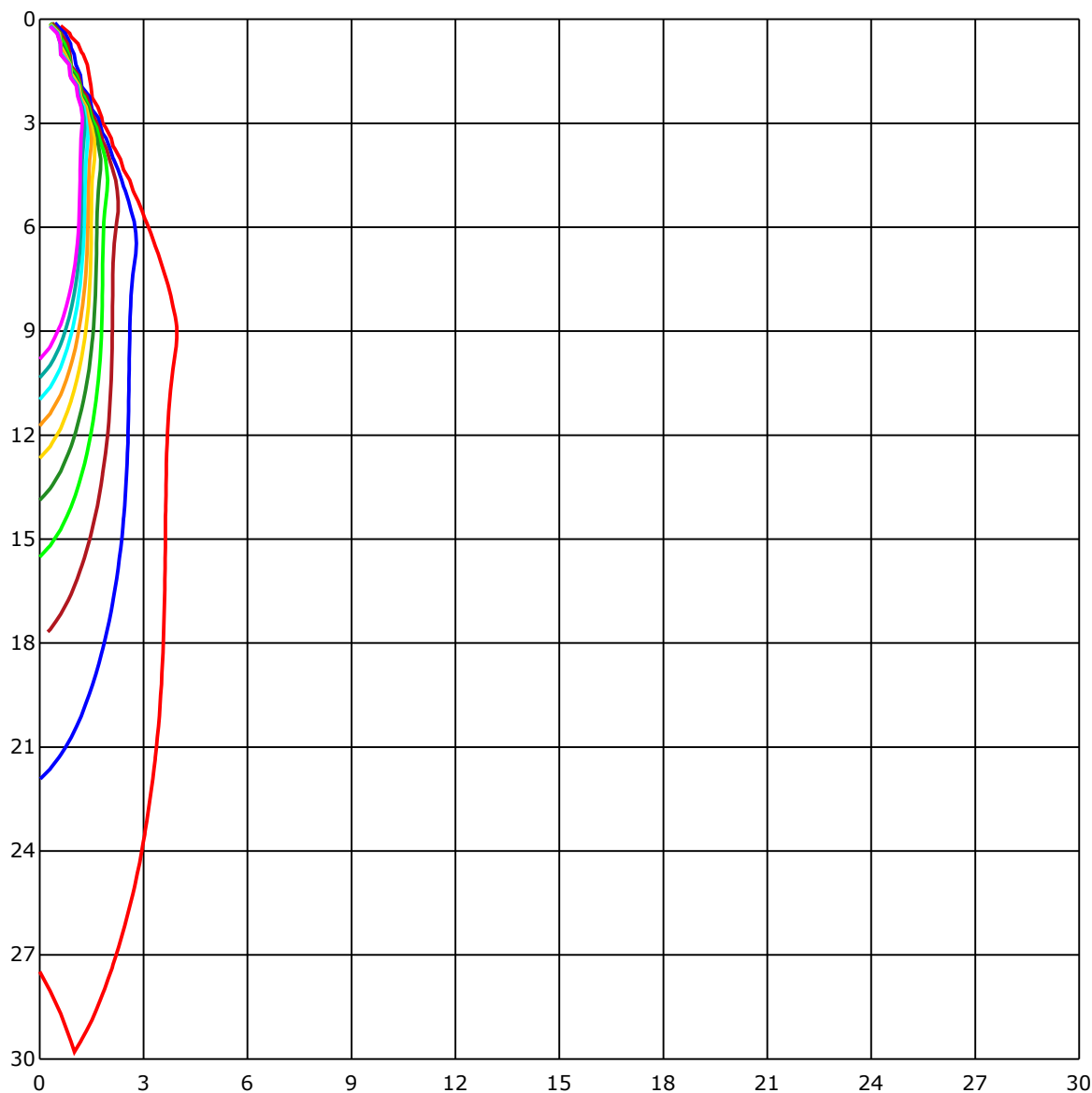
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

65.373

58.836

52.298

45.761

39.224

32.686

26.149

19.612

13.075

6.537

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C Interval: 45.0 Deg

Test Speed: High

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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: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6294.3	5861.06	6226.06	6186.43	6294.3	5861.06	6226.06	6186.43	6294.3	
G1	6077.66	5494.72	6022.62	6039.32	6425.55	6165.06	6365.45	6249.63	6077.66	
G2	5798.13	5088.28	5745.29	5813.43	6469.14	6412.04	6423.04	6230.42	5798.13	
G3	5471.78	4665.69	5421.19	5523.04	6418.42	6588.46	6388.52	6124.79	5471.78	
G4	5088.87	4225.27	5059.91	5179.23	6286.35	6671.42	6263.55	5945.82	5088.87	
G5	4684.09	3800.39	4665.19	4794.16	6080.35	6657.64	6056.74	5701.21	4684.09	
G6	4268.46	3377.39	4236.13	4397.47	5804.01	6544.65	5791.26	5401.03	4268.46	
G7	3854.03	2968.58	3823.42	3999.34	5483.81	6351.35	5455.8	5063.64	3854.03	
G8	3424.57	2596.39	3431.03	3593.53	5125.67	6083.18	5083.07	4692.98	3424.57	
G9	3041.16	2241.49	3034.97	3206.67	4727.32	5759.61	4697.96	4302.26	3041.16	
G10	2658.61	1942.57	2660.32	2821.65	4322.55	5399.01	4282.64	3921.41	2658.61	
G11	2307.53	1673.37	2314.12	2473.13	3925.0	5006.0	3872.71	3524.22	2307.53	
G12	1997.02	1462.43	2008.65	2147.58	3514.84	4582.46	3470.72	3142.35	1997.02	
G13	1733.65	1283.76	1731.0	1858.9	3132.6	4162.07	3081.21	2790.81	1733.65	
G14	1513.06	1146.31	1510.68	1615.23	2761.99	3759.76	2704.94	2443.72	1513.06	
G15	1340.6	1037.86	1326.23	1422.83	2419.66	3348.57	2359.78	2130.88	1340.6	
G16	1194.34	953.37	1186.17	1257.95	2102.06	2969.29	2048.56	1856.07	1194.34	
G17	1080.37	883.93	1069.82	1132.8	1829.31	2600.34	1768.94	1628.88	1080.37	
G18	989.64	828.67	980.22	1030.94	1592.88	2256.49	1543.36	1432.57	989.64	
G19	914.18	784.14	906.06	951.8	1401.33	1952.22	1352.36	1278.11	914.18	
G20	853.72	750.47	851.97	885.14	1249.92	1698.68	1202.15	1148.6	853.72	
G21	808.51	716.94	806.9	834.73	1131.41	1483.57	1083.69	1048.27	808.51	
G22	767.48	688.84	770.27	792.8	1035.48	1311.91	986.68	963.07	767.48	
G23	727.98	660.02	731.53	759.99	960.47	1171.54	908.17	895.69	727.98	
G24	681.74	622.31	676.76	730.45	897.8	1064.16	847.93	843.84	681.74	
G25	603.28	572.17	592.82	701.54	849.0	976.76	799.98	801.51	603.28	
G26	504.2	514.48	492.62	674.7	806.81	909.79	763.31	769.73	504.2	
G27	397.73	454.15	387.27	639.19	770.27	852.24	724.26	737.9	397.73	
G28	290.26	391.26	284.69	588.33	717.25	811.43	681.25	710.07	290.26	
G29	197.16	329.9	196.44	533.11	635.6	773.14	603.37	682.06	197.16	
G30	126.72	269.79	137.5	469.15	533.02	745.44	503.08	639.91	126.72	
G31	93.24	214.44	109.26	404.73	419.09	717.21	391.22	589.54	93.24	
G32	75.01	165.46	90.41	340.4	309.61	693.64	285.72	528.8	75.01	
G33	61.9	123.13	76.45	276.7	211.61	657.64	189.3	467.22	61.9	
G34	54.86	93.6	68.82	217.36	143.83	611.72	118.6	402.48	54.86	
G35	52.12	75.95	64.46	164.7	111.96	554.21	88.66	337.53	52.12	
G36	49.87	66.39	61.19	119.86	89.82	492.8	72.18	273.38	49.87	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	46.87	57.68	57.77	85.47	75.19	426.14	59.43	213.09	46.87	
G38	44.4	50.28	54.81	67.69	67.83	362.31	52.43	160.8	44.4	
G39	42.6	45.16	52.7	59.43	63.7	295.42	49.74	118.78	42.6	
G40	40.89	42.83	50.28	51.58	60.11	233.2	47.58	91.58	40.89	
G41	39.41	40.13	48.35	45.7	56.74	177.58	44.71	77.93	39.41	
G42	38.11	38.11	46.1	42.6	53.91	130.76	42.78	67.34	38.11	
G43	36.72	36.23	44.53	40.76	51.58	98.58	40.58	59.12	36.72	
G44	35.28	34.97	42.96	38.7	49.2	80.89	39.32	54.72	35.28	
G45	34.3	33.44	41.16	36.76	47.54	69.71	37.71	51.8	34.3	
G46	32.95	32.5	39.73	35.06	45.11	60.69	36.36	49.11	32.95	
G47	31.87	31.38	37.84	33.94	43.32	55.3	35.19	46.42	31.87	
G48	30.61	30.17	36.36	32.59	41.7	52.75	34.25	44.49	30.61	
G49	29.18	29.18	34.74	31.78	40.27	49.56	32.99	42.42	29.18	
G50	27.97	27.83	33.31	30.48	38.61	46.55	32.01	40.63	27.97	
G51	26.71	26.53	31.78	29.54	37.26	44.4	30.66	39.23	26.71	
G52	25.27	25.5	30.39	28.19	35.69	42.56	29.67	37.8	25.27	
G53	24.06	24.15	28.73	27.29	34.25	40.85	28.37	36.72	24.06	
G54	22.62	22.94	27.43	25.72	32.68	39.32	27.29	35.28	22.62	
G55	21.37	21.68	25.95	24.78	31.15	38.11	25.77	33.89	21.37	
G56	19.93	20.51	24.47	23.43	29.54	36.41	24.69	32.5	19.93	
G57	18.58	19.39	22.94	22.13	28.15	35.28	23.3	31.29	18.58	
G58	17.19	18.27	21.41	21.19	26.62	33.76	22.04	29.81	17.19	
G59	15.71	16.97	19.66	19.8	25.36	32.1	20.69	28.46	15.71	
G60	14.32	15.98	18.32	18.45	23.7	30.75	19.08	27.2	14.32	
G61	12.48	14.45	16.25	17.51	22.13	29.31	17.78	25.72	12.48	
G62	11.22	13.2	15.49	16.03	20.29	28.01	16.25	24.38	11.22	
G63	11.0	12.08	14.95	15.04	18.9	26.44	14.63	22.85	11.0	
G64	10.68	10.73	14.41	13.69	16.97	24.87	12.7	21.55	10.68	
G65	10.28	10.23	13.87	12.39	15.4	23.43	11.22	20.07	10.28	
G66	9.83	9.74	13.47	11.0	14.59	22.18	10.86	18.67	9.83	
G67	9.47	9.29	12.84	10.32	14.36	20.69	10.32	17.01	9.47	
G68	9.2	9.02	12.25	9.74	13.6	19.21	10.01	15.62	9.2	
G69	8.8	8.48	11.76	9.47	13.15	17.46	9.7	14.77	8.8	
G70	8.39	8.08	11.31	8.98	12.57	16.12	9.34	14.19	8.39	
G71	8.08	7.63	10.73	8.62	12.08	14.81	8.98	13.6	8.08	
G72	7.59	7.14	10.41	8.08	11.49	14.14	8.48	12.79	7.59	
G73	7.18	6.6	9.83	7.72	11.09	13.47	8.17	12.48	7.18	

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