

Report No.:

Test Time: 2024/9/18 18:15:58

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-2F-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1410 A
Power(W): 29.46 W
Power Factor: 0.9480
Lamp Luminous Flux: 2865.49

Photometric Results

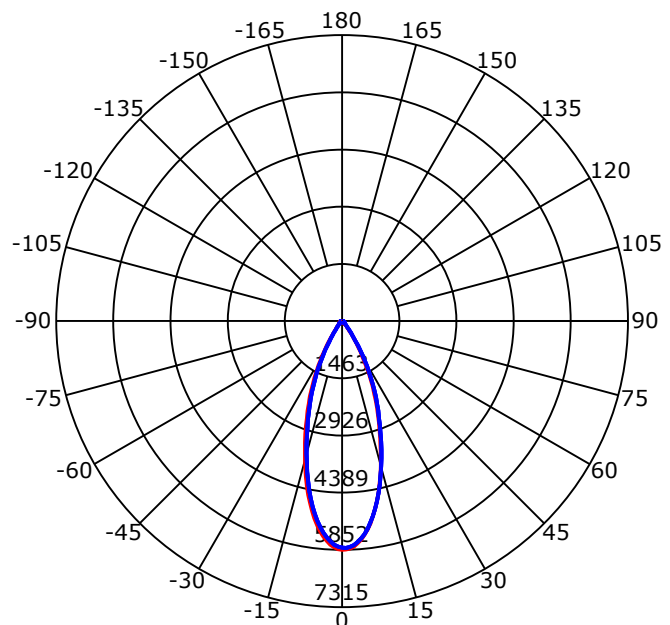
CIE Class: Direct
Luminaire Luminous Flux: 2865.488 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.27 lm/W
Beam Angle(50%) C0-180,C90-270: 37.7,37.5
Field Angle(10%) C0-180,C90-270: 67.2,66.9
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 5852.15 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5852.15 cd
Effective Luminous Flux: 2504.37 lm
ERP(ϕ use)(120deg): 2812.17 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.7 deg,37.5 deg

C0-180 — C90-270

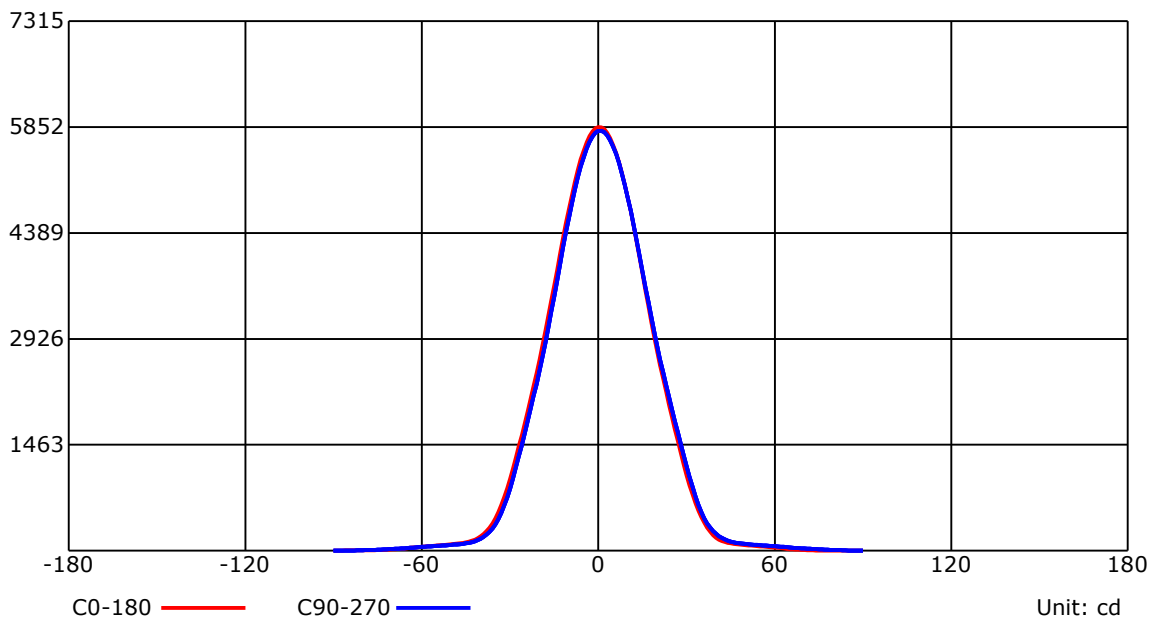
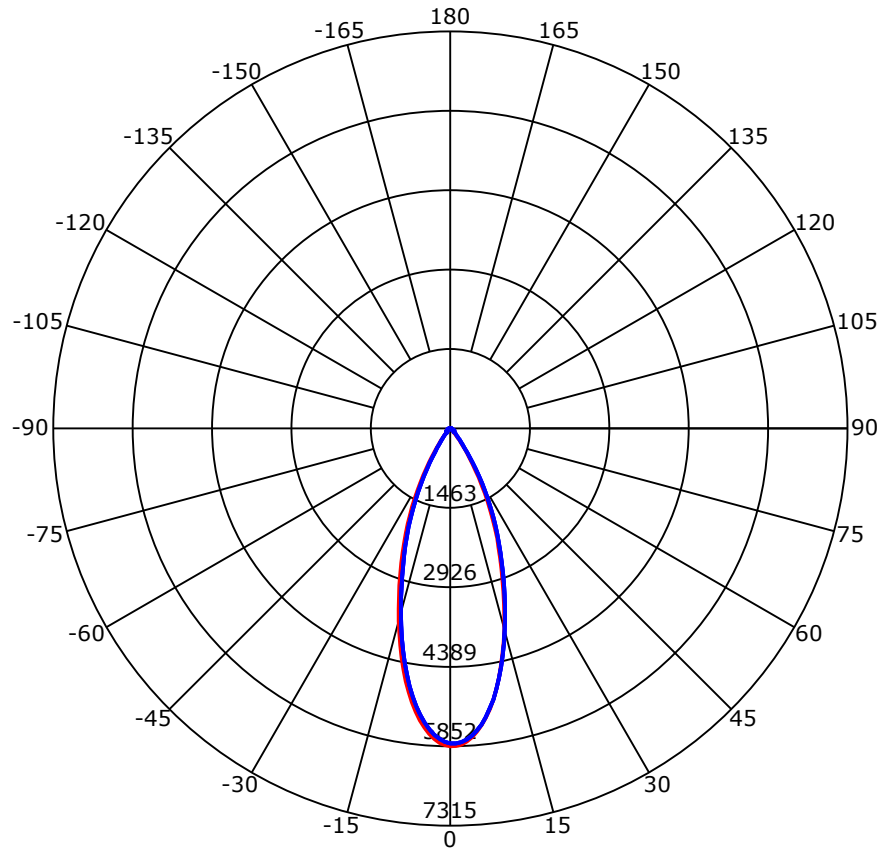
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/18 18:15:58

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



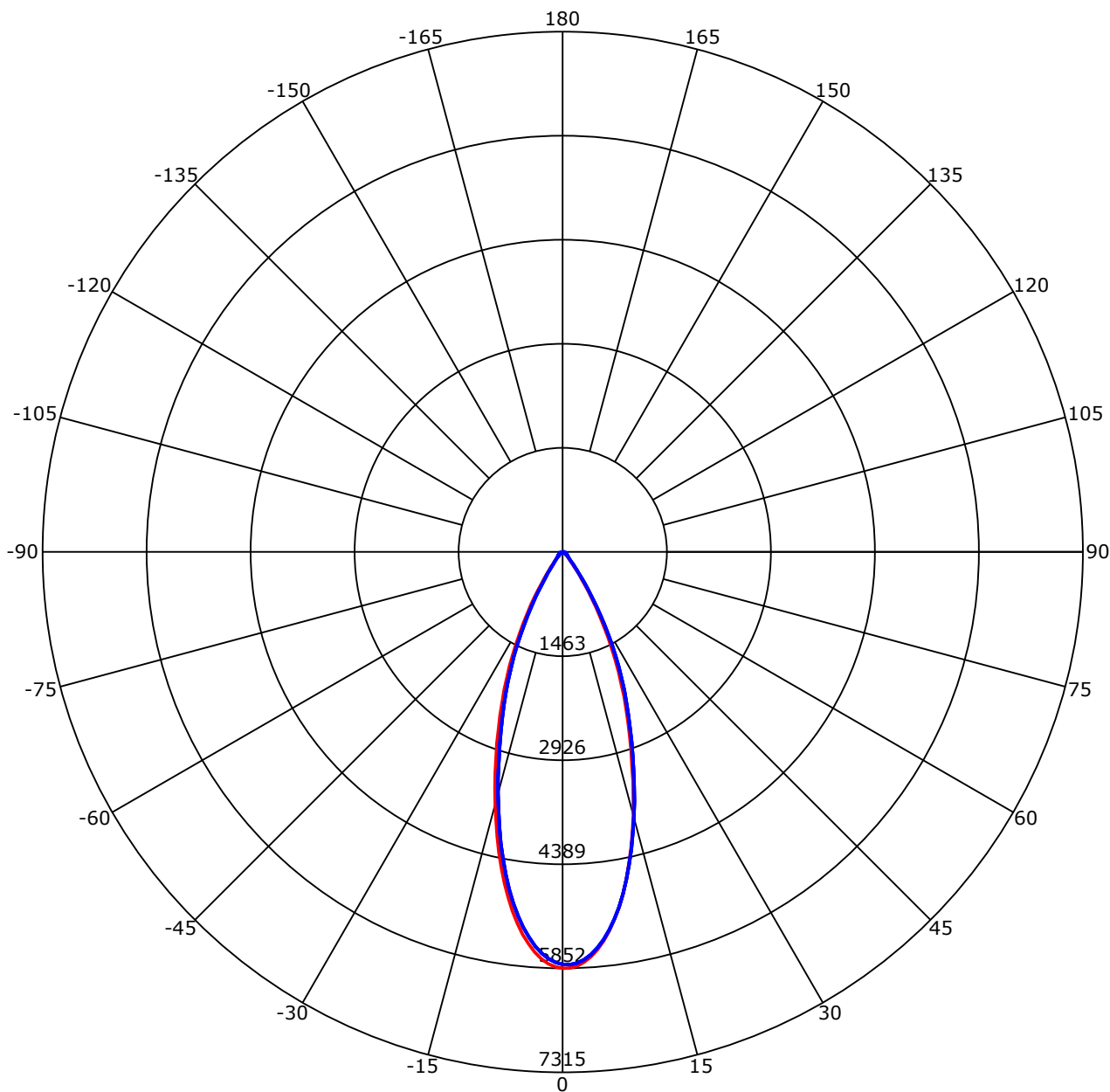
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

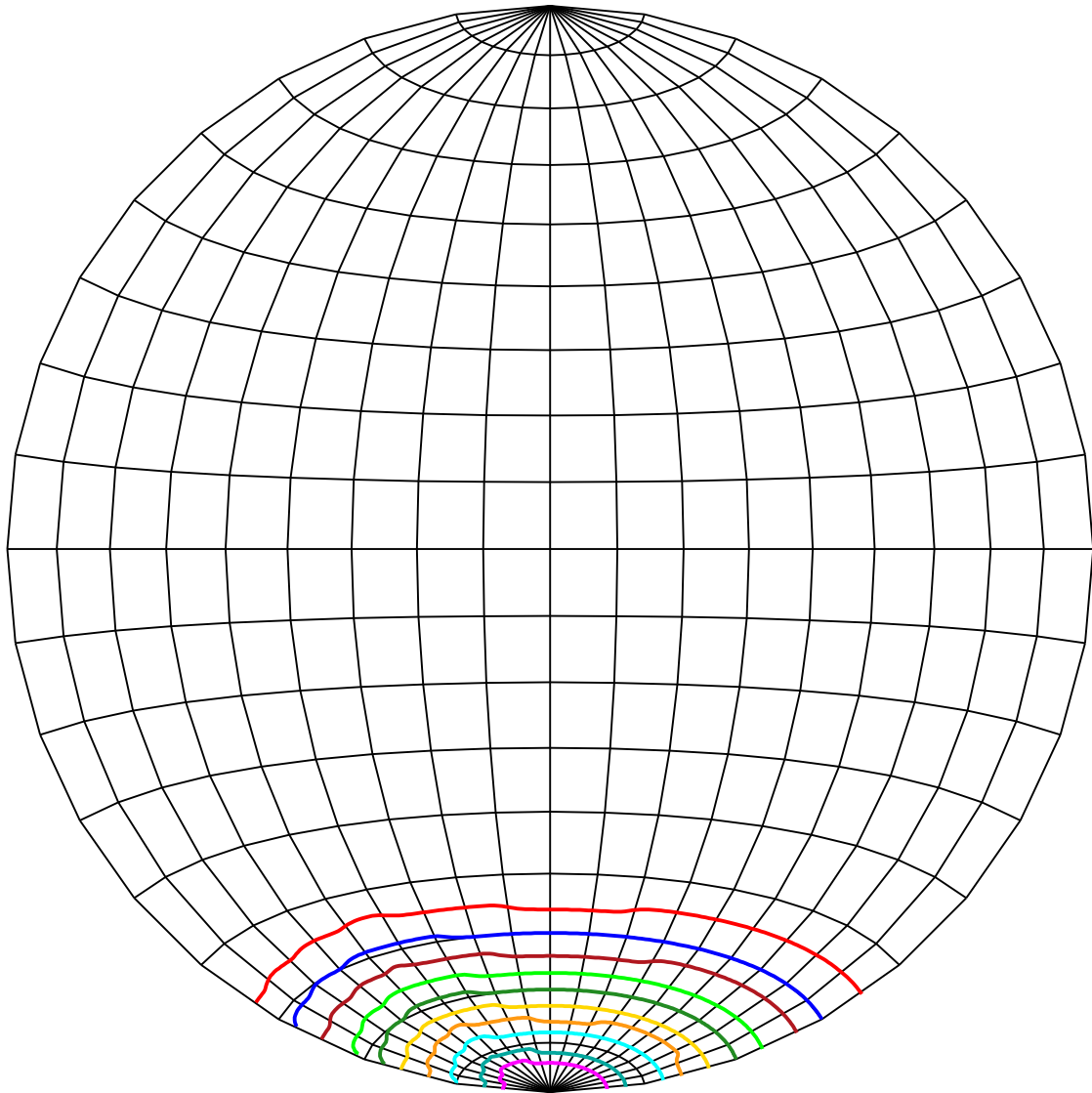
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 5852.154 cd

5559.546(95%Imax)	2926.077(50%Imax)
5266.938(90%Imax)	2340.862(40%Imax)
4681.723(80%Imax)	1755.646(30%Imax)
4096.508(70%Imax)	1170.431(20%Imax)
3511.292(60%Imax)	585.215(10%Imax)

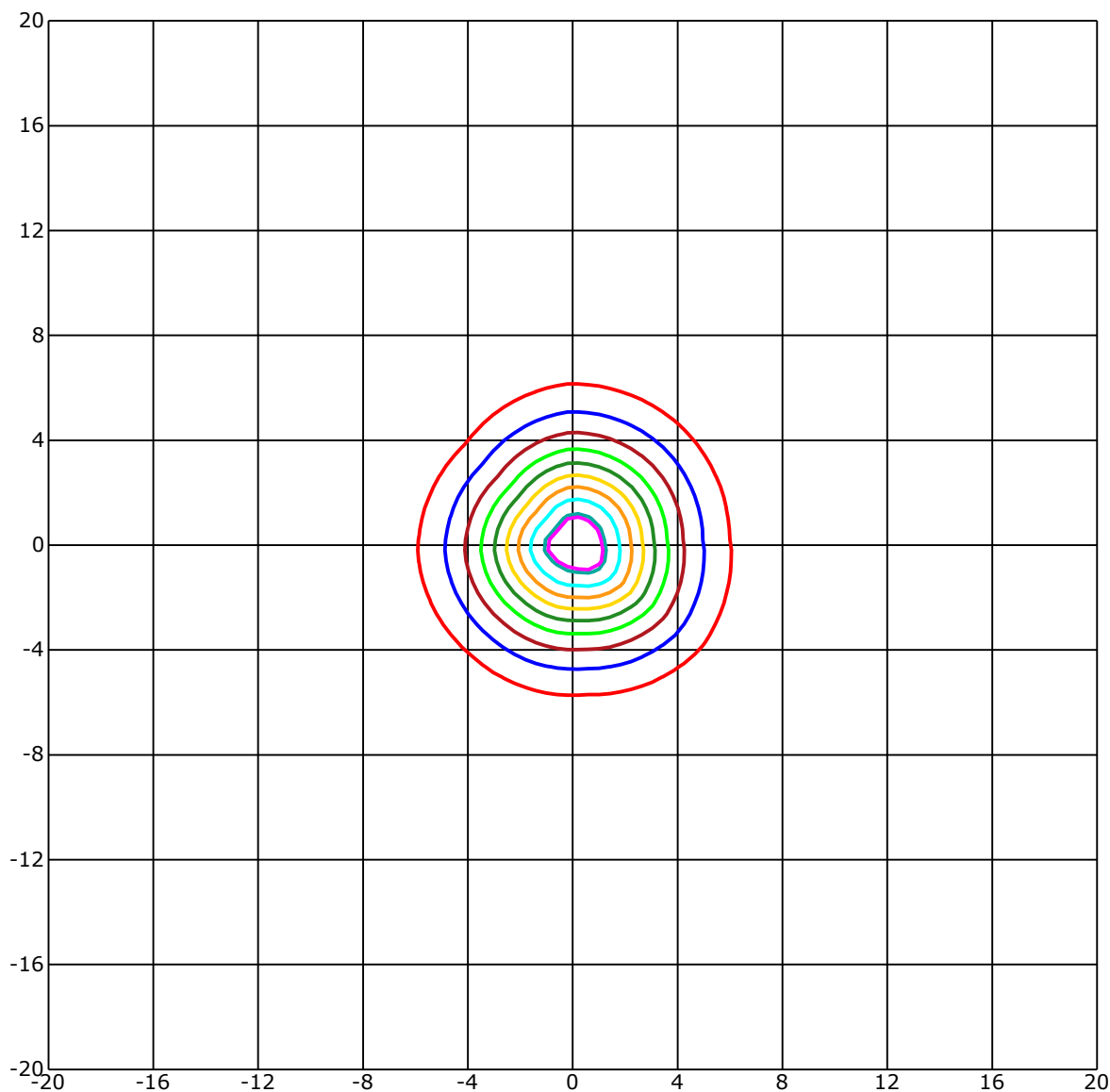
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ISOLX DIAGRAM



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

53.84(92%Emax)	29.261(50%Emax)
52.669(90%Emax)	23.409(40%Emax)
46.817(80%Emax)	17.556(30%Emax)
40.965(70%Emax)	11.704(20%Emax)
35.113(60%Emax)	5.852(10%Emax)

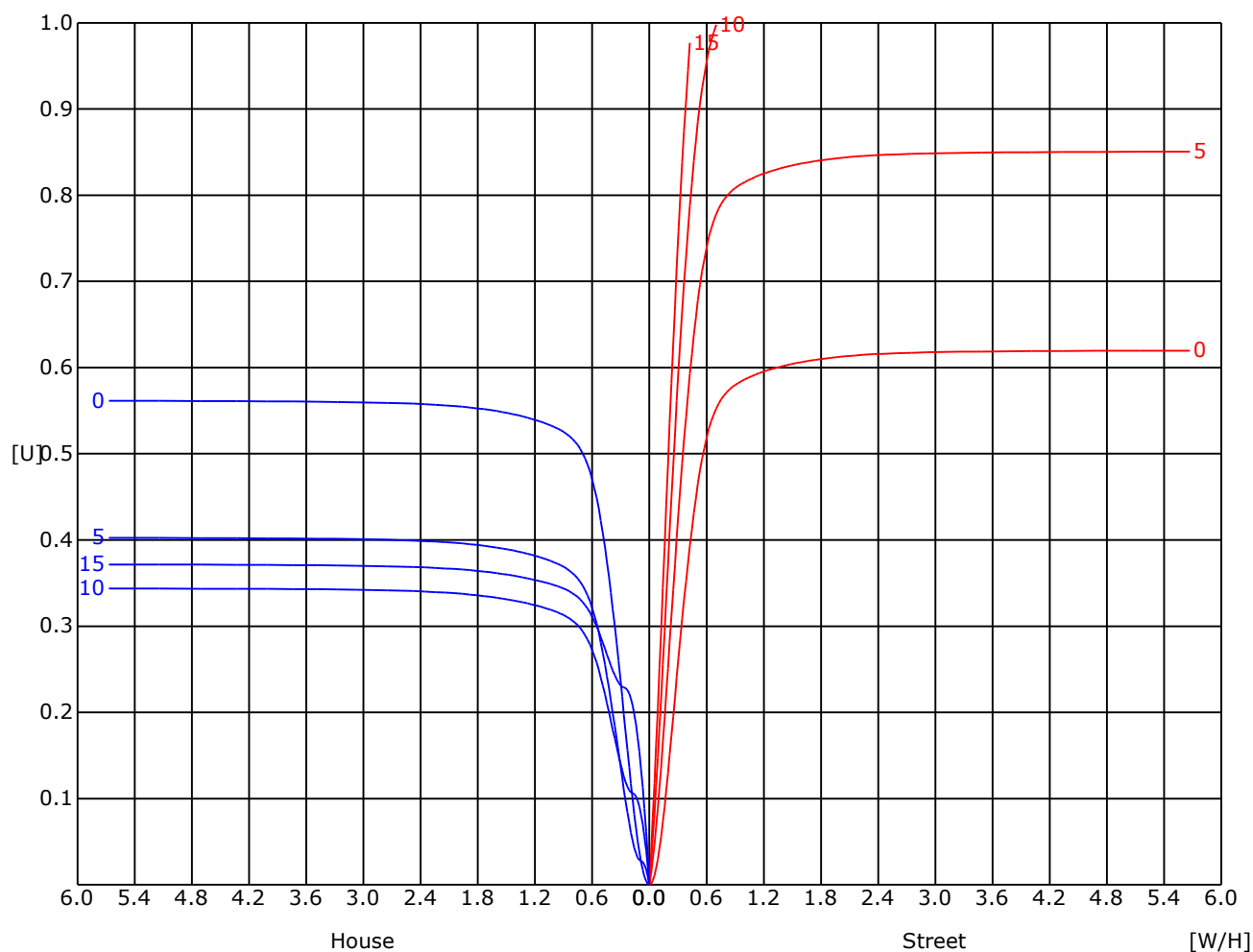
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UTILIZATION FACTOR DIAGRAM (ROAD)



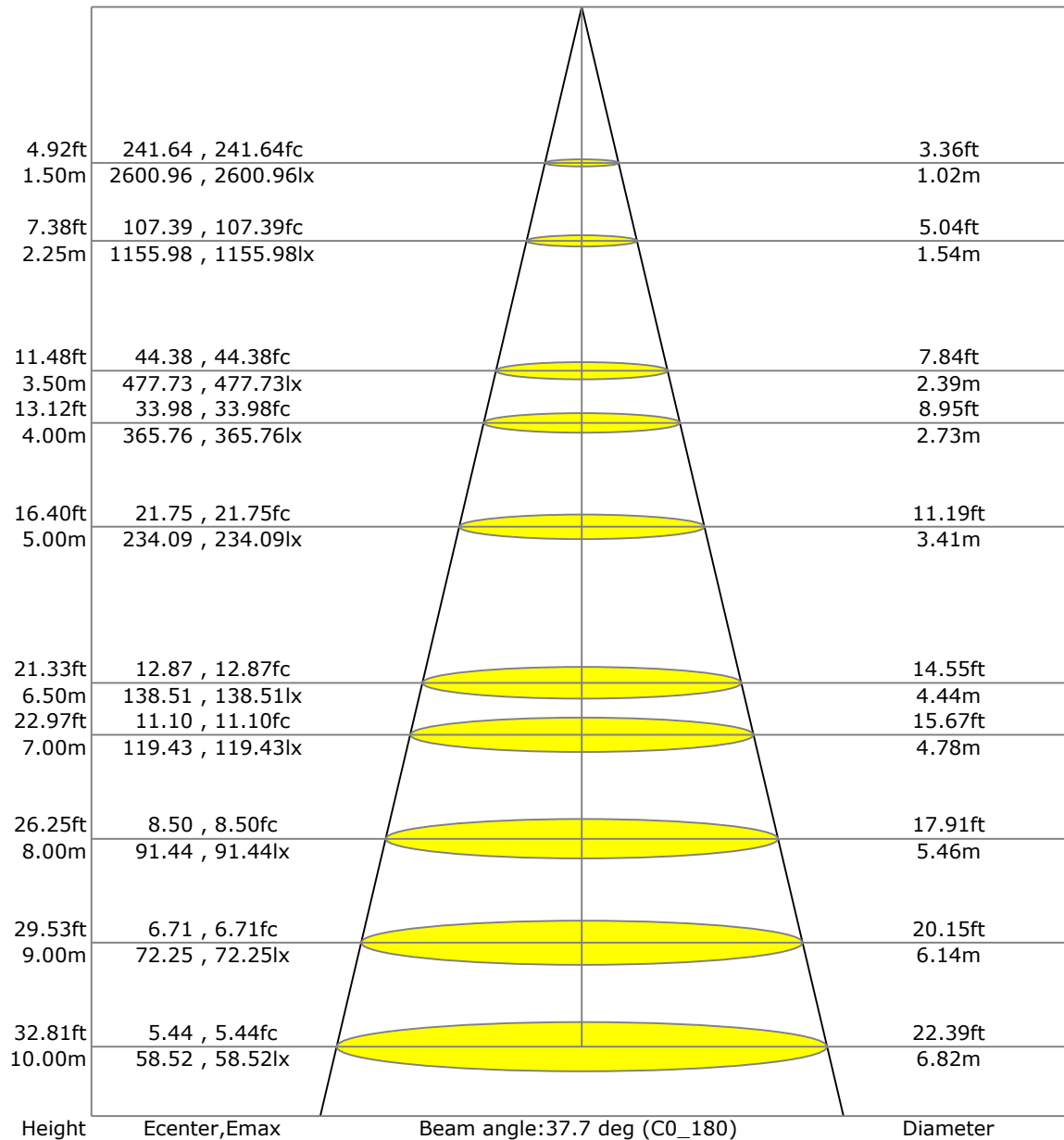
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	8.88	8.94	9.08	9.12	9.37	9.05	9.10	9.25	9.29	9.53
	3H	8.90	8.96	9.11	9.15	9.40	9.05	9.10	9.25	9.29	9.54
	4H	8.89	8.95	9.10	9.14	9.39	9.03	9.09	9.24	9.28	9.53
	6H	8.88	8.93	9.09	9.13	9.38	9.02	9.07	9.23	9.27	9.52
	8H	8.87	8.92	9.09	9.13	9.38	9.01	9.06	9.23	9.27	9.52
	12H	8.86	8.91	9.08	9.12	9.37	9.00	9.05	9.22	9.26	9.51
4H	2H	9.11	9.17	9.32	9.36	9.61	9.66	9.72	9.87	9.91	10.16
	3H	9.15	9.20	9.37	9.41	9.66	9.68	9.74	9.90	9.94	10.20
	4H	9.14	9.19	9.37	9.41	9.66	9.67	9.72	9.89	9.93	10.19
	6H	9.12	9.17	9.36	9.39	9.66	9.64	9.70	9.88	9.92	10.18
	8H	9.11	9.16	9.35	9.39	9.65	9.63	9.68	9.87	9.91	10.17
	12H	9.10	9.15	9.35	9.38	9.65	9.62	9.67	9.87	9.90	10.17
8H	4H	9.10	9.15	9.32	9.35	9.61	9.74	9.80	9.96	10.00	10.25
	6H	9.09	9.14	9.35	9.38	9.65	9.74	9.79	9.99	10.02	10.30
	8H	9.08	9.13	9.34	9.37	9.65	9.72	9.77	9.98	10.01	10.29
	12H	9.07	9.11	9.34	9.36	9.64	9.71	9.75	9.98	10.00	10.29
12H	4H	9.11	9.16	9.35	9.39	9.66	9.77	9.82	10.02	10.05	10.32
	6H	9.08	9.13	9.34	9.37	9.65	9.75	9.79	10.01	10.04	10.31

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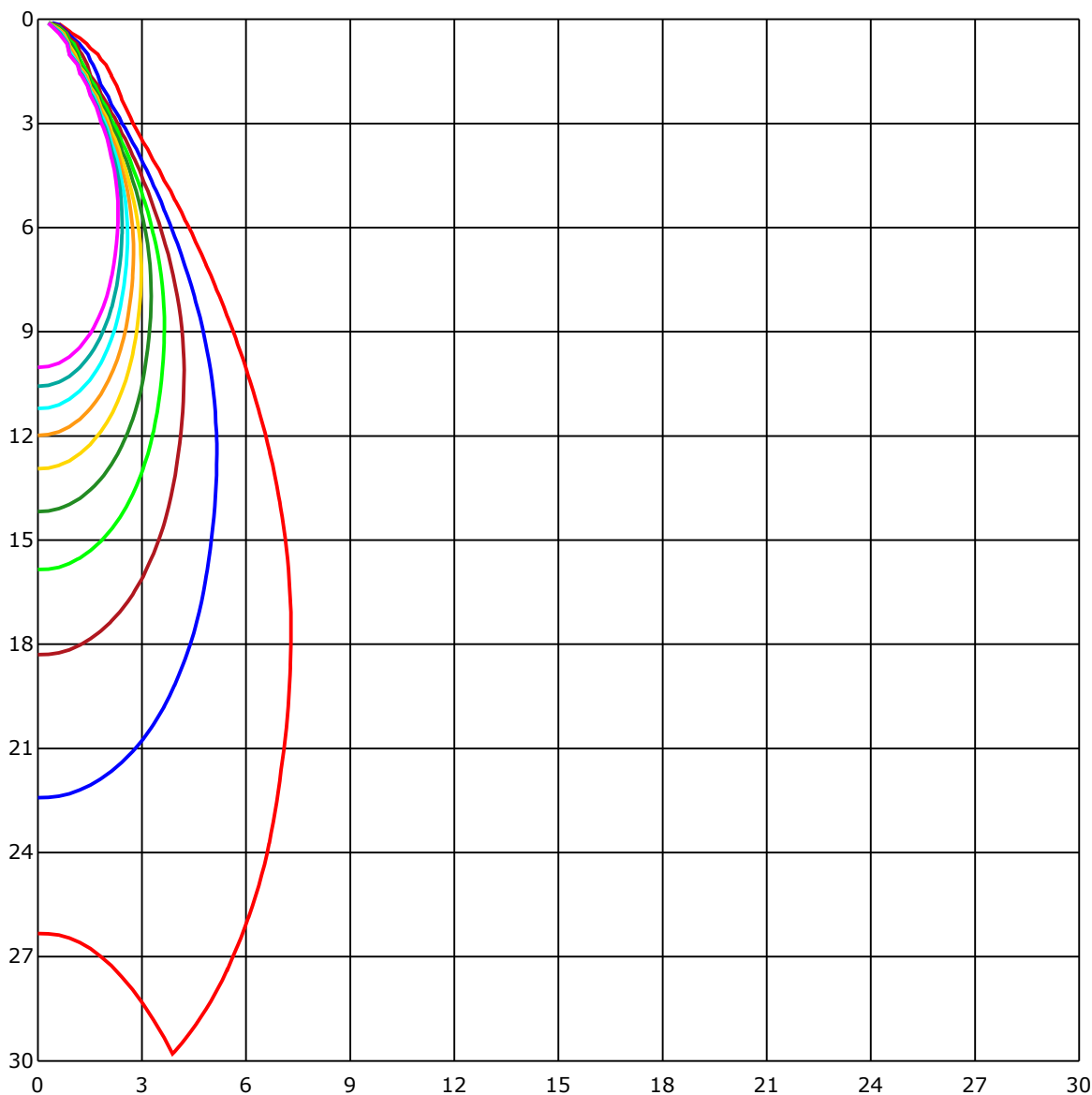
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



58.245
52.421
46.596
40.772
34.947

29.123
23.298
17.474
11.649
5.825

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5852.15	5770.9	5798.78	5815.1	5852.15	5770.9	5798.78	5815.1	5852.15	
G1	5848.86	5782.4	5801.28	5764.18	5832.91	5741.92	5772.02	5838.94	5848.86	
G2	5825.86	5769.79	5780.32	5692.11	5791.91	5684.41	5720.58	5849.84	5825.86	
G3	5774.8	5737.56	5736.86	5591.89	5727.36	5606.45	5649.07	5829.1	5774.8	
G4	5702.31	5682.42	5671.98	5476.28	5639.01	5503.22	5555.81	5791.31	5702.31	
G5	5610.16	5608.08	5587.53	5343.08	5528.12	5385.8	5437.09	5728.28	5610.16	
G6	5496.08	5504.29	5481.38	5191.62	5405.51	5242.82	5302.13	5642.58	5496.08	
G7	5366.55	5387.37	5355.37	5020.07	5256.78	5085.6	5153.22	5539.16	5366.55	
G8	5220.05	5251.26	5208.92	4832.25	5090.38	4919.35	4986.5	5417.66	5220.05	
G9	5054.16	5095.44	5053.23	4637.94	4911.23	4731.99	4801.78	5271.8	5054.16	
G10	4879.32	4925.14	4881.55	4431.61	4727.9	4530.06	4605.24	5111.02	4879.32	
G11	4683.24	4745.67	4692.84	4215.59	4525.01	4332.08	4397.06	4942.35	4683.24	
G12	4477.84	4544.3	4489.35	4003.23	4315.67	4139.21	4189.9	4756.7	4477.84	
G13	4266.79	4346.55	4286.82	3792.08	4104.29	3914.84	3960.7	4556.82	4266.79	
G14	4053.36	4138.23	4076.88	3570.08	3881.96	3692.84	3735.97	4352.03	4053.36	
G15	3834.42	3917.16	3860.44	3353.5	3671.32	3477.56	3515.08	4150.48	3834.42	
G16	3604.26	3692.28	3652.12	3141.1	3452.05	3263.63	3297.39	3922.68	3604.26	
G17	3377.43	3474.78	3438.05	2933.89	3242.29	3057.85	3076.36	3703.41	3377.43	
G18	3153.39	3264.92	3230.23	2735.4	3035.92	2848.79	2867.81	3481.32	3153.39	
G19	2950.08	3051.59	3027.43	2541.27	2838.73	2656.66	2678.03	3265.99	2950.08	
G20	2754.6	2856.4	2832.7	2356.74	2641.95	2481.72	2489.93	3055.03	2754.6	
G21	2562.74	2655.5	2642.65	2187.14	2459.51	2295.62	2306.33	2852.32	2562.74	
G22	2377.33	2474.81	2462.85	2016.94	2275.07	2122.31	2135.43	2658.42	2377.33	
G23	2204.67	2301.23	2291.54	1851.52	2103.99	1951.37	1965.56	2470.64	2204.67	
G24	2019.82	2134.97	2127.6	1688.32	1929.99	1786.45	1795.27	2286.16	2019.82	
G25	1855.55	1964.12	1960.6	1532.08	1767.63	1615.05	1629.38	2115.17	1855.55	
G26	1679.84	1795.96	1796.15	1373.29	1601.69	1451.85	1465.16	1941.77	1679.84	
G27	1513.44	1627.85	1632.44	1218.81	1445.78	1293.29	1306.09	1773.42	1513.44	
G28	1349.5	1466.0	1474.71	1072.31	1287.63	1136.82	1154.63	1602.16	1349.5	
G29	1189.92	1303.31	1318.75	930.17	1137.93	994.16	999.73	1434.83	1189.92	
G30	1040.63	1149.01	1168.59	798.04	995.6	856.98	859.16	1271.4	1040.63	
G31	903.04	1003.67	1021.29	679.22	862.36	732.42	733.48	1118.59	903.04	
G32	774.99	863.06	880.08	572.98	736.68	622.97	618.52	972.79	774.99	
G33	657.89	737.8	750.04	482.59	628.72	525.49	518.86	839.04	657.89	
G34	554.84	624.92	635.26	403.24	531.61	440.06	435.24	716.14	554.84	
G35	466.03	524.88	535.55	337.94	447.62	371.52	364.52	608.45	466.03	
G36	388.4	440.11	449.48	282.89	376.34	314.75	305.94	515.15	388.4	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	319.53	367.81	378.06	240.46	317.4	266.76	259.47	433.76	319.53	
G38	259.98	307.71	319.9	203.17	269.17	228.68	220.66	367.72	259.98	
G39	214.72	258.45	272.32	175.35	230.4	197.89	189.77	313.83	214.72	
G40	179.2	219.54	233.74	152.86	198.3	173.49	165.38	268.29	179.2	
G41	151.6	187.68	202.39	136.07	174.05	154.34	145.39	231.51	151.6	
G42	131.75	162.22	176.0	122.71	153.32	139.87	129.44	202.01	131.75	
G43	118.49	142.7	154.53	112.74	136.58	128.6	117.15	178.73	118.49	
G44	108.94	127.86	137.97	105.13	124.43	120.21	107.87	159.81	108.94	
G45	101.56	116.64	125.73	99.66	116.08	113.25	101.19	145.48	101.56	
G46	95.4	108.84	116.36	94.84	108.61	107.64	95.81	133.47	95.4	
G47	90.02	102.49	108.84	90.9	102.72	102.77	91.31	124.06	90.02	
G48	85.38	97.67	103.09	87.33	97.48	99.01	87.19	116.03	85.38	
G49	81.2	93.26	97.44	84.4	93.22	95.12	83.2	109.45	81.2	
G50	77.08	89.51	93.03	81.53	88.67	91.69	80.0	103.98	77.08	
G51	73.6	85.8	89.09	78.56	85.24	88.72	76.75	99.52	73.6	
G52	70.03	82.46	85.38	75.87	81.25	85.56	73.92	95.16	70.03	
G53	66.64	78.93	81.76	73.55	77.73	82.55	70.91	91.18	66.64	
G54	63.4	75.73	78.61	70.86	74.53	80.14	67.99	87.7	63.4	
G55	60.34	72.72	75.5	68.45	71.09	77.03	65.48	84.17	60.34	
G56	57.32	69.56	72.81	65.58	67.66	74.02	62.98	80.56	57.32	
G57	54.17	66.36	69.75	63.03	64.74	71.28	60.2	77.26	54.17	
G58	50.55	63.58	67.06	60.15	61.26	68.17	57.65	73.88	50.55	
G59	46.65	60.43	64.28	57.32	58.16	65.11	55.0	70.77	46.65	
G60	42.81	57.18	61.73	54.21	54.58	61.91	52.13	67.38	42.81	
G61	39.19	53.98	58.48	51.06	51.01	58.94	49.53	64.37	39.19	
G62	35.25	50.97	55.7	47.58	47.21	55.51	46.24	60.98	35.25	
G63	30.47	47.07	52.68	44.24	43.36	52.17	43.04	57.74	30.47	
G64	24.81	43.92	49.62	40.72	38.86	48.42	39.28	54.07	24.81	
G65	20.22	39.93	45.08	37.29	33.95	44.34	35.25	50.36	20.22	
G66	17.62	36.31	41.6	33.81	29.36	40.39	33.07	46.33	17.62	
G67	15.26	32.51	38.68	30.33	25.69	36.31	30.56	42.34	15.26	
G68	12.99	28.71	35.99	26.25	22.86	32.28	28.57	38.35	12.99	
G69	10.85	24.72	33.53	22.26	20.22	28.34	26.2	34.23	10.85	
G70	8.77	20.92	31.21	18.36	17.67	24.76	24.07	29.87	8.77	
G71	7.19	17.95	28.66	15.4	15.44	21.19	21.89	25.6	7.19	
G72	5.61	14.38	26.48	13.12	13.36	18.23	19.76	21.66	5.61	
G73	4.31	11.69	23.98	10.99	11.41	15.91	17.76	18.27	4.31	

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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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