

Report No.:

Test Time: 2024/9/20 11:47:37

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H116-38°-25W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

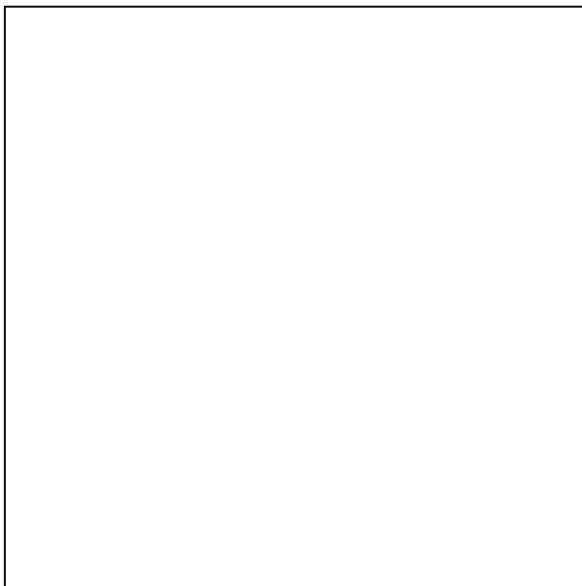
Voltage(V): 219.80 V
Current(A): 0.1170 A
Power(W): 25.05 W
Power Factor: 0.9670
Lamp Luminous Flux: 2223.03

Photometric Results

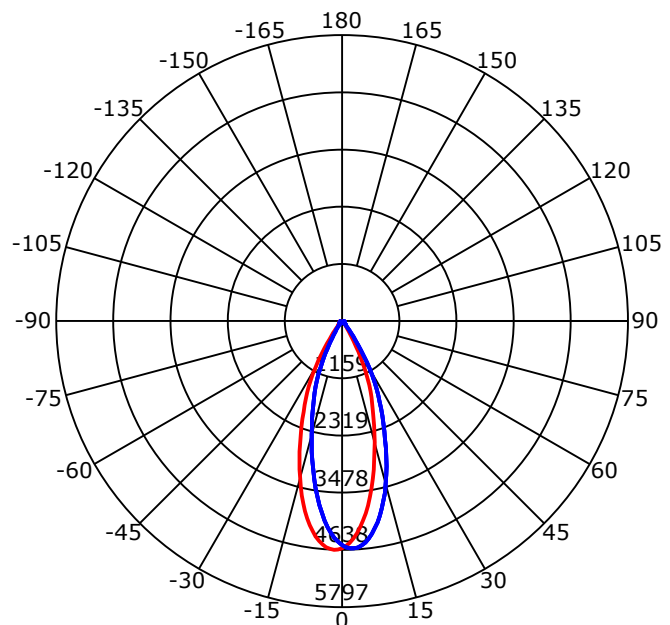
CIE Class: Direct
Luminaire Luminous Flux: 2223.031 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.74 lm/W
Beam Angle(50%) C0-180,C90-270: 37.2,37.0
Field Angle(10%) C0-180,C90-270: 64.9,64.6
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 4637.89 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4606.82 cd
Effective Luminous Flux: 1928.83 lm
ERP(ϕ use)(120deg): 2156.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.2 deg,37.0 deg

C0-180 — C90-270

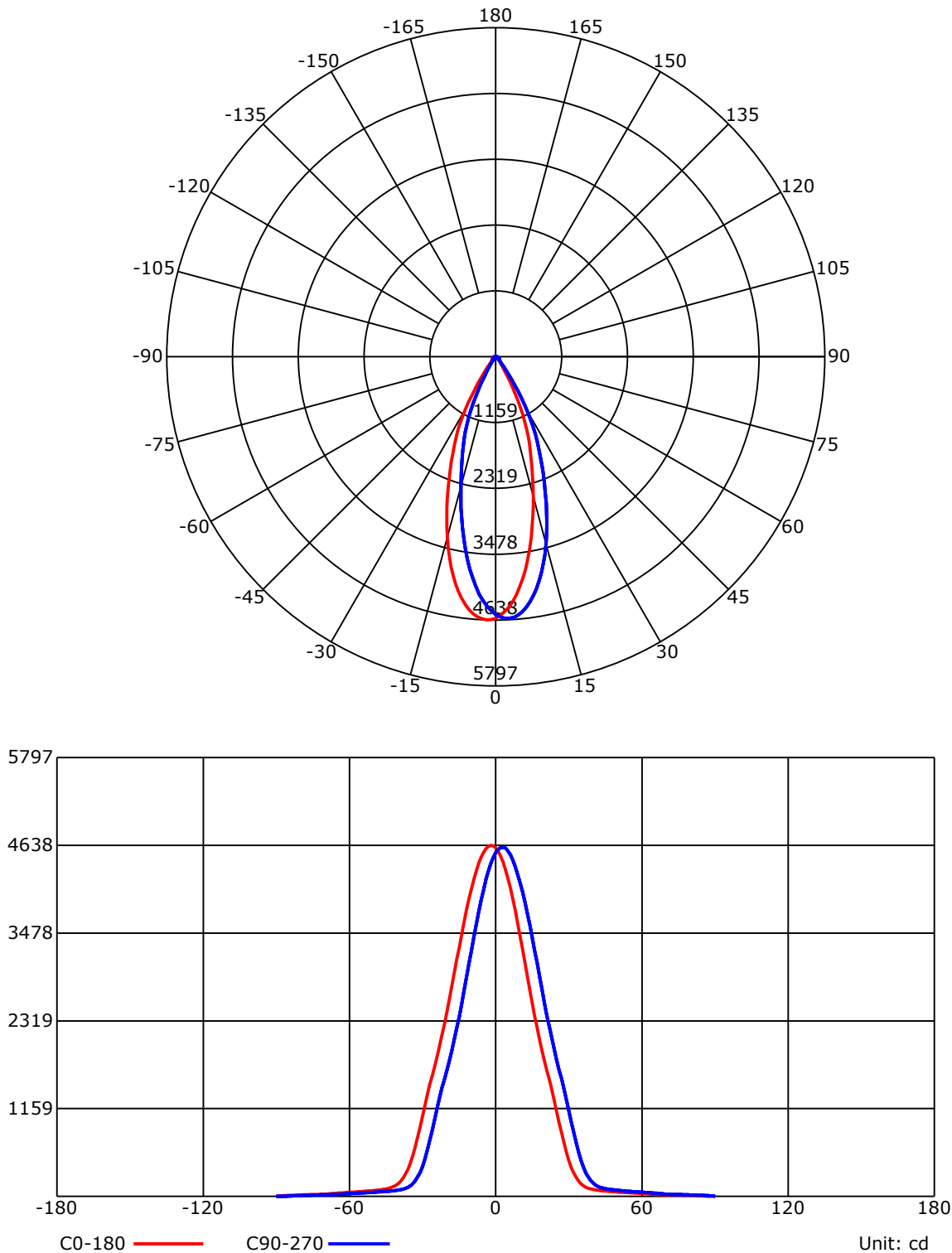
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 11:47:37

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



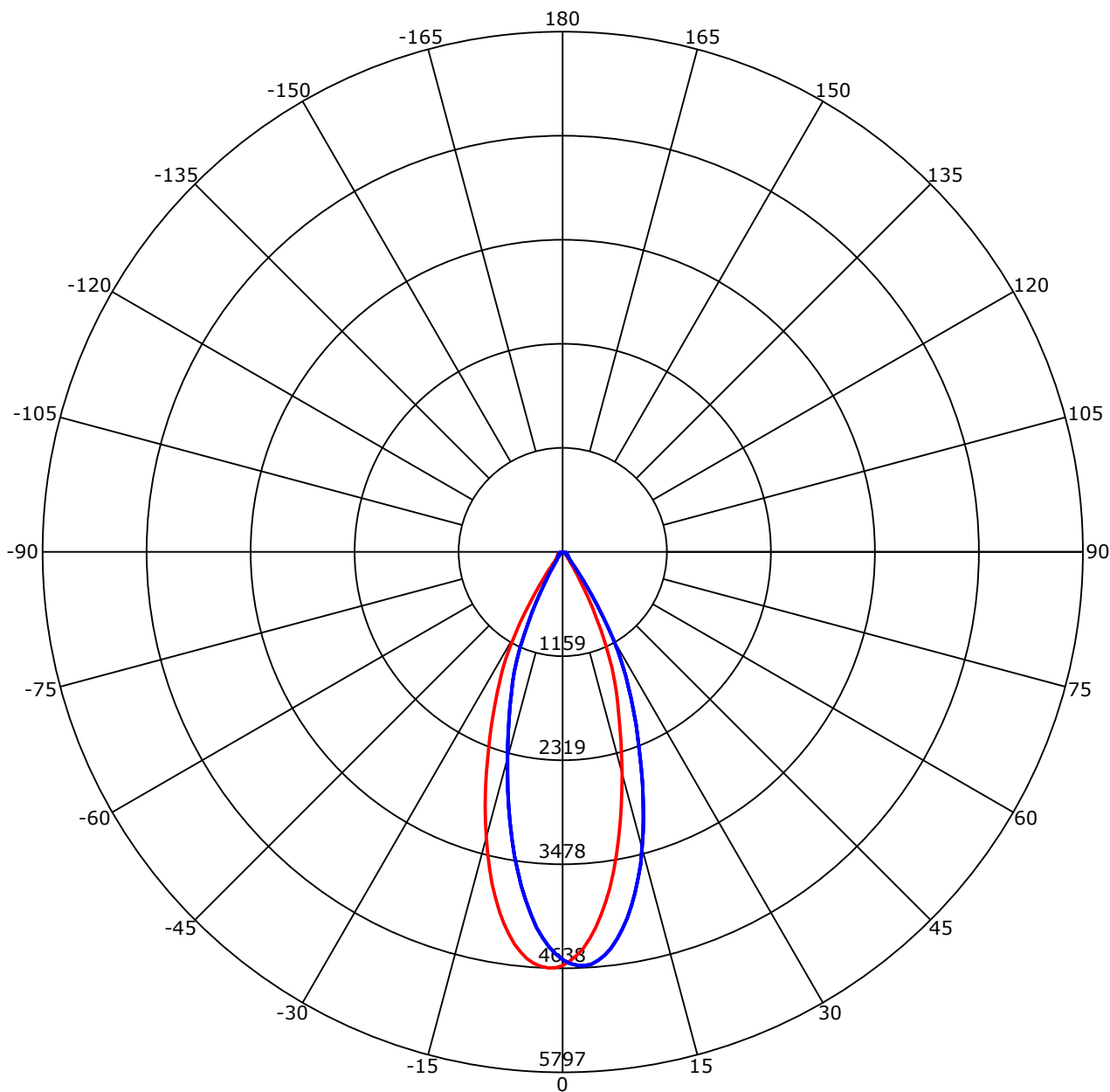
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

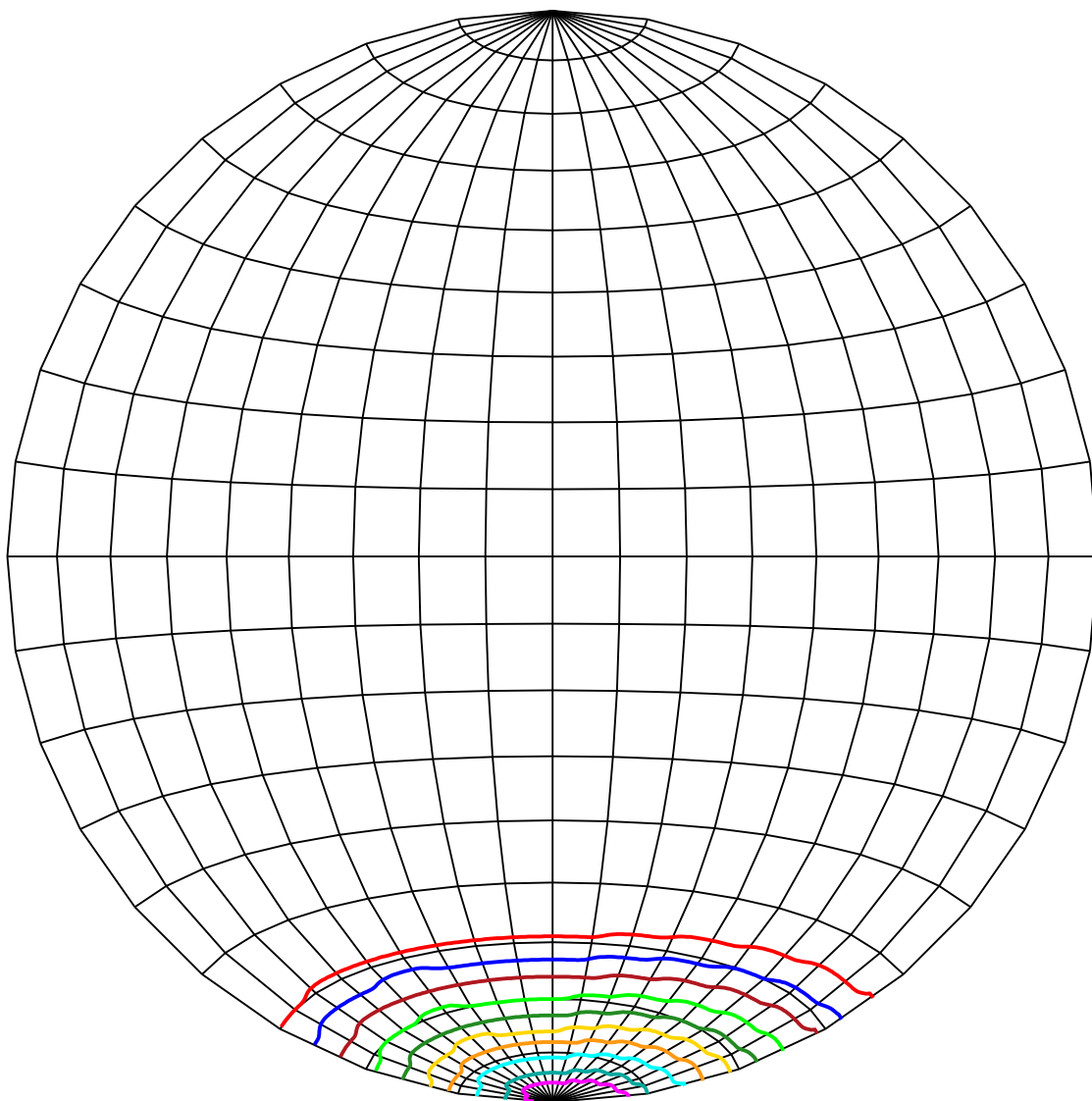
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 4637.888 cd

4405.994(95%I _{max})	2318.944(50%I _{max})
4174.099(90%I _{max})	1855.155(40%I _{max})
3710.311(80%I _{max})	1391.366(30%I _{max})
3246.522(70%I _{max})	927.578(20%I _{max})
2782.733(60%I _{max})	463.789(10%I _{max})

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G Interval: 1.0 Deg

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Humidity: 60

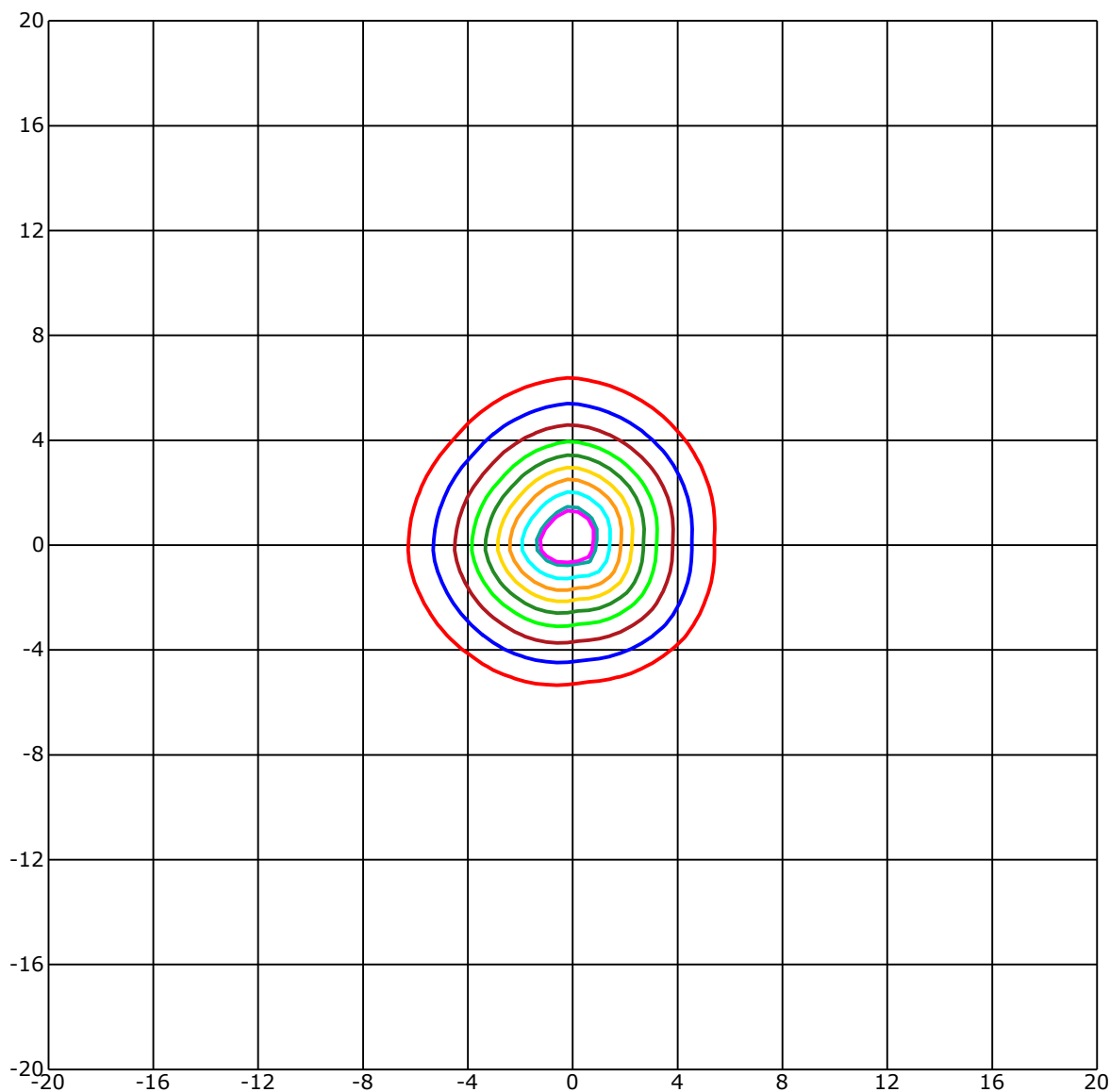
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ISOLX DIAGRAM



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

42.591(92%Emax)	23.147(50%Emax)
41.665(90%Emax)	18.518(40%Emax)
37.035(80%Emax)	13.888(30%Emax)
32.406(70%Emax)	9.259(20%Emax)
27.777(60%Emax)	4.629(10%Emax)

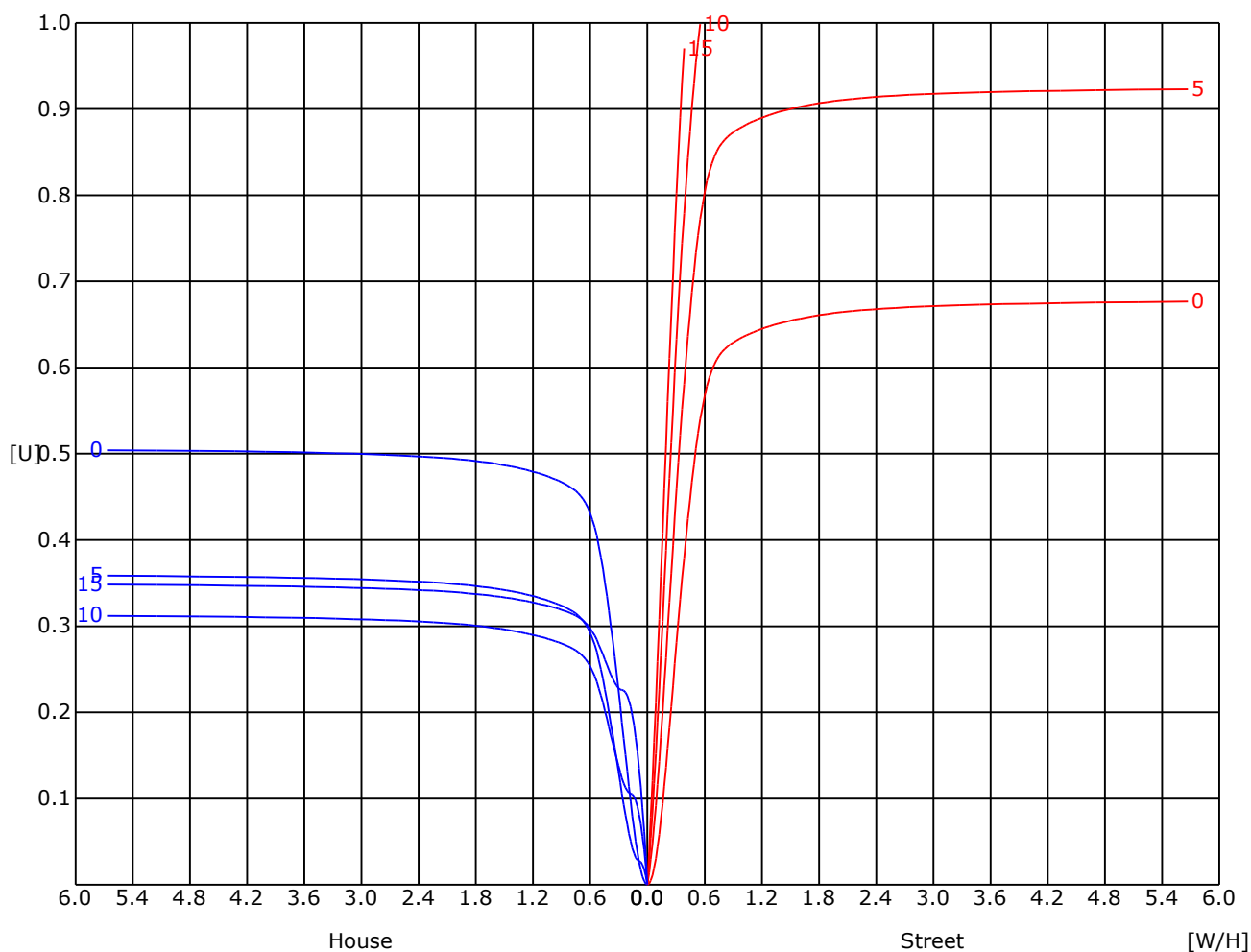
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UTILIZATION FACTOR DIAGRAM (ROAD)



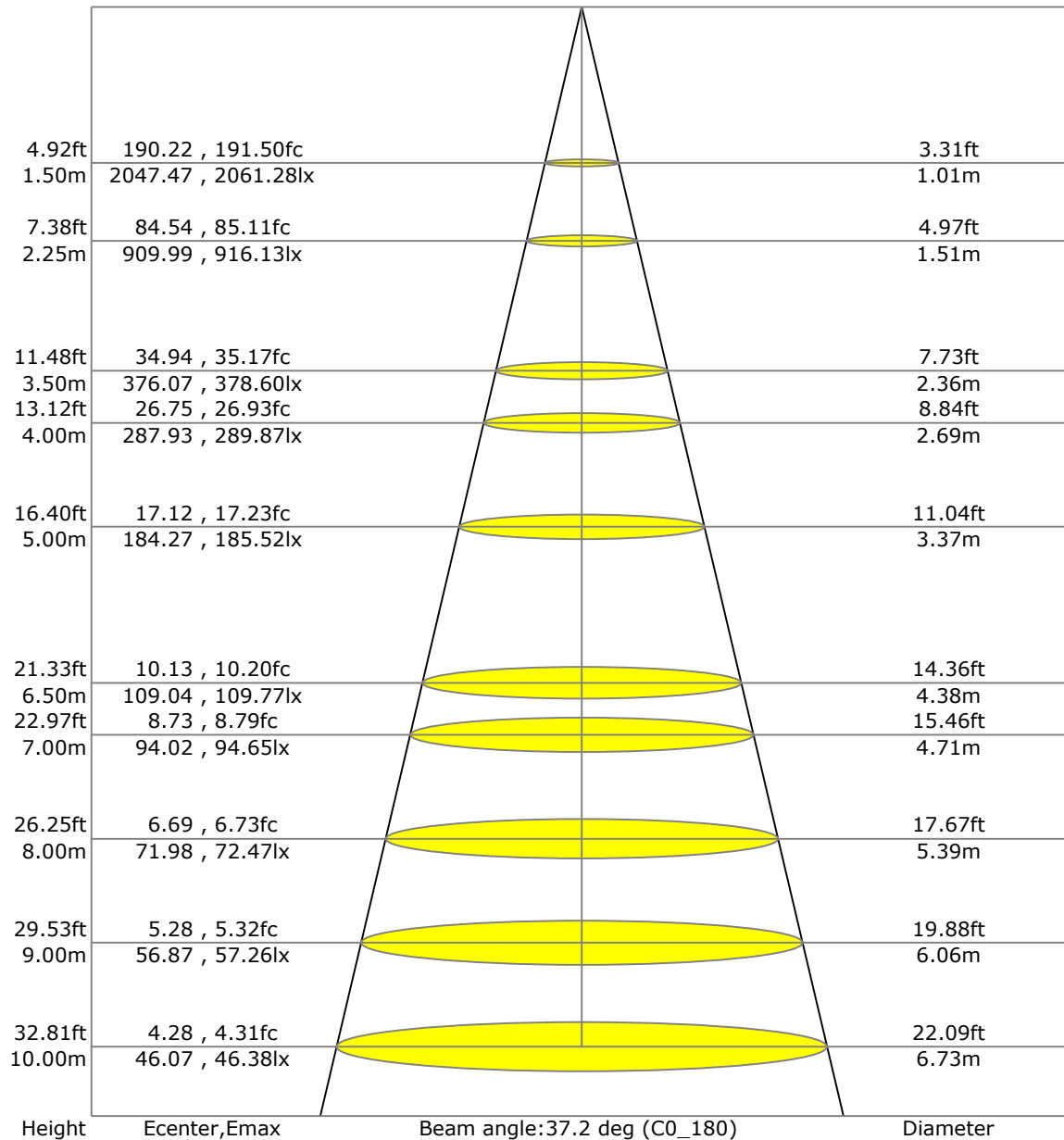
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LX-DISTANCE DIAGRAM



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	11.93	11.99	12.13	12.17	12.42	12.30	12.36	12.50	12.54	12.79
3H	12.01	12.07	12.22	12.26	12.51	12.35	12.40	12.56	12.60	12.84
4H	12.03	12.08	12.24	12.28	12.52	12.35	12.41	12.56	12.60	12.85
6H	12.02	12.07	12.24	12.28	12.53	12.34	12.40	12.56	12.60	12.85
8H	12.01	12.07	12.23	12.27	12.52	12.33	12.39	12.55	12.59	12.84
12H	12.00	12.06	12.22	12.26	12.52	12.32	12.38	12.55	12.58	12.84
4H 2H	13.00	13.06	13.21	13.25	13.50	13.72	13.77	13.93	13.97	14.22
3H	13.25	13.30	13.47	13.51	13.77	13.92	13.97	14.14	14.18	14.43
4H	13.33	13.39	13.56	13.60	13.86	13.97	14.03	14.20	14.24	14.50
6H	13.38	13.43	13.61	13.65	13.91	13.99	14.05	14.23	14.27	14.53
8H	13.38	13.43	13.63	13.66	13.93	13.99	14.04	14.23	14.27	14.53
12H	13.38	13.43	13.63	13.66	13.93	13.98	14.03	14.23	14.26	14.53
8H 4H	13.43	13.48	13.65	13.69	13.94	14.40	14.46	14.62	14.66	14.91
6H	14.14	14.19	14.40	14.43	14.70	15.06	15.11	15.31	15.35	15.62
8H	14.19	14.24	14.46	14.49	14.76	15.09	15.13	15.35	15.38	15.65
12H	14.22	14.27	14.49	14.52	14.80	15.09	15.13	15.36	15.39	15.67
12H 4H	14.13	14.18	14.38	14.41	14.68	15.34	15.39	15.58	15.62	15.89
6H	14.32	14.36	14.58	14.61	14.89	15.52	15.57	15.78	15.81	16.09

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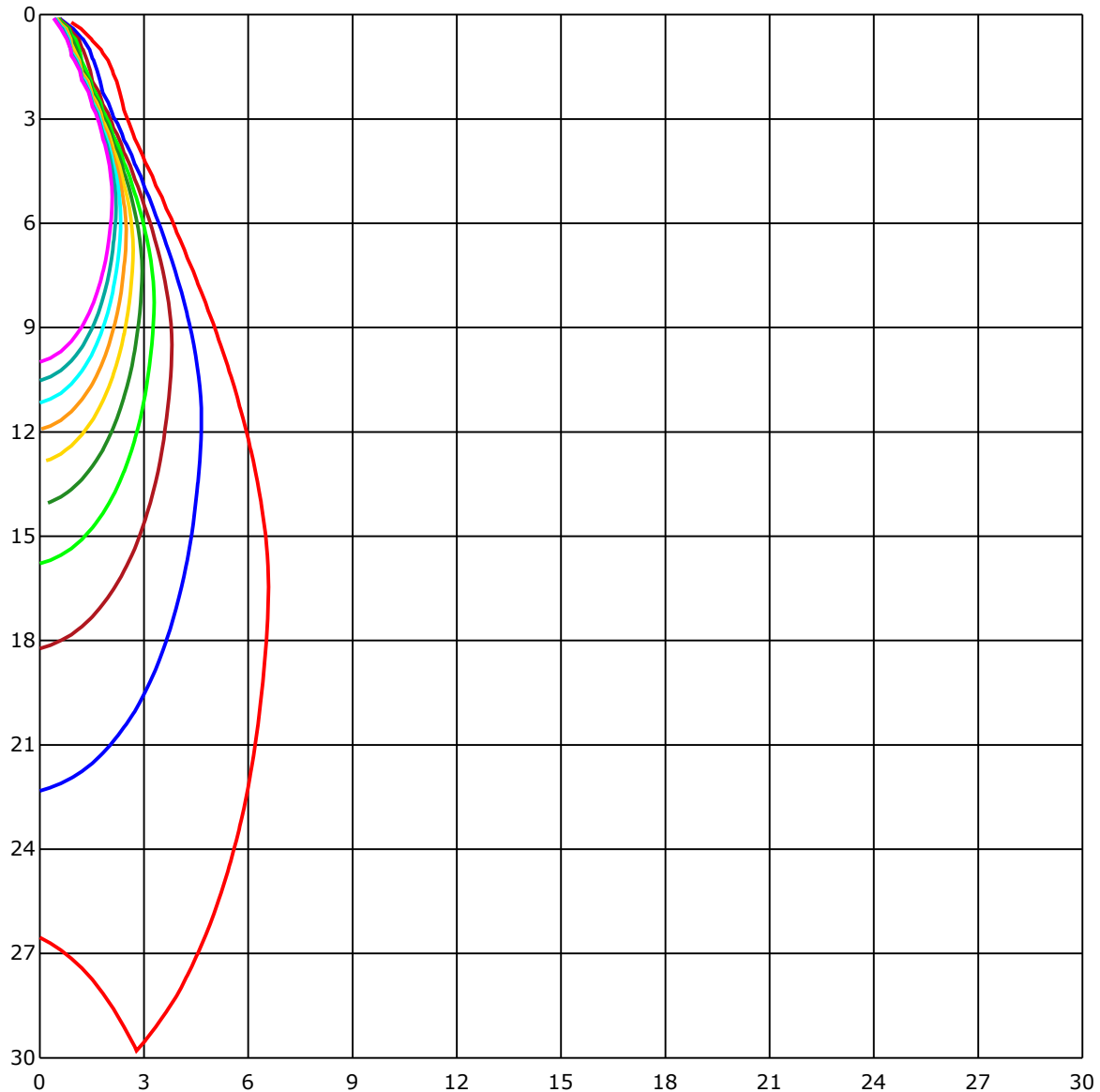
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

46.208	23.104
41.588	18.483
36.967	13.863
32.346	9.242
27.725	4.621

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4606.82	4580.85	4539.62	4614.79	4606.82	4580.85	4539.62	4614.79	4606.82	
G1	4557.52	4590.17	4583.86	4629.17	4631.3	4555.29	4477.01	4580.61	4557.52	
G2	4494.86	4577.32	4607.51	4626.99	4637.89	4515.46	4400.81	4526.96	4494.86	
G3	4416.3	4545.51	4614.52	4598.93	4623.47	4454.61	4301.57	4453.87	4416.3	
G4	4317.29	4493.52	4602.74	4557.43	4594.71	4376.14	4196.48	4362.97	4317.29	
G5	4202.05	4422.47	4563.36	4493.1	4548.01	4284.5	4055.27	4253.01	4202.05	
G6	4068.85	4341.55	4512.35	4418.11	4480.4	4183.12	3908.86	4133.73	4068.85	
G7	3927.27	4238.03	4442.37	4323.27	4401.32	4058.65	3758.6	3998.27	3927.27	
G8	3778.86	4123.07	4353.79	4211.65	4297.91	3919.06	3594.98	3853.76	3778.86	
G9	3607.13	3989.64	4250.93	4095.43	4189.8	3774.5	3429.61	3691.86	3607.13	
G10	3438.83	3852.79	4144.4	3959.92	4066.03	3619.66	3249.67	3525.51	3438.83	
G11	3258.43	3696.04	4016.03	3810.68	3925.92	3461.42	3069.96	3348.68	3258.43	
G12	3079.98	3535.39	3880.2	3662.6	3786.7	3290.89	2892.52	3168.93	3079.98	
G13	2898.14	3372.75	3731.38	3499.36	3624.8	3120.6	2723.72	2991.91	2898.14	
G14	2725.25	3201.2	3587.61	3329.2	3460.21	2954.95	2542.11	2818.74	2725.25	
G15	2552.82	3024.79	3416.9	3164.47	3288.53	2784.65	2375.52	2654.8	2552.82	
G16	2381.09	2854.59	3244.8	2990.15	3127.14	2610.7	2220.3	2482.61	2381.09	
G17	2218.4	2682.39	3077.94	2814.47	2954.11	2446.29	2075.24	2317.79	2218.4	
G18	2063.27	2509.88	2899.85	2639.68	2784.47	2289.12	1929.8	2159.87	2063.27	
G19	1922.24	2339.03	2732.16	2475.7	2616.26	2136.55	1799.49	2015.04	1922.24	
G20	1789.47	2178.01	2552.49	2306.65	2450.0	1998.53	1675.85	1879.48	1789.47	
G21	1660.91	2028.31	2389.25	2149.35	2291.95	1860.52	1557.82	1749.21	1660.91	
G22	1537.79	1884.91	2233.94	1999.92	2138.31	1731.17	1440.77	1627.25	1537.79	
G23	1407.61	1744.16	2089.61	1864.55	1999.04	1603.45	1313.09	1512.14	1407.61	
G24	1262.78	1612.78	1941.91	1729.18	1859.22	1485.66	1174.43	1387.48	1262.78	
G25	1118.96	1486.59	1799.11	1602.57	1730.57	1354.69	1031.87	1246.22	1118.96	
G26	975.43	1349.03	1668.61	1474.57	1605.49	1219.74	887.68	1101.06	975.43	
G27	835.84	1202.12	1549.89	1346.44	1485.43	1076.53	749.11	957.67	835.84	
G28	705.38	1057.89	1412.06	1201.7	1353.81	937.17	620.0	816.03	705.38	
G29	580.03	917.69	1272.7	1059.51	1211.25	801.33	502.49	683.49	580.03	
G30	470.39	781.67	1129.4	914.35	1069.16	674.63	400.69	559.48	470.39	
G31	380.66	653.81	983.82	776.34	926.46	554.7	321.62	452.68	380.66	
G32	307.38	540.47	840.24	646.95	784.36	453.56	258.78	364.84	307.38	
G33	248.07	440.06	706.59	533.05	657.52	368.37	209.02	293.7	248.07	
G34	202.43	358.35	583.18	431.39	543.81	300.1	170.43	235.78	202.43	
G35	166.95	289.85	475.73	346.62	445.44	245.52	141.91	193.11	166.95	
G36	139.78	236.29	385.01	275.75	363.08	203.36	121.32	160.55	139.78	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	120.76	194.08	310.35	222.1	296.02	170.71	107.04	137.92	120.76	
G38	106.85	161.48	253.12	179.8	243.47	147.11	96.83	121.64	106.85	
G39	97.44	135.97	208.65	148.77	201.74	128.74	89.92	110.79	97.44	
G40	90.53	118.03	174.51	126.93	170.25	115.89	84.27	102.31	90.53	
G41	84.68	105.51	149.75	111.91	146.97	106.43	79.49	95.63	84.68	
G42	80.09	96.97	131.34	102.21	129.62	98.78	75.69	89.92	80.09	
G43	76.1	89.92	118.35	95.53	116.68	92.94	72.21	85.15	76.1	
G44	72.58	84.78	108.89	90.06	107.41	87.93	69.1	81.2	72.58	
G45	69.56	80.37	102.12	85.66	100.68	83.8	66.18	78.19	69.56	
G46	66.78	76.75	96.09	81.71	94.79	79.95	63.67	74.29	66.78	
G47	64.14	73.23	91.59	78.65	89.88	76.29	61.31	71.37	64.14	
G48	61.87	70.07	87.28	75.41	85.8	73.6	58.99	68.5	61.87	
G49	59.41	67.43	83.89	72.72	82.18	70.26	56.86	65.95	59.41	
G50	57.27	64.83	80.05	69.7	78.98	67.8	54.54	63.3	57.27	
G51	55.09	62.47	76.89	67.25	75.73	65.11	52.64	60.94	55.09	
G52	53.29	60.38	73.97	64.83	72.9	62.56	50.6	58.8	53.29	
G53	51.25	58.16	71.28	62.89	70.4	60.24	48.46	56.53	51.25	
G54	49.44	56.16	68.87	60.61	67.66	58.25	46.47	54.45	49.44	
G55	47.3	54.07	66.41	58.8	65.34	56.02	44.94	52.45	47.3	
G56	45.36	51.99	64.23	56.67	63.07	53.98	42.99	50.46	45.36	
G57	43.41	50.27	61.87	54.72	61.03	51.85	41.37	48.23	43.41	
G58	41.6	48.18	59.64	52.82	58.67	49.85	39.51	46.1	41.6	
G59	39.93	46.19	57.88	51.29	56.67	47.63	38.03	43.96	39.93	
G60	37.84	44.34	55.79	49.02	54.72	45.68	36.27	42.11	37.84	
G61	36.13	42.39	53.43	46.65	52.5	43.64	34.64	40.39	36.13	
G62	34.27	40.39	51.25	44.57	50.46	41.78	32.7	38.49	34.27	
G63	32.09	38.17	48.97	42.57	47.81	39.84	31.03	36.82	32.09	
G64	29.87	36.36	46.19	40.02	45.59	37.89	28.89	34.78	29.87	
G65	27.22	33.85	44.01	37.8	43.45	35.76	26.34	32.46	27.22	
G66	25.27	31.86	41.65	35.43	41.18	33.07	24.81	29.77	25.27	
G67	24.44	28.89	38.96	32.97	38.77	29.96	24.12	28.34	24.44	
G68	23.7	26.02	36.45	29.77	36.27	28.52	23.47	27.5	23.7	
G69	22.91	24.16	33.39	26.71	32.88	27.55	22.86	26.81	22.91	
G70	22.12	23.56	29.82	24.49	29.87	26.76	22.03	25.88	22.12	
G71	21.47	22.86	28.1	23.93	28.34	25.97	21.24	25.04	21.47	
G72	20.68	22.17	27.13	23.05	27.55	25.18	20.36	24.16	20.68	
G73	19.9	21.43	26.43	22.26	26.67	24.16	19.57	23.42	19.9	

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Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: