

Report No.:

Test Time: 2024/9/20 10:26:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H89-15°-15W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.0720 A
Power(W): 15.14 W
Power Factor: 0.9510
Lamp Luminous Flux: 1575.59

Photometric Results

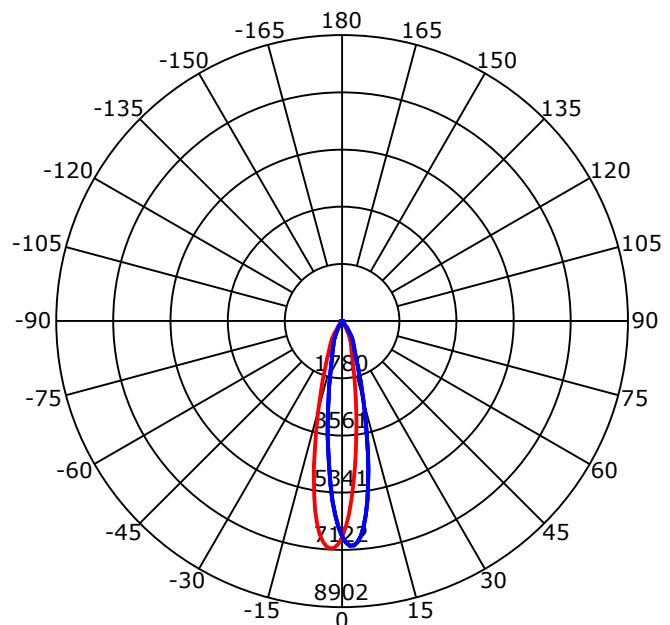
CIE Class: Direct
Luminaire Luminous Flux: 1575.592 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.07 lm/W
Beam Angle(50%) C0-180,C90-270: 20.4,19.9
Field Angle(10%) C0-180,C90-270: 50.4,50.4
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 7121.70 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6732.51 cd
Effective Luminous Flux: 1231.69 lm
ERP(ϕ use)(120deg): 1536.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.4 deg,19.9 deg

C0-180 — C90-270 —

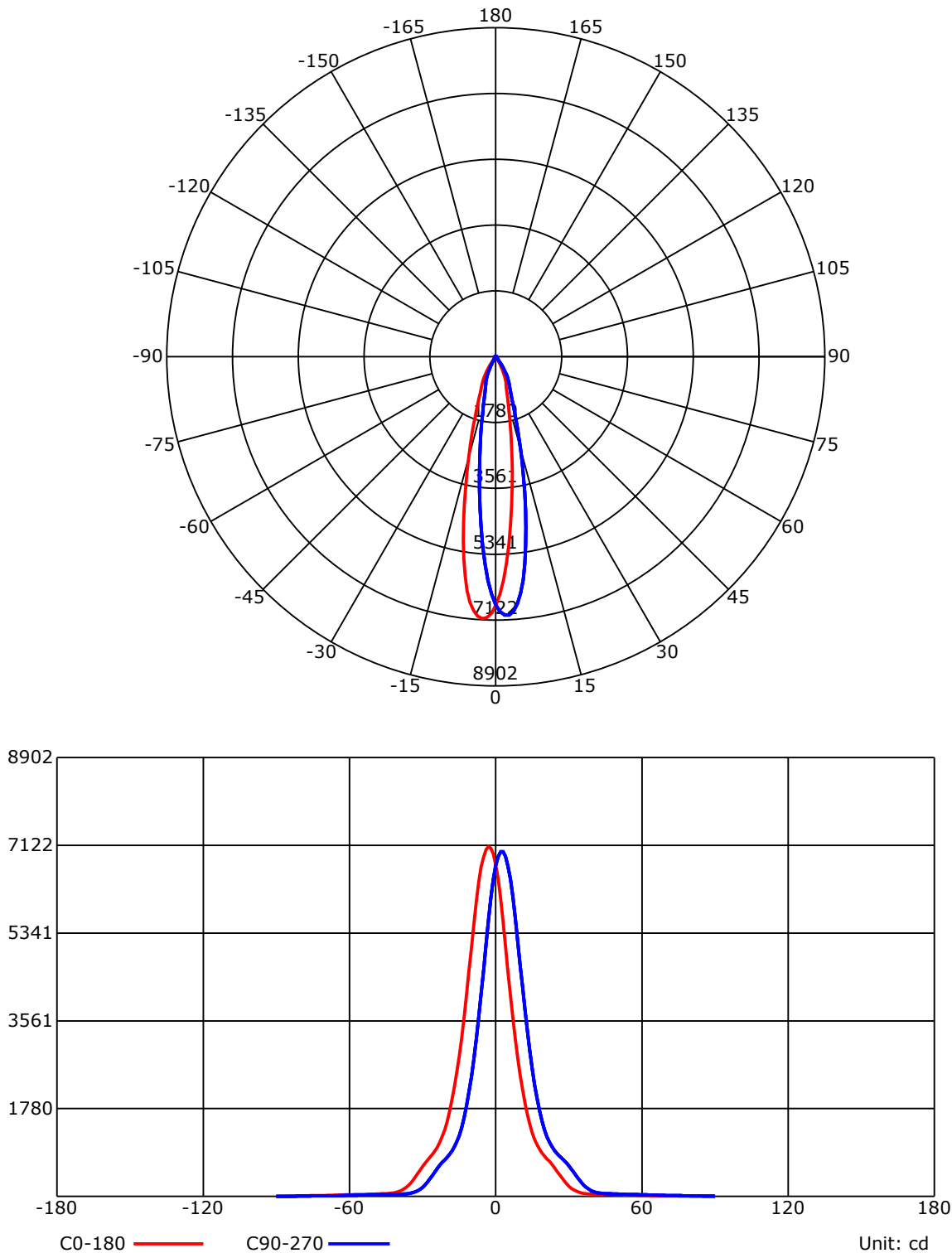
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 10:26:05

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



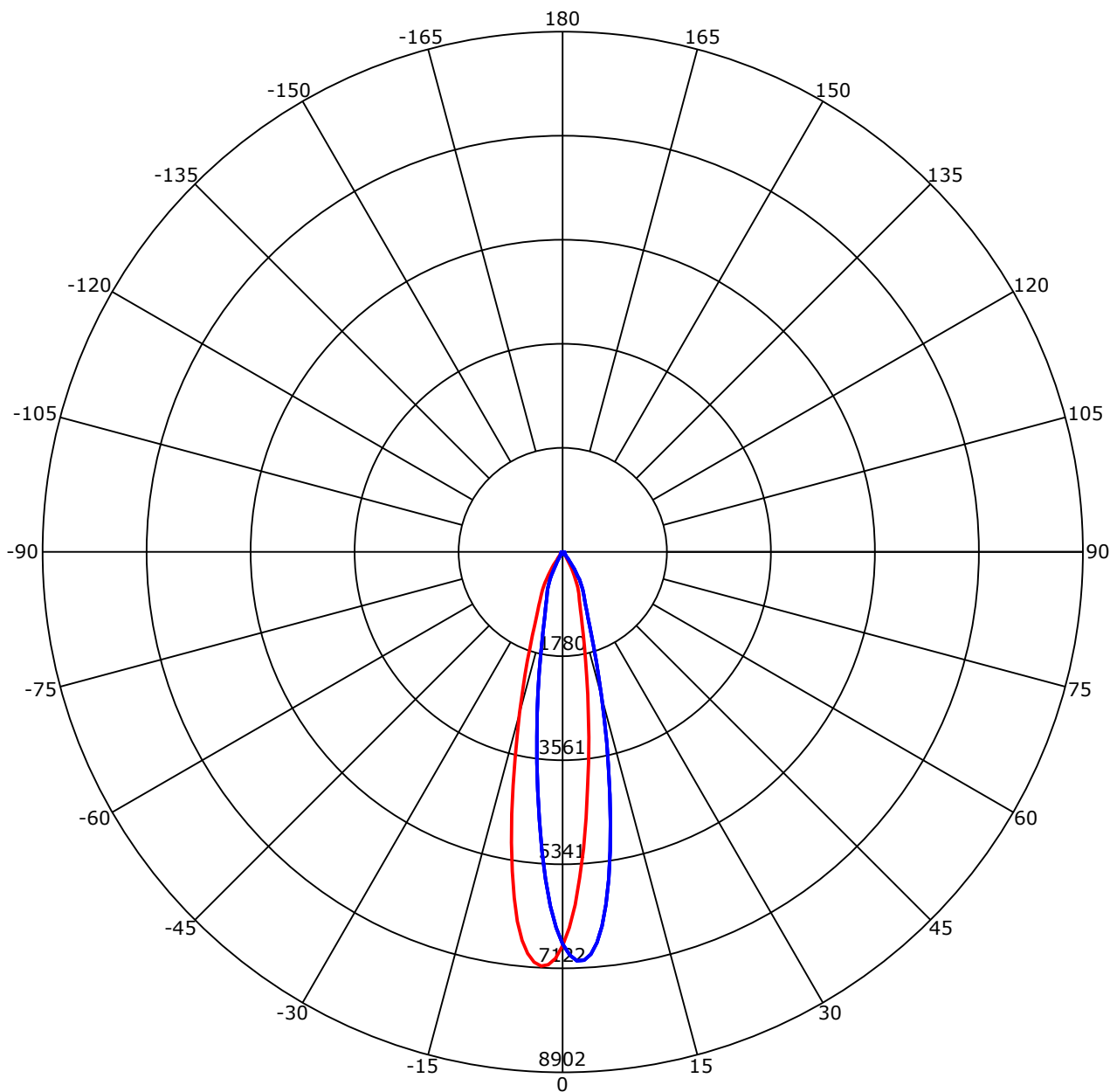
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

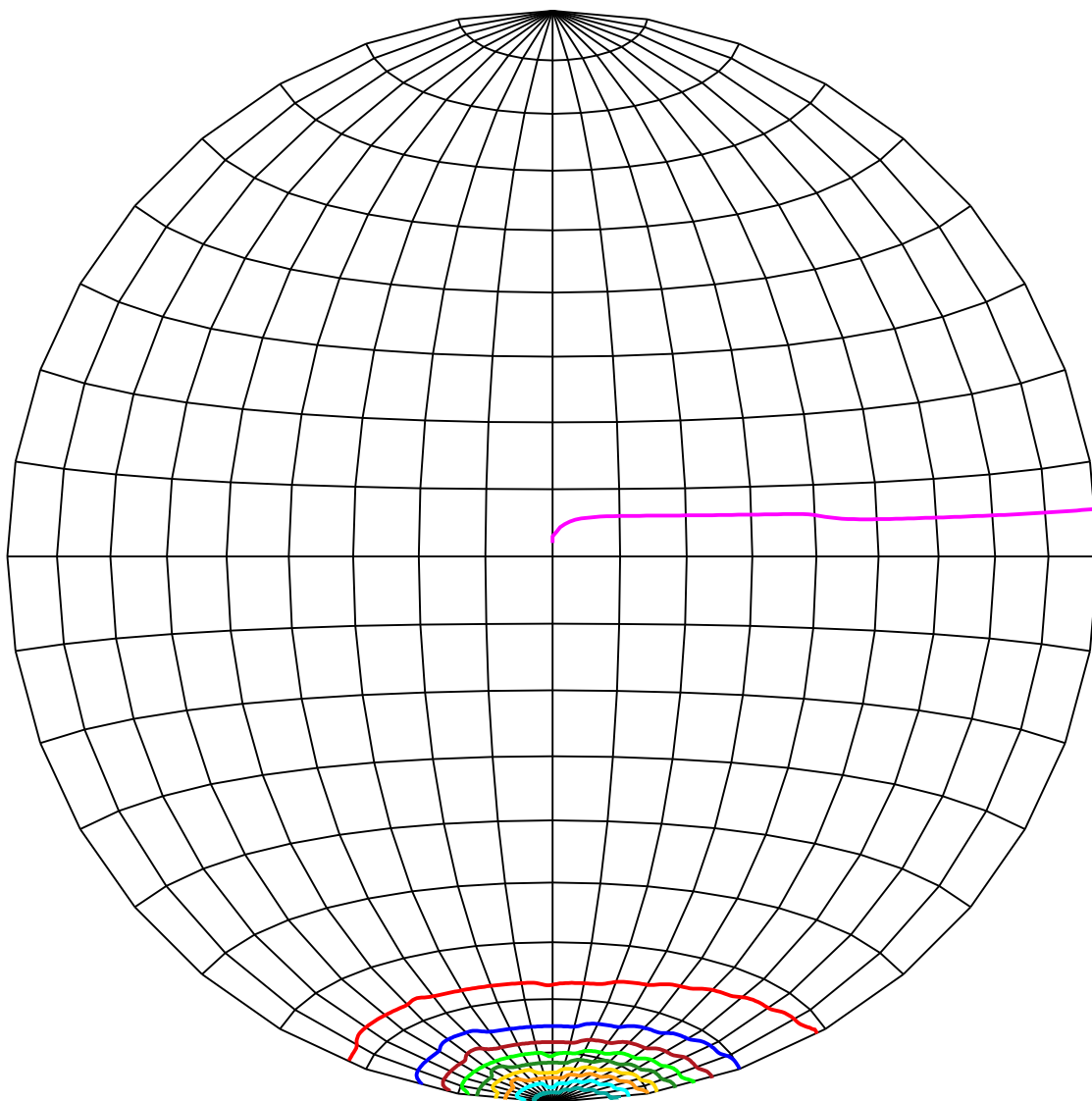
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 7121.699 cd

6765.614(95%I _{max})	3560.85(50%I _{max})
6409.529(90%I _{max})	2848.68(40%I _{max})
5697.359(80%I _{max})	2136.51(30%I _{max})
4985.189(70%I _{max})	1424.34(20%I _{max})
4273.02(60%I _{max})	712.17(10%I _{max})

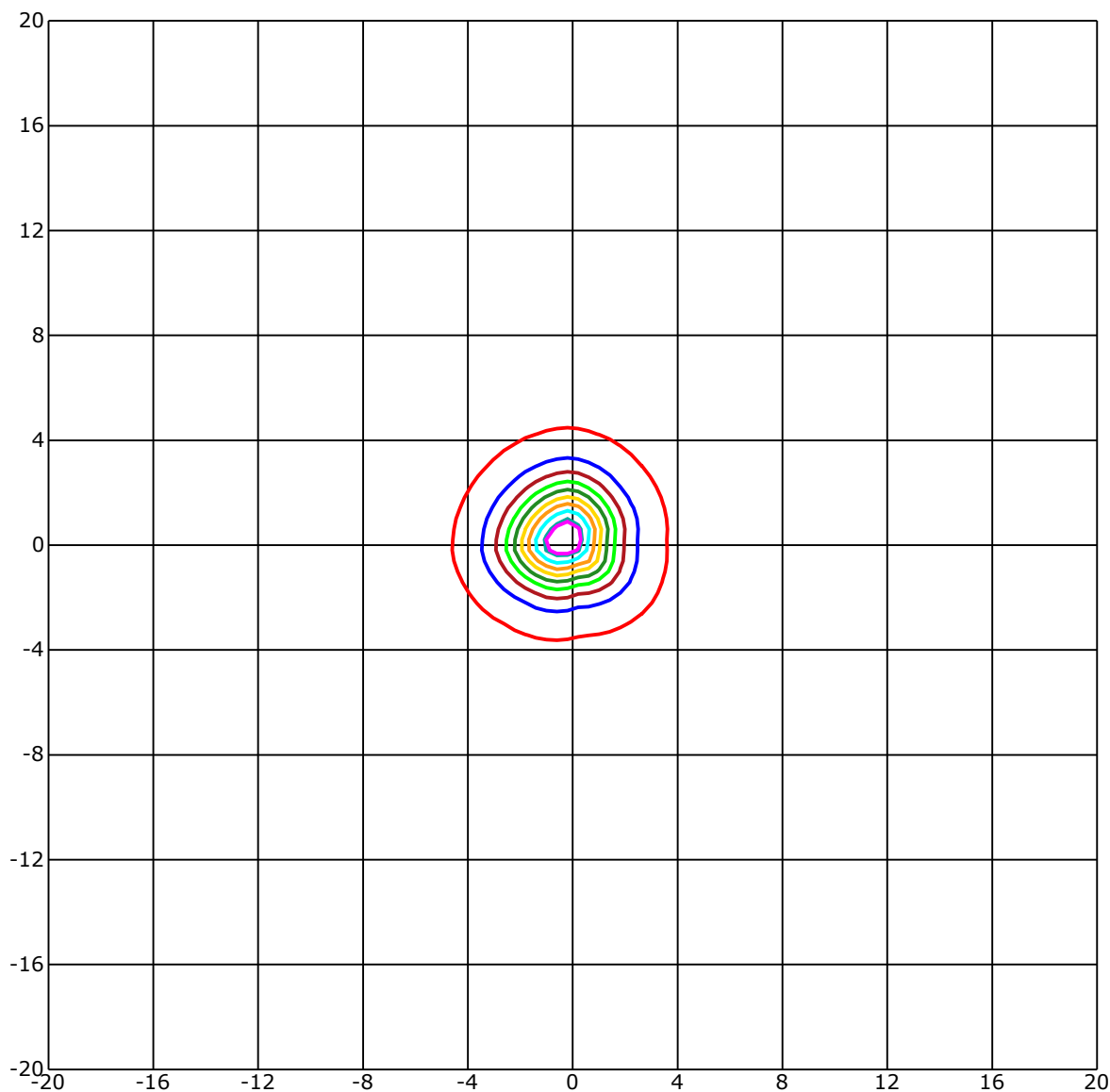
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ISOLX DIAGRAM



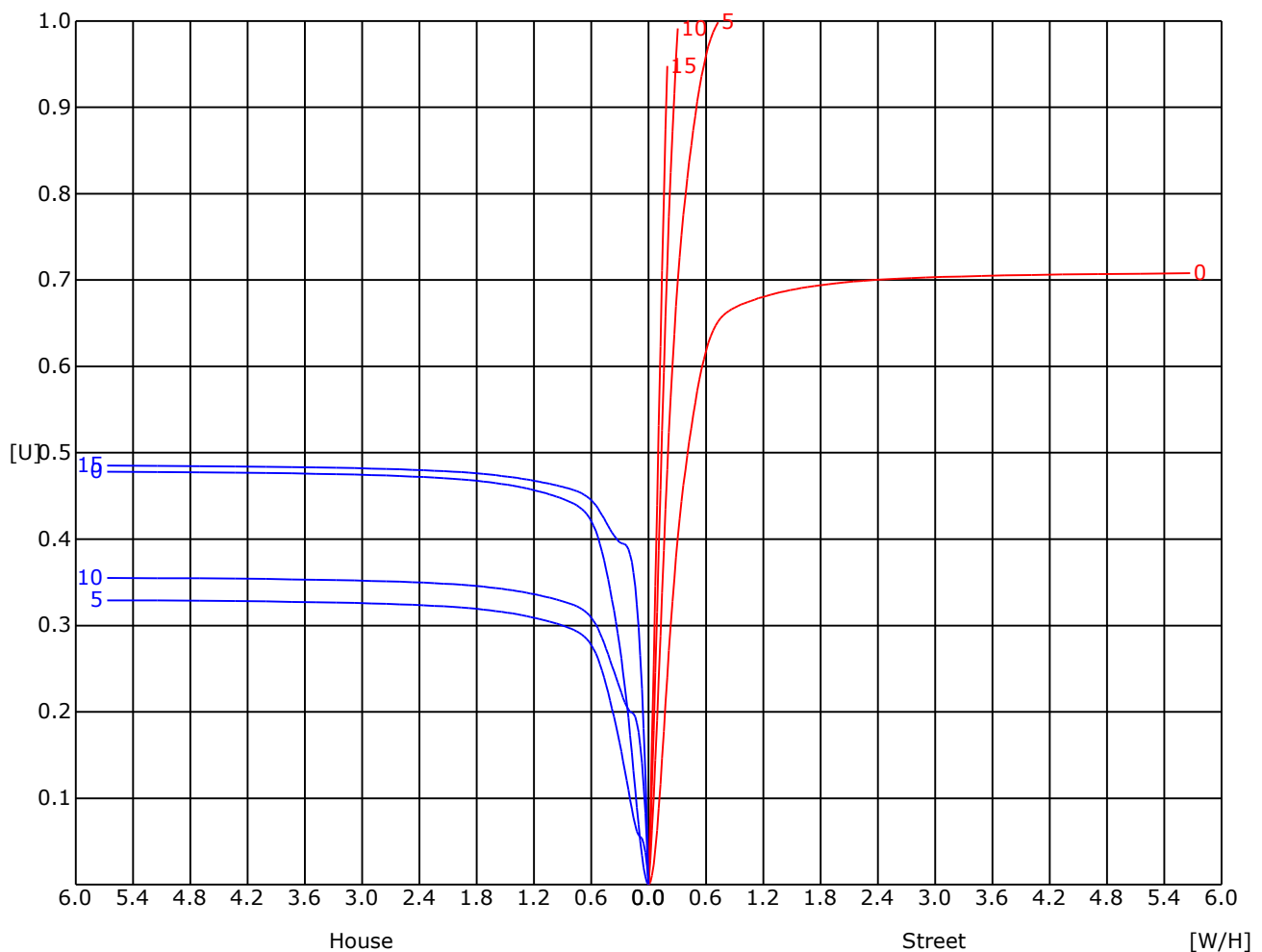
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UTILIZATION FACTOR DIAGRAM (ROAD)



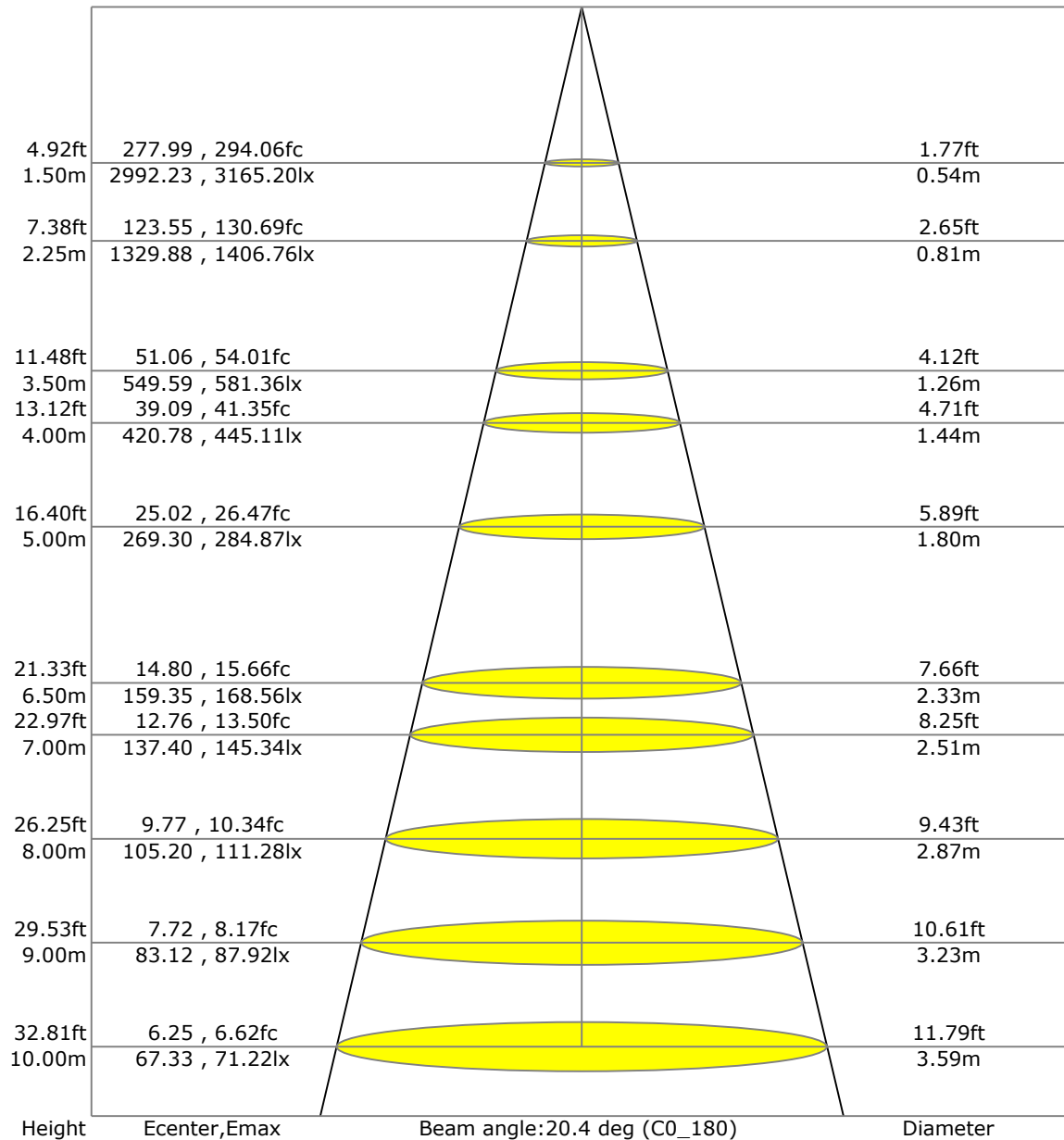
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LX-DISTANCE DIAGRAM



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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	9.82	9.88	10.02	10.07	10.31	10.31	10.37	10.51	10.56	10.80
3H	9.93	10.00	10.14	10.19	10.44	10.37	10.43	10.58	10.62	10.87
4H	9.95	10.02	10.17	10.21	10.46	10.37	10.44	10.58	10.63	10.88
6H	9.95	10.02	10.17	10.22	10.47	10.36	10.42	10.58	10.63	10.88
8H	9.94	10.01	10.16	10.21	10.46	10.35	10.42	10.57	10.62	10.87
12H	9.93	10.00	10.16	10.20	10.46	10.34	10.41	10.57	10.61	10.87
4H 2H	11.00	11.06	11.21	11.26	11.51	12.08	12.14	12.29	12.34	12.58
3H	11.29	11.35	11.51	11.56	11.81	12.29	12.35	12.51	12.56	12.82
4H	11.38	11.45	11.61	11.66	11.92	12.34	12.41	12.57	12.62	12.88
6H	11.43	11.50	11.67	11.72	11.98	12.35	12.41	12.59	12.64	12.90
8H	11.44	11.50	11.69	11.73	12.00	12.34	12.40	12.58	12.63	12.90
12H	11.44	11.50	11.69	11.73	12.00	12.33	12.39	12.58	12.62	12.89
8H 4H	11.22	11.28	11.44	11.49	11.74	12.87	12.94	13.09	13.14	13.40
6H	11.87	11.93	12.12	12.17	12.44	13.49	13.55	13.75	13.79	14.06
8H	11.90	11.96	12.17	12.21	12.49	13.49	13.55	13.75	13.80	14.07
12H	11.92	11.98	12.19	12.23	12.51	13.48	13.53	13.75	13.79	14.07
12H 4H	11.74	11.81	11.99	12.04	12.31	13.82	13.88	14.07	14.12	14.39
6H	11.87	11.93	12.14	12.18	12.46	13.95	14.00	14.21	14.25	14.53

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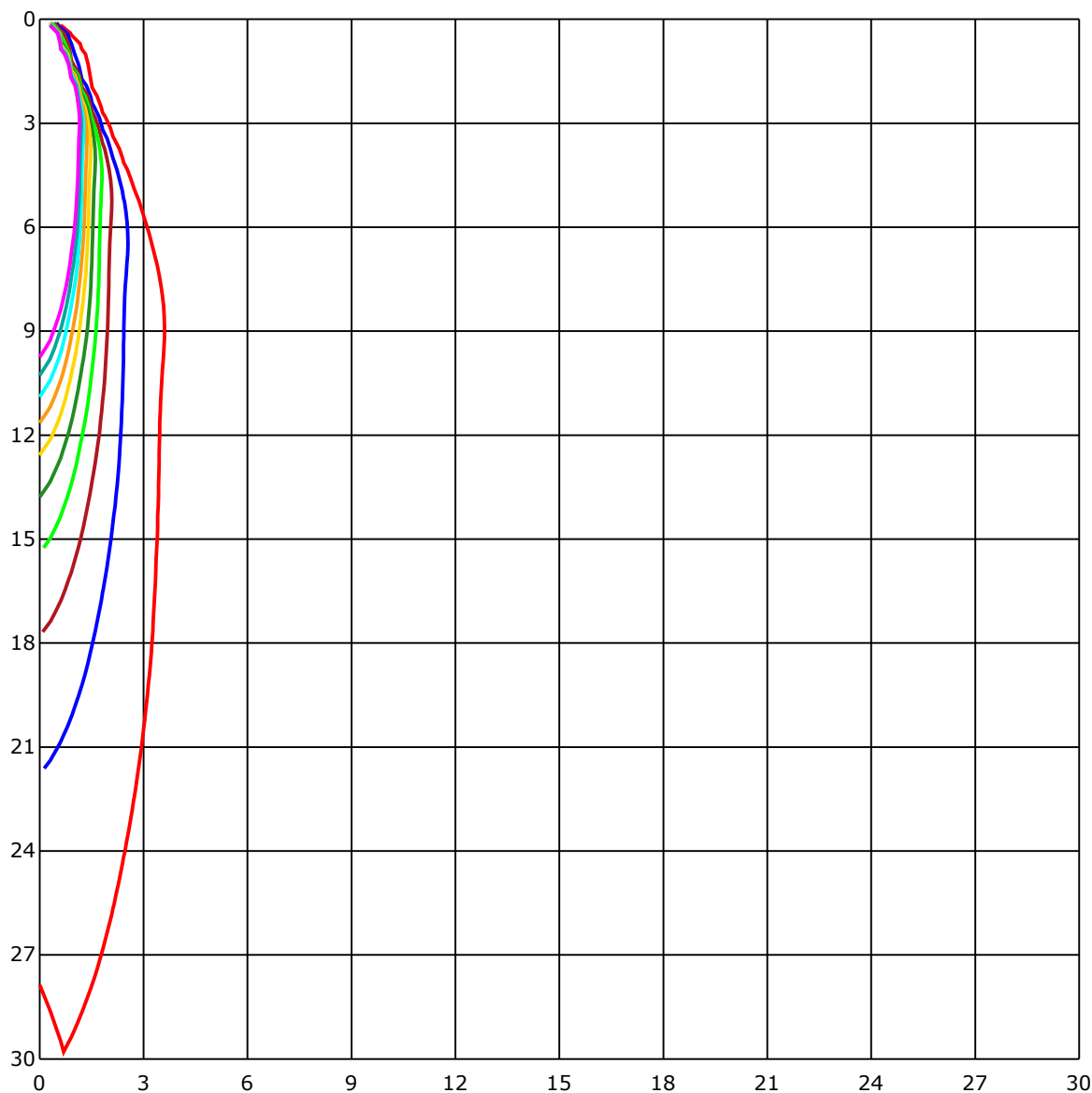
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

70.893	35.446
63.803	28.357
56.714	21.268
49.625	14.179
42.536	7.089

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G Interval: 1.0 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6732.51	6955.63	6707.05	6937.49	6732.51	6955.63	6707.05	6937.49	6732.51	
G1	6430.0	6907.77	6896.96	7074.12	6947.84	6911.34	6426.29	6713.73	6430.0	
G2	6037.29	6757.55	6995.19	7121.7	7064.29	6771.84	6056.02	6407.42	6037.29	
G3	5578.4	6506.34	6994.03	7086.08	7093.83	6548.82	5610.07	6017.67	5578.4	
G4	5086.48	6165.42	6898.72	6965.32	7033.82	6237.96	5123.77	5569.96	5086.48	
G5	4567.63	5755.0	6708.02	6758.39	6892.69	5845.52	4604.13	5077.91	4567.63	
G6	4071.17	5281.36	6435.7	6460.1	6678.3	5397.3	4100.16	4583.95	4071.17	
G7	3618.22	4794.27	6077.68	6085.8	6366.42	4910.95	3630.97	4096.03	3618.22	
G8	3199.39	4292.39	5651.95	5649.95	5975.89	4421.78	3190.26	3640.06	3199.39	
G9	2814.47	3825.52	5179.14	5165.74	5530.63	3941.51	2787.58	3216.92	2814.47	
G10	2471.75	3393.11	4703.05	4679.67	5052.35	3488.78	2429.27	2830.66	2471.75	
G11	2156.35	2978.88	4230.15	4200.01	4565.22	3069.87	2111.09	2491.56	2156.35	
G12	1884.73	2612.51	3769.13	3734.81	4081.47	2693.85	1828.75	2185.47	1884.73	
G13	1653.96	2282.17	3344.18	3315.85	3627.4	2349.69	1593.67	1919.32	1653.96	
G14	1459.32	1985.18	2941.91	2923.41	3216.79	2050.24	1397.68	1681.0	1459.32	
G15	1288.65	1730.99	2583.94	2574.2	2846.06	1788.22	1234.49	1482.69	1288.65	
G16	1153.37	1525.5	2255.04	2260.46	2505.14	1567.74	1107.0	1311.38	1153.37	
G17	1041.28	1349.27	1967.46	1991.44	2210.56	1377.32	1002.84	1173.45	1041.28	
G18	951.96	1203.14	1727.79	1740.54	1953.87	1223.91	917.78	1059.65	951.96	
G19	879.8	1085.57	1525.13	1532.87	1717.45	1101.25	850.35	969.08	879.8	
G20	818.12	996.11	1351.54	1355.9	1516.36	1007.89	792.2	896.36	818.12	
G21	762.98	919.31	1211.62	1212.69	1347.6	928.36	741.09	832.78	762.98	
G22	709.65	858.61	1101.66	1096.47	1210.42	863.48	689.57	773.79	709.65	
G23	650.56	802.82	1010.72	1002.14	1093.97	806.34	631.69	715.68	650.56	
G24	586.24	755.93	936.66	922.33	999.5	757.55	566.39	651.54	586.24	
G25	520.71	708.35	877.62	855.78	920.01	702.88	497.94	584.06	520.71	
G26	453.7	657.06	823.22	794.75	854.99	644.26	427.31	513.94	453.7	
G27	383.16	599.09	776.1	740.67	794.47	577.66	357.51	444.42	383.16	
G28	319.3	536.94	730.52	685.67	734.78	507.03	294.26	376.06	319.3	
G29	258.59	469.0	680.57	622.41	673.75	432.74	235.5	311.6	258.59	
G30	206.19	399.72	621.53	555.59	607.71	362.01	186.29	253.31	206.19	
G31	165.19	331.31	557.95	485.09	538.01	294.72	148.17	203.64	165.19	
G32	132.87	269.77	486.02	415.11	464.55	238.42	116.96	164.31	132.87	
G33	106.67	214.86	417.15	348.52	393.5	190.42	94.1	133.56	106.67	
G34	87.14	170.06	351.48	287.86	327.0	151.84	76.89	109.22	87.14	
G35	72.81	134.63	289.76	234.2	266.99	122.71	64.97	91.41	72.81	
G36	62.42	108.2	234.25	188.89	216.16	100.73	56.86	78.1	62.42	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	55.56	87.84	187.96	151.97	174.47	85.01	51.89	69.38	55.56	
G38	51.34	72.81	150.21	122.29	142.79	73.51	48.23	62.84	51.34	
G39	47.95	62.51	121.74	99.94	116.96	66.13	46.19	58.53	47.95	
G40	46.05	55.93	100.27	82.5	97.58	61.31	44.15	55.56	46.05	
G41	44.24	51.38	84.27	70.4	83.52	57.83	42.76	53.19	44.24	
G42	42.85	48.18	73.18	60.98	73.32	55.0	41.69	51.01	42.85	
G43	41.32	46.14	65.53	54.91	65.95	52.64	40.76	49.39	41.32	
G44	40.25	44.75	61.03	50.74	60.94	50.83	39.42	47.26	40.25	
G45	39.05	43.32	57.74	47.63	57.41	49.44	38.21	45.82	39.05	
G46	38.03	41.92	55.05	45.73	55.05	47.49	37.15	44.24	38.03	
G47	36.96	40.76	53.05	44.24	52.87	45.87	36.22	42.94	36.96	
G48	35.8	39.51	51.34	42.57	50.87	44.57	35.11	41.78	35.8	
G49	34.69	38.45	49.76	41.37	49.07	43.32	34.13	40.58	34.69	
G50	33.72	37.29	47.67	40.02	47.12	41.78	33.11	39.19	33.72	
G51	32.51	36.08	46.24	38.91	45.59	40.63	32.32	38.12	32.51	
G52	31.58	35.29	44.52	37.7	44.2	39.37	31.16	36.96	31.58	
G53	30.47	34.13	43.08	36.5	42.81	38.31	30.1	35.76	30.47	
G54	29.26	33.07	41.65	35.52	41.65	37.05	29.12	34.41	29.26	
G55	28.2	32.05	40.3	34.5	40.12	35.76	28.2	33.44	28.2	
G56	27.13	31.07	38.91	33.39	39.14	34.69	27.08	31.95	27.13	
G57	25.88	29.87	37.84	32.32	37.7	33.34	25.65	30.75	25.88	
G58	24.95	28.89	36.73	31.26	36.45	32.28	24.58	29.4	24.95	
G59	23.56	27.64	35.34	30.28	35.34	30.84	23.19	28.06	23.56	
G60	22.17	26.57	33.99	29.22	34.13	29.73	21.94	26.53	22.17	
G61	20.73	25.41	32.74	27.87	32.79	28.43	20.64	25.27	20.73	
G62	19.48	24.07	31.67	26.67	31.58	26.9	19.2	23.47	19.48	
G63	18.04	22.68	30.24	25.69	30.28	25.51	17.81	22.08	18.04	
G64	16.19	21.47	28.8	24.3	28.85	24.07	15.86	20.27	16.19	
G65	14.79	20.13	27.41	23.05	27.41	22.54	14.61	18.6	14.79	
G66	14.05	18.69	26.25	21.8	26.11	20.64	14.05	17.53	14.05	
G67	13.54	17.11	24.67	20.45	24.72	18.78	13.82	16.97	13.54	
G68	13.17	15.4	23.37	19.11	23.05	17.95	13.12	16.28	13.17	
G69	12.8	14.42	21.8	17.58	21.29	17.21	12.61	15.77	12.8	
G70	12.24	13.91	19.76	15.72	19.48	16.79	12.2	15.21	12.24	
G71	11.73	13.4	18.23	14.65	18.18	16.05	11.78	14.7	11.73	
G72	11.32	13.03	17.44	14.05	17.34	15.58	11.22	14.14	11.32	
G73	10.39	12.48	16.7	13.77	16.88	14.93	10.67	13.63	10.39	

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