

Report No.:

Test Time: 2024/9/18 17:31:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-2F-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

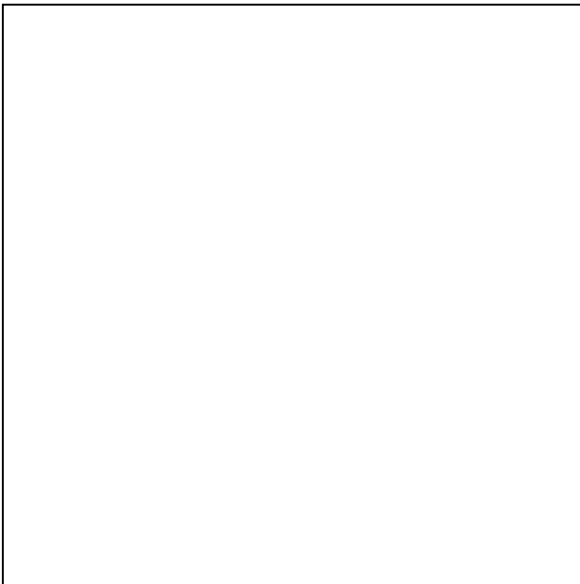
Voltage(V): 219.90 V
Current(A): 0.1400 A
Power(W): 29.34 W
Power Factor: 0.9470
Lamp Luminous Flux: 2789.54

Photometric Results

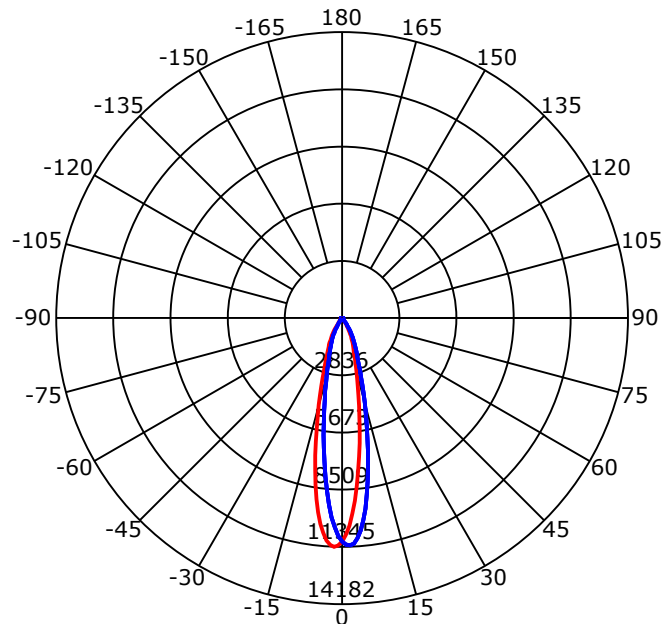
CIE Class: Direct
Luminaire Luminous Flux: 2789.535 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.08 lm/W
Beam Angle(50%) C0-180,C90-270: 21.7,22.1
Field Angle(10%) C0-180,C90-270: 53.6,53.8
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 11345.26 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11083.79 cd
Effective Luminous Flux: 2285.37 lm
ERP(ϕ use)(120deg): 2765.48 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.7 deg,22.1 deg

C0-180 — C90-270 —

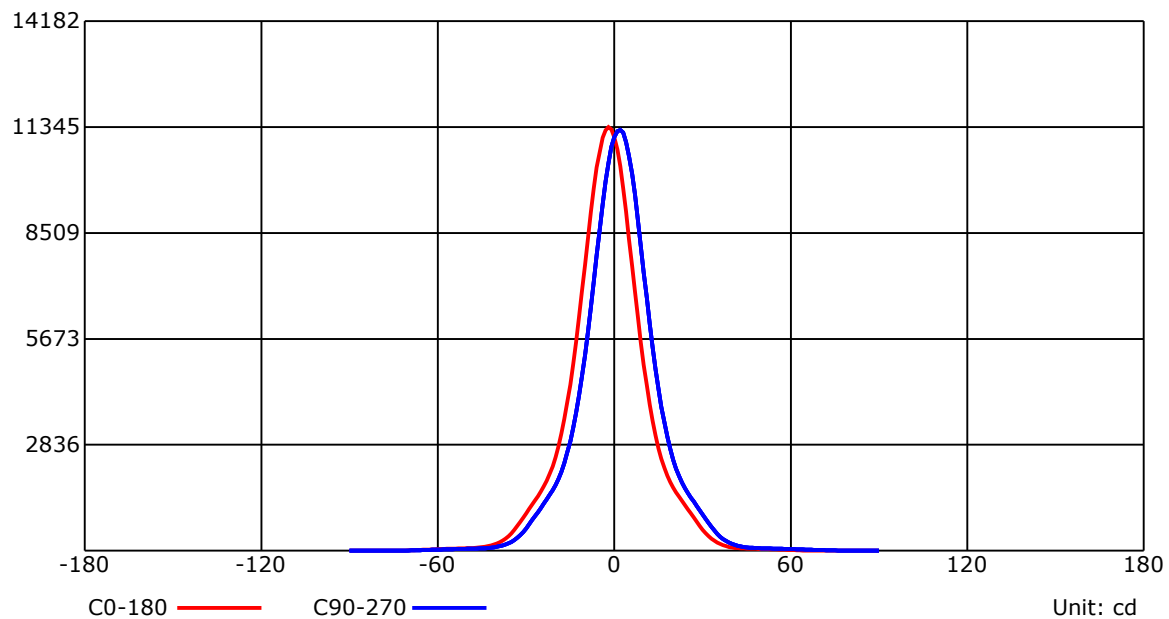
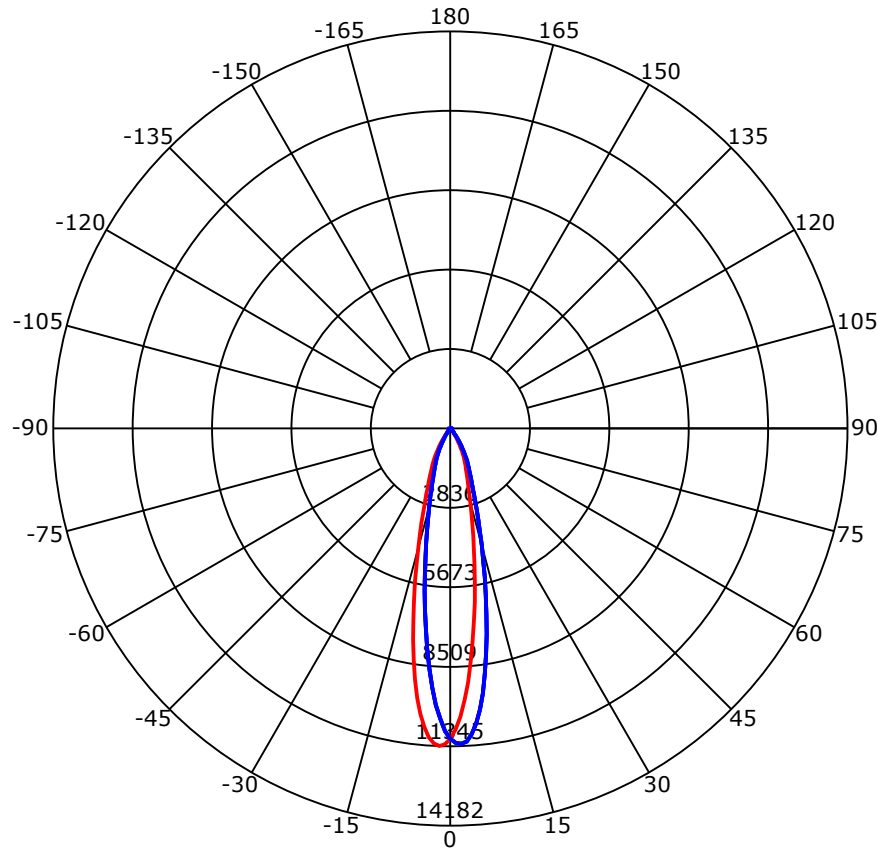
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/18 17:31:03

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



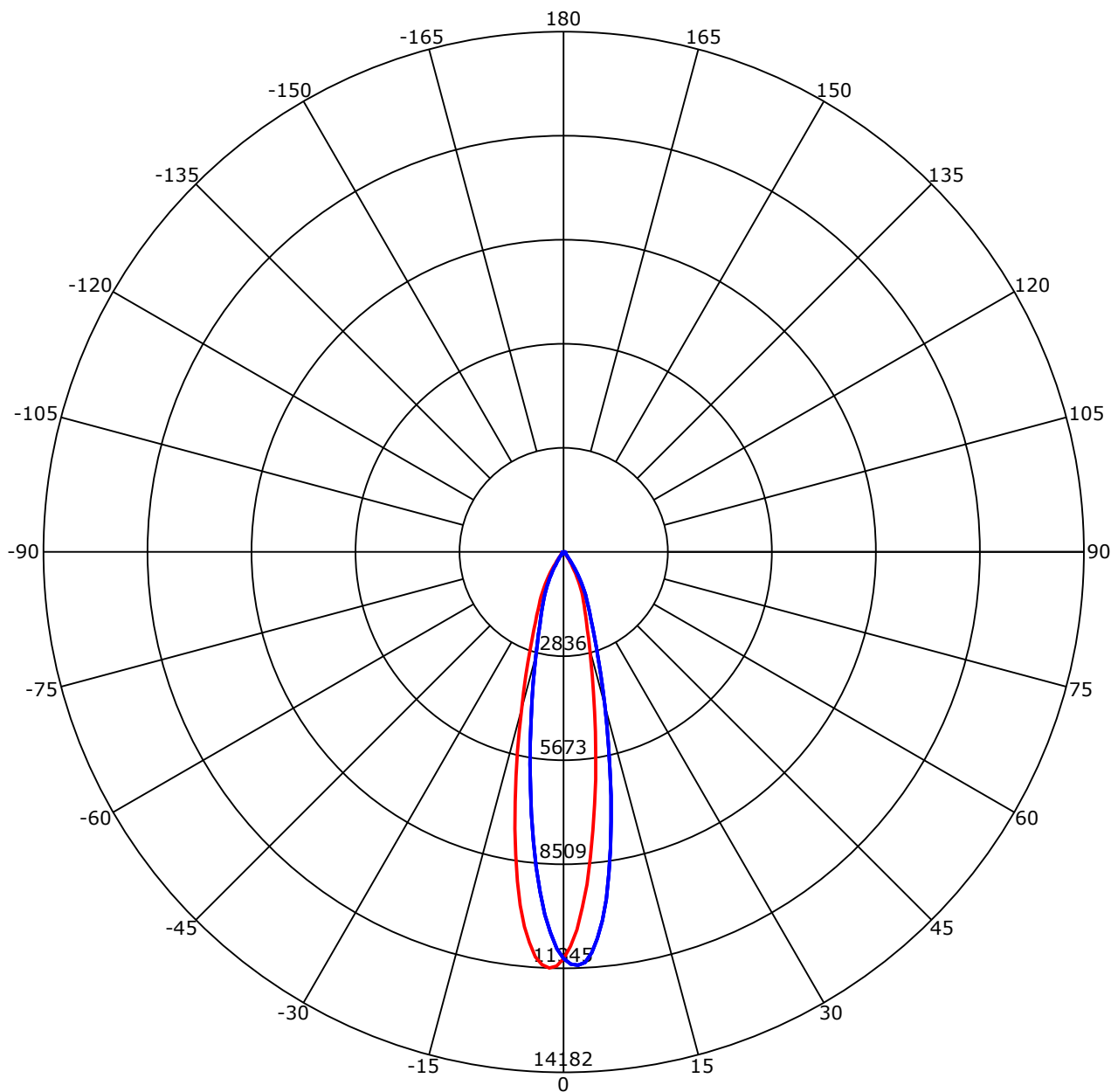
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

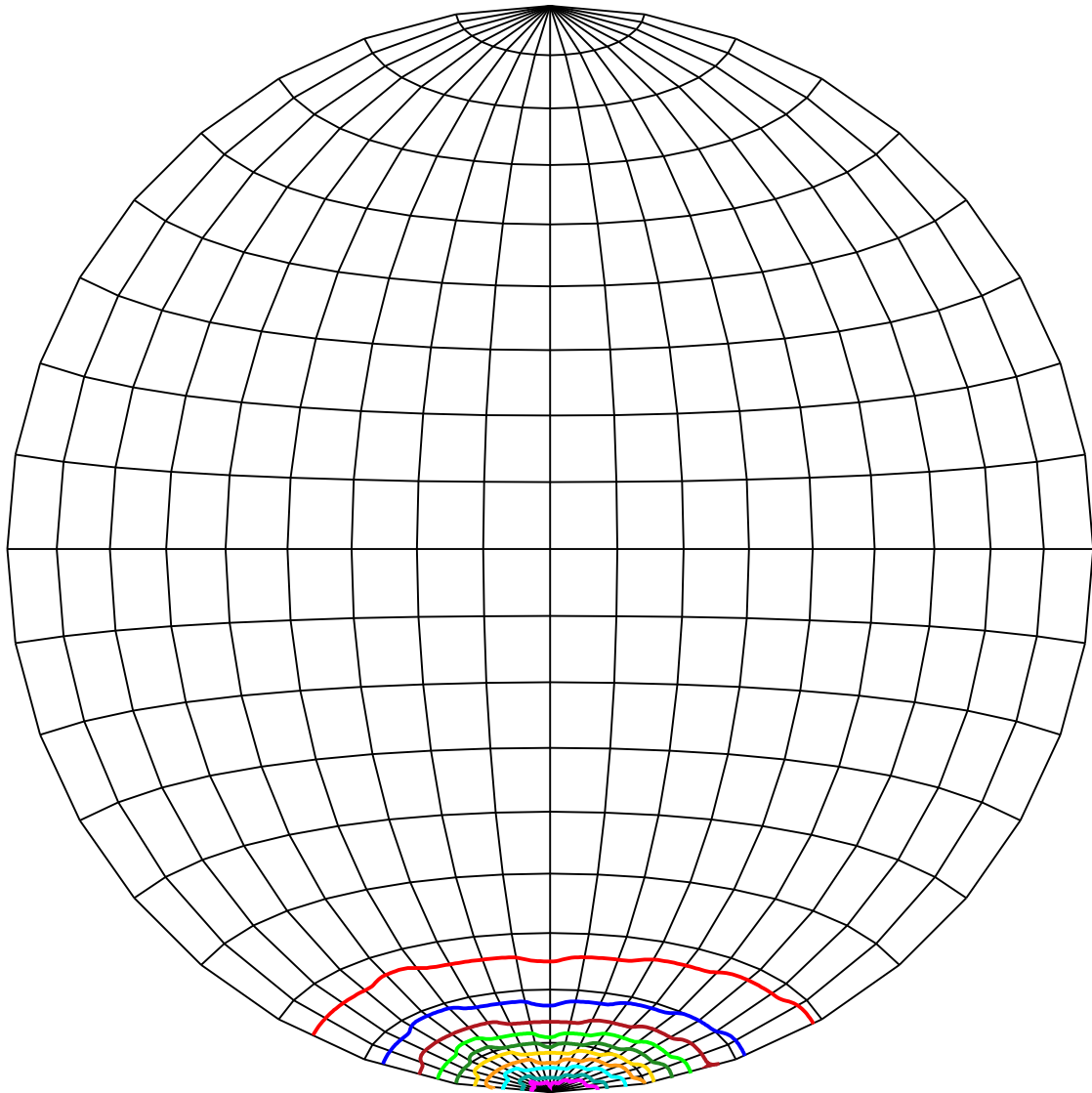
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 11345.26 cd

10778.0(95%I _{max})	5672.632(50%I _{max})
10210.74(90%I _{max})	4538.105(40%I _{max})
9076.211(80%I _{max})	3403.579(30%I _{max})
7941.685(70%I _{max})	2269.053(20%I _{max})
6807.159(60%I _{max})	1134.526(10%I _{max})

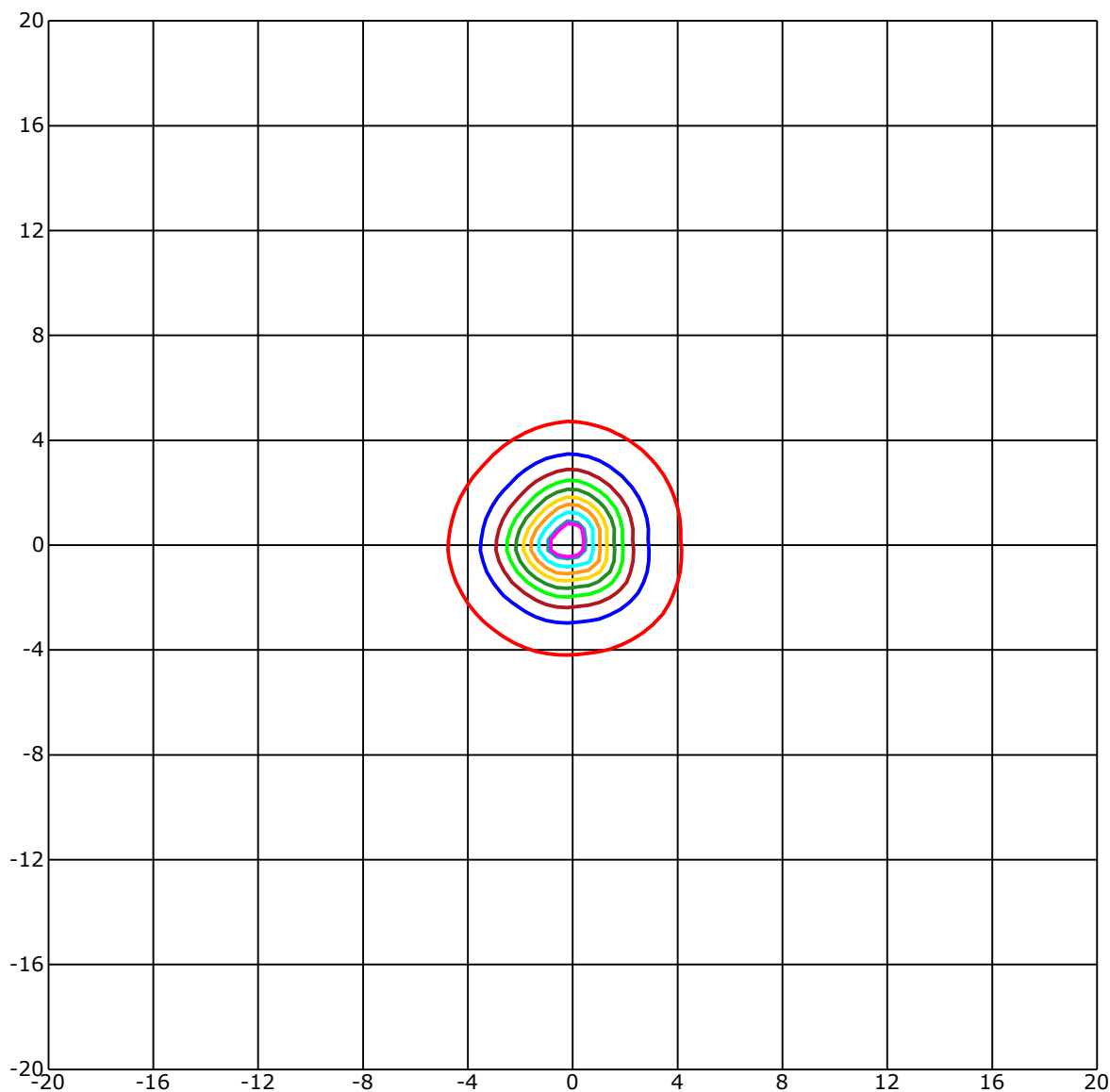
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ISOLX DIAGRAM



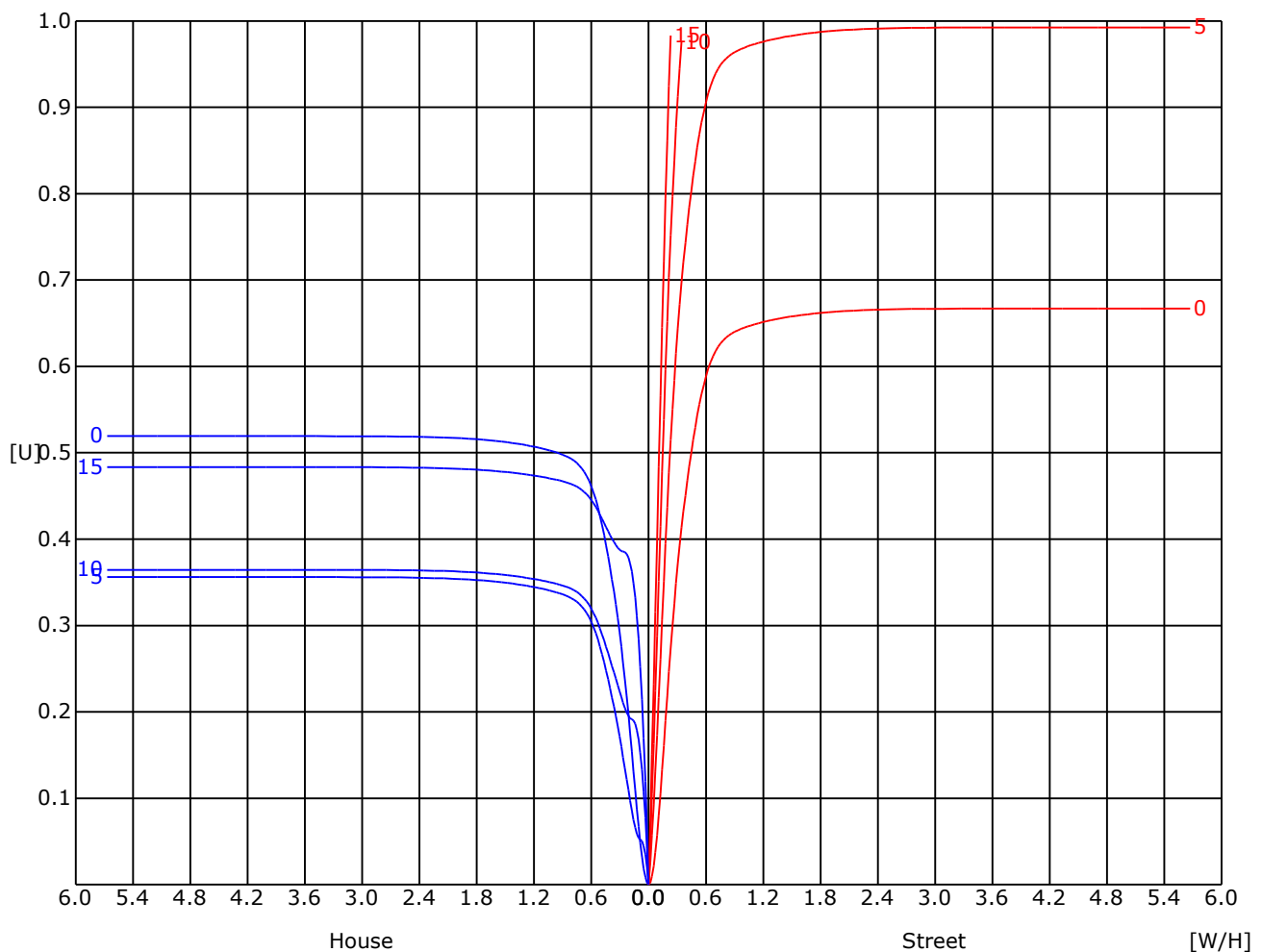
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UTILIZATION FACTOR DIAGRAM (ROAD)



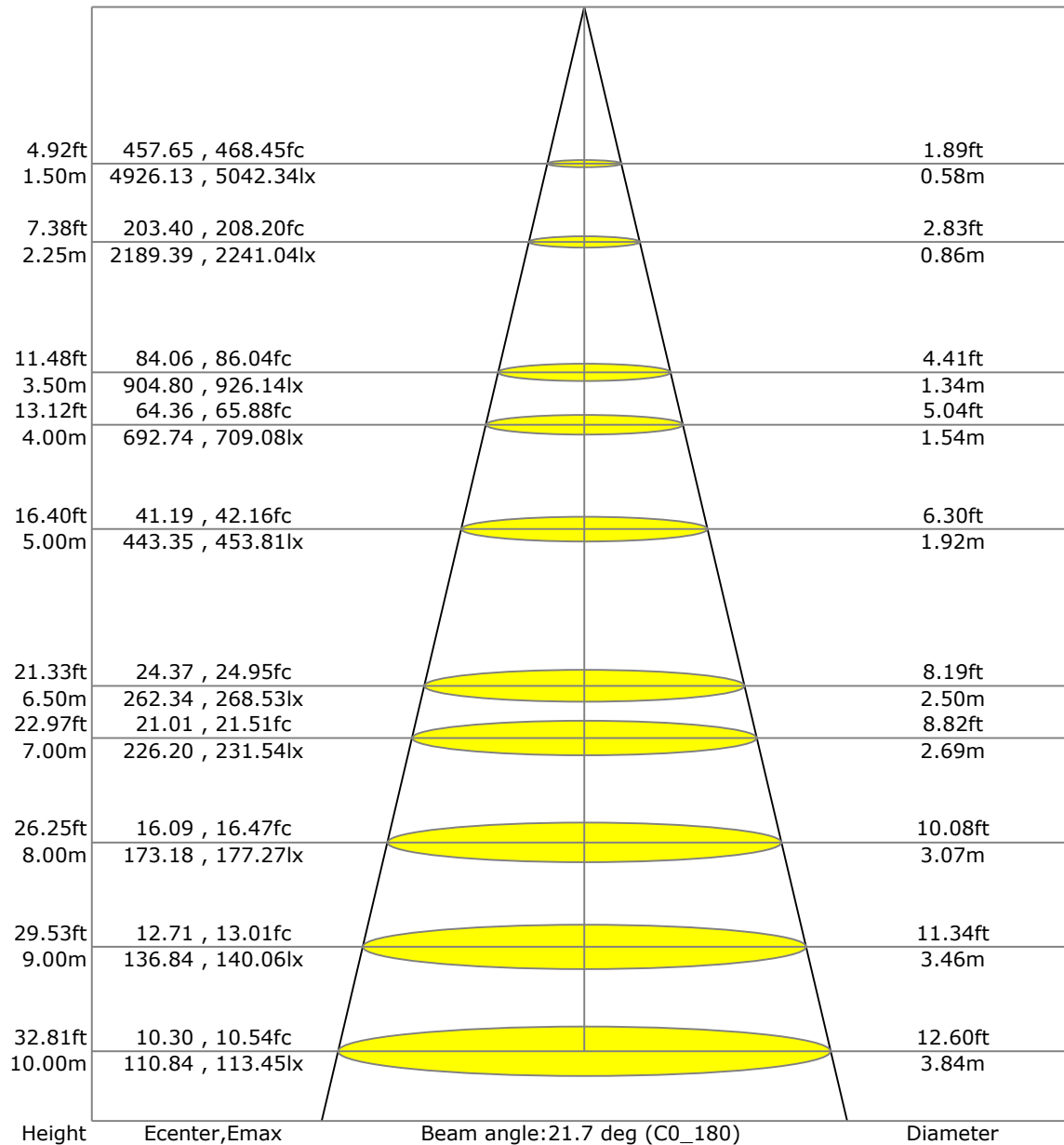
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LX-DISTANCE DIAGRAM



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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	5.69	5.75	5.89	5.94	6.18	6.04	6.10	6.24	6.28	6.53
3H	5.70	5.76	5.90	5.95	6.20	6.02	6.08	6.23	6.27	6.52
4H	5.68	5.74	5.89	5.94	6.19	6.01	6.07	6.22	6.26	6.51
6H	5.67	5.73	5.88	5.93	6.18	5.99	6.05	6.21	6.25	6.51
8H	5.66	5.72	5.88	5.92	6.18	5.98	6.04	6.20	6.25	6.50
12H	5.65	5.71	5.87	5.92	6.17	5.97	6.04	6.20	6.24	6.50
4H 2H	5.74	5.80	5.95	5.99	6.24	6.49	6.55	6.70	6.75	7.00
3H	5.74	5.80	5.96	6.00	6.26	6.47	6.53	6.69	6.73	6.99
4H	5.72	5.78	5.95	5.99	6.25	6.45	6.51	6.68	6.72	6.98
6H	5.69	5.76	5.93	5.98	6.24	6.42	6.48	6.66	6.71	6.97
8H	5.68	5.74	5.93	5.97	6.24	6.41	6.47	6.66	6.70	6.97
12H	5.67	5.73	5.92	5.96	6.23	6.40	6.46	6.65	6.69	6.96
8H 4H	5.71	5.77	5.93	5.98	6.23	6.47	6.54	6.69	6.74	6.99
6H	5.65	5.71	5.91	5.95	6.23	6.39	6.45	6.65	6.69	6.96
8H	5.64	5.69	5.90	5.94	6.22	6.38	6.43	6.64	6.68	6.96
12H	5.62	5.68	5.89	5.93	6.21	6.36	6.41	6.63	6.67	6.95
12H 4H	5.67	5.73	5.92	5.96	6.23	6.41	6.47	6.66	6.70	6.97
6H	5.64	5.69	5.90	5.94	6.22	6.38	6.43	6.64	6.68	6.96

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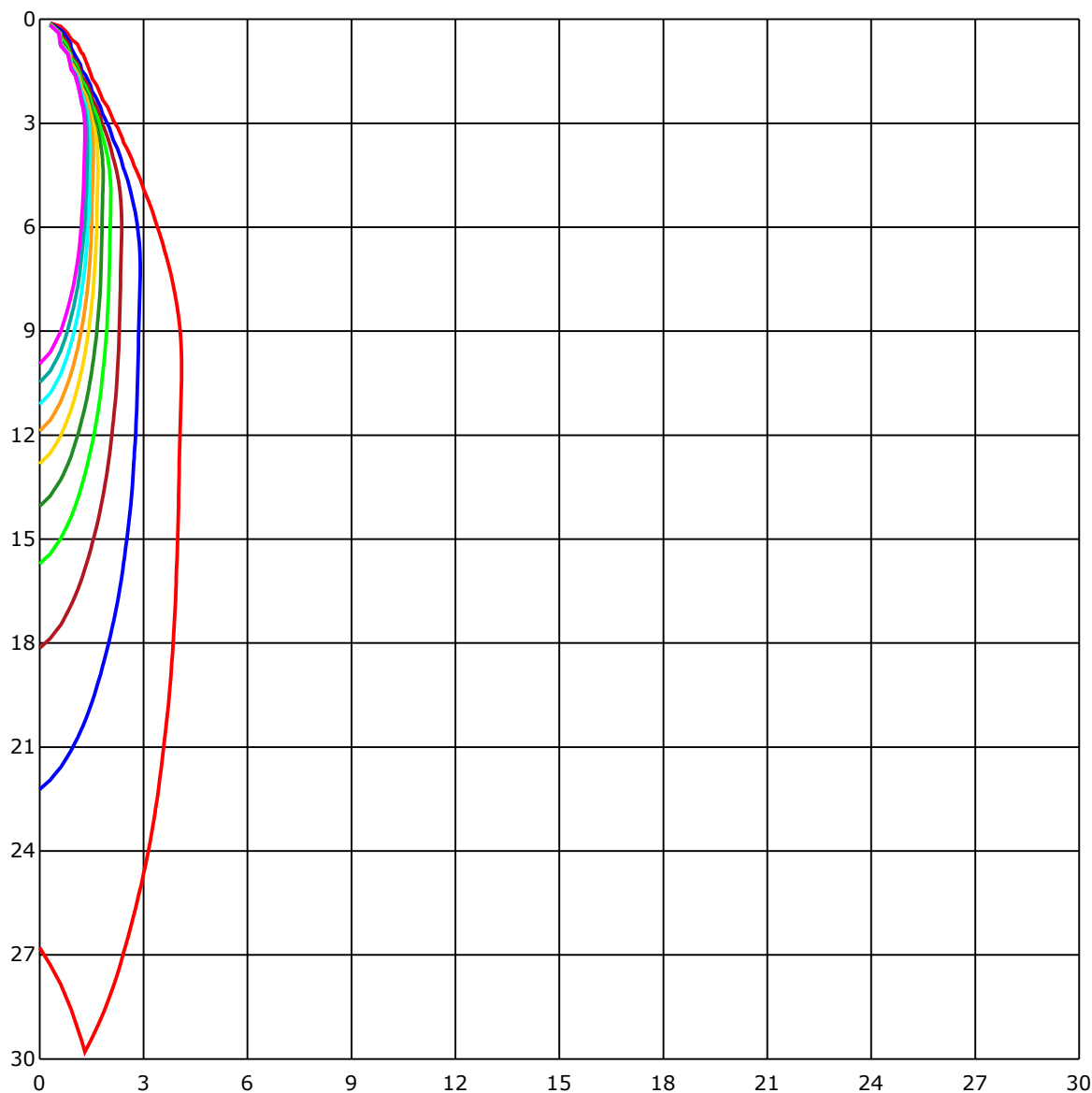
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

112.252	56.126
101.027	44.901
89.802	33.676
78.576	22.45
67.351	11.225

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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11083.79	11283.4	11074.84	11306.49	11083.79	11283.4	11074.84	11306.49	11083.79	
G1	10747.57	11211.7	11232.8	11311.04	11282.79	11206.74	10811.15	11122.71	10747.57	
G2	10297.07	11035.05	11267.86	11196.63	11345.26	10958.35	10373.41	10845.98	10297.07	
G3	9705.4	10713.9	11197.46	10941.33	11257.75	10623.14	9891.88	10419.04	9705.4	
G4	9082.48	10268.32	10945.13	10597.5	11060.19	10162.39	9276.61	9916.23	9082.48	
G5	8347.98	9706.01	10572.22	10126.68	10688.02	9608.25	8618.44	9310.19	8347.98	
G6	7621.59	9050.81	10093.06	9550.28	10263.45	8943.96	7907.82	8630.59	7621.59	
G7	6931.33	8349.09	9533.07	8922.07	9703.36	8243.91	7193.07	7923.03	6931.33	
G8	6257.9	7628.87	8849.12	8232.73	9062.63	7526.56	6510.19	7226.32	6257.9	
G9	5577.93	6917.88	8153.01	7509.5	8363.28	6808.61	5857.35	6521.69	5577.93	
G10	4974.44	6219.96	7455.38	6809.31	7658.41	6110.05	5238.55	5863.28	4974.44	
G11	4428.45	5569.68	6765.62	6146.87	6939.07	5466.44	4660.01	5241.66	4428.45	
G12	3914.51	4963.26	6076.1	5502.66	6251.5	4869.54	4148.76	4685.7	3914.51	
G13	3476.91	4423.86	5443.91	4911.51	5592.22	4325.82	3696.69	4158.92	3476.91	
G14	3085.96	3911.13	4866.57	4373.68	4997.49	3840.03	3290.94	3708.51	3085.96	
G15	2749.04	3462.63	4346.23	3886.04	4445.43	3413.05	2926.75	3294.88	2749.04	
G16	2463.45	3076.08	3856.17	3468.33	3967.52	3026.18	2622.01	2944.88	2463.45	
G17	2212.65	2745.05	3429.84	3092.54	3522.31	2697.37	2345.33	2623.68	2212.65	
G18	2007.9	2457.89	3056.88	2760.91	3137.39	2410.68	2109.37	2352.34	2007.9	
G19	1834.08	2214.97	2730.25	2478.01	2795.88	2172.54	1920.3	2122.82	1834.08	
G20	1692.96	2015.64	2434.98	2233.75	2506.95	1975.9	1760.07	1931.7	1692.96	
G21	1561.44	1842.11	2196.42	2028.26	2255.64	1810.06	1621.22	1766.56	1561.44	
G22	1444.94	1698.2	1989.3	1855.93	2048.57	1670.51	1493.13	1628.22	1444.94	
G23	1334.29	1569.28	1820.49	1697.32	1874.24	1547.76	1373.99	1497.11	1334.29	
G24	1223.73	1452.82	1676.03	1562.97	1722.69	1432.6	1260.83	1382.47	1223.73	
G25	1112.47	1339.06	1549.66	1438.26	1586.25	1321.72	1146.51	1264.77	1112.47	
G26	1004.0	1228.74	1424.3	1308.73	1463.26	1212.55	1034.37	1158.06	1004.0	
G27	887.22	1109.22	1311.15	1190.06	1343.52	1102.36	922.51	1043.97	887.22	
G28	778.14	998.15	1195.72	1070.36	1227.11	986.7	813.99	935.13	778.14	
G29	666.1	885.0	1081.91	952.94	1114.19	871.5	702.74	821.18	666.1	
G30	563.89	774.53	970.47	835.14	1000.43	762.84	597.93	715.17	563.89	
G31	473.04	667.17	858.61	724.67	884.53	652.88	503.41	609.47	473.04	
G32	391.37	566.95	743.97	620.19	767.52	555.31	416.36	519.88	391.37	
G33	319.9	474.84	637.86	523.26	659.19	466.31	343.83	431.85	319.9	
G34	265.13	393.27	539.45	436.17	561.29	384.64	286.23	358.95	265.13	
G35	218.11	324.49	448.69	358.63	469.42	320.09	236.05	298.89	218.11	
G36	180.63	266.38	371.33	299.13	386.87	266.15	197.52	248.67	180.63	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	149.7	219.54	309.05	245.47	320.78	222.98	165.84	207.76	149.7	
G38	122.25	180.31	256.09	204.7	268.01	185.92	138.85	175.35	122.25	
G39	100.22	150.07	216.21	170.57	225.25	157.77	118.07	149.01	100.22	
G40	84.13	126.14	180.73	144.79	190.05	134.82	102.95	129.2	84.13	
G41	73.83	108.01	154.2	123.04	162.08	117.19	88.16	112.37	73.83	
G42	67.89	93.54	132.31	107.08	139.78	103.14	77.82	99.2	67.89	
G43	63.86	83.43	114.46	95.21	120.62	93.73	70.03	90.39	63.86	
G44	60.47	76.34	99.48	86.35	104.07	86.77	65.48	84.64	60.47	
G45	57.27	71.65	89.78	78.56	92.66	81.67	61.91	78.51	57.27	
G46	55.65	67.76	82.13	72.86	84.73	77.54	58.9	74.48	55.65	
G47	53.61	65.02	76.8	67.94	78.1	74.57	57.09	71.23	53.61	
G48	50.78	61.82	71.93	64.74	75.18	70.86	54.45	69.84	50.78	
G49	48.42	59.83	69.05	62.1	70.45	68.17	53.43	66.23	48.42	
G50	47.81	57.14	65.9	59.32	66.92	65.71	50.09	63.49	47.81	
G51	44.71	54.86	63.3	57.27	63.54	63.86	48.0	61.82	44.71	
G52	42.2	53.43	60.34	55.84	60.98	60.89	46.65	59.04	42.2	
G53	39.93	51.34	59.04	53.7	58.85	59.64	44.8	56.86	39.93	
G54	38.07	48.97	56.39	51.94	57.23	56.72	42.9	54.45	38.07	
G55	34.6	46.24	54.77	50.5	54.21	55.6	40.53	51.99	34.6	
G56	32.0	45.36	52.08	50.46	51.43	52.73	38.54	50.64	32.0	
G57	28.71	42.9	50.36	46.75	49.9	51.25	36.45	47.3	28.71	
G58	26.76	40.16	48.09	44.24	48.51	48.18	33.9	44.98	26.76	
G59	22.91	37.56	47.63	42.53	44.71	46.19	31.63	41.88	22.91	
G60	19.8	35.38	44.38	41.74	41.69	42.99	29.03	40.39	19.8	
G61	16.28	33.3	41.69	38.54	38.58	40.76	26.57	36.87	16.28	
G62	12.01	30.28	39.98	35.52	35.48	37.94	24.49	33.34	12.01	
G63	7.56	27.32	37.1	32.74	31.67	35.43	21.43	30.79	7.56	
G64	5.29	25.09	33.95	31.77	29.22	32.23	18.18	27.73	5.29	
G65	2.92	21.61	31.26	27.22	25.46	28.85	16.09	25.04	2.92	
G66	0.97	19.29	27.13	23.84	20.82	25.14	14.24	21.38	0.97	
G67	0.0	14.79	25.04	20.87	16.83	22.31	12.29	18.18	0.0	
G68	0.0	12.01	22.45	17.76	12.89	18.6	10.62	14.93	0.0	
G69	0.0	7.79	19.39	13.68	9.46	14.84	7.88	10.9	0.0	
G70	0.0	5.15	17.44	10.2	7.14	10.99	6.4	7.7	0.0	
G71	0.0	1.81	15.95	7.19	5.01	8.44	5.19	5.01	0.0	
G72	0.0	0.0	13.31	4.82	3.9	4.59	2.78	2.46	0.0	
G73	0.0	0.0	11.41	2.09	0.79	3.43	1.81	0.65	0.0	

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