

Report No.:

Test Time: 2025/8/1 15:49:21

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-EB-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.2060 A
Power(W): 43.04 W
Power Factor: 0.9480
Lamp Luminous Flux: 2822.25

Photometric Results

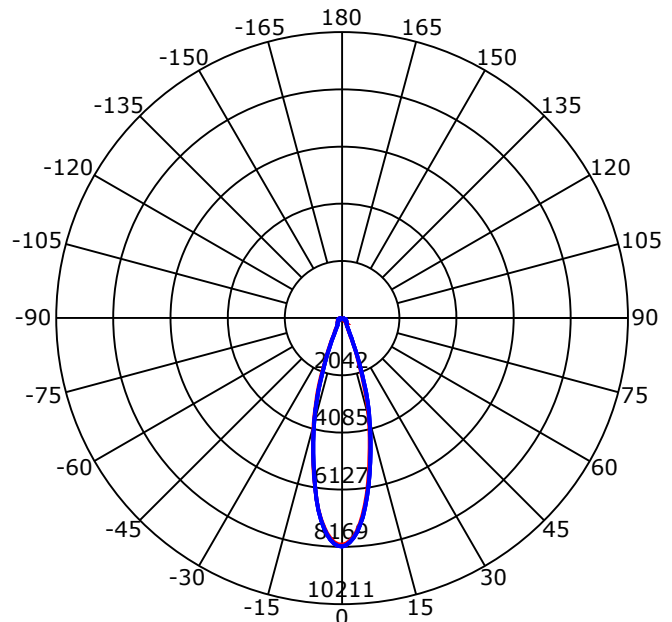
CIE Class: Direct
Luminaire Luminous Flux: 2822.253 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.57 lm/W
Beam Angle(50%) C0-180,C90-270: 28.5,28.6
Field Angle(10%) C0-180,C90-270: 50.1,49.7
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 8169.17 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8093.18 cd
Effective Luminous Flux: 1958.22 lm
ERP(ϕ use)(120deg): 2621.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 28.5 deg,28.6 deg

C0-180 — C90-270 —

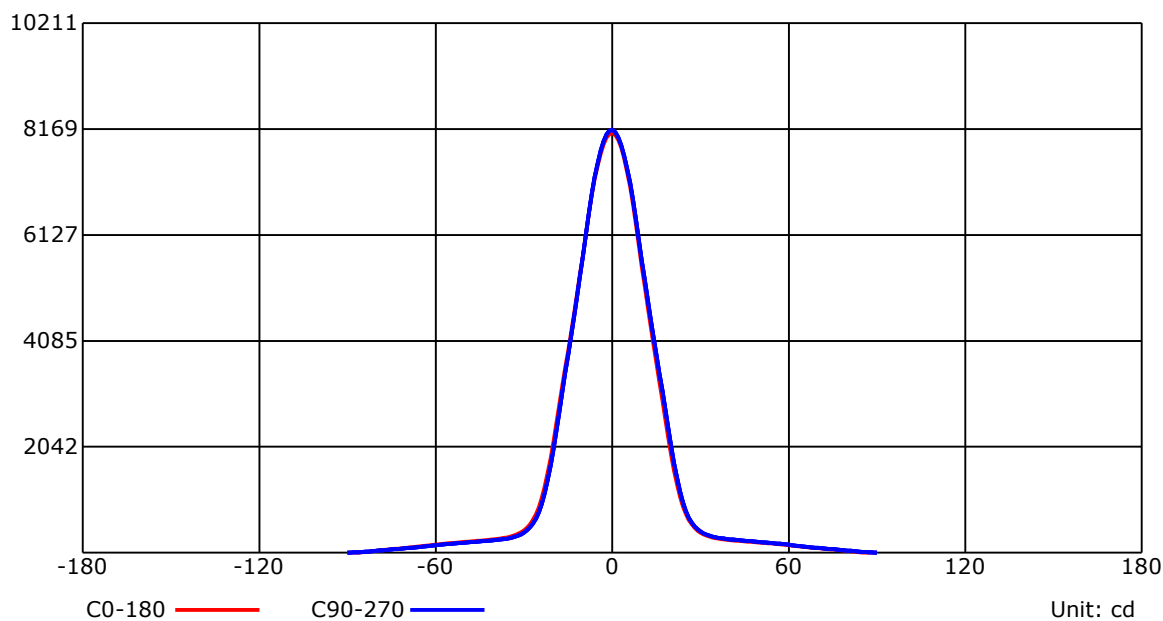
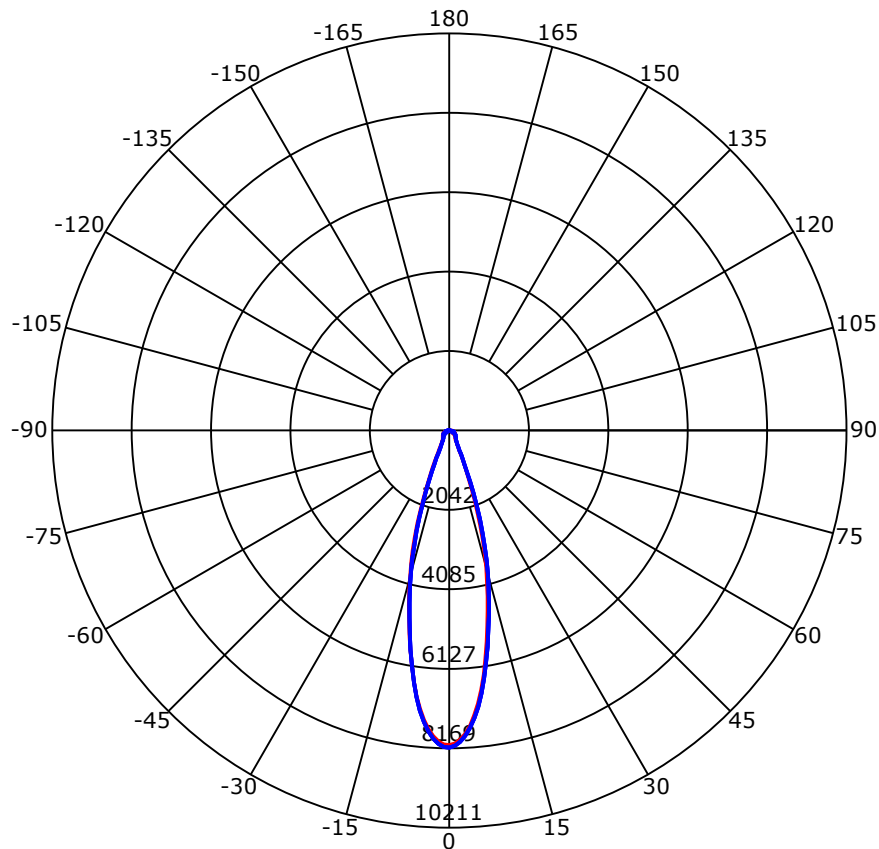
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 15:49:21

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



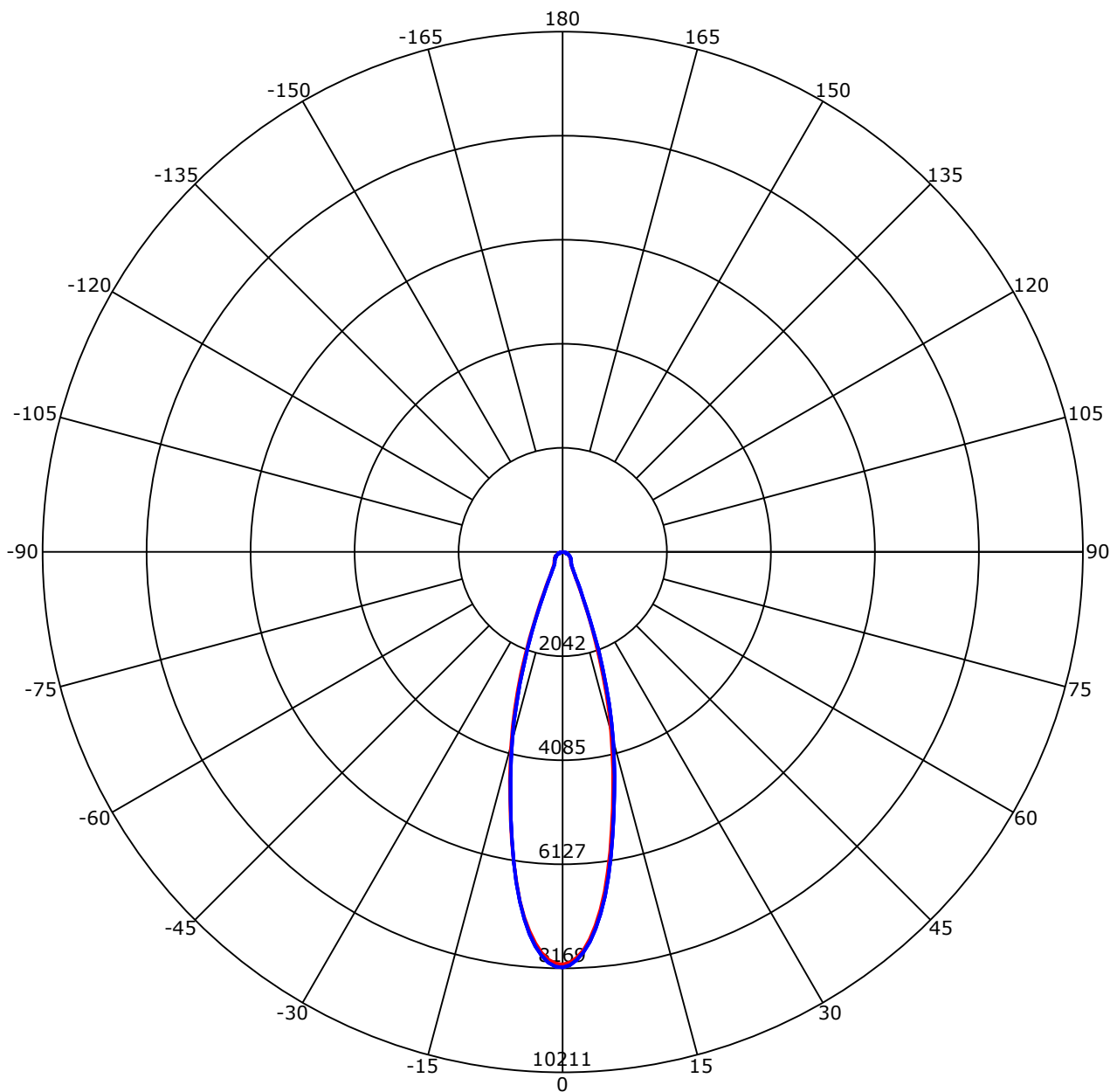
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 15:49:21

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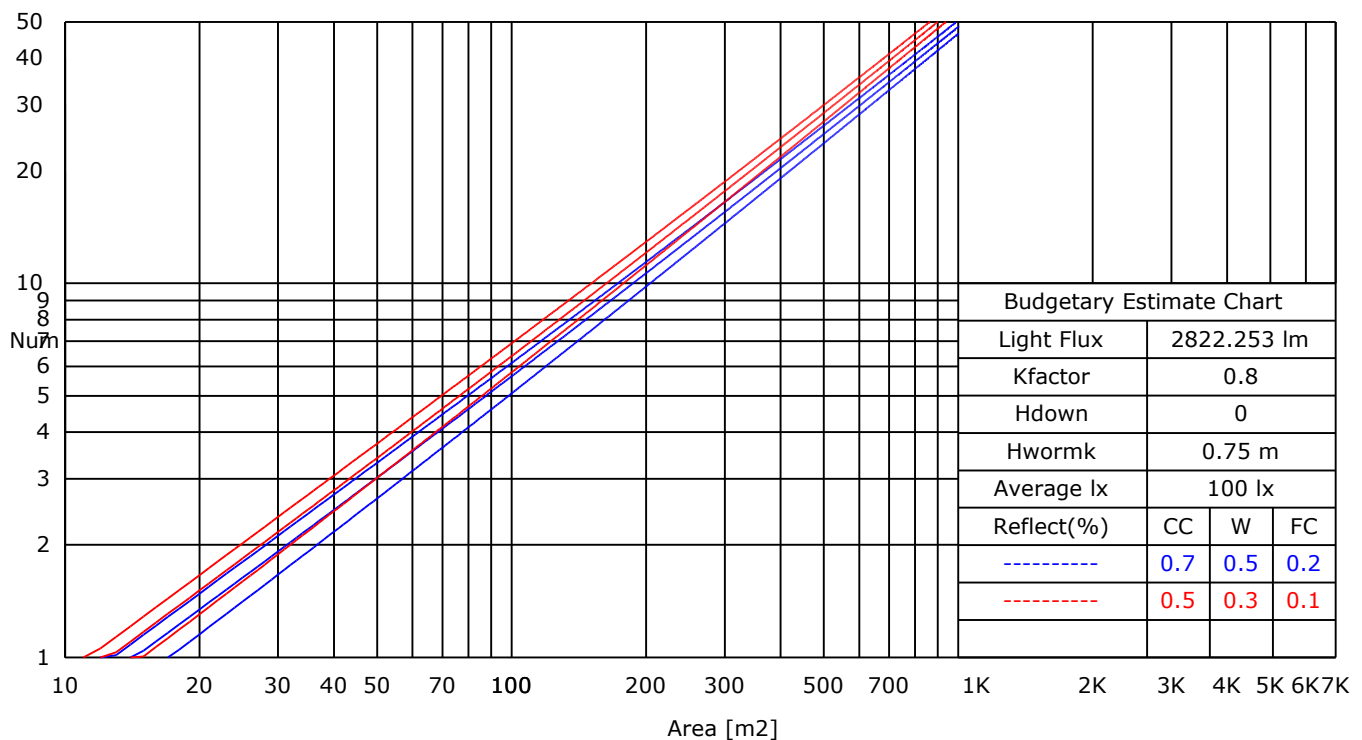
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.84	0.86	0.82	0.79	0.81	0.77	0.74	0.68
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.65
3	0.83	0.80	0.79	0.82	0.79	0.77	0.81	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.61
4	0.79	0.77	0.75	0.79	0.76	0.74	0.77	0.73	0.70	0.75	0.70	0.67	0.72	0.67	0.63	0.59
5	0.75	0.73	0.72	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.64	0.69	0.64	0.60	0.56
6	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.54
7	0.70	0.68	0.67	0.70	0.67	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.56	0.53
8	0.68	0.66	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.51
9	0.66	0.65	0.64	0.66	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.50
10	0.65	0.63	0.62	0.64	0.62	0.61	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.55	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



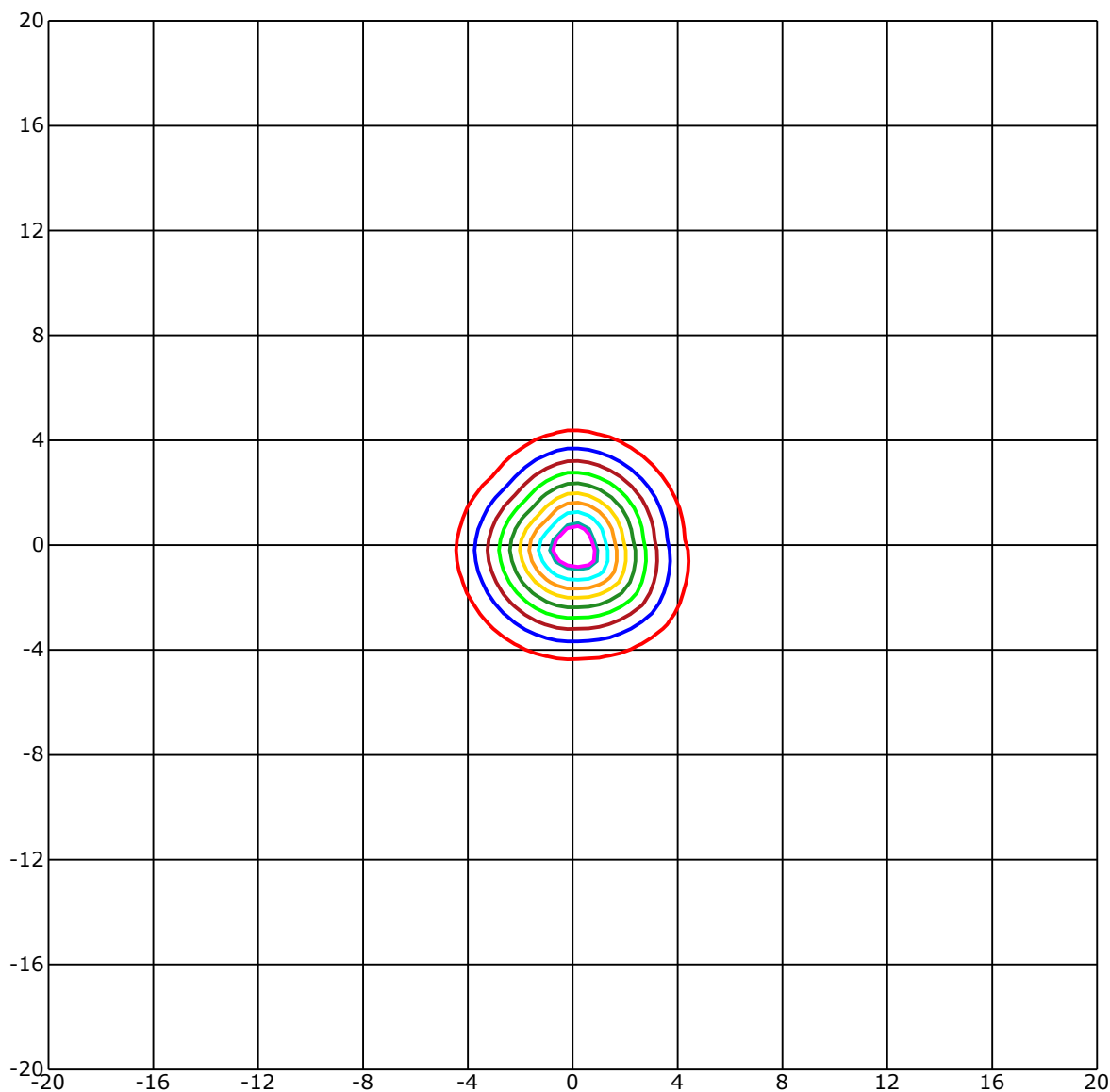
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ISOLX DIAGRAM



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

75.023(92%Emax)	40.773(50%Emax)
73.392(90%Emax)	32.619(40%Emax)
65.237(80%Emax)	24.464(30%Emax)
57.082(70%Emax)	16.309(20%Emax)
48.928(60%Emax)	8.155(10%Emax)

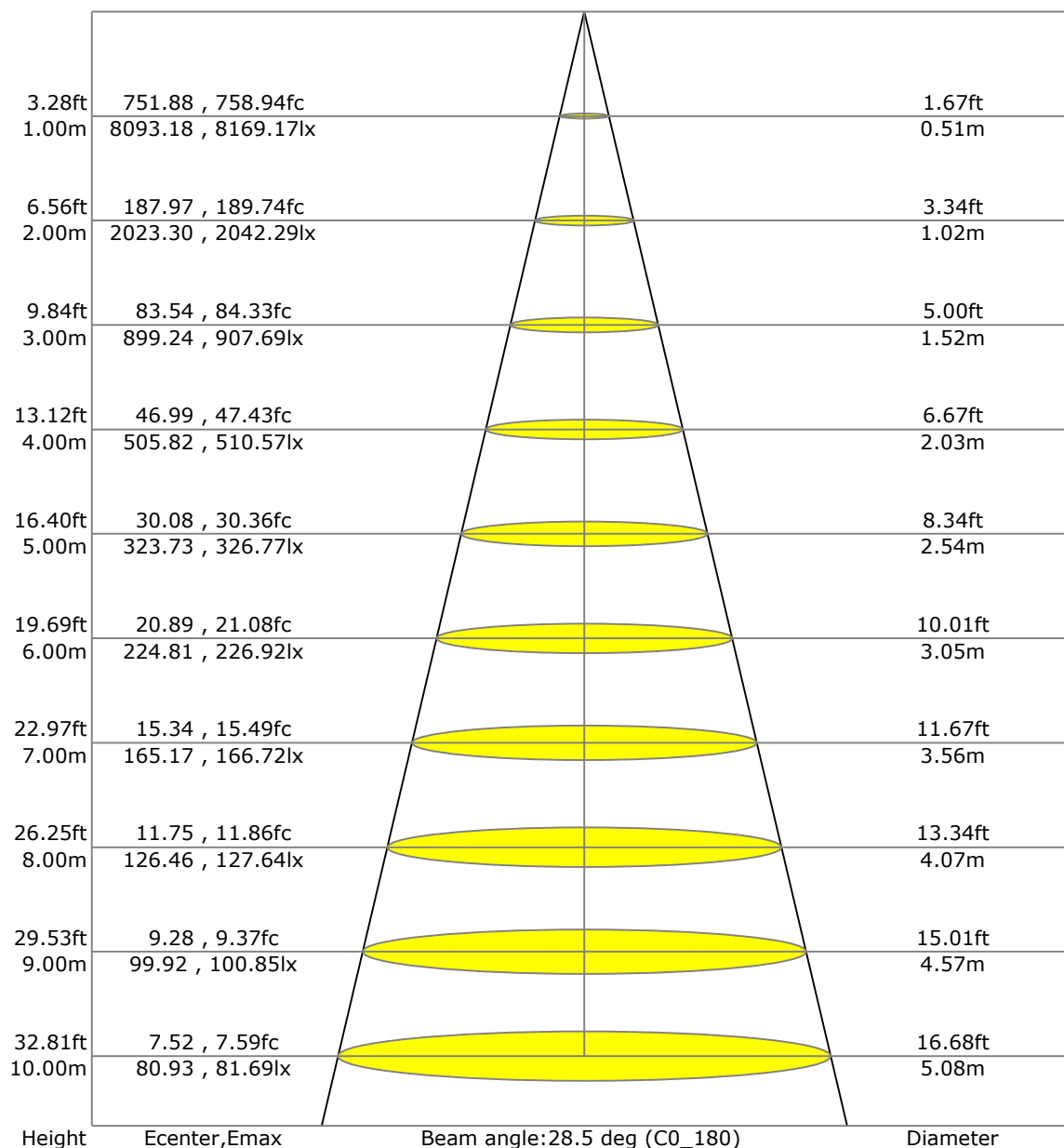
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LX-DISTANCE DIAGRAM



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	10.67	10.73	10.87	10.92	11.16	10.76	10.82	10.96	11.01	11.25
3H	10.83	10.89	11.04	11.09	11.33	10.91	10.97	11.12	11.17	11.41
4H	10.85	10.92	11.06	11.11	11.36	10.93	10.99	11.14	11.19	11.44
6H	10.84	10.91	11.06	11.11	11.36	10.92	10.98	11.14	11.18	11.43
8H	10.84	10.90	11.05	11.10	11.36	10.91	10.97	11.13	11.18	11.43
12H	10.82	10.89	11.05	11.09	11.35	10.90	10.96	11.12	11.17	11.42
4H 2H	12.72	12.78	12.93	12.98	13.23	12.90	12.96	13.11	13.16	13.41
3H	13.06	13.12	13.28	13.32	13.58	13.22	13.28	13.44	13.49	13.74
4H	13.14	13.20	13.37	13.41	13.67	13.29	13.35	13.52	13.56	13.82
6H	13.16	13.22	13.40	13.44	13.71	13.31	13.37	13.54	13.59	13.85
8H	13.15	13.21	13.40	13.44	13.71	13.30	13.36	13.54	13.58	13.85
12H	13.14	13.20	13.39	13.43	13.70	13.28	13.34	13.53	13.57	13.84
8H 4H	13.13	13.19	13.35	13.40	13.65	13.42	13.48	13.64	13.68	13.94
6H	13.77	13.83	14.03	14.06	14.34	14.06	14.11	14.31	14.35	14.62
8H	13.77	13.83	14.04	14.07	14.35	14.05	14.11	14.32	14.35	14.63
12H	13.76	13.81	14.03	14.07	14.35	14.04	14.09	14.31	14.34	14.63
12H 4H	13.71	13.77	13.96	14.00	14.27	14.09	14.15	14.34	14.38	14.65
6H	13.78	13.84	14.05	14.08	14.36	14.17	14.22	14.43	14.47	14.75

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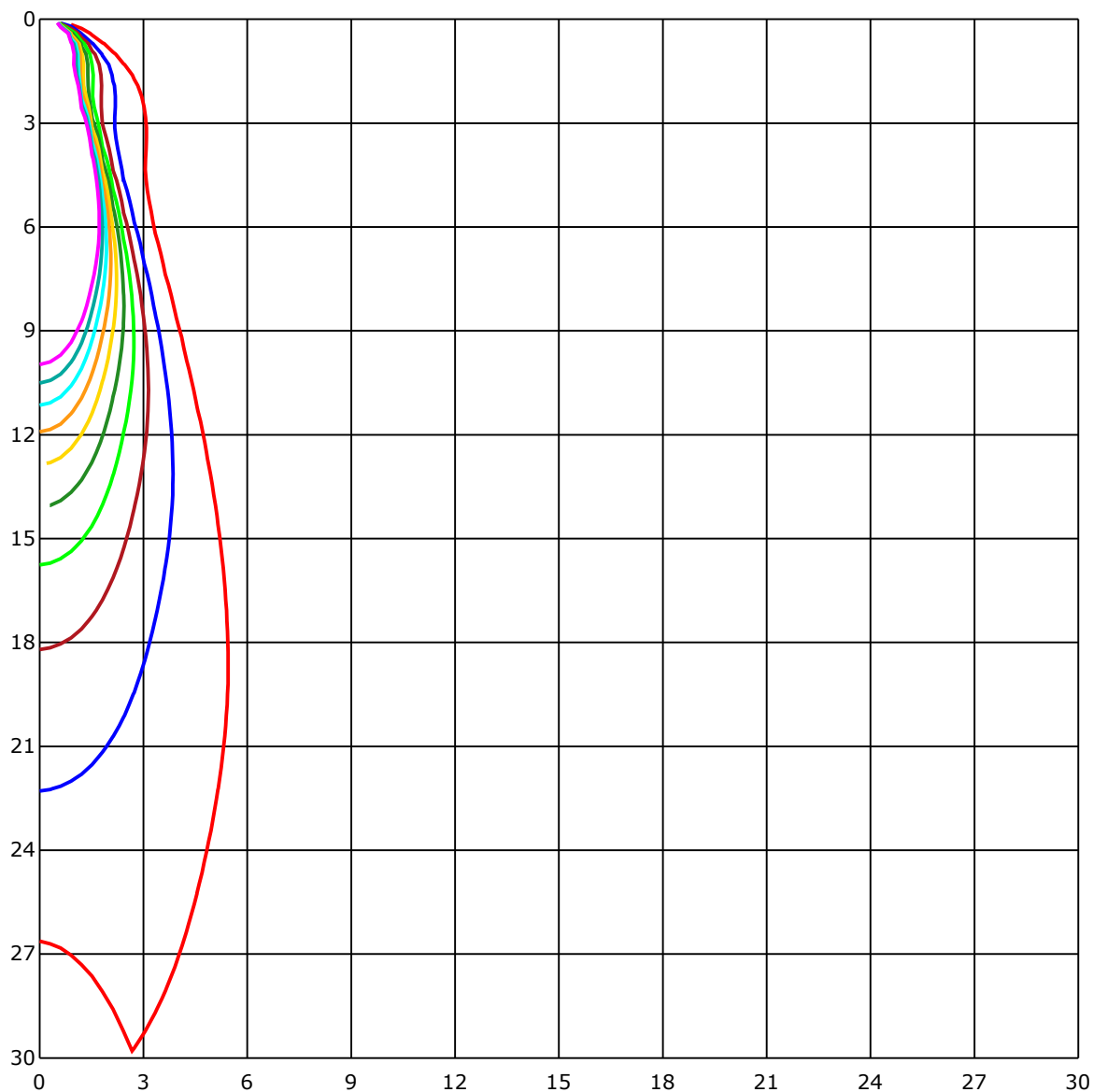
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 Test System: Huipu CPM-1600B Goniophotometer
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SPACE ISOLX DIAGRAM



81.441

73.297

65.153

57.009

48.865

40.721

32.577

24.432

16.288

8.144

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G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8093.18	8115.51	8154.63	8081.1	8093.18	8115.51	8154.63	8081.1	8093.18	
G1	8052.64	8086.15	8109.94	7956.64	8073.88	8085.96	8136.75	8155.15	8052.64	
G2	7956.97	7995.34	8009.31	7781.16	8001.05	8004.03	8062.27	8169.17	7956.97	
G3	7814.72	7852.95	7863.24	7554.71	7873.2	7871.17	7934.74	8125.84	7814.72	
G4	7612.29	7664.49	7666.38	7280.41	7694.65	7690.17	7754.45	8017.67	7612.29	
G5	7355.92	7424.78	7421.38	6959.32	7469.57	7461.69	7524.08	7856.96	7355.92	
G6	7055.94	7131.22	7140.14	6592.42	7201.26	7177.56	7242.93	7645.95	7055.94	
G7	6716.87	6792.86	6806.22	6202.99	6892.26	6850.44	6915.86	7384.47	6716.87	
G8	6336.56	6424.4	6434.07	5789.64	6531.67	6493.07	6544.42	7084.87	6336.56	
G9	5936.99	6029.07	6039.46	5379.41	6147.11	6106.9	6146.78	6734.29	5936.99	
G10	5526.29	5628.28	5646.54	4990.6	5756.79	5705.73	5735.18	6348.55	5526.29	
G11	5123.27	5228.9	5258.25	4615.9	5365.2	5311.11	5324.9	5952.66	5123.27	
G12	4742.44	4845.05	4882.38	4251.12	4983.85	4926.79	4926.41	5553.94	4742.44	
G13	4373.03	4473.37	4516.65	3895.44	4615.57	4565.31	4553.98	5165.56	4373.03	
G14	4015.51	4120.1	4165.46	3542.93	4261.79	4216.95	4184.62	4794.69	4015.51	
G15	3660.26	3763.91	3824.41	3181.83	3907.2	3868.64	3831.26	4436.27	3660.26	
G16	3306.99	3406.25	3474.21	2823.93	3566.43	3514.99	3464.11	4096.08	3306.99	
G17	2934.75	3047.79	3124.95	2464.72	3215.67	3151.9	3093.66	3735.68	2934.75	
G18	2570.86	2678.09	2770.03	2111.12	2865.61	2784.48	2717.98	3389.82	2570.86	
G19	2218.07	2307.74	2408.79	1776.68	2514.18	2418.51	2357.11	3022.3	2218.07	
G20	1886.7	1956.78	2054.67	1475.47	2158.17	2071.57	2008.79	2661.91	1886.7	
G21	1580.06	1638.16	1729.11	1216.08	1827.61	1747.75	1684.22	2302.31	1580.06	
G22	1307.21	1354.69	1433.46	1001.28	1534.04	1453.52	1392.45	1958.62	1307.21	
G23	1077.22	1112.48	1179.97	829.3	1272.71	1199.37	1141.79	1647.08	1077.22	
G24	892.82	913.5	971.31	697.24	1055.32	991.7	940.07	1372.63	892.82	
G25	746.75	758.88	805.51	593.31	878.38	828.78	781.86	1136.6	746.75	
G26	632.16	636.54	676.95	513.69	739.62	697.99	655.8	948.52	632.16	
G27	542.62	544.98	578.4	452.15	629.94	596.71	559.94	797.25	542.62	
G28	475.18	473.34	503.54	406.74	547.25	518.84	487.26	675.95	475.18	
G29	422.98	421.37	450.35	372.1	482.78	458.71	431.43	581.89	422.98	
G30	382.81	382.01	407.21	344.96	434.07	412.64	389.09	510.34	382.81	
G31	352.37	351.62	374.46	322.54	394.99	376.44	356.29	452.9	352.37	
G32	328.4	327.26	348.03	305.88	364.6	348.41	330.05	409.06	328.4	
G33	309.09	308.15	327.97	292.34	340.1	326.27	309.61	375.4	309.09	
G34	293.23	293.66	311.78	281.48	321.22	308.53	293.05	347.84	293.23	
G35	280.54	282.14	298.38	272.28	305.6	294.32	280.16	326.08	280.54	
G36	270.67	271.76	287.67	264.63	293.33	282.52	269.12	309.23	270.67	

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	262.41	263.78	278.6	258.45	282.71	273.46	260.53	295.64	262.41	
G38	255.43	256.37	270.91	252.65	274.59	265.06	253.02	283.65	255.43	
G39	248.73	250.8	263.74	246.93	266.9	258.59	246.56	273.84	248.73	
G40	242.92	244.67	257.7	241.65	261.66	252.27	240.7	266.52	242.92	
G41	237.54	239.57	252.55	236.22	254.53	246.75	235.28	259.16	237.54	
G42	233.06	234.33	246.51	231.6	249.15	240.89	230.23	252.55	233.06	
G43	227.58	229.24	241.22	226.69	243.3	235.7	225.55	246.6	227.58	
G44	223.24	224.28	236.65	222.01	238.25	230.65	222.06	241.36	223.24	
G45	218.43	219.61	231.22	217.11	233.15	226.12	216.35	235.56	218.43	
G46	214.13	215.12	226.31	212.81	228.06	221.4	211.49	230.7	214.13	
G47	209.22	211.06	222.39	207.81	223.43	216.45	207.05	225.51	209.22	
G48	204.88	206.25	216.07	203.56	218.43	212.01	202.76	220.93	204.88	
G49	200.45	202.0	211.68	198.79	213.61	207.1	198.27	216.4	200.45	
G50	196.01	196.95	206.49	193.93	208.99	202.43	193.98	211.73	196.01	
G51	191.57	192.7	201.77	188.83	204.08	197.57	189.59	206.82	191.57	
G52	186.62	187.99	196.76	184.12	199.6	192.99	185.06	202.24	186.62	
G53	181.9	183.45	192.23	179.21	194.12	188.36	180.43	197.52	181.9	
G54	178.17	178.88	187.32	174.63	189.78	183.45	175.81	193.22	178.17	
G55	173.17	174.39	182.42	169.44	185.15	179.21	171.37	188.27	173.17	
G56	168.59	169.63	177.46	164.43	179.87	174.72	166.75	183.64	168.59	
G57	163.82	165.52	172.79	157.87	175.05	169.96	162.59	178.78	163.82	
G58	158.63	159.62	167.08	151.03	169.86	164.39	157.4	174.44	158.63	
G59	151.93	153.44	160.19	143.81	163.16	158.39	151.97	169.58	151.93	
G60	145.22	146.31	152.97	137.01	156.69	151.36	144.99	164.06	145.22	
G61	138.1	139.56	145.93	130.22	149.33	144.56	138.0	157.26	138.1	
G62	131.68	132.62	139.14	124.08	142.77	138.29	131.44	150.32	131.68	
G63	125.4	126.3	132.58	117.76	135.69	131.92	125.17	143.2	125.4	
G64	118.89	120.07	126.39	111.62	129.56	125.64	119.03	136.87	118.89	
G65	113.13	113.93	120.12	105.82	123.28	119.64	113.18	130.41	113.13	
G66	107.14	108.13	114.17	100.1	117.52	113.98	107.42	124.51	107.14	
G67	101.66	102.61	108.65	94.35	111.29	108.22	102.32	117.99	101.66	
G68	95.81	96.94	102.37	89.25	105.44	102.42	96.66	112.56	95.81	
G69	90.52	91.85	96.85	83.87	99.63	97.18	91.37	106.67	90.52	
G70	85.71	86.51	91.47	78.77	94.44	91.7	86.42	101.14	85.71	
G71	80.19	81.41	86.28	73.67	89.25	86.8	81.13	95.57	80.19	
G72	75.14	76.32	81.08	69.0	84.44	81.65	76.27	90.33	75.14	
G73	70.56	71.6	76.08	64.14	78.82	76.74	71.88	85.14	70.56	

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