

Report No.:

Test Time: 2024/9/7 17:26:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-19W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

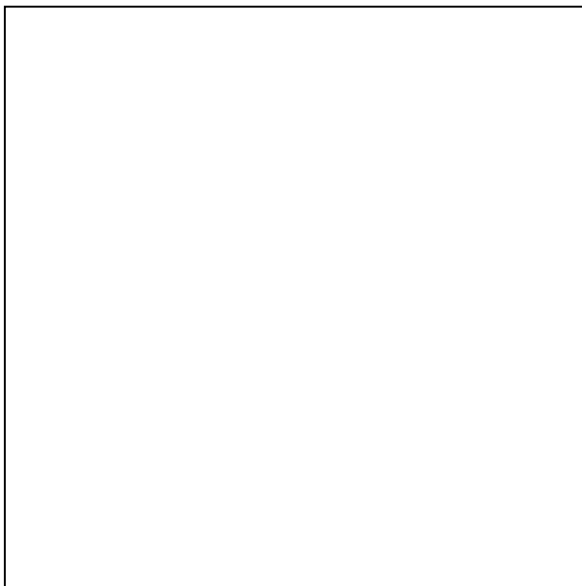
Voltage(V): 219.80 V
Current(A): 0.0910 A
Power(W): 19.01 W
Power Factor: 0.9420
Lamp Luminous Flux: 1731.37

Photometric Results

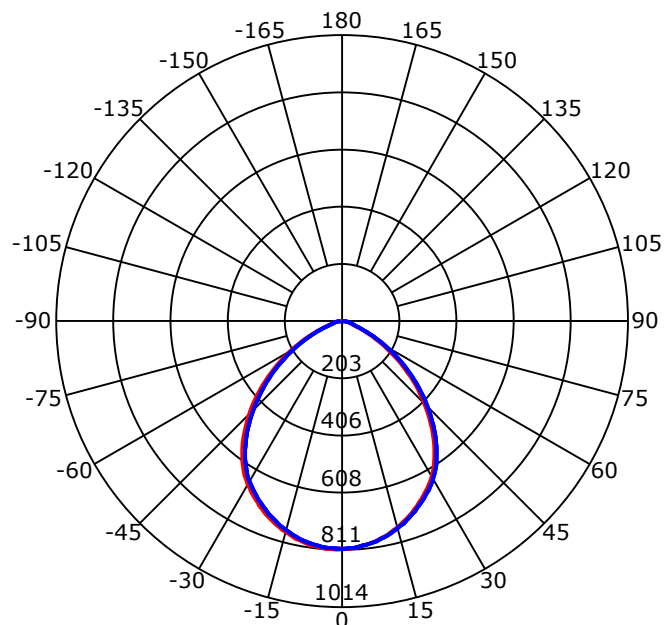
CIE Class: Direct
Luminaire Luminous Flux: 1731.367 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.08 lm/W
Beam Angle(50%) C0-180,C90-270: 94.0,93.9
Field Angle(10%) C0-180,C90-270: 135.6,135.7
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 811.12 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 809.26 cd
Effective Luminous Flux: 1657.87 lm
ERP(ϕ use)(120deg): 1556.39 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 94.0 deg,93.9 deg

C0-180 — C90-270 —

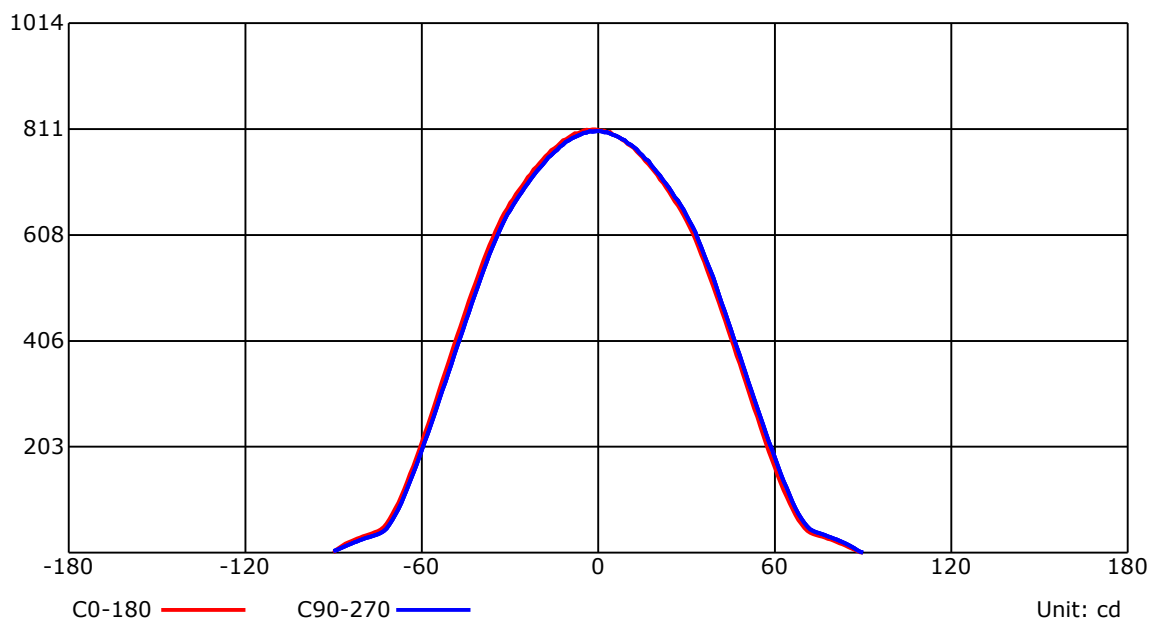
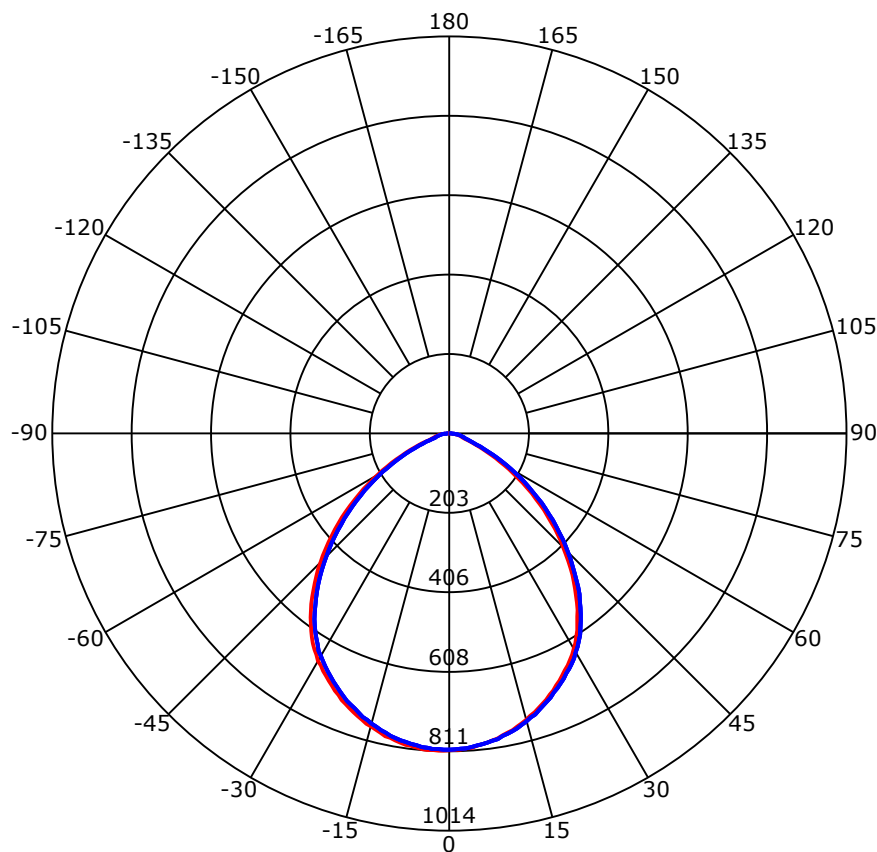
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:26:43

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



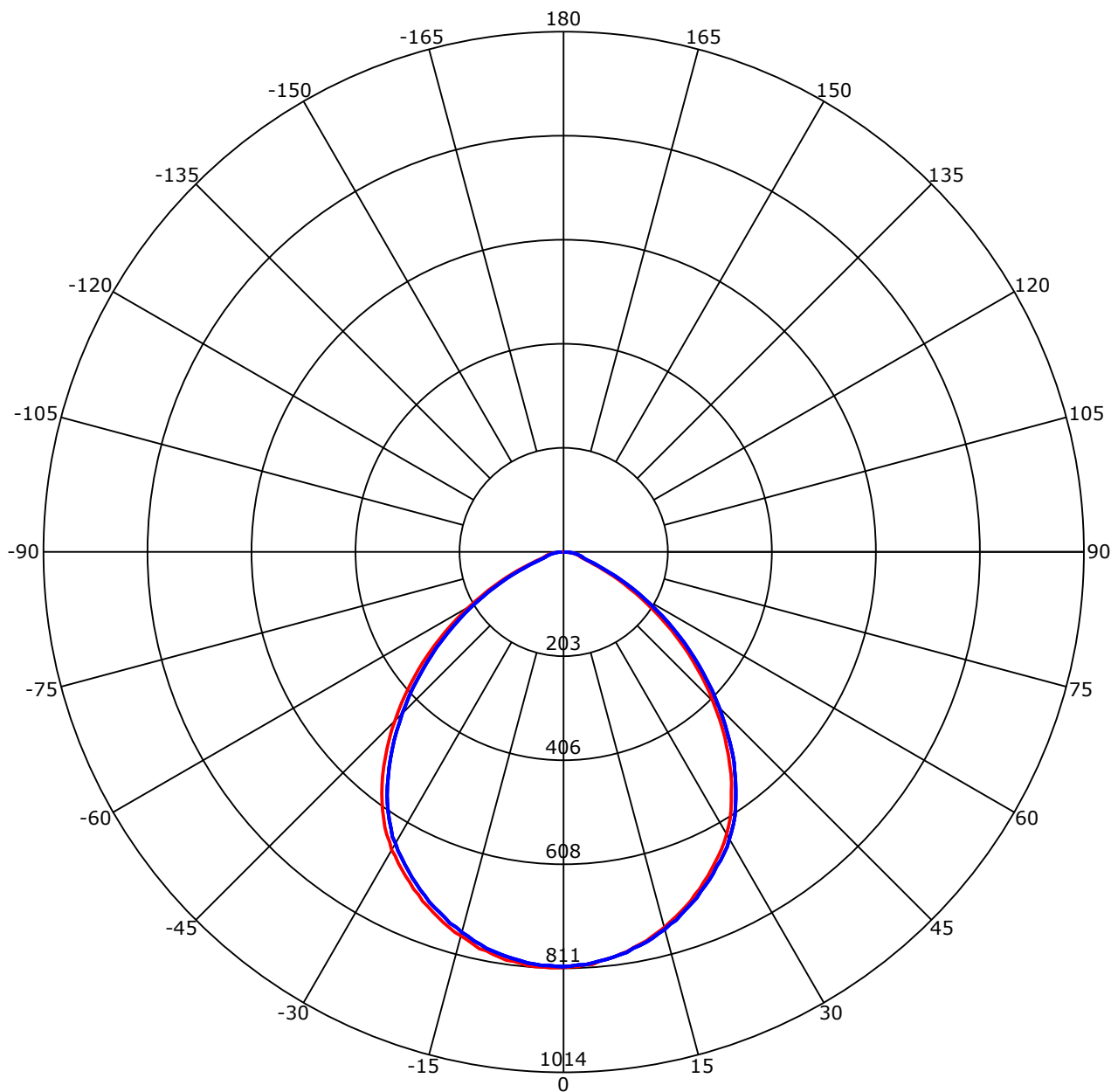
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

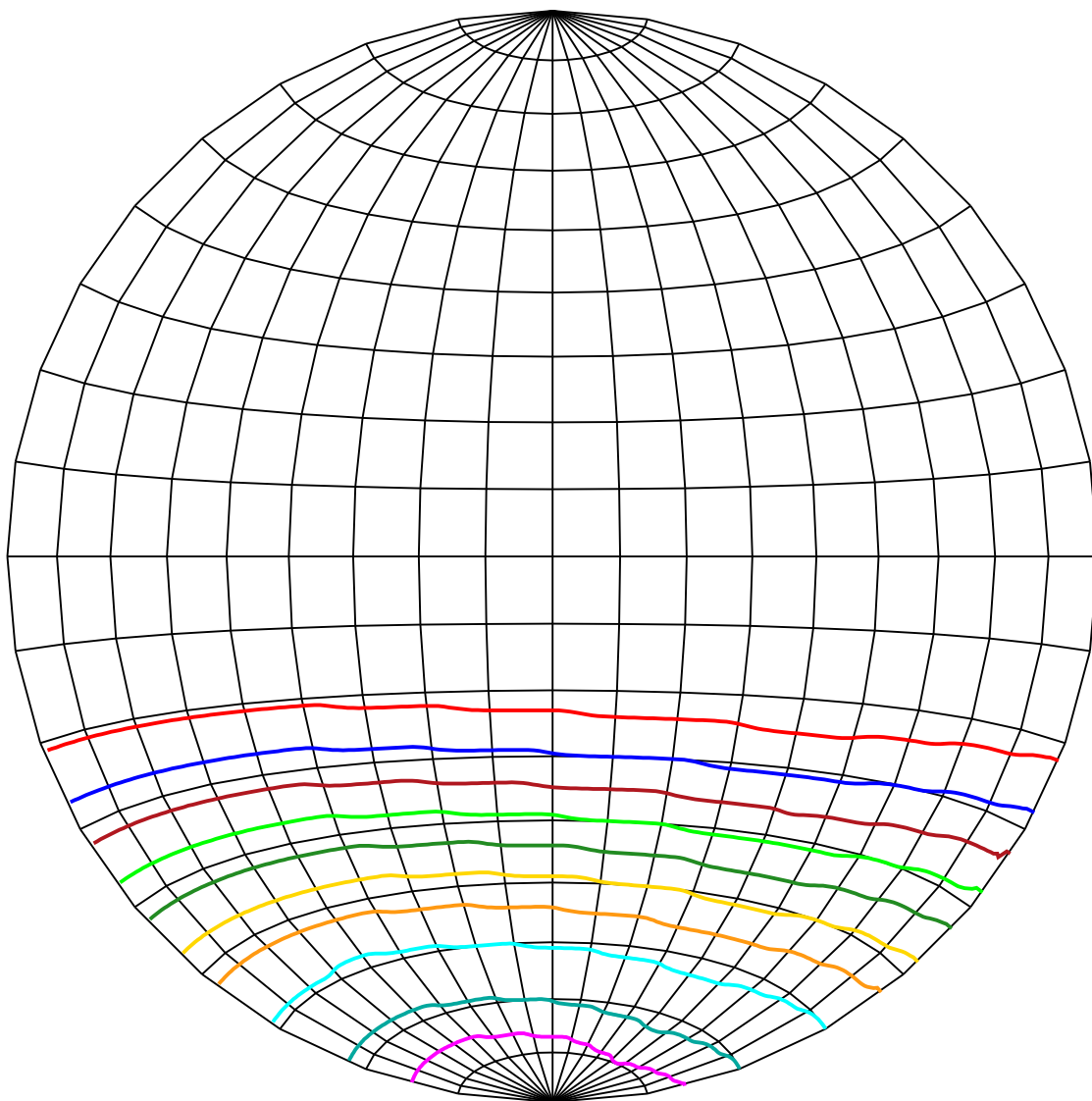
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 811.118 cd

770.562(95%Imax)	405.559(50%Imax)
730.006(90%Imax)	324.447(40%Imax)
648.894(80%Imax)	243.335(30%Imax)
567.783(70%Imax)	162.224(20%Imax)
486.671(60%Imax)	81.112(10%Imax)

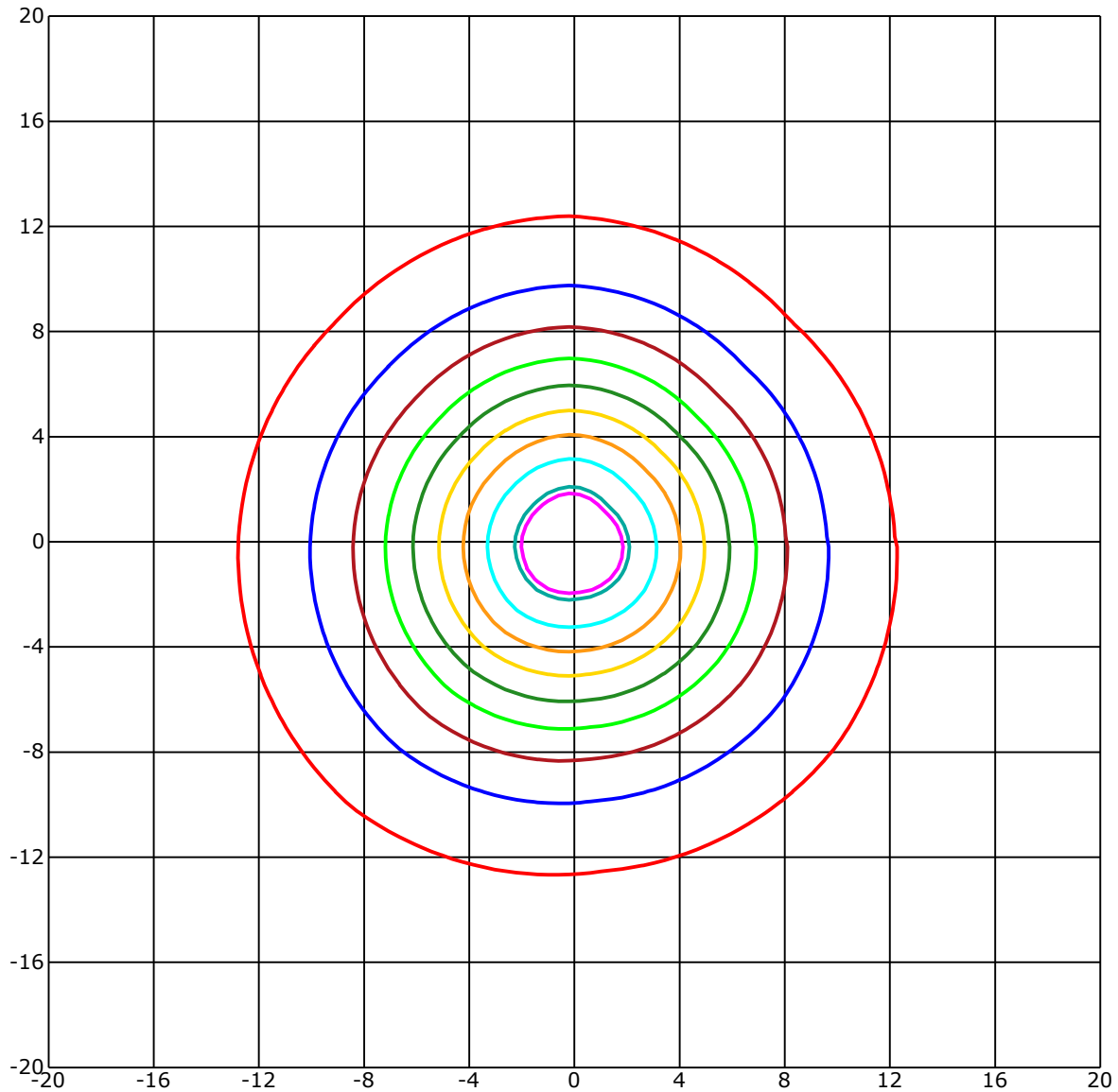
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ISOLX DIAGRAM



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

7.451(92%Emax)	4.05(50%Emax)
7.289(90%Emax)	3.24(40%Emax)
6.479(80%Emax)	2.43(30%Emax)
5.669(70%Emax)	1.62(20%Emax)
4.859(60%Emax)	0.81(10%Emax)

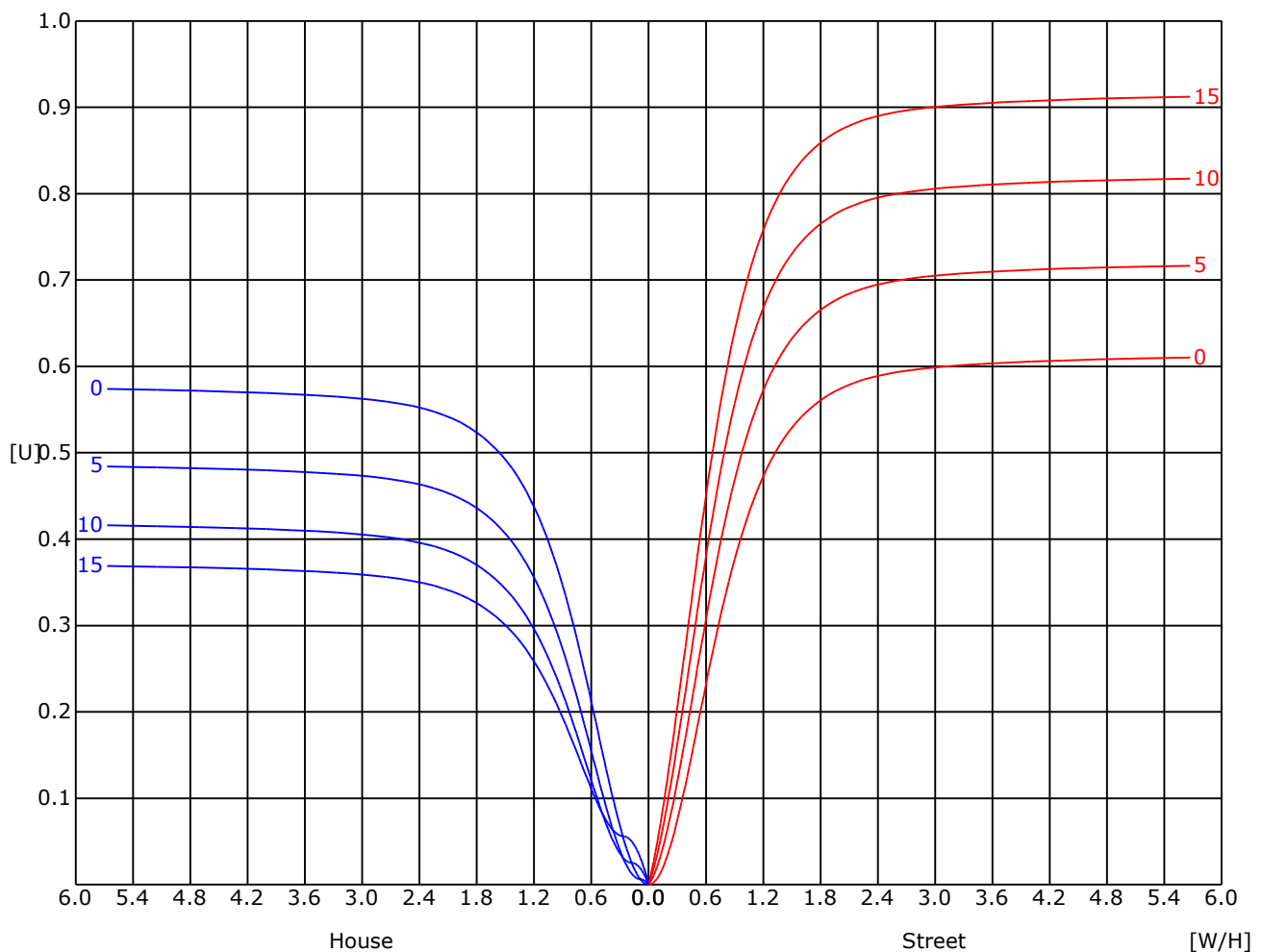
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UTILIZATION FACTOR DIAGRAM (ROAD)

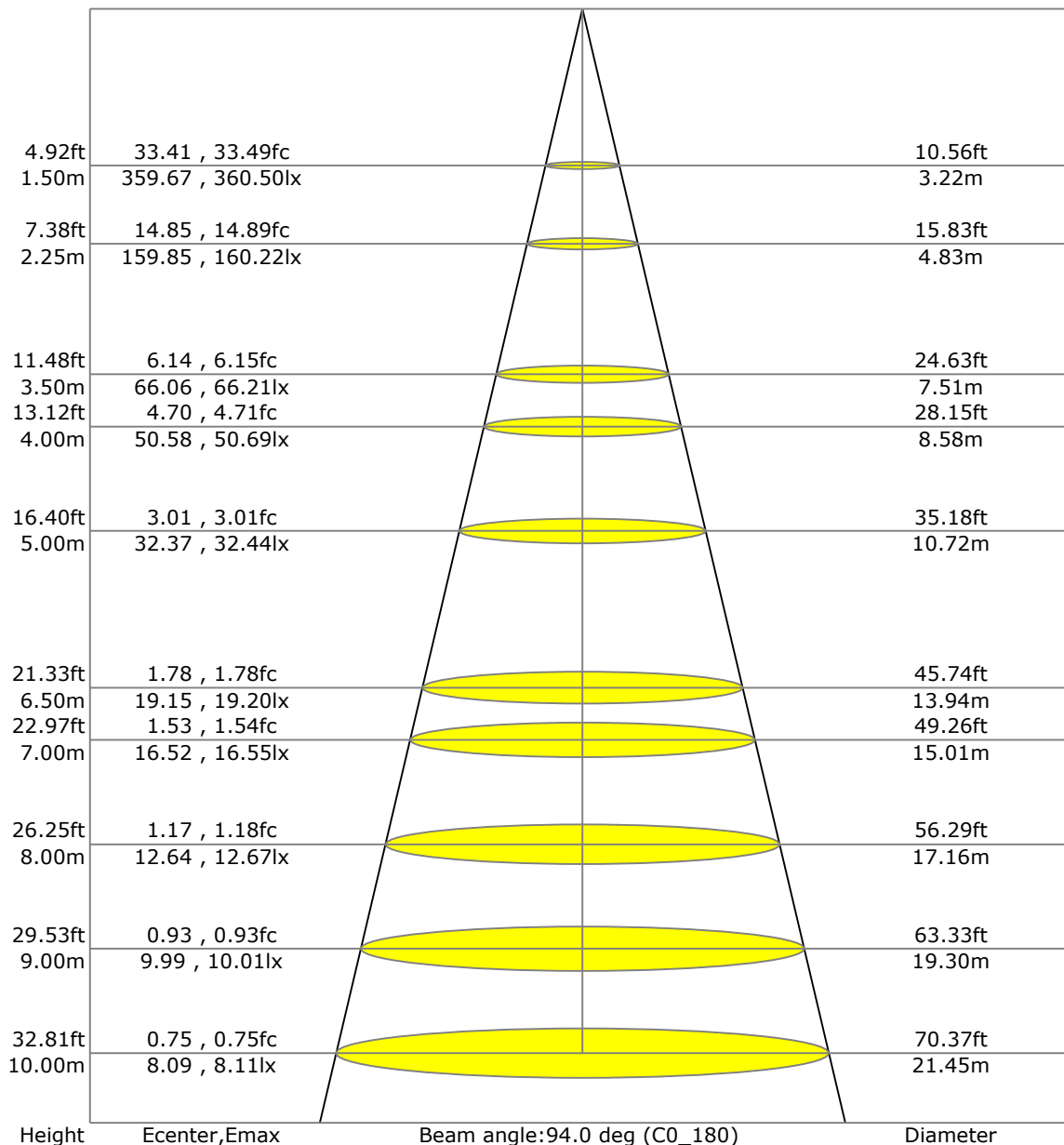


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Temperature: 25
Operators: QC01
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LX-DISTANCE DIAGRAM



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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	18.65	18.72	18.85	18.91	19.15	18.79	18.86	18.99	19.04	19.29
3H	18.65	18.72	18.86	18.91	19.16	18.78	18.84	18.98	19.04	19.28
4H	18.63	18.70	18.84	18.89	19.14	18.76	18.82	18.97	19.02	19.27
6H	18.61	18.67	18.82	18.87	19.12	18.73	18.79	18.95	19.00	19.25
8H	18.59	18.65	18.81	18.86	19.11	18.72	18.78	18.94	18.98	19.24
12H	18.58	18.64	18.80	18.84	19.10	18.70	18.76	18.93	18.97	19.22
4H 2H	19.16	19.23	19.37	19.42	19.67	19.39	19.45	19.60	19.65	19.90
3H	19.20	19.26	19.42	19.46	19.72	19.42	19.48	19.64	19.68	19.94
4H	19.19	19.25	19.42	19.46	19.72	19.41	19.46	19.64	19.68	19.94
6H	19.17	19.22	19.41	19.44	19.71	19.38	19.44	19.62	19.66	19.92
8H	19.15	19.21	19.40	19.43	19.70	19.37	19.42	19.61	19.65	19.91
12H	19.14	19.19	19.39	19.42	19.69	19.35	19.40	19.60	19.63	19.90
8H 4H	19.27	19.33	19.49	19.53	19.79	19.53	19.59	19.75	19.79	20.05
6H	19.35	19.40	19.61	19.64	19.91	19.61	19.66	19.87	19.90	20.17
8H	19.34	19.39	19.60	19.63	19.91	19.60	19.64	19.86	19.89	20.17
12H	19.33	19.36	19.59	19.62	19.90	19.58	19.62	19.85	19.87	20.16
12H 4H	19.39	19.44	19.64	19.67	19.94	19.68	19.73	19.93	19.96	20.23
6H	19.40	19.44	19.66	19.68	19.96	19.69	19.73	19.95	19.98	20.25

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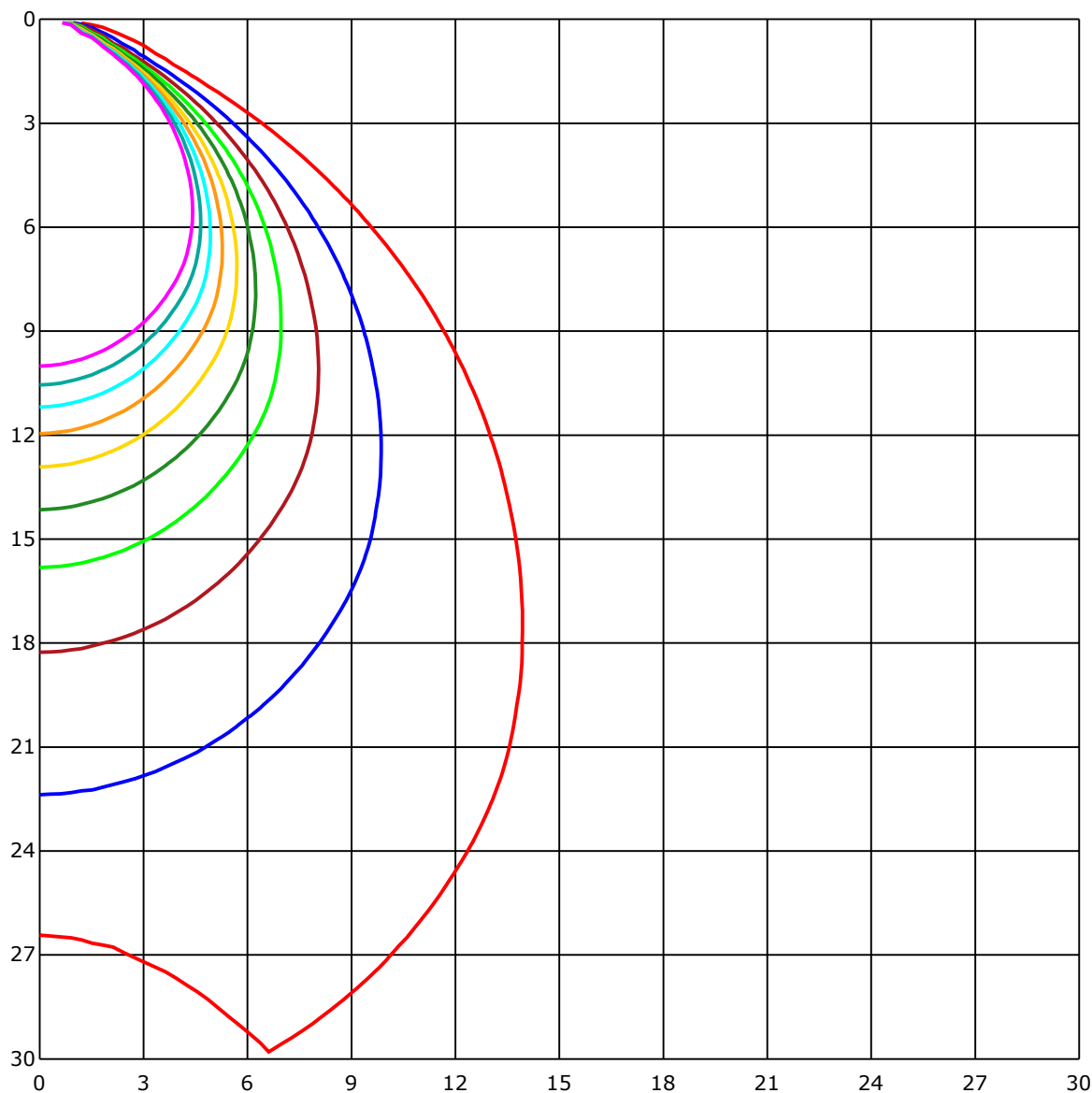
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	809.26	804.39	807.64	808.94	809.26	804.39	807.64	808.94	809.26	
G1	808.29	802.03	806.57	808.38	810.28	805.88	807.13	807.83	808.29	
G2	808.15	800.36	805.04	807.27	810.33	807.45	806.06	811.12	808.15	
G3	805.09	798.36	804.95	805.27	809.22	806.2	806.67	807.87	805.09	
G4	805.37	794.89	802.63	802.82	810.05	806.16	804.63	806.06	805.37	
G5	800.54	791.64	799.94	800.73	808.66	806.99	803.56	806.34	800.54	
G6	797.67	787.37	798.09	799.38	805.92	805.09	800.54	802.68	797.67	
G7	795.54	784.64	795.26	796.51	803.23	803.74	798.5	799.71	795.54	
G8	791.22	779.35	792.2	794.38	803.19	803.37	795.72	799.48	791.22	
G9	788.02	774.62	789.74	788.35	799.25	801.84	793.22	795.03	788.02	
G10	782.6	769.24	783.99	785.66	795.67	797.62	789.83	791.36	782.6	
G11	778.52	764.09	780.93	780.79	791.55	794.89	786.59	786.91	778.52	
G12	774.71	758.3	777.03	776.66	789.97	792.89	781.3	783.29	774.71	
G13	768.27	753.52	772.25	770.96	784.08	788.3	777.4	778.47	768.27	
G14	762.65	746.28	765.95	765.85	778.89	784.59	771.33	773.65	762.65	
G15	757.37	740.53	761.12	760.15	774.11	780.51	766.83	767.8	757.37	
G16	750.04	735.2	754.26	756.95	770.77	776.71	760.66	764.28	750.04	
G17	744.01	727.5	750.37	748.56	764.19	772.07	756.67	757.97	744.01	
G18	737.24	719.66	742.11	741.46	758.85	768.68	749.02	751.29	737.24	
G19	730.47	711.64	735.34	734.64	752.31	761.54	742.48	745.45	730.47	
G20	723.42	704.41	728.43	727.18	746.1	755.74	736.64	740.12	723.42	
G21	714.52	695.36	722.4	719.9	739.37	749.72	730.38	732.05	714.52	
G22	707.79	687.11	713.31	712.24	733.67	743.87	722.22	723.79	707.79	
G23	698.7	679.73	706.17	705.01	724.81	737.19	715.21	716.93	698.7	
G24	691.0	670.46	698.75	698.47	718.97	729.26	707.0	709.18	691.0	
G25	681.91	661.04	690.54	688.22	709.74	723.19	699.58	700.84	681.91	
G26	672.92	651.91	681.08	680.24	702.27	715.26	690.82	693.23	672.92	
G27	664.52	643.05	674.26	671.11	694.16	708.77	682.52	684.19	664.52	
G28	655.48	633.08	665.27	663.64	686.69	699.86	673.71	677.37	655.48	
G29	645.79	621.72	656.69	652.84	677.04	692.3	665.54	668.74	645.79	
G30	635.31	608.87	645.74	643.56	670.37	683.4	655.48	658.36	635.31	
G31	624.13	596.95	635.31	632.66	658.87	675.84	647.69	649.5	624.13	
G32	612.12	582.62	624.22	623.8	650.1	665.45	635.21	640.27	612.12	
G33	599.09	569.13	613.0	609.29	639.34	657.8	623.71	626.82	599.09	
G34	584.66	555.31	598.62	595.65	627.28	646.67	611.52	614.48	584.66	
G35	569.96	539.96	584.71	582.3	615.32	636.6	598.67	601.87	569.96	
G36	557.16	525.02	570.52	567.83	601.82	624.69	585.54	588.56	557.16	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	541.49	510.0	556.33	552.57	588.61	611.65	571.08	574.04	541.49	
G38	525.16	492.75	541.3	537.08	574.46	598.44	555.45	560.04	525.16	
G39	510.23	476.79	527.71	522.57	560.27	585.31	540.98	545.24	510.23	
G40	494.04	459.82	511.34	506.98	545.2	571.21	525.53	530.26	494.04	
G41	478.65	443.87	494.46	489.82	529.38	556.37	509.81	515.19	478.65	
G42	462.18	426.29	477.4	473.78	514.03	541.12	494.0	499.24	462.18	
G43	445.3	409.59	461.02	457.45	497.8	527.3	477.02	482.45	445.3	
G44	428.19	393.41	444.79	442.15	482.87	509.91	460.14	466.68	428.19	
G45	411.45	376.25	428.75	424.57	465.38	494.55	444.75	449.8	411.45	
G46	396.05	359.41	411.68	408.06	448.87	478.37	427.59	433.11	396.05	
G47	377.92	342.53	395.77	391.37	432.27	463.48	411.4	415.9	377.92	
G48	361.97	326.21	378.24	375.41	415.34	446.97	394.61	399.48	361.97	
G49	344.3	308.35	361.36	357.14	398.42	429.49	377.5	382.23	344.3	
G50	327.42	291.38	344.81	340.59	381.21	413.44	360.3	365.95	327.42	
G51	310.63	275.43	327.79	324.45	364.47	397.12	344.2	348.56	310.63	
G52	293.33	258.73	311.6	307.43	347.64	379.63	327.0	332.05	293.33	
G53	276.08	242.18	294.95	290.36	330.11	362.89	310.49	315.22	276.08	
G54	260.26	225.94	277.51	273.71	312.95	345.5	293.61	298.85	260.26	
G55	242.36	210.41	261.19	257.11	295.14	328.53	276.91	281.83	242.36	
G56	225.94	194.97	245.42	241.2	278.12	311.23	260.26	264.71	225.94	
G57	209.25	180.22	229.05	224.6	261.28	294.53	244.08	247.97	209.25	
G58	193.48	165.52	213.05	208.51	244.73	277.19	228.17	231.97	193.48	
G59	177.39	151.19	197.42	193.43	228.03	260.73	212.31	215.46	177.39	
G60	162.41	137.23	182.26	177.62	211.75	243.38	196.45	199.74	162.41	
G61	147.34	123.82	167.14	162.08	195.89	227.01	181.24	183.97	147.34	
G62	133.33	110.51	151.84	147.38	180.17	210.5	165.56	168.67	133.33	
G63	119.98	98.5	137.64	133.52	165.15	194.41	151.28	153.78	119.98	
G64	106.9	86.45	123.82	119.28	150.77	177.99	136.11	139.73	106.9	
G65	94.47	75.73	110.7	106.25	135.88	162.69	122.15	125.59	94.47	
G66	83.48	65.71	97.2	93.77	121.83	147.38	108.52	112.09	83.48	
G67	72.3	57.0	85.47	81.95	108.66	132.45	95.44	99.34	72.3	
G68	62.79	49.25	74.8	71.28	96.0	118.03	83.25	87.19	62.79	
G69	54.58	42.71	65.39	61.96	84.54	104.67	72.39	76.2	54.58	
G70	47.16	38.31	56.95	53.61	74.06	92.15	62.65	66.32	47.16	
G71	41.55	35.43	50.32	46.01	64.23	80.6	54.07	57.69	41.55	
G72	38.17	33.53	44.98	40.72	56.21	70.35	46.42	50.46	38.17	
G73	35.48	32.09	41.55	37.1	49.21	61.31	40.95	45.26	35.48	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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