

Report No.:

Test Time: 2024/10/16 16:22:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H69-38°-10W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 63 mm

Voltage(V): 219.90 V
Current(A): 0.0530 A
Power(W): 10.75 W
Power Factor: 0.9160
Lamp Luminous Flux: 1118.37

Photometric Results

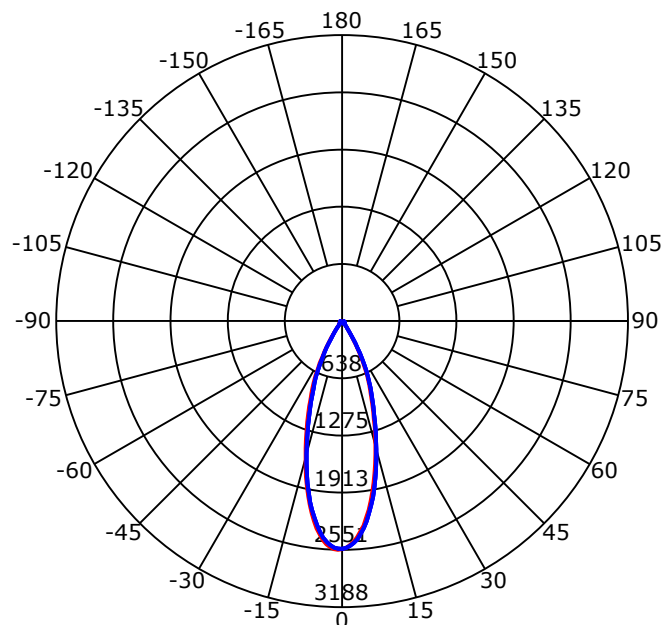
CIE Class: Direct
Luminaire Luminous Flux: 1118.372 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.03 lm/W
Beam Angle(50%) C0-180,C90-270: 34.7,34.6
Field Angle(10%) C0-180,C90-270: 63.4,63.1
S/MH C0-180,C90-270: 0.573,0.573

Max. Intensity: 2550.69 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2544.47 cd
Effective Luminous Flux: 968.49 lm
ERP(φuse)(120deg): 1087.86 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 34.7 deg,34.6 deg

C0-180 — C90-270 —

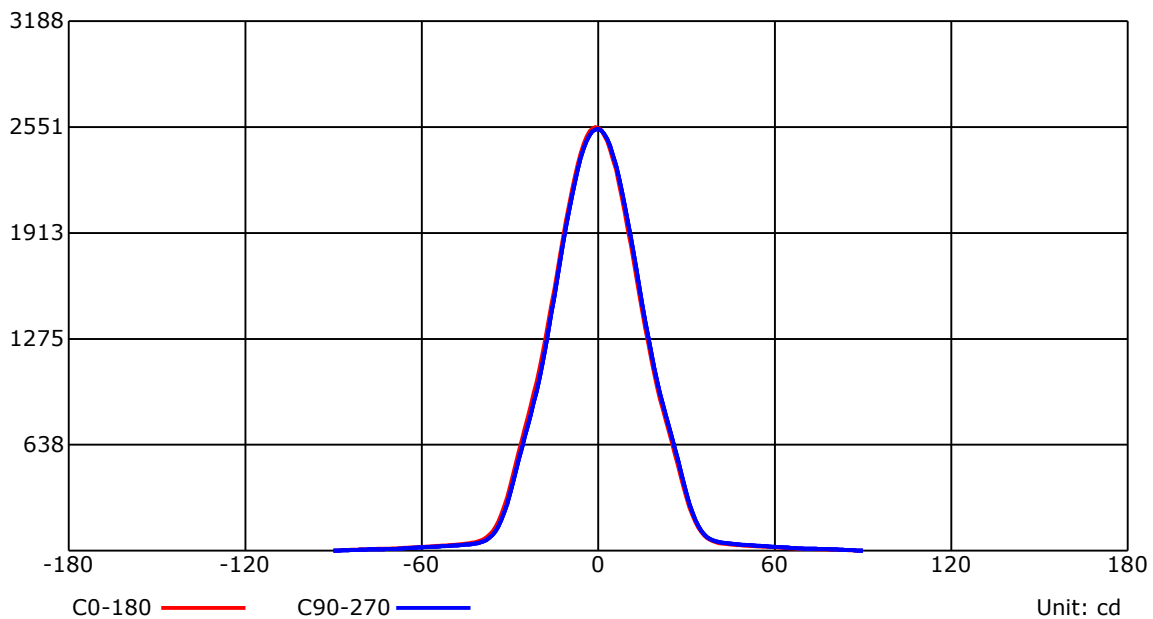
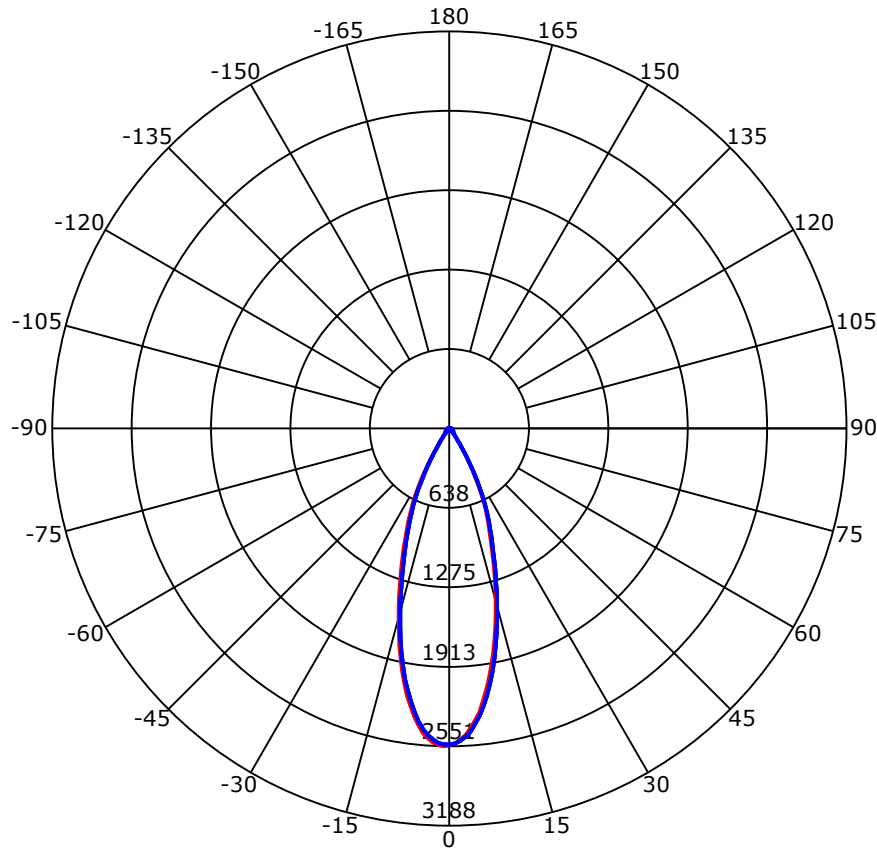
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/16 16:22:57

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



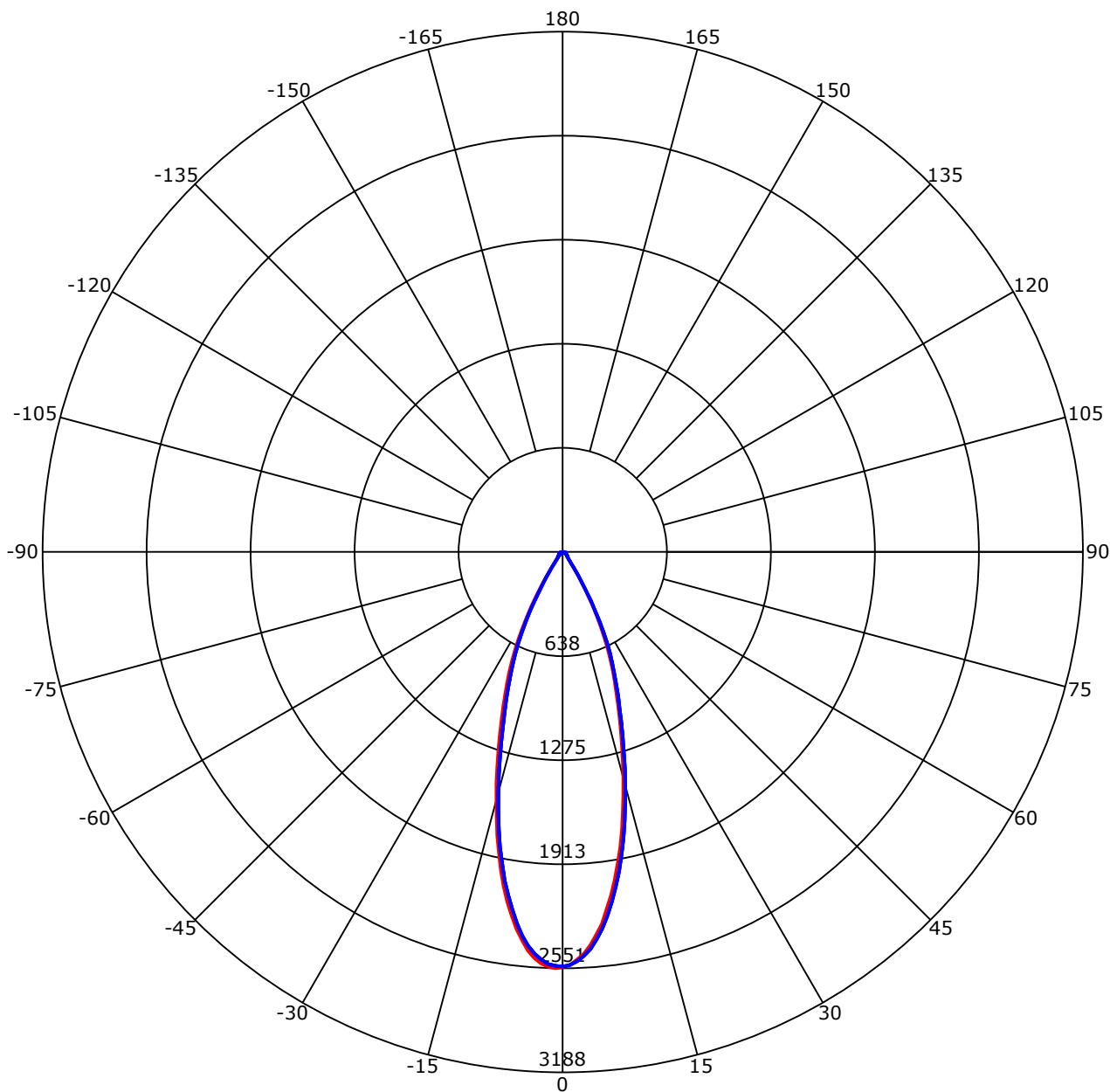
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —
Unit: cd/klm

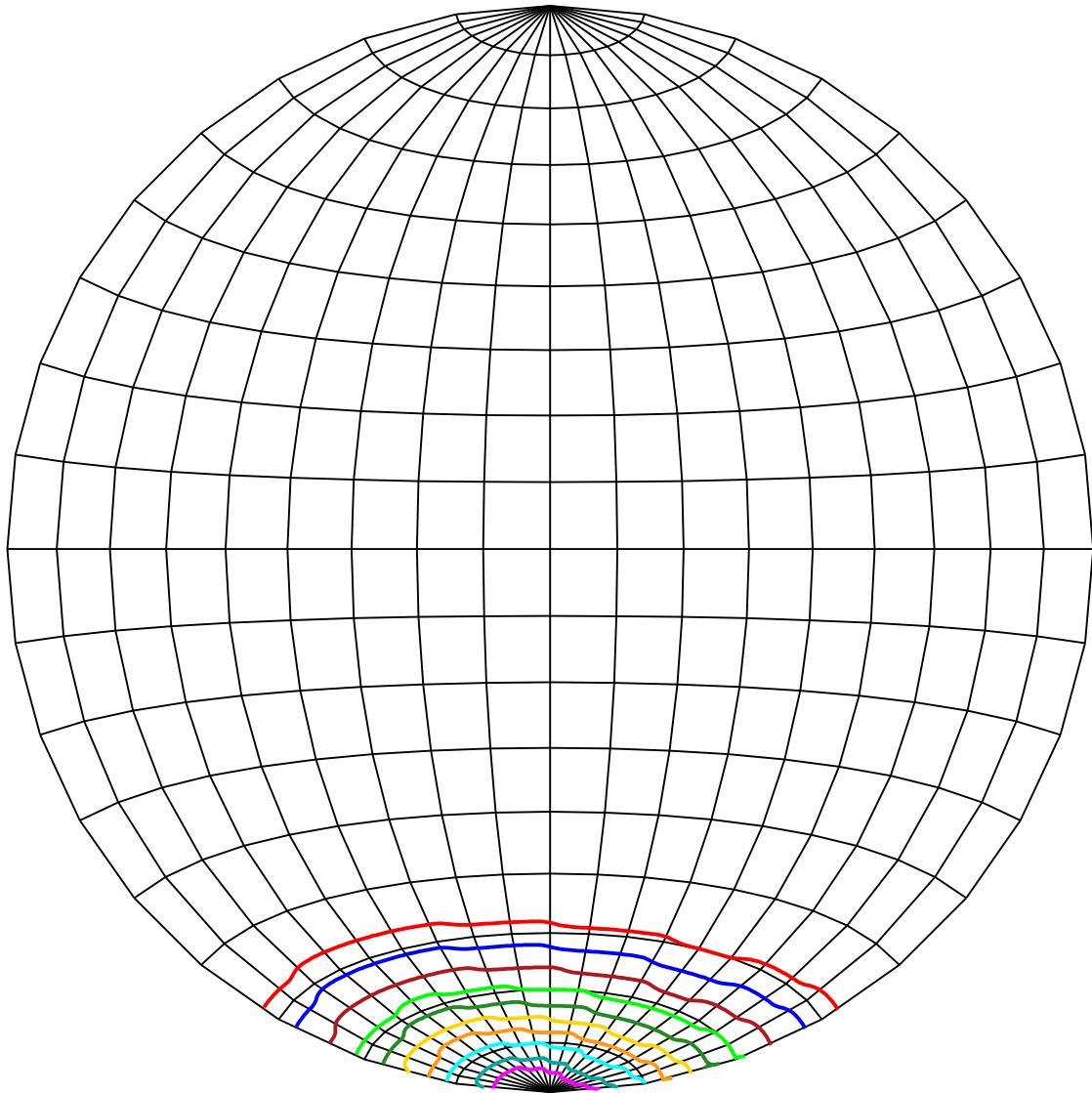
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2550.686 cd

2423.152(95%Imax)	1275.343(50%Imax)
2295.617(90%Imax)	1020.274(40%Imax)
2040.549(80%Imax)	765.206(30%Imax)
1785.48(70%Imax)	510.137(20%Imax)
1530.412(60%Imax)	255.069(10%Imax)

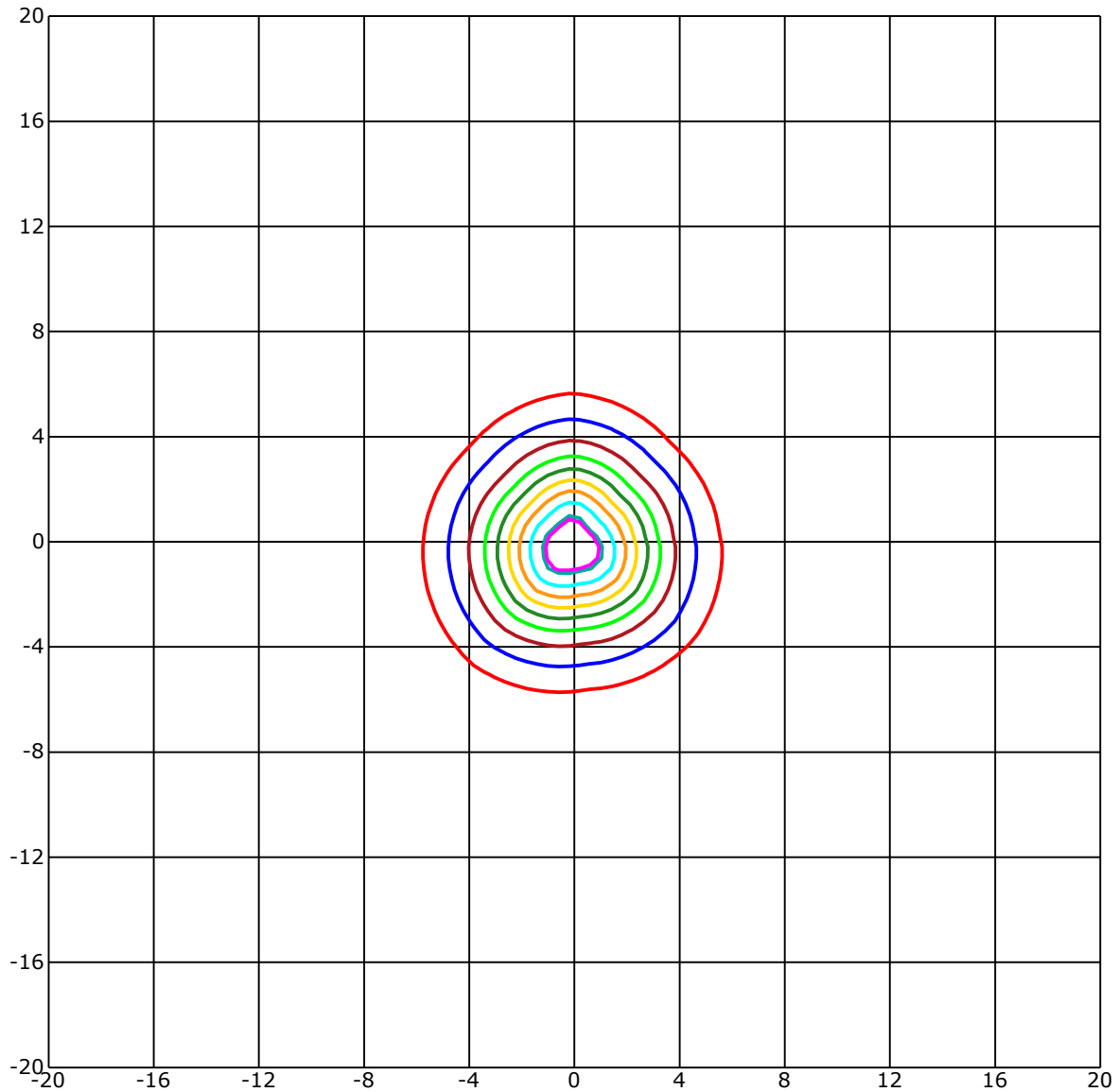
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ISOLX DIAGRAM



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

23.456(92%Emax)	12.748(50%Emax)
22.946(90%Emax)	10.198(40%Emax)
20.396(80%Emax)	7.649(30%Emax)
17.847(70%Emax)	5.099(20%Emax)
15.297(60%Emax)	2.55(10%Emax)

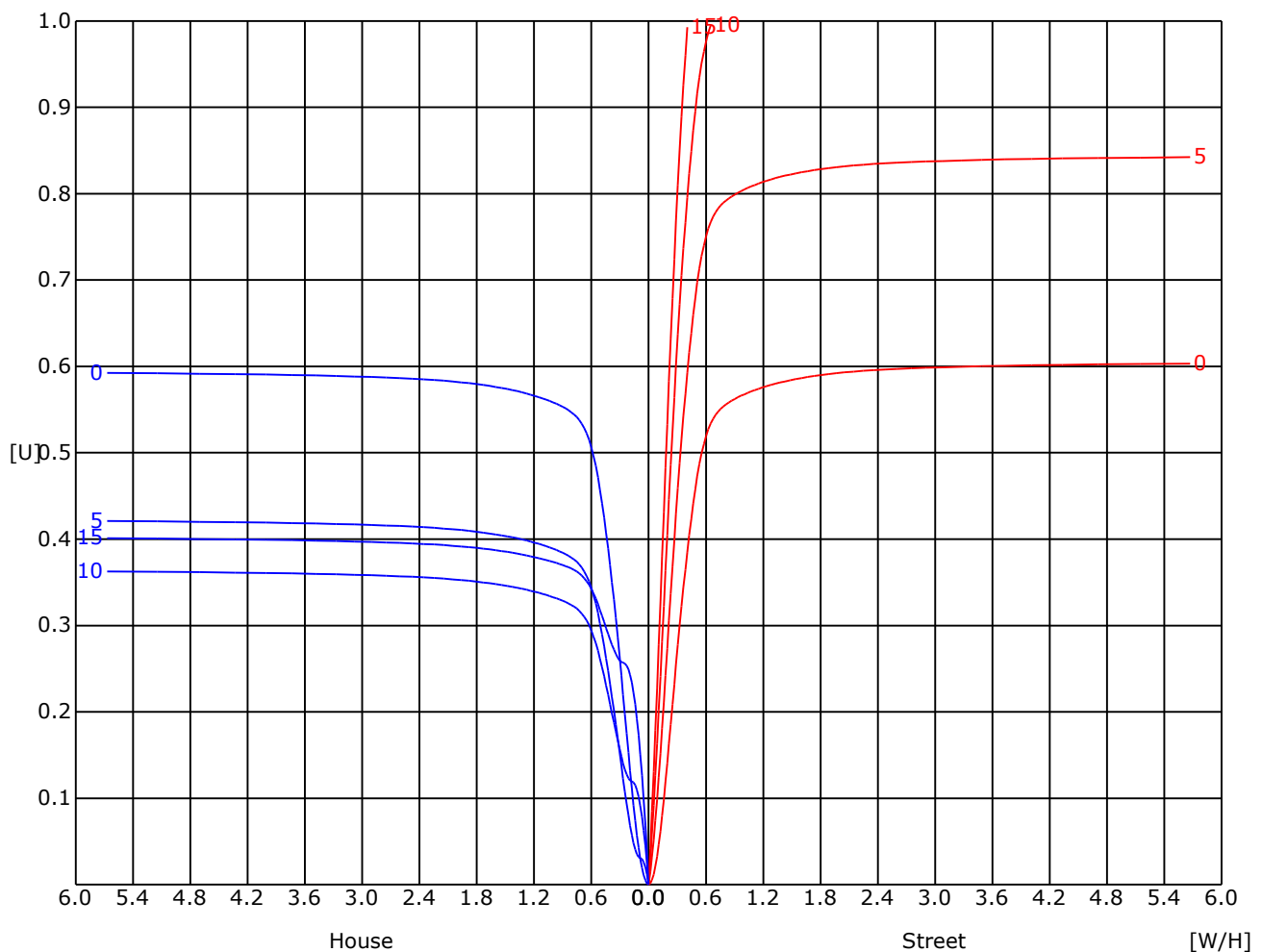
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UTILIZATION FACTOR DIAGRAM (ROAD)



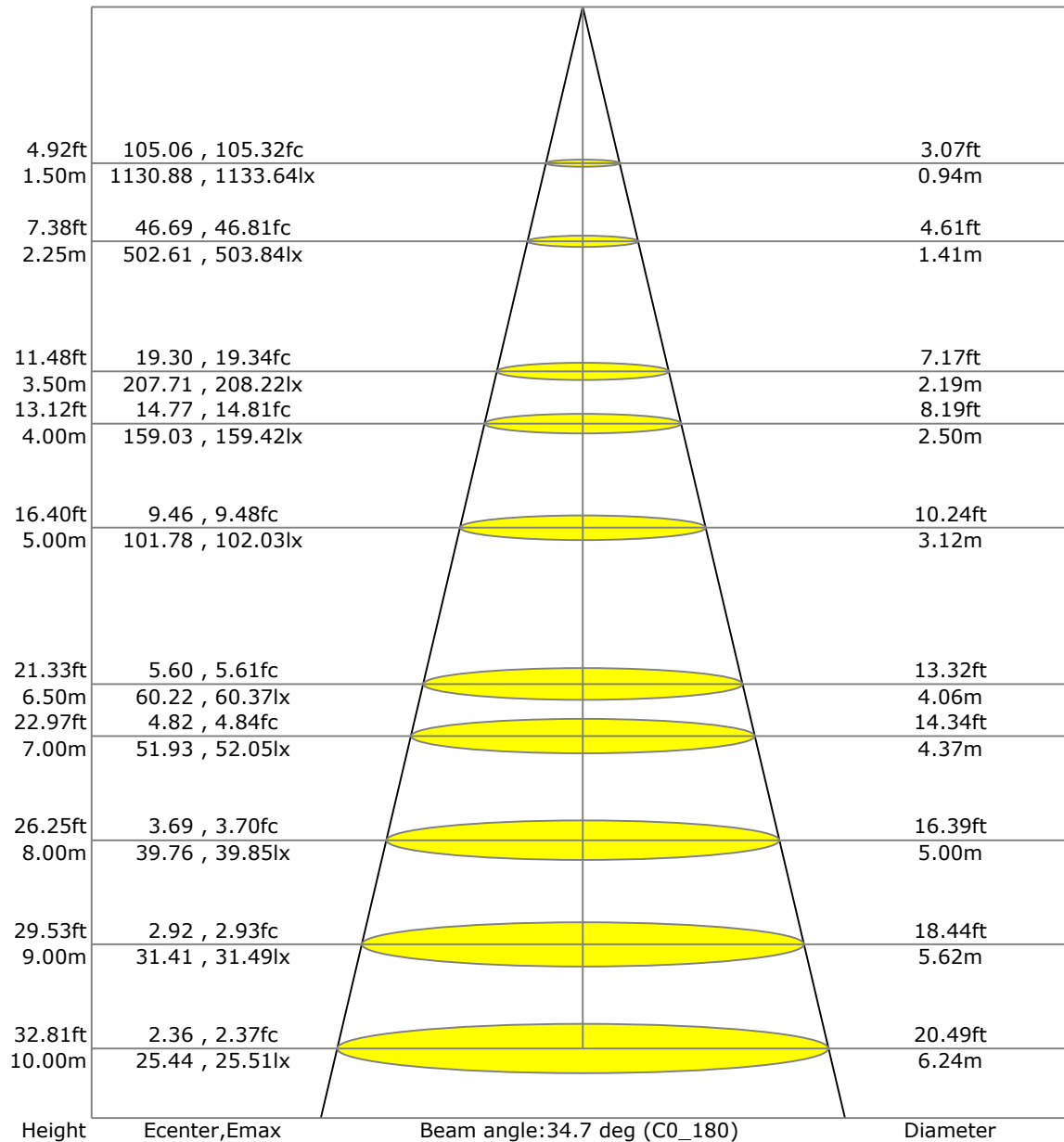
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Operators: QC01
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LX-DISTANCE DIAGRAM



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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	9.78	9.83	9.98	10.02	10.26	9.99	10.04	10.19	10.23	10.47
	3H	9.87	9.92	10.07	10.11	10.36	10.05	10.11	10.26	10.30	10.55
	4H	9.88	9.94	10.09	10.13	10.38	10.06	10.12	10.27	10.31	10.56
	6H	9.88	9.93	10.09	10.13	10.38	10.05	10.11	10.27	10.31	10.56
	8H	9.87	9.92	10.09	10.13	10.38	10.05	10.10	10.26	10.30	10.56
	12H	9.86	9.91	10.08	10.12	10.37	10.04	10.09	10.26	10.30	10.55
4H	2H	11.15	11.20	11.36	11.40	11.65	11.61	11.66	11.82	11.86	12.11
	3H	11.40	11.45	11.62	11.66	11.91	11.83	11.88	12.05	12.09	12.34
	4H	11.47	11.53	11.70	11.74	12.00	11.89	11.94	12.11	12.15	12.41
	6H	11.51	11.56	11.74	11.78	12.04	11.90	11.96	12.14	12.18	12.44
	8H	11.51	11.56	11.75	11.79	12.05	11.90	11.95	12.14	12.18	12.44
	12H	11.50	11.55	11.75	11.78	12.05	11.89	11.94	12.14	12.17	12.44
8H	4H	11.67	11.72	11.89	11.93	12.18	12.32	12.38	12.54	12.58	12.83
	6H	12.29	12.34	12.54	12.58	12.85	12.91	12.96	13.16	13.19	13.47
	8H	12.31	12.36	12.57	12.60	12.88	12.92	12.96	13.18	13.21	13.49
	12H	12.31	12.36	12.58	12.61	12.89	12.91	12.95	13.18	13.21	13.49
12H	4H	12.35	12.41	12.60	12.64	12.91	13.10	13.15	13.35	13.38	13.65
	6H	12.47	12.52	12.73	12.76	13.04	13.21	13.26	13.47	13.50	13.78

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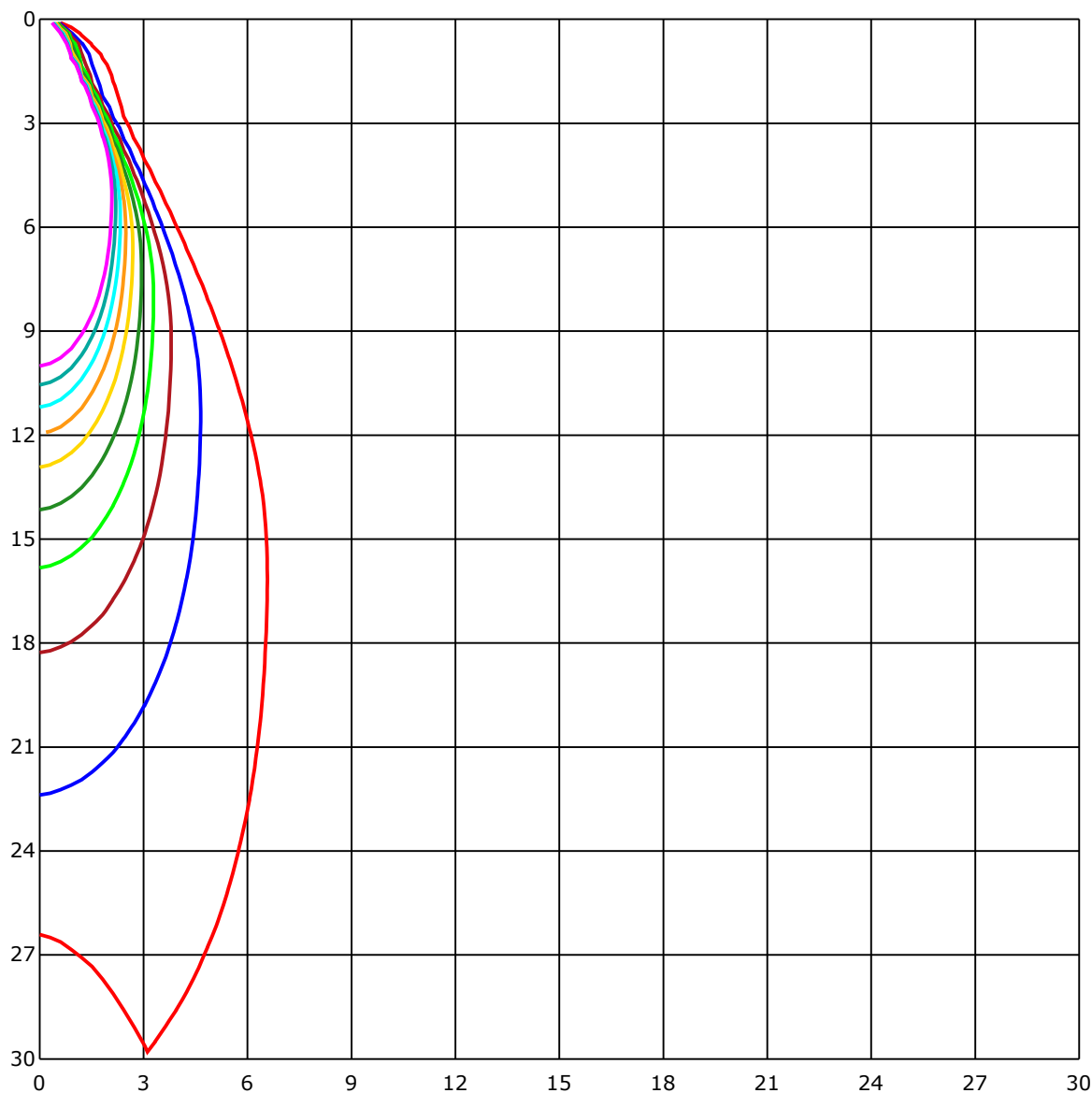
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

25.403
22.863
20.323
17.782
15.242

12.702
10.161
7.621
5.081
2.54

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2544.47	2504.87	2539.83	2537.84	2544.47	2504.87	2539.83	2537.84	2544.47	
G1	2531.25	2472.17	2529.54	2519.38	2550.69	2531.86	2535.89	2541.18	2531.25	
G2	2499.49	2427.33	2508.67	2485.76	2543.64	2549.67	2526.25	2540.44	2499.49	
G3	2465.45	2372.18	2478.57	2445.18	2524.9	2548.92	2501.06	2524.58	2465.45	
G4	2413.51	2305.36	2438.73	2395.14	2494.34	2537.7	2468.0	2495.78	2413.51	
G5	2354.24	2233.98	2381.04	2331.33	2452.23	2518.36	2423.11	2455.71	2354.24	
G6	2292.14	2152.83	2319.18	2260.14	2392.13	2476.81	2364.35	2409.33	2292.14	
G7	2205.42	2071.9	2246.6	2178.89	2327.25	2434.56	2293.62	2348.9	2205.42	
G8	2123.38	1980.54	2165.39	2092.12	2251.88	2373.85	2215.06	2280.04	2123.38	
G9	2034.38	1886.49	2078.11	1994.08	2171.33	2309.9	2131.59	2197.9	2034.38	
G10	1936.43	1785.94	1987.31	1895.86	2082.7	2233.8	2044.91	2113.27	1936.43	
G11	1841.78	1685.59	1888.06	1793.69	1986.71	2147.86	1945.9	2015.09	1841.78	
G12	1739.61	1582.12	1789.47	1692.77	1883.33	2060.49	1847.16	1922.43	1739.61	
G13	1635.64	1480.09	1689.53	1580.45	1784.14	1963.75	1741.38	1824.11	1635.64	
G14	1533.66	1381.03	1583.33	1481.02	1676.82	1862.23	1635.08	1722.78	1533.66	
G15	1435.48	1285.87	1478.93	1378.53	1574.28	1758.67	1526.61	1617.88	1435.48	
G16	1335.45	1191.54	1380.57	1280.21	1474.34	1657.2	1422.77	1517.66	1335.45	
G17	1241.12	1104.22	1282.49	1185.88	1376.81	1549.15	1317.08	1415.31	1241.12	
G18	1150.04	1022.96	1190.94	1097.44	1279.42	1444.38	1219.46	1317.45	1150.04	
G19	1063.82	944.4	1101.48	1011.46	1188.48	1345.28	1125.97	1221.69	1063.82	
G20	982.76	872.57	1021.43	937.12	1101.57	1245.62	1039.61	1129.07	982.76	
G21	910.78	808.06	947.05	866.63	1020.83	1155.79	961.38	1041.0	910.78	
G22	842.1	744.43	876.04	800.45	946.17	1070.5	889.73	962.35	842.1	
G23	777.4	683.82	810.19	738.08	873.77	990.22	816.45	888.75	777.4	
G24	714.75	614.07	749.07	676.67	804.86	915.28	750.97	822.02	714.75	
G25	652.7	543.3	685.49	605.53	741.18	844.83	688.04	757.37	652.7	
G26	582.3	474.29	619.21	534.02	672.04	776.75	619.58	695.32	582.3	
G27	513.11	407.74	549.09	461.72	599.97	709.18	549.7	626.49	513.11	
G28	443.17	343.69	479.53	393.27	528.18	639.25	481.24	559.16	443.17	
G29	378.48	285.86	410.01	327.37	458.52	567.13	411.36	488.34	378.48	
G30	316.7	233.13	343.55	267.73	389.47	494.32	345.73	420.12	316.7	
G31	259.75	188.38	282.34	215.42	324.86	424.48	282.29	355.19	259.75	
G32	210.78	151.97	228.63	172.75	267.45	357.0	228.31	294.91	210.78	
G33	170.94	123.17	183.93	137.32	218.94	296.95	182.95	240.74	170.94	
G34	137.55	100.22	148.4	109.08	176.74	243.29	145.76	194.18	137.55	
G35	111.77	82.73	120.25	87.51	143.26	197.98	116.5	154.85	111.77	
G36	90.94	69.1	99.11	71.23	116.31	160.46	94.65	124.52	90.94	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	75.5	59.32	82.41	59.5	96.04	131.38	77.54	101.61	75.5	
G38	64.14	52.31	70.54	52.17	80.69	107.64	64.65	84.5	64.14	
G39	55.6	46.98	62.24	46.56	69.56	89.88	55.93	71.74	55.6	
G40	49.81	43.55	56.81	43.27	61.59	76.38	49.81	63.4	49.81	
G41	45.22	41.18	52.4	40.53	55.65	66.64	45.22	57.46	45.22	
G42	42.3	39.0	49.25	38.4	51.43	59.45	42.2	53.52	42.3	
G43	40.12	37.15	46.38	36.73	48.09	54.4	39.65	50.41	40.12	
G44	38.26	35.8	44.38	35.15	45.17	50.46	37.84	47.16	38.26	
G45	36.73	34.41	42.53	33.53	42.85	47.26	36.27	44.98	36.73	
G46	35.25	33.16	40.67	32.51	40.95	44.71	34.83	43.18	35.25	
G47	33.9	31.86	38.91	31.16	39.1	42.43	33.48	41.27	33.9	
G48	32.51	30.65	37.47	30.14	37.47	40.35	32.28	39.74	32.51	
G49	31.4	29.82	36.03	28.94	35.99	38.68	31.03	38.17	31.4	
G50	30.24	28.47	34.74	27.96	34.55	37.29	30.05	36.87	30.24	
G51	29.36	27.5	33.53	26.85	33.34	35.71	28.66	35.38	29.36	
G52	28.34	26.48	32.37	25.97	32.09	34.27	27.78	34.32	28.34	
G53	27.32	25.83	31.07	24.95	30.89	33.07	26.71	32.97	27.32	
G54	26.3	24.86	29.73	23.93	29.63	31.67	25.55	31.86	26.3	
G55	25.41	23.79	28.75	22.91	28.52	30.65	24.53	30.61	25.41	
G56	24.35	22.82	27.73	22.12	27.41	29.26	23.65	29.5	24.35	
G57	23.37	21.98	26.81	21.33	26.3	28.2	22.77	28.43	23.37	
G58	22.54	20.87	25.74	20.36	25.14	26.94	21.84	27.27	22.54	
G59	21.61	19.85	24.58	19.34	24.21	25.97	20.96	26.2	21.61	
G60	20.5	18.83	23.42	18.55	23.33	24.9	20.17	25.32	20.5	
G61	19.57	17.99	22.49	17.62	22.21	23.88	19.11	23.98	19.57	
G62	18.41	16.74	21.24	16.74	21.24	22.77	18.09	22.96	18.41	
G63	17.3	15.58	20.17	15.72	20.41	21.94	17.02	21.89	17.3	
G64	16.14	14.47	19.15	14.75	19.34	20.68	16.14	20.78	16.14	
G65	14.93	12.89	18.04	13.77	18.23	19.9	15.07	19.43	14.93	
G66	13.36	11.27	16.6	12.61	17.3	18.88	13.96	18.18	13.36	
G67	11.83	10.67	14.98	11.41	16.05	17.9	12.43	16.74	11.83	
G68	10.85	10.39	13.87	10.81	14.61	16.51	11.22	14.89	10.85	
G69	10.67	10.06	13.31	10.48	13.82	15.12	10.71	13.73	10.67	
G70	10.34	9.79	12.89	10.16	13.36	14.05	10.34	13.26	10.34	
G71	9.97	9.32	12.43	9.74	12.99	13.63	10.11	12.8	9.97	
G72	9.6	8.9	11.92	9.41	12.57	13.08	9.65	12.34	9.6	
G73	9.28	8.53	11.55	9.0	12.1	12.75	9.18	12.01	9.28	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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