

Report No.:

Test Time: 2024/10/15 11:30:30

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP155CT085H99-24°-15W
Lamp Type:
Luminous Width: 65 mm
Luminous Length: 65 mm
Luminous Height: 80 mm

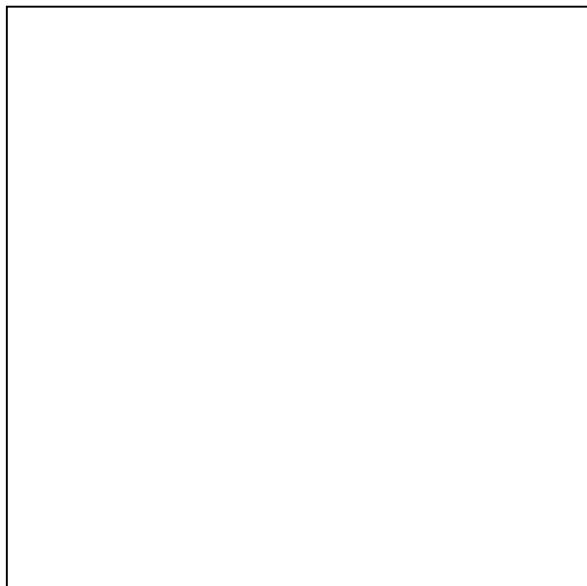
Voltage(V): 219.90 V
Current(A): 0.0720 A
Power(W): 15.31 W
Power Factor: 0.9530
Lamp Luminous Flux: 1328.38

Photometric Results

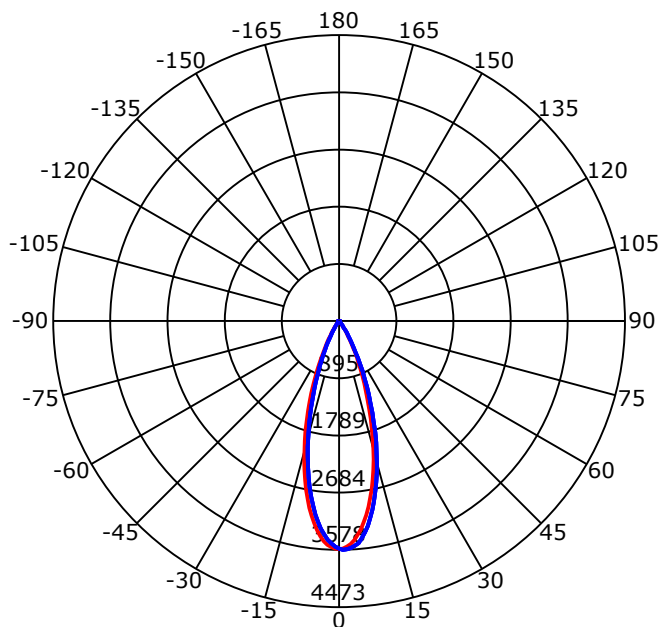
CIE Class: Direct
Luminaire Luminous Flux: 1328.378 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 86.77 lm/W
Beam Angle(50%) C0-180,C90-270: 33.8,33.7
Field Angle(10%) C0-180,C90-270: 58.9,58.4
S/MH C0-180,C90-270: 0.573,0.573

Max. Intensity: 3578.33 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3570.31 cd
Effective Luminous Flux: 1197.36 lm
ERP(φuse)(120deg): 1315.45 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 33.8 deg,33.7 deg

C0-180 — C90-270 —

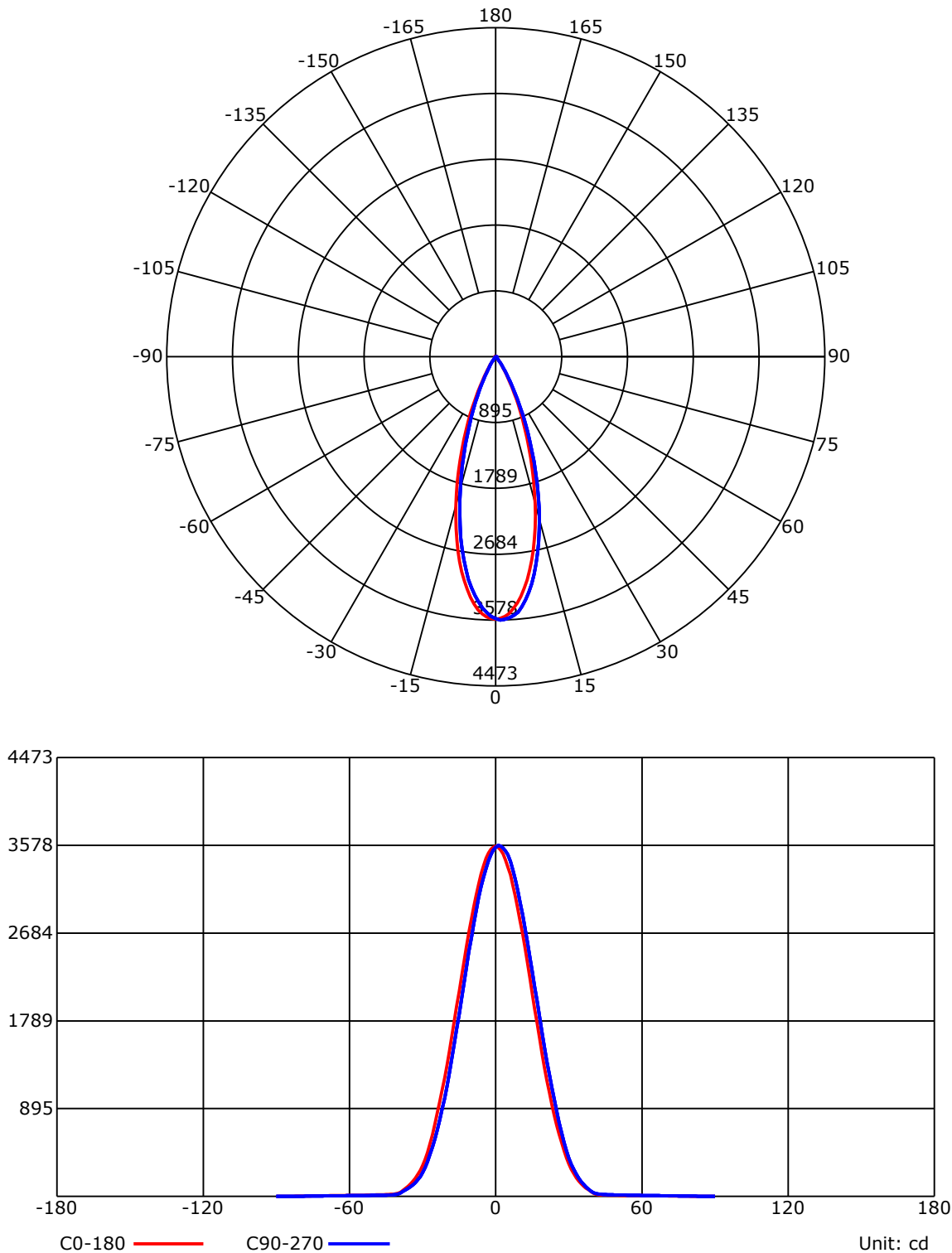
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/15 11:30:30

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



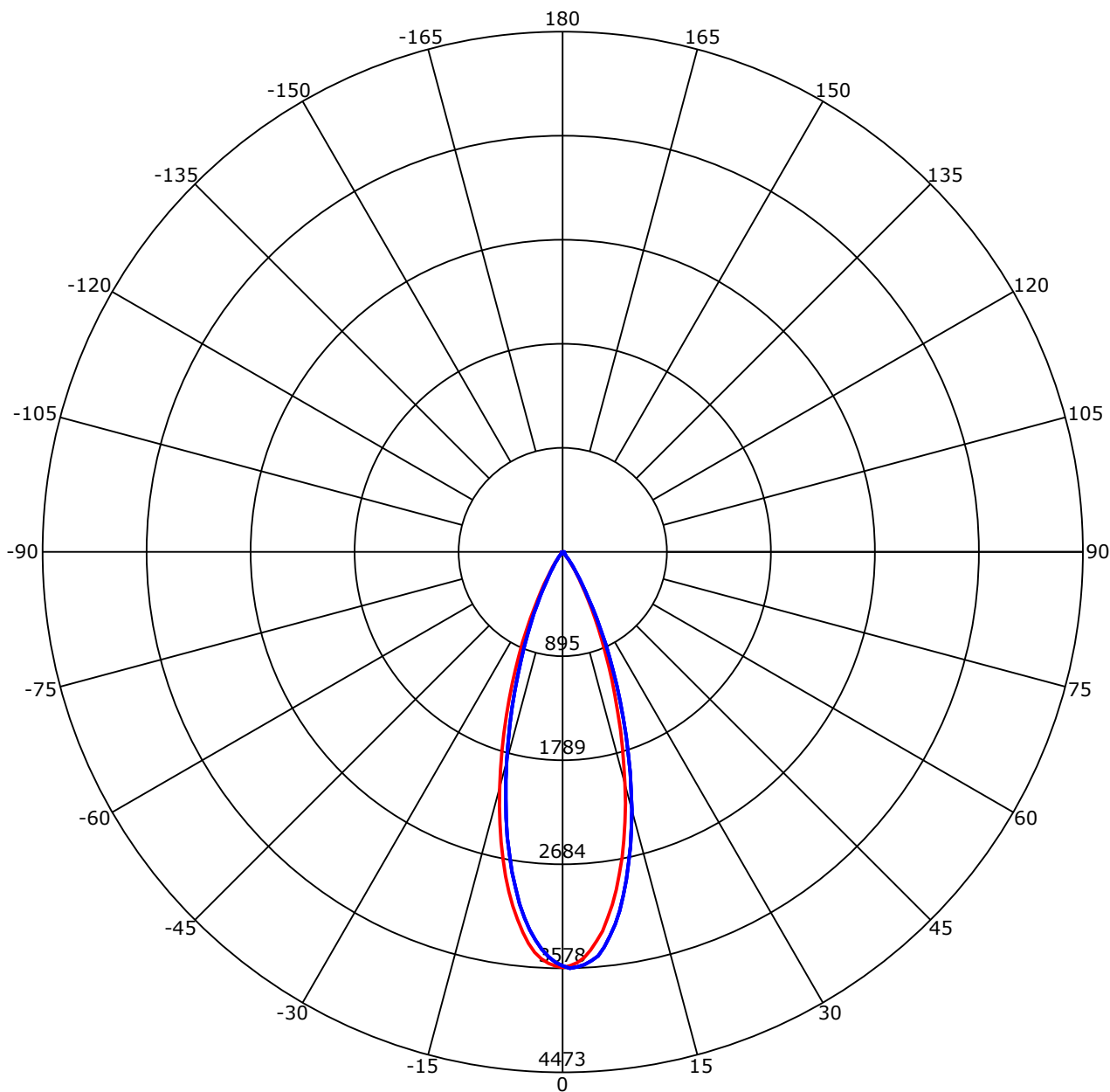
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

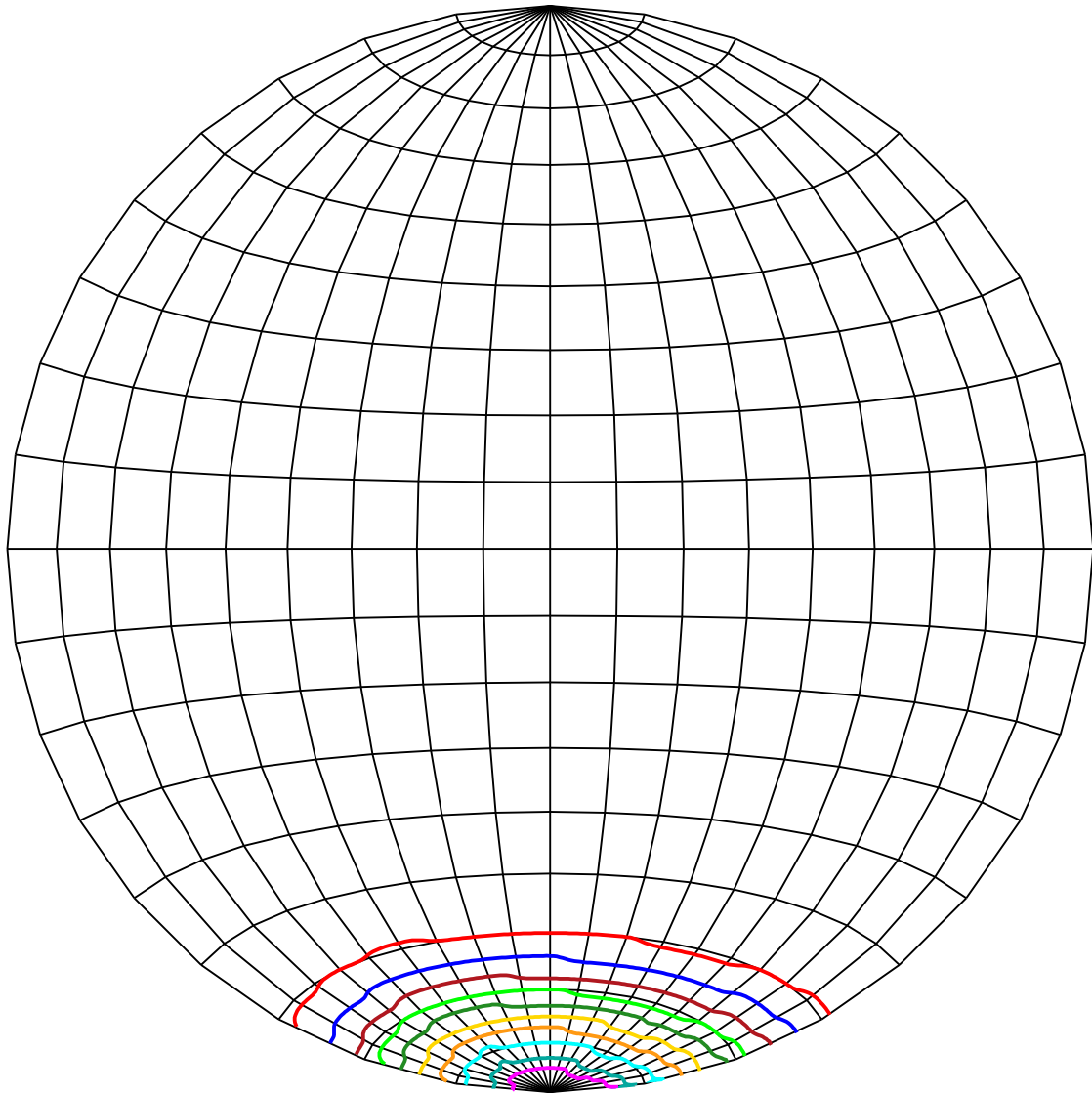
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 3578.333 cd

3399.417(95%I _{max})	1789.167(50%I _{max})
3220.5(90%I _{max})	1431.333(40%I _{max})
2862.667(80%I _{max})	1073.5(30%I _{max})
2504.833(70%I _{max})	715.667(20%I _{max})
2147.0(60%I _{max})	357.833(10%I _{max})

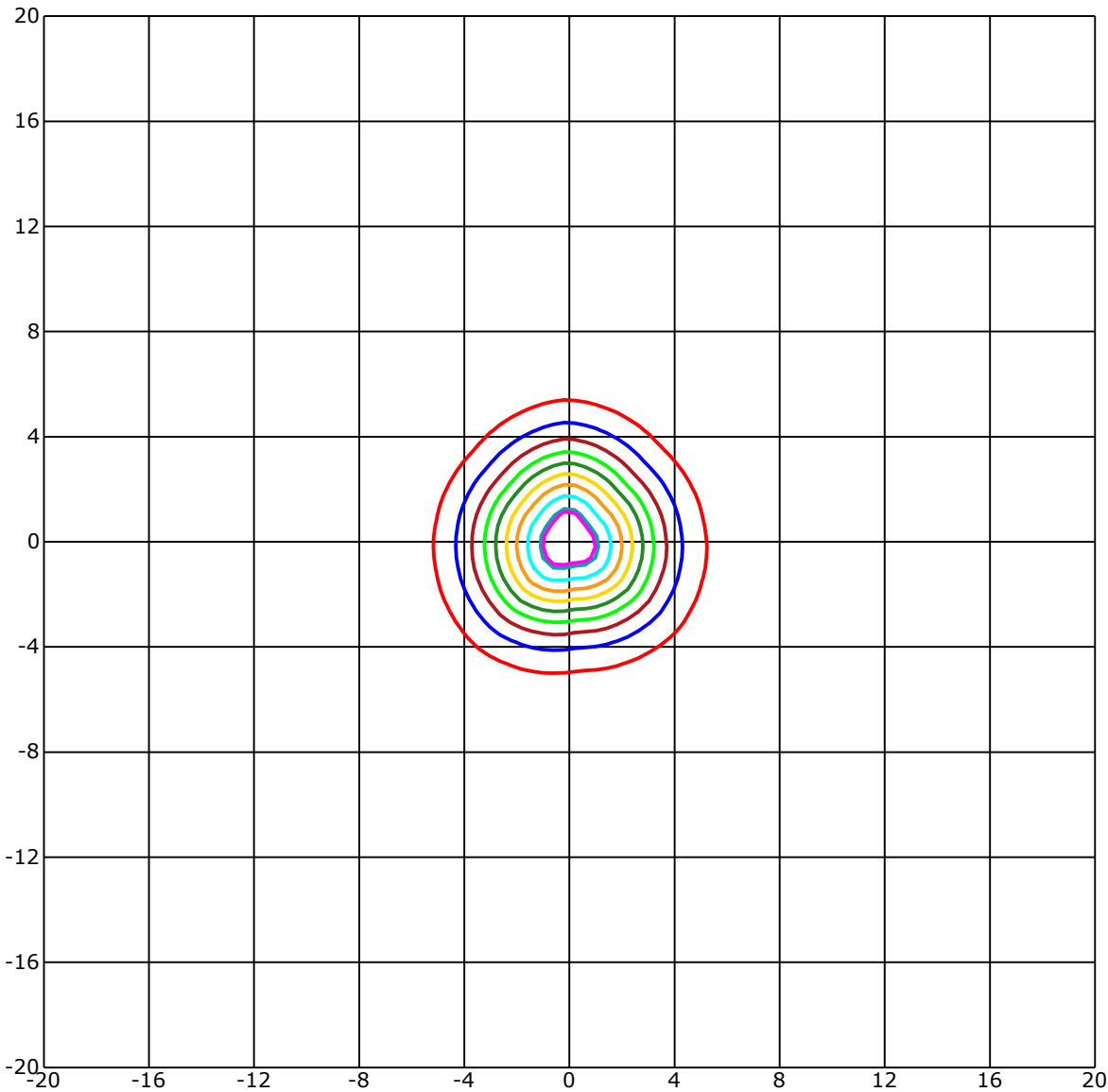
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ISOLX DIAGRAM



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

- | | |
|-----------------|-----------------|
| 32.906(92%Emax) | 17.883(50%Emax) |
| 32.19(90%Emax) | 14.307(40%Emax) |
| 28.614(80%Emax) | 10.73(30%Emax) |
| 25.037(70%Emax) | 7.153(20%Emax) |
| 21.46(60%Emax) | 3.577(10%Emax) |

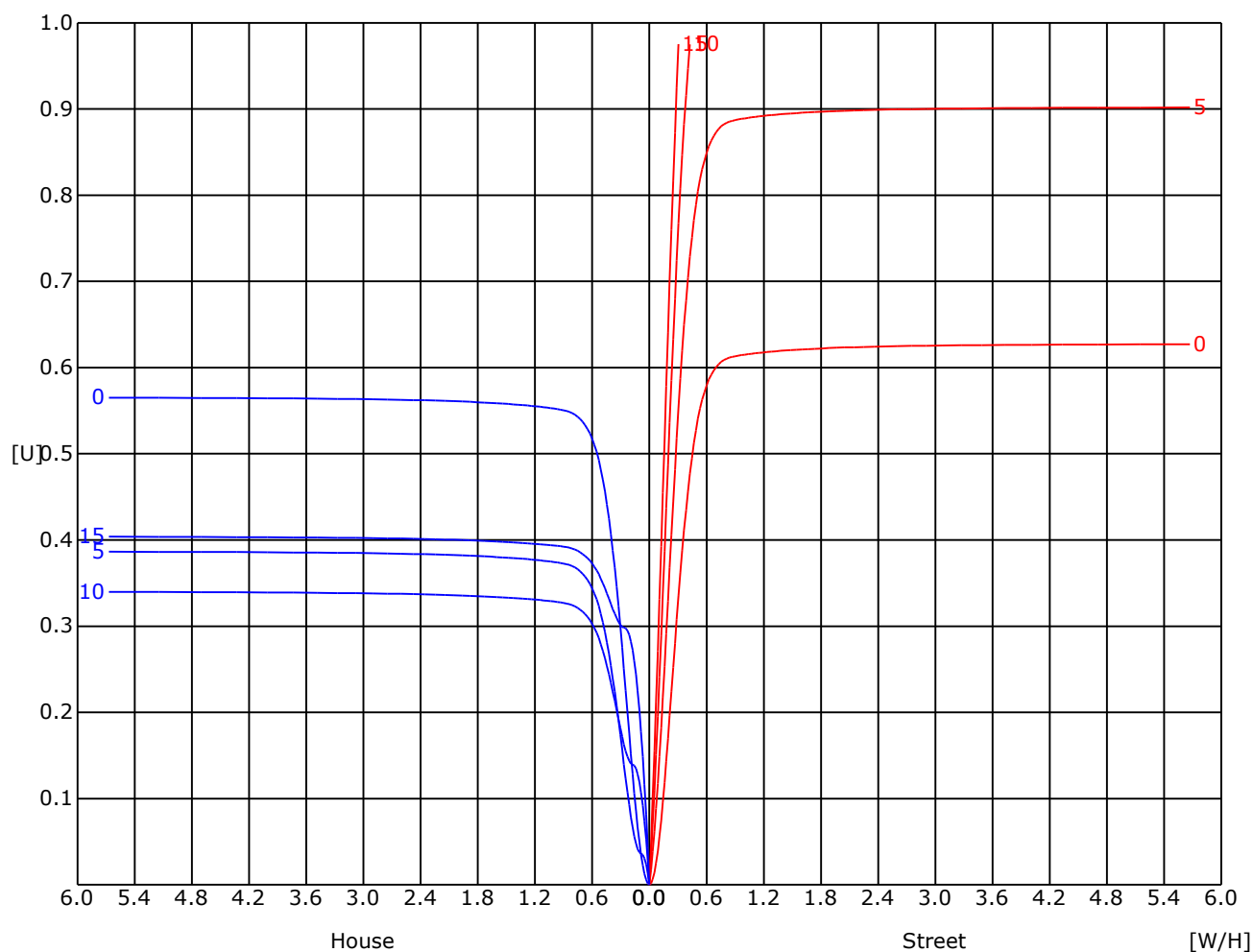
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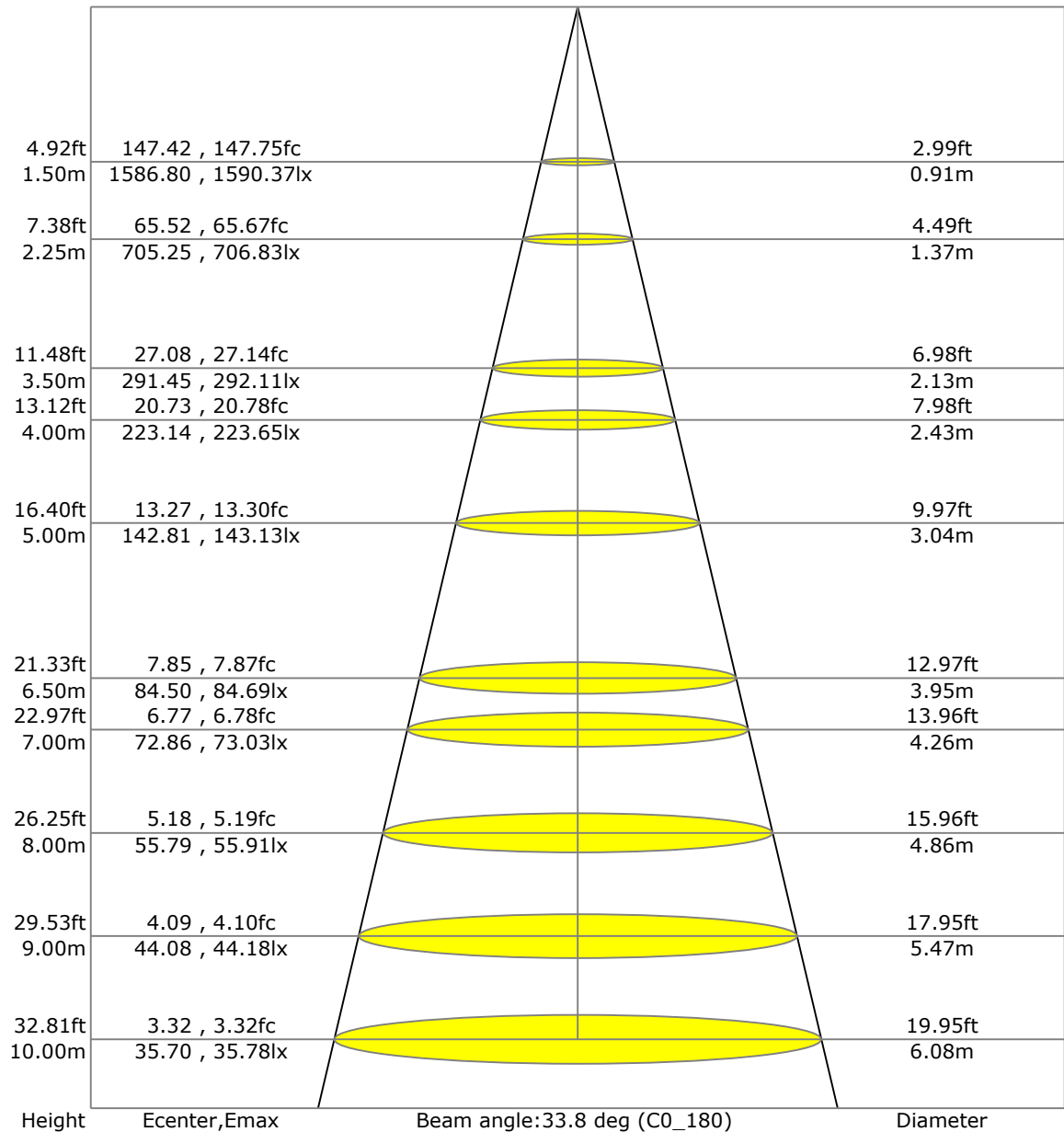
UTILIZATION FACTOR DIAGRAM (ROAD)



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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	6.21	6.26	6.41	6.45	6.69	6.36	6.41	6.56	6.60	6.84
	3H	6.23	6.29	6.44	6.48	6.73	6.37	6.43	6.58	6.62	6.86
	4H	6.23	6.29	6.44	6.48	6.73	6.37	6.42	6.58	6.62	6.86
	6H	6.22	6.28	6.44	6.48	6.73	6.35	6.41	6.57	6.61	6.86
	8H	6.21	6.27	6.43	6.47	6.72	6.35	6.40	6.56	6.60	6.86
	12H	6.20	6.26	6.43	6.46	6.72	6.34	6.39	6.56	6.60	6.85
4H	2H	6.77	6.83	6.98	7.02	7.27	7.14	7.19	7.35	7.39	7.64
	3H	6.85	6.90	7.07	7.11	7.36	7.20	7.26	7.42	7.46	7.72
	4H	6.86	6.91	7.08	7.12	7.38	7.20	7.26	7.43	7.47	7.73
	6H	6.85	6.90	7.08	7.12	7.39	7.19	7.24	7.43	7.46	7.73
	8H	6.84	6.89	7.08	7.12	7.38	7.18	7.23	7.42	7.46	7.72
	12H	6.82	6.88	7.07	7.11	7.38	7.17	7.22	7.41	7.45	7.72
8H	4H	6.90	6.96	7.12	7.16	7.41	7.38	7.44	7.60	7.64	7.89
	6H	7.00	7.05	7.25	7.29	7.56	7.48	7.53	7.74	7.77	8.05
	8H	6.98	7.03	7.25	7.28	7.56	7.47	7.52	7.73	7.76	8.04
	12H	6.97	7.02	7.24	7.27	7.55	7.45	7.50	7.72	7.76	8.04
12H	4H	7.00	7.06	7.25	7.29	7.56	7.56	7.61	7.81	7.84	8.11
	6H	6.99	7.04	7.25	7.29	7.56	7.55	7.59	7.81	7.84	8.12

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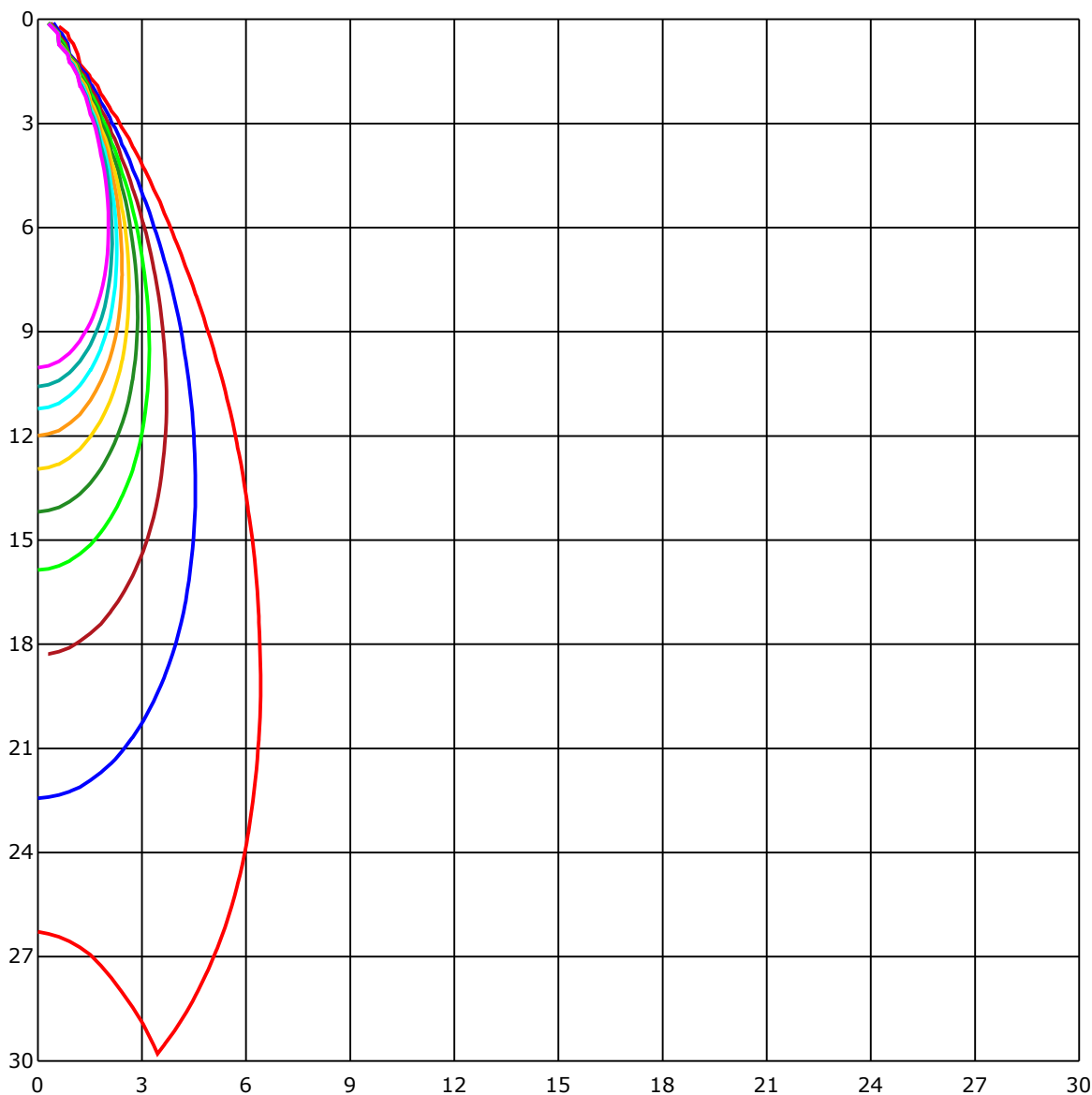
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

35.465	17.732
31.918	14.186
28.372	10.639
24.825	7.093
21.279	3.546

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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	3570.31	3547.31	3556.21	3574.44	3570.31	3547.31	3556.21	3574.44	3570.31	
G1	3556.58	3530.15	3578.33	3565.26	3559.23	3550.97	3529.31	3568.59	3556.58	
G2	3531.17	3488.32	3569.52	3528.8	3537.38	3541.7	3480.62	3553.38	3531.17	
G3	3492.72	3441.85	3552.27	3480.53	3500.51	3519.53	3420.66	3521.43	3492.72	
G4	3429.33	3375.07	3521.76	3422.23	3449.45	3470.79	3342.98	3467.87	3429.33	
G5	3356.52	3294.37	3484.79	3344.27	3376.64	3419.08	3258.06	3399.74	3356.52	
G6	3277.07	3190.82	3413.33	3258.43	3287.51	3345.34	3157.15	3315.94	3277.07	
G7	3167.91	3082.2	3327.49	3142.49	3183.86	3269.61	3047.93	3230.42	3167.91	
G8	3060.68	2958.98	3231.86	3026.92	3074.27	3165.73	2916.27	3121.16	3060.68	
G9	2937.83	2830.57	3123.15	2900.69	2959.49	3059.34	2786.46	3001.18	2937.83	
G10	2807.66	2691.48	2999.75	2772.5	2830.89	2934.03	2640.42	2880.14	2807.66	
G11	2673.58	2549.71	2869.94	2629.66	2691.11	2804.32	2496.61	2738.51	2673.58	
G12	2531.9	2405.06	2728.54	2485.02	2548.09	2656.66	2335.87	2596.78	2531.9	
G13	2381.65	2257.26	2591.82	2331.0	2396.11	2514.19	2177.73	2447.41	2381.65	
G14	2228.93	2100.88	2439.94	2178.38	2247.29	2359.85	2019.73	2301.37	2228.93	
G15	2067.54	1948.77	2294.83	2020.0	2093.7	2210.75	1860.84	2144.76	2067.54	
G16	1908.98	1787.61	2136.41	1863.11	1941.91	2050.38	1706.69	1994.17	1908.98	
G17	1754.69	1631.7	1983.69	1706.41	1788.26	1899.38	1556.85	1843.08	1754.69	
G18	1606.42	1483.25	1826.25	1553.23	1635.73	1741.65	1408.58	1694.95	1606.42	
G19	1453.75	1339.48	1669.35	1401.25	1485.71	1590.19	1262.73	1545.48	1453.75	
G20	1311.79	1207.22	1520.39	1266.39	1343.1	1441.05	1124.39	1395.04	1311.79	
G21	1182.03	1079.91	1377.6	1135.29	1208.84	1302.52	1001.68	1253.31	1182.03	
G22	1056.73	961.14	1239.22	1011.88	1082.98	1170.07	886.39	1125.41	1056.73	
G23	934.66	852.21	1110.38	890.65	964.44	1040.49	776.99	1000.84	934.66	
G24	826.28	746.56	989.85	773.09	853.0	919.5	675.75	884.3	826.28	
G25	726.67	642.91	872.57	657.38	738.72	813.02	586.1	779.21	726.67	
G26	636.14	546.5	755.98	558.04	632.01	710.95	503.23	685.53	636.14	
G27	548.26	463.2	647.13	471.0	532.44	613.88	424.06	597.42	548.26	
G28	464.97	391.46	550.02	396.98	448.04	520.53	351.25	514.96	464.97	
G29	393.36	330.11	464.83	330.57	376.81	439.04	291.84	438.63	393.36	
G30	330.94	275.66	391.46	274.41	317.49	367.11	242.78	369.06	330.94	
G31	275.52	228.22	328.34	226.73	265.78	306.92	201.09	309.51	275.52	
G32	229.47	186.66	274.5	187.08	221.86	257.43	167.23	258.5	229.47	
G33	190.42	152.48	226.78	150.49	184.48	217.09	139.5	214.81	190.42	
G34	158.0	124.01	186.85	121.09	154.71	181.28	116.5	179.8	158.0	
G35	129.85	99.52	152.48	96.09	127.91	151.14	97.3	150.44	129.85	
G36	105.6	77.54	124.2	73.46	103.65	124.98	80.93	125.59	105.6	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	85.47	56.53	98.87	51.99	82.46	104.49	65.48	106.15	85.47	
G38	67.34	36.45	74.94	33.3	62.28	85.7	50.92	89.23	67.34	
G39	49.16	24.07	53.47	21.94	44.43	68.45	37.19	72.21	49.16	
G40	32.93	17.99	37.75	16.79	33.39	52.03	26.11	55.65	32.93	
G41	22.86	14.89	29.45	14.1	27.18	37.89	19.2	41.37	22.86	
G42	17.9	13.22	25.04	12.57	23.56	29.73	16.23	31.72	17.9	
G43	15.26	12.2	22.35	11.59	21.66	25.37	14.47	26.57	15.26	
G44	13.91	11.5	20.5	10.94	20.13	22.77	13.5	23.7	13.91	
G45	12.94	11.18	19.29	10.53	18.97	21.33	12.75	21.89	12.94	
G46	12.38	10.53	18.23	9.88	18.04	19.99	12.24	20.64	12.38	
G47	11.78	10.16	17.16	9.51	17.3	19.15	11.69	19.57	11.78	
G48	11.32	9.69	16.19	9.04	16.42	18.09	11.27	18.78	11.32	
G49	10.94	9.46	15.54	8.72	15.72	17.48	10.99	18.04	10.94	
G50	10.48	8.9	14.84	8.3	15.03	16.56	10.53	17.21	10.48	
G51	10.02	8.63	14.24	7.93	14.42	16.0	10.25	16.42	10.02	
G52	9.74	8.25	13.54	7.7	13.73	15.35	9.88	15.91	9.74	
G53	9.14	8.02	13.03	7.37	13.45	14.7	9.6	15.07	9.14	
G54	9.04	7.88	12.48	7.1	12.89	14.1	9.32	14.7	9.04	
G55	8.72	7.7	12.15	6.96	12.43	13.77	8.95	14.14	8.72	
G56	8.49	7.42	11.64	6.68	12.06	13.31	8.77	13.63	8.49	
G57	8.25	7.14	11.32	6.49	11.78	12.89	8.49	13.26	8.25	
G58	8.12	6.91	10.9	6.4	11.22	12.57	8.16	12.89	8.12	
G59	7.93	6.77	10.43	6.12	10.81	12.15	7.98	12.57	7.93	
G60	7.79	6.4	10.02	5.94	10.62	11.69	7.88	12.06	7.79	
G61	7.47	6.31	9.69	5.66	10.25	11.36	7.65	11.59	7.47	
G62	7.23	5.98	9.55	5.61	10.02	11.08	7.42	11.32	7.23	
G63	7.14	5.8	9.18	5.29	9.65	10.81	7.1	11.04	7.14	
G64	6.77	5.47	8.72	5.15	9.23	10.43	6.86	10.71	6.77	
G65	6.49	5.24	8.53	4.82	8.81	10.25	6.68	10.53	6.49	
G66	6.17	5.1	8.02	4.59	8.39	9.65	6.31	10.11	6.17	
G67	5.89	4.68	7.61	4.22	8.12	9.37	6.08	9.55	5.89	
G68	5.7	4.36	7.47	3.9	7.74	8.95	5.7	9.04	5.7	
G69	5.19	4.03	6.96	3.71	7.23	8.67	5.29	8.67	5.19	
G70	5.01	3.8	6.59	3.43	6.91	8.02	5.05	8.35	5.01	
G71	4.59	3.43	6.26	3.2	6.49	7.7	4.73	7.88	4.59	
G72	4.27	3.11	5.89	2.88	6.03	7.28	4.45	7.56	4.27	
G73	3.94	2.74	5.43	2.55	5.61	6.86	4.03	7.05	3.94	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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