

Report No.:

Test Time: 2024/5/18 15:38:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H94-38°-14.7W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.69 W
Power Factor: 0.9500
Lamp Luminous Flux: 1516.62

Photometric Results

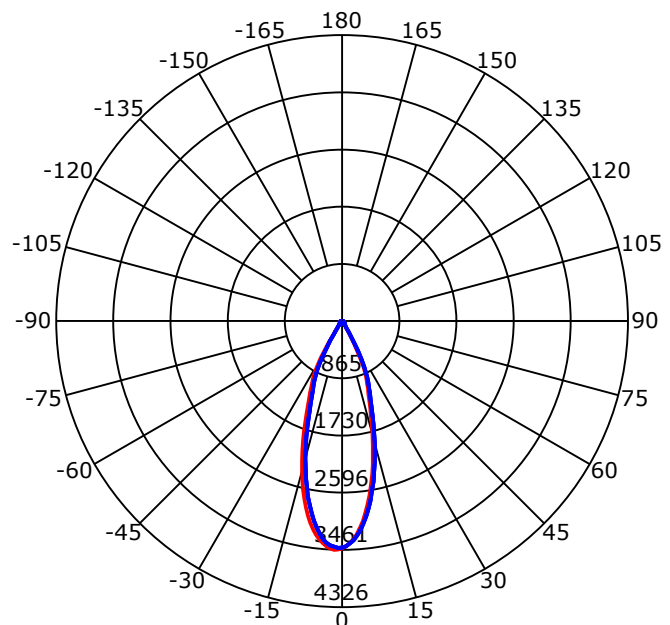
CIE Class: Direct
Luminaire Luminous Flux: 1516.621 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.24 lm/W
Beam Angle(50%) C0-180,C90-270: 34.6,34.3
Field Angle(10%) C0-180,C90-270: 60.7,60.4
S/MH C0-180,C90-270: 0.573,0.573

Max. Intensity: 3460.79 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3439.79 cd
Effective Luminous Flux: 1339.58 lm
ERP(ϕ use)(120deg): 1488.10 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 34.6 deg,34.3 deg

C0-180 — C90-270 —

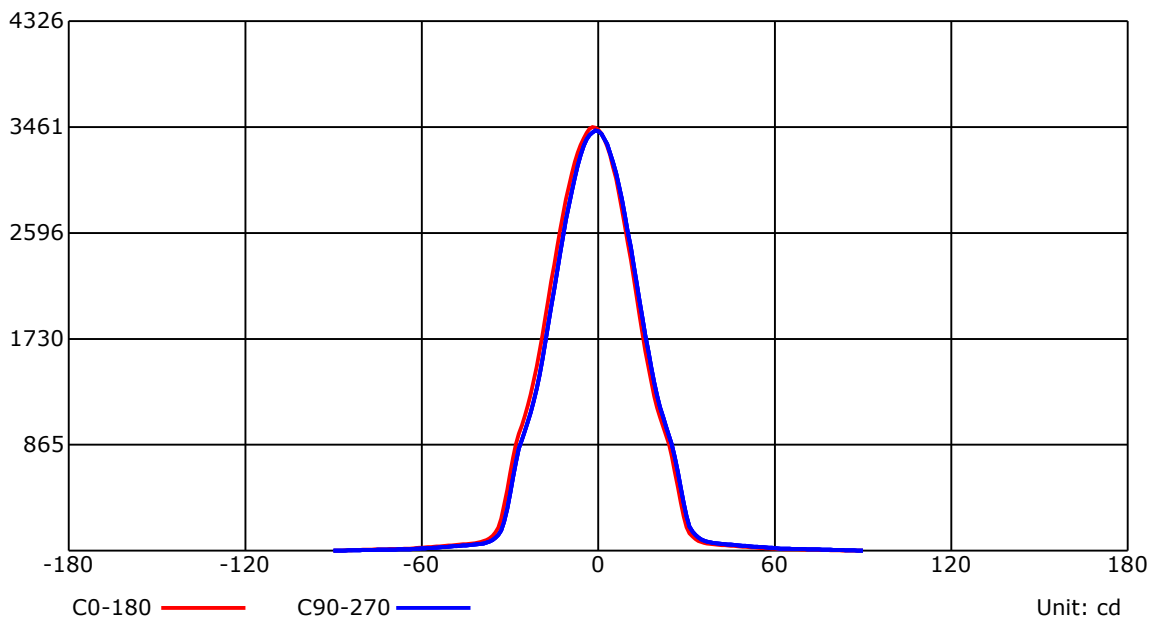
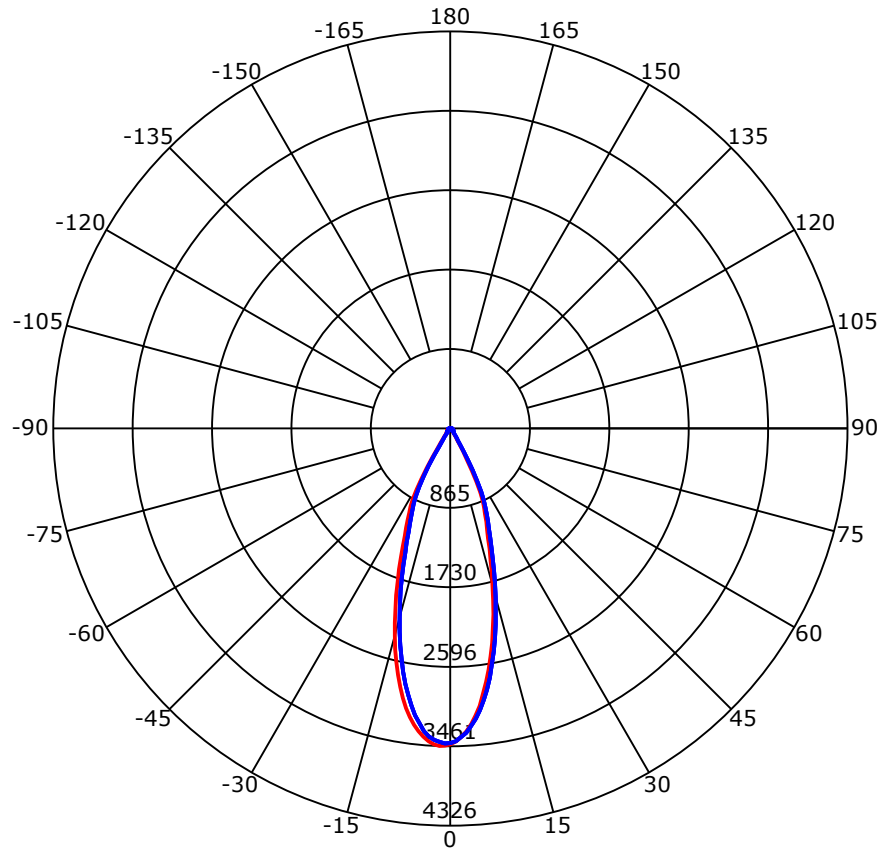
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/18 15:38:12

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



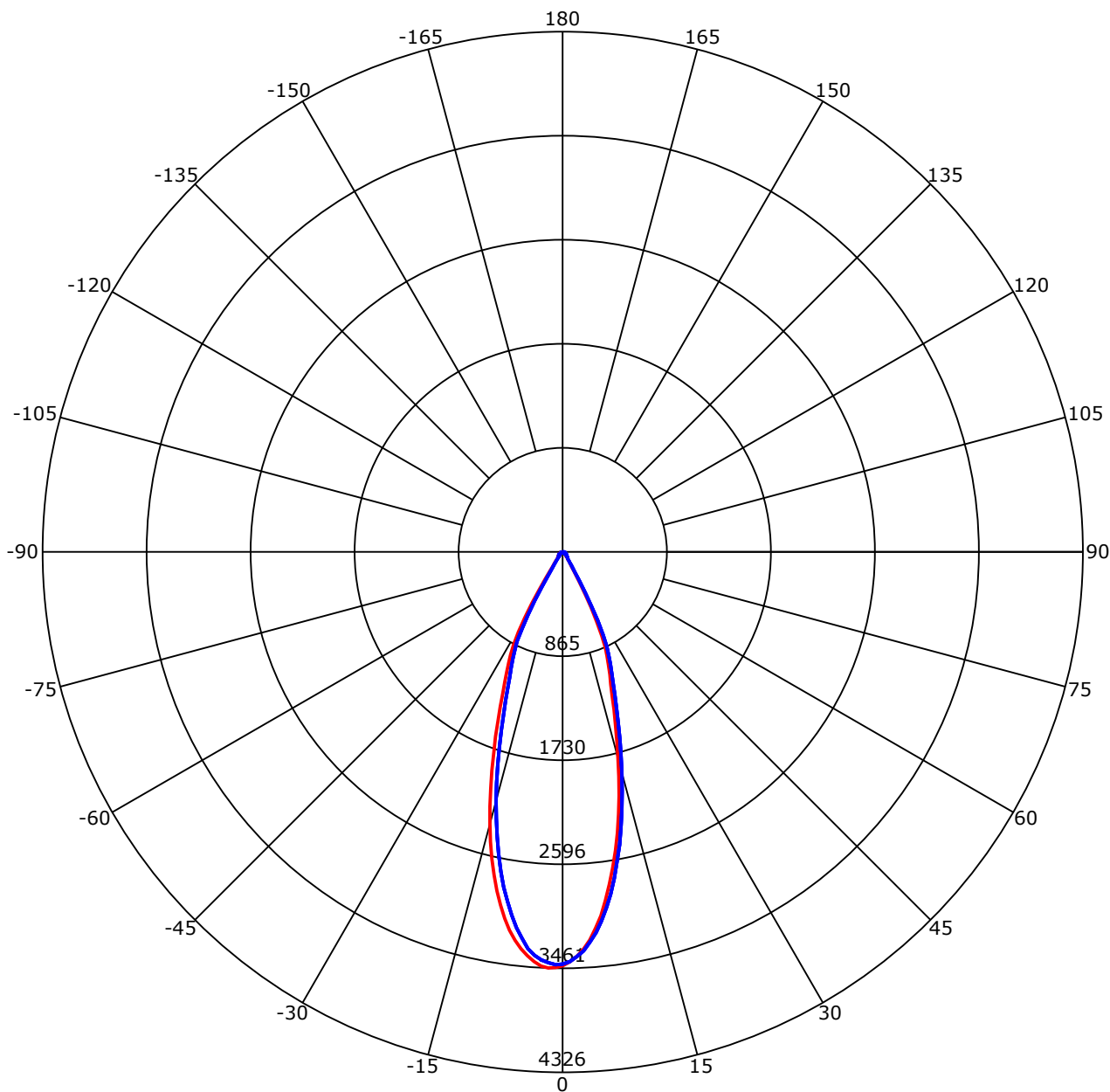
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

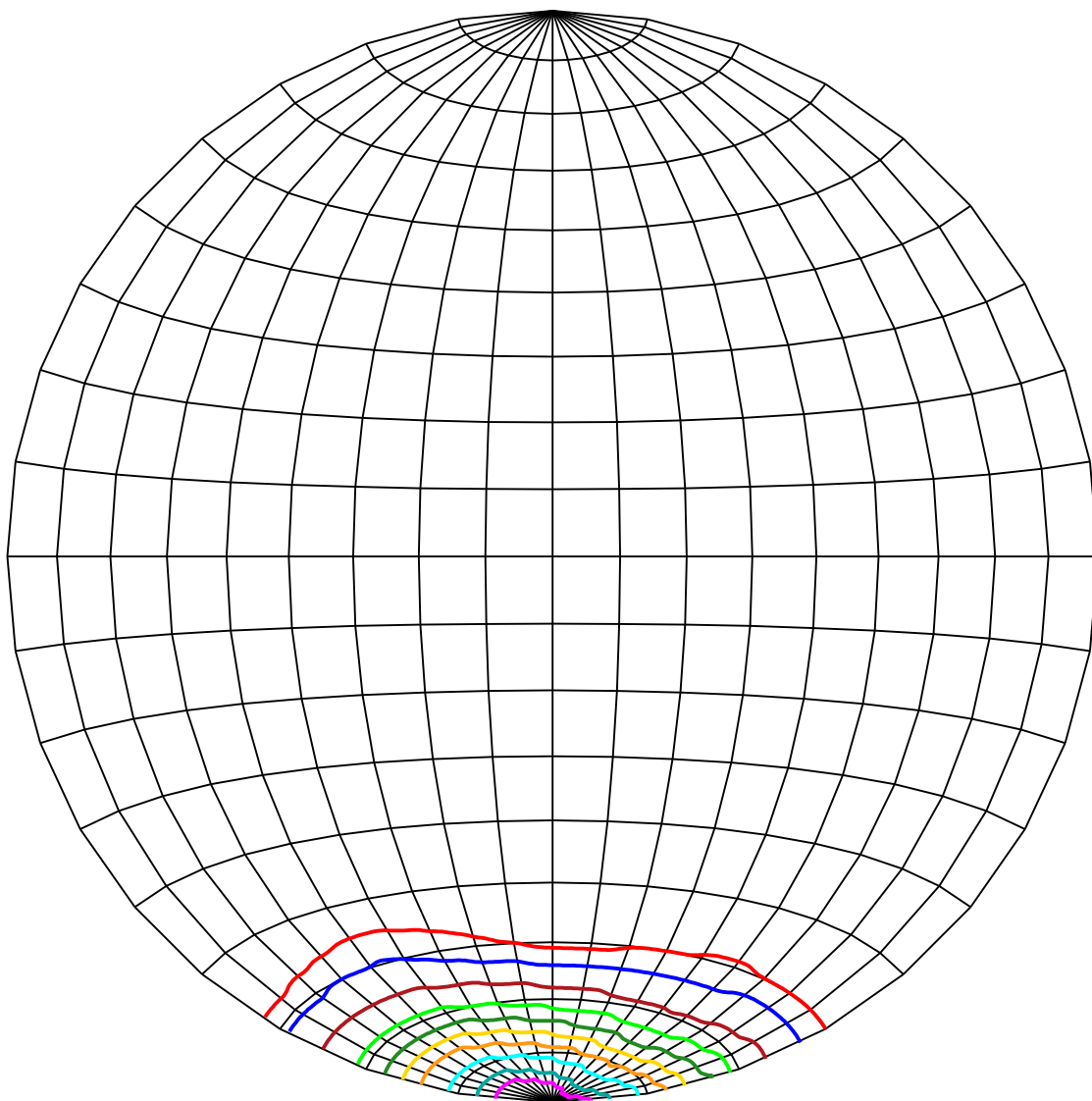
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 3460.794 cd

3287.754(95%I _{max})	1730.397(50%I _{max})
3114.714(90%I _{max})	1384.318(40%I _{max})
2768.635(80%I _{max})	1038.238(30%I _{max})
2422.556(70%I _{max})	692.159(20%I _{max})
2076.477(60%I _{max})	346.079(10%I _{max})

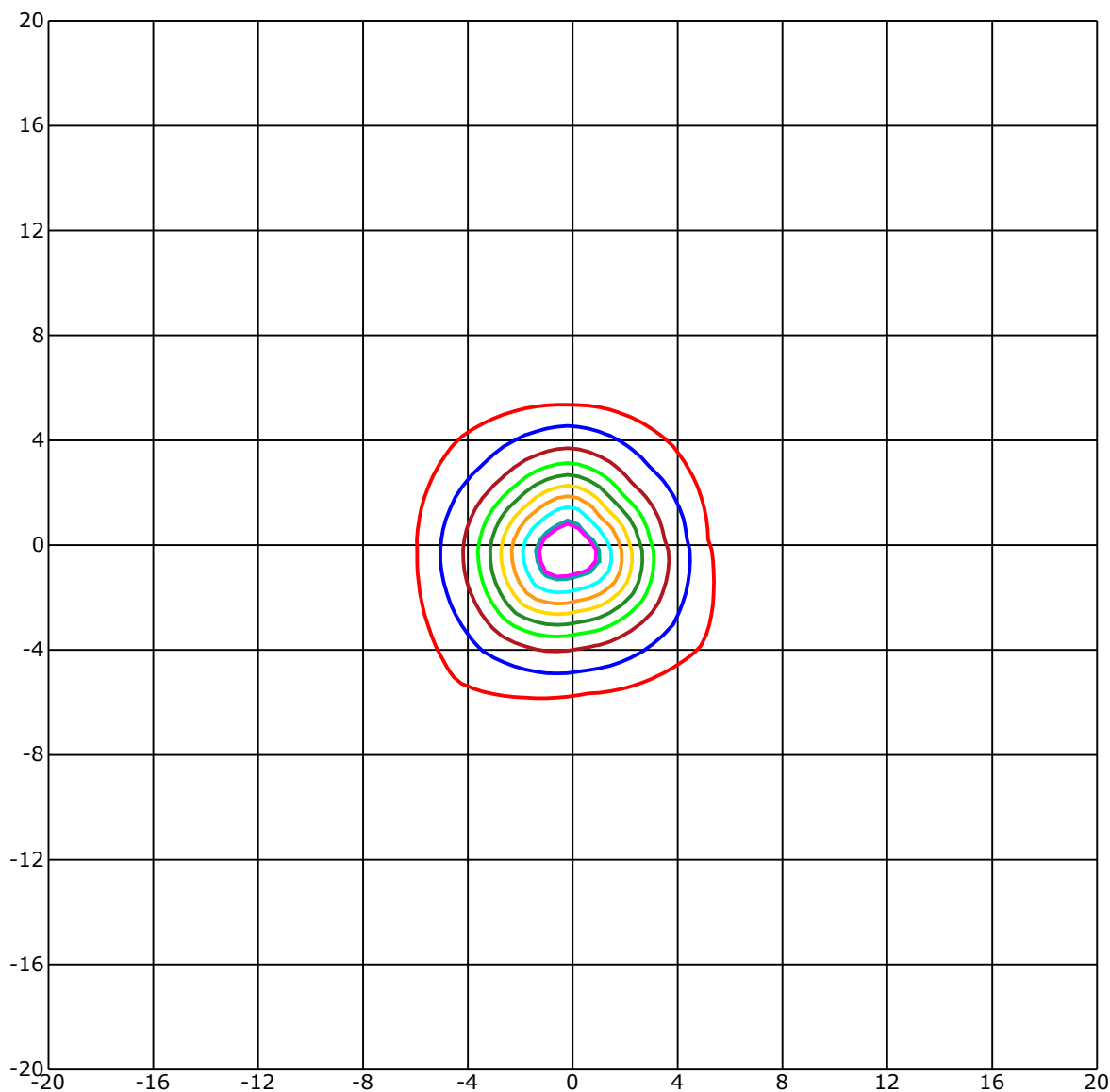
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ISOLX DIAGRAM



31.781(92%Emax)
31.09(90%Emax)
27.636(80%Emax)
24.181(70%Emax)
20.727(60%Emax)

17.272(50%Emax)
13.818(40%Emax)
10.363(30%Emax)
6.909(20%Emax)
3.454(10%Emax)

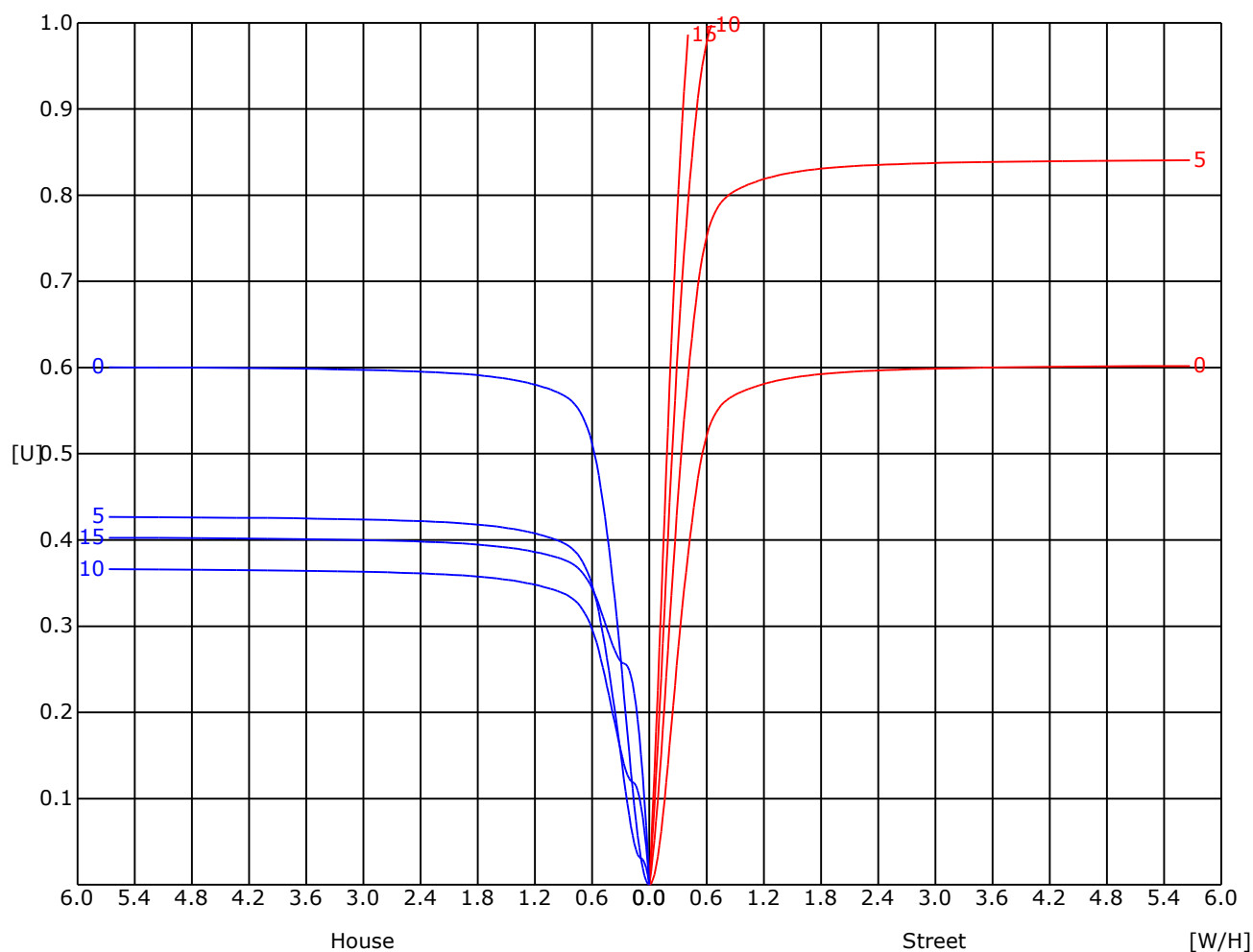
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UTILIZATION FACTOR DIAGRAM (ROAD)



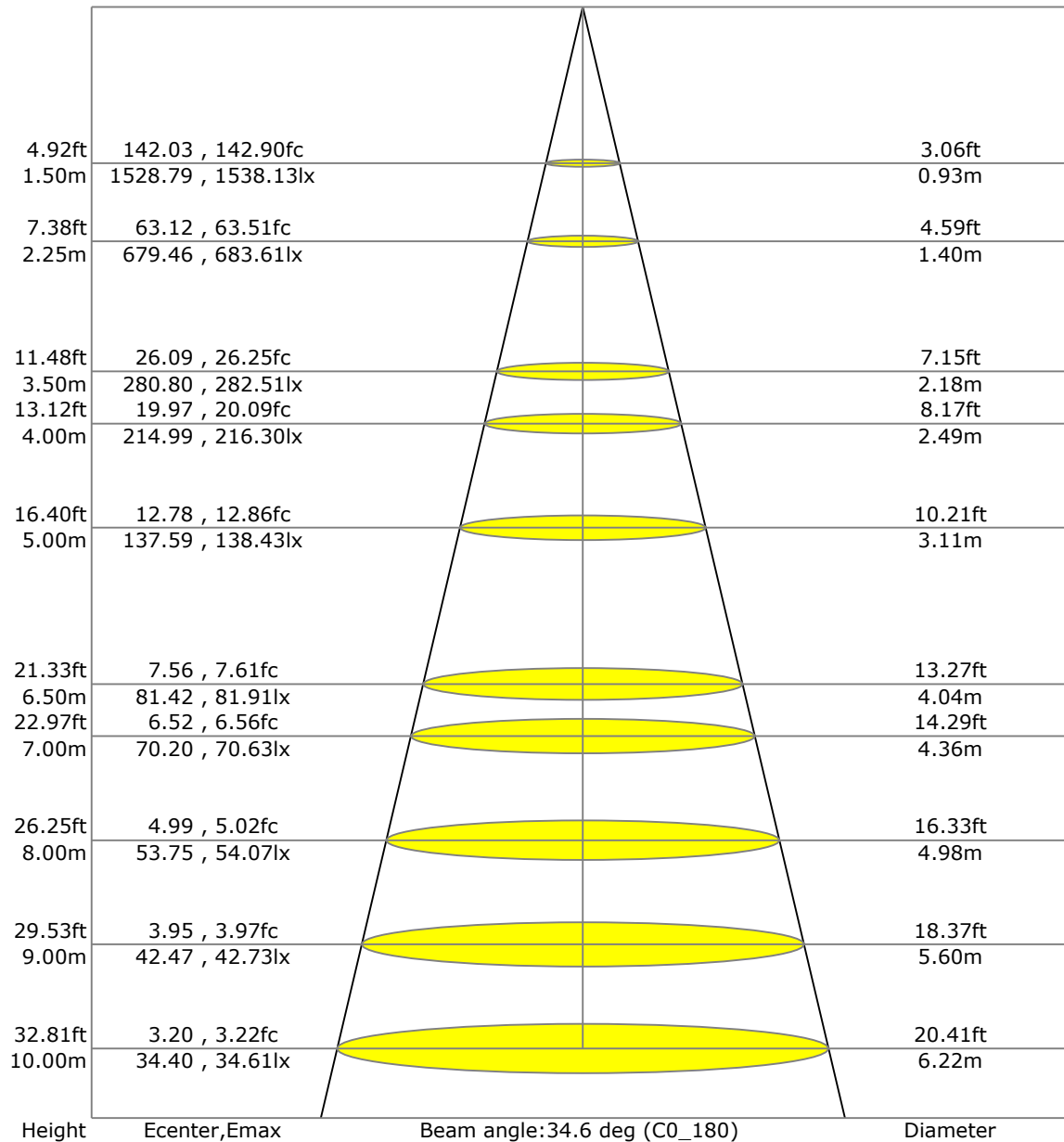
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/18 15:38:12

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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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	8.20	8.25	8.40	8.44	8.68	8.53	8.58	8.73	8.77	9.01
	3H	8.27	8.32	8.47	8.51	8.76	8.57	8.62	8.77	8.81	9.06
	4H	8.27	8.33	8.48	8.52	8.77	8.57	8.62	8.78	8.82	9.07
	6H	8.26	8.32	8.48	8.52	8.77	8.56	8.61	8.77	8.81	9.06
	8H	8.26	8.31	8.47	8.51	8.77	8.55	8.60	8.77	8.80	9.06
	12H	8.25	8.30	8.47	8.51	8.76	8.54	8.59	8.76	8.80	9.05
4H	2H	9.15	9.20	9.36	9.40	9.65	9.74	9.79	9.95	9.99	10.23
	3H	9.33	9.38	9.55	9.59	9.85	9.89	9.95	10.11	10.15	10.41
	4H	9.38	9.43	9.60	9.64	9.90	9.92	9.97	10.15	10.19	10.45
	6H	9.39	9.44	9.62	9.66	9.92	9.92	9.97	10.15	10.19	10.45
	8H	9.38	9.43	9.62	9.66	9.92	9.91	9.96	10.15	10.18	10.45
	12H	9.37	9.42	9.62	9.65	9.92	9.89	9.94	10.14	10.17	10.44
8H	4H	9.38	9.44	9.60	9.64	9.90	10.24	10.29	10.46	10.50	10.75
	6H	9.71	9.76	9.97	10.00	10.27	10.57	10.61	10.82	10.85	11.13
	8H	9.71	9.76	9.97	10.00	10.28	10.55	10.60	10.82	10.85	11.12
	12H	9.70	9.74	9.97	10.00	10.28	10.54	10.58	10.81	10.84	11.12
12H	4H	9.69	9.74	9.94	9.97	10.24	10.73	10.78	10.97	11.01	11.28
	6H	9.71	9.76	9.97	10.00	10.28	10.75	10.79	11.01	11.04	11.32

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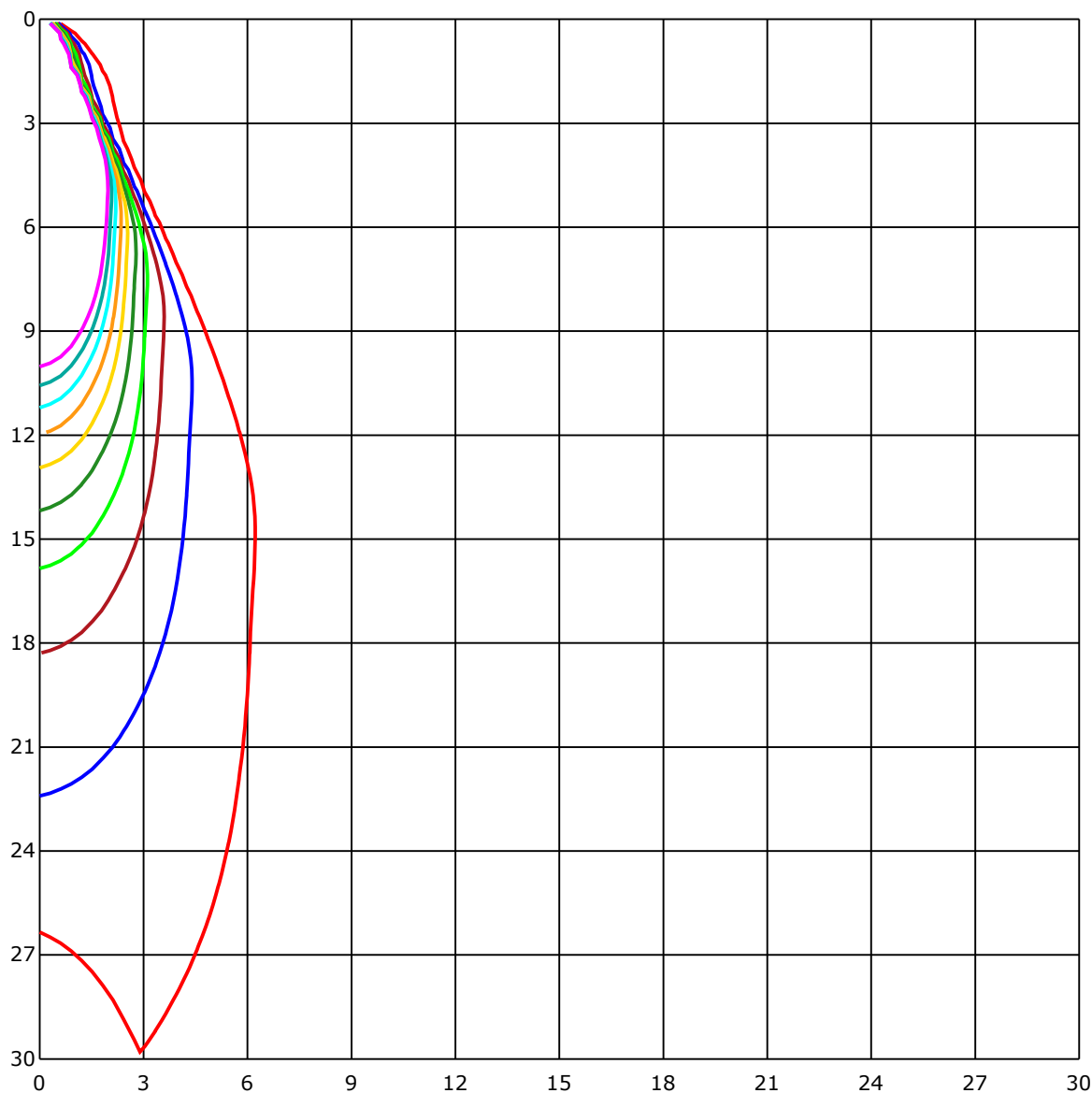
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

34.248

30.823

27.398

23.974

20.549

17.124

13.699

10.274

6.85

3.425

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:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3439.79	3362.44	3425.78	3428.16	3439.79	3362.44	3425.78	3428.16	3439.79	
G1	3408.72	3301.48	3406.03	3406.16	3455.32	3406.88	3431.39	3429.69	3408.72	
G2	3362.76	3229.61	3364.28	3370.57	3460.79	3437.05	3416.53	3429.33	3362.76	
G3	3304.8	3149.12	3321.41	3321.32	3447.24	3450.2	3395.79	3405.63	3304.8	
G4	3232.8	3043.63	3250.08	3261.48	3413.53	3444.63	3361.09	3367.6	3232.8	
G5	3137.95	2937.24	3175.43	3185.13	3369.4	3428.97	3309.34	3311.72	3137.95	
G6	3040.8	2812.04	3084.3	3101.36	3315.08	3392.79	3230.28	3243.39	3040.8	
G7	2916.73	2679.35	2979.44	3005.48	3252.15	3361.36	3148.0	3165.06	2916.73	
G8	2789.33	2548.05	2873.05	2891.95	3175.88	3283.75	3047.94	3064.1	2789.33	
G9	2658.83	2408.26	2744.8	2765.09	3083.63	3214.17	2940.21	2953.58	2658.83	
G10	2520.71	2256.76	2607.17	2638.9	2981.1	3122.91	2826.81	2830.27	2520.71	
G11	2378.0	2111.4	2478.96	2505.04	2868.61	3027.83	2702.47	2706.19	2378.0	
G12	2228.16	1963.8	2332.35	2375.71	2745.34	2918.66	2564.21	2577.72	2228.16	
G13	2078.18	1810.86	2190.99	2222.55	2617.85	2809.49	2427.2	2435.91	2078.18	
G14	1922.86	1672.92	2044.69	2078.09	2482.78	2676.88	2284.23	2299.54	1922.86	
G15	1775.76	1537.8	1903.7	1932.65	2339.04	2553.84	2141.39	2147.49	1775.76	
G16	1633.5	1411.12	1760.95	1791.43	2199.97	2413.65	1990.96	2003.53	1633.5	
G17	1500.09	1300.06	1626.99	1651.73	2051.02	2273.14	1849.29	1852.34	1500.09	
G18	1378.93	1198.52	1494.21	1521.64	1908.72	2126.57	1705.87	1711.88	1378.93	
G19	1262.62	1111.75	1374.8	1397.61	1762.92	1978.21	1565.58	1580.31	1262.62	
G20	1168.04	1037.14	1265.31	1288.66	1631.53	1834.83	1435.36	1451.97	1168.04	
G21	1090.56	968.91	1171.36	1187.52	1504.04	1690.15	1324.03	1337.72	1090.56	
G22	1013.98	909.47	1090.78	1105.15	1384.5	1555.53	1216.79	1240.45	1013.98	
G23	942.33	855.47	1012.14	1031.93	1275.77	1431.99	1128.67	1152.15	942.33	
G24	870.55	801.02	940.94	956.52	1184.69	1320.39	1052.67	1073.14	870.55	
G25	768.74	738.75	866.42	898.79	1100.66	1219.35	979.45	1006.84	768.74	
G26	645.88	669.67	766.41	842.14	1024.7	1132.93	909.2	944.08	645.88	
G27	518.52	593.76	641.57	791.1	955.12	1058.15	834.91	887.57	518.52	
G28	393.82	518.21	514.04	736.91	870.46	992.25	722.06	838.68	393.82	
G29	280.97	442.48	391.4	668.86	758.82	926.57	598.34	777.18	280.97	
G30	191.46	369.22	279.84	596.68	634.12	871.09	467.39	707.47	191.46	
G31	141.67	300.22	197.7	520.72	497.7	821.58	342.56	632.99	141.67	
G32	114.96	237.24	155.23	448.63	372.59	763.67	236.66	555.15	114.96	
G33	94.04	181.04	128.3	375.28	260.99	698.58	164.43	475.88	94.04	
G34	80.44	136.24	107.2	306.37	188.22	627.88	129.69	402.26	80.44	
G35	71.2	104.19	92.07	243.3	148.68	553.67	105.9	328.37	71.2	
G36	63.97	84.57	81.25	187.91	120.71	474.94	87.22	260.18	63.97	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	58.85	73.62	73.13	140.1	100.96	403.79	74.43	201.11	58.85	
G38	55.71	63.34	67.51	103.07	87.76	332.68	65.31	151.37	55.71	
G39	53.06	55.08	63.74	81.16	77.93	265.61	59.39	116.76	53.06	
G40	50.77	49.87	60.69	69.76	70.57	205.87	55.3	97.37	50.77	
G41	48.62	47.67	58.31	59.79	65.63	154.38	52.43	83.72	48.62	
G42	46.42	45.47	55.53	52.12	61.86	117.84	49.87	72.32	46.42	
G43	44.58	43.68	53.46	47.94	58.81	96.06	47.67	64.46	44.58	
G44	42.74	42.15	51.26	45.47	56.25	81.65	45.43	60.29	42.74	
G45	40.81	40.89	49.29	43.63	54.0	70.12	43.68	57.28	40.81	
G46	38.96	39.19	47.0	42.29	51.71	62.67	41.75	54.77	38.96	
G47	36.94	37.66	44.98	40.85	49.6	58.22	40.27	52.3	36.94	
G48	35.06	36.0	42.87	39.55	47.81	55.17	38.25	50.28	35.06	
G49	33.08	34.3	40.94	38.11	45.43	52.88	36.5	48.17	33.08	
G50	31.24	32.46	38.92	36.63	43.54	50.82	34.7	45.79	31.24	
G51	29.27	30.61	36.99	35.01	41.52	48.97	32.81	43.95	29.27	
G52	27.61	28.82	34.92	33.35	39.55	46.78	30.75	41.7	27.61	
G53	25.86	27.43	33.13	31.51	37.48	44.8	28.86	40.09	25.86	
G54	24.42	25.81	31.29	29.85	35.55	43.05	27.07	37.66	24.42	
G55	22.89	24.33	29.72	27.92	33.62	40.76	25.54	35.33	22.89	
G56	21.73	23.12	28.19	26.44	31.83	38.61	23.97	33.49	21.73	
G57	20.29	22.0	26.66	24.91	30.12	36.54	22.58	31.65	20.29	
G58	18.9	20.87	25.0	23.7	28.68	34.7	21.14	30.21	18.9	
G59	17.33	19.62	23.34	22.36	26.89	32.81	19.62	28.42	17.33	
G60	15.98	18.27	21.73	21.28	25.5	30.84	18.14	27.16	15.98	
G61	14.1	17.15	19.89	19.89	23.43	29.36	16.65	25.77	14.1	
G62	12.57	15.71	17.46	18.81	21.73	27.74	15.26	24.29	12.57	
G63	12.25	14.23	16.34	17.42	19.93	26.35	13.38	22.85	12.25	
G64	11.9	12.84	15.71	16.25	17.6	24.87	11.81	21.59	11.9	
G65	11.27	11.81	15.22	14.41	15.89	23.7	11.4	19.89	11.27	
G66	10.86	11.18	14.59	13.11	15.22	22.0	10.91	18.45	10.86	
G67	10.55	10.64	14.01	11.49	14.59	20.34	10.55	16.92	10.55	
G68	10.28	10.15	13.51	11.09	14.1	18.99	10.19	15.8	10.28	
G69	9.7	9.7	12.97	10.46	13.56	17.46	9.74	15.17	9.7	
G70	9.34	9.2	12.57	10.01	13.24	15.76	9.43	14.32	9.34	
G71	8.89	8.66	12.08	9.52	12.52	14.9	8.89	13.65	8.89	
G72	8.35	8.13	11.58	9.25	12.21	14.28	8.57	13.15	8.35	
G73	7.9	7.63	11.13	8.48	11.67	13.6	8.21	12.43	7.9	

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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:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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