

Report No.:

Test Time: 2024/9/24 16:44:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H124-60°-23.7W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

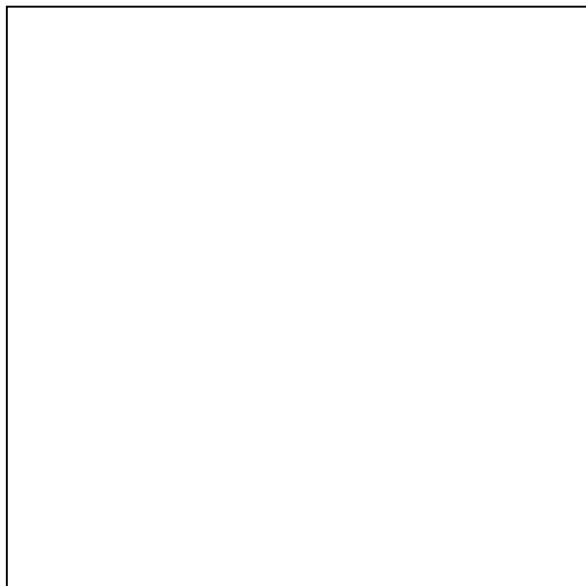
Voltage(V): 219.80 V
Current(A): 0.1120 A
Power(W): 23.74 W
Power Factor: 0.9600
Lamp Luminous Flux: 2144.49

Photometric Results

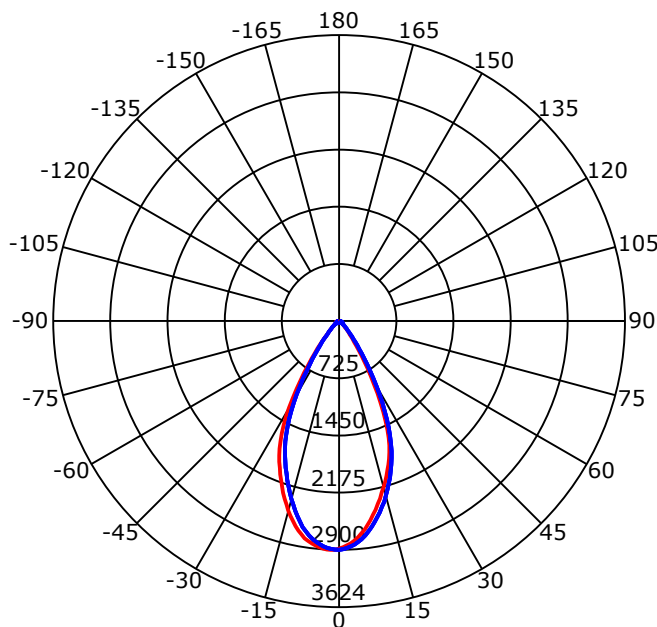
CIE Class: Direct
Luminaire Luminous Flux: 2144.491 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.32 lm/W
Beam Angle(50%) C0-180,C90-270: 52.9,51.8
Field Angle(10%) C0-180,C90-270: 77.5,79.2
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 2899.57 cd
Max.Intensity Angle: C=315 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2884.64 cd
Effective Luminous Flux: 1943.01 lm
ERP(ϕ use)(120deg): 2113.40 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.9 deg,51.8 deg

C0-180 — C90-270 —

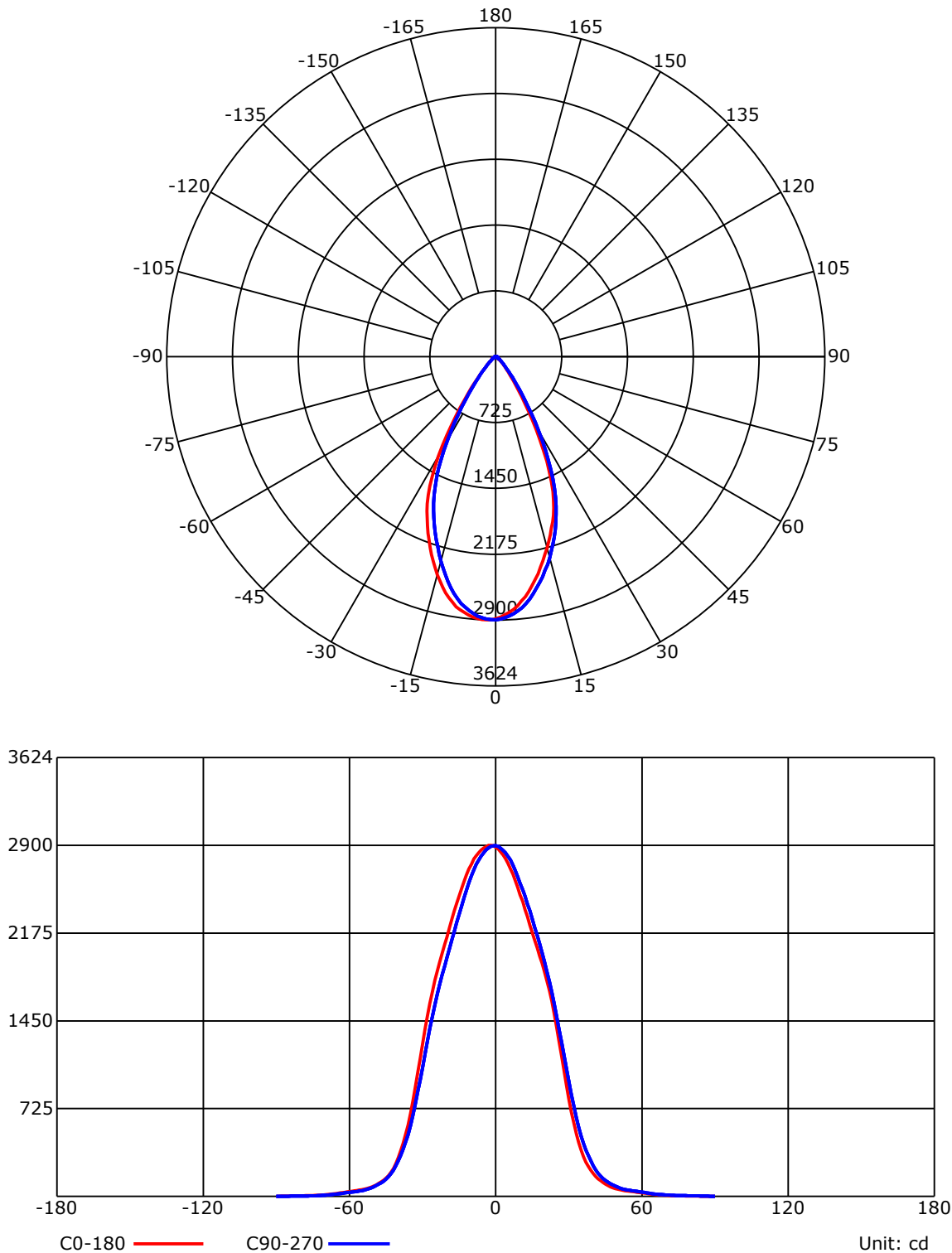
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 16:44:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



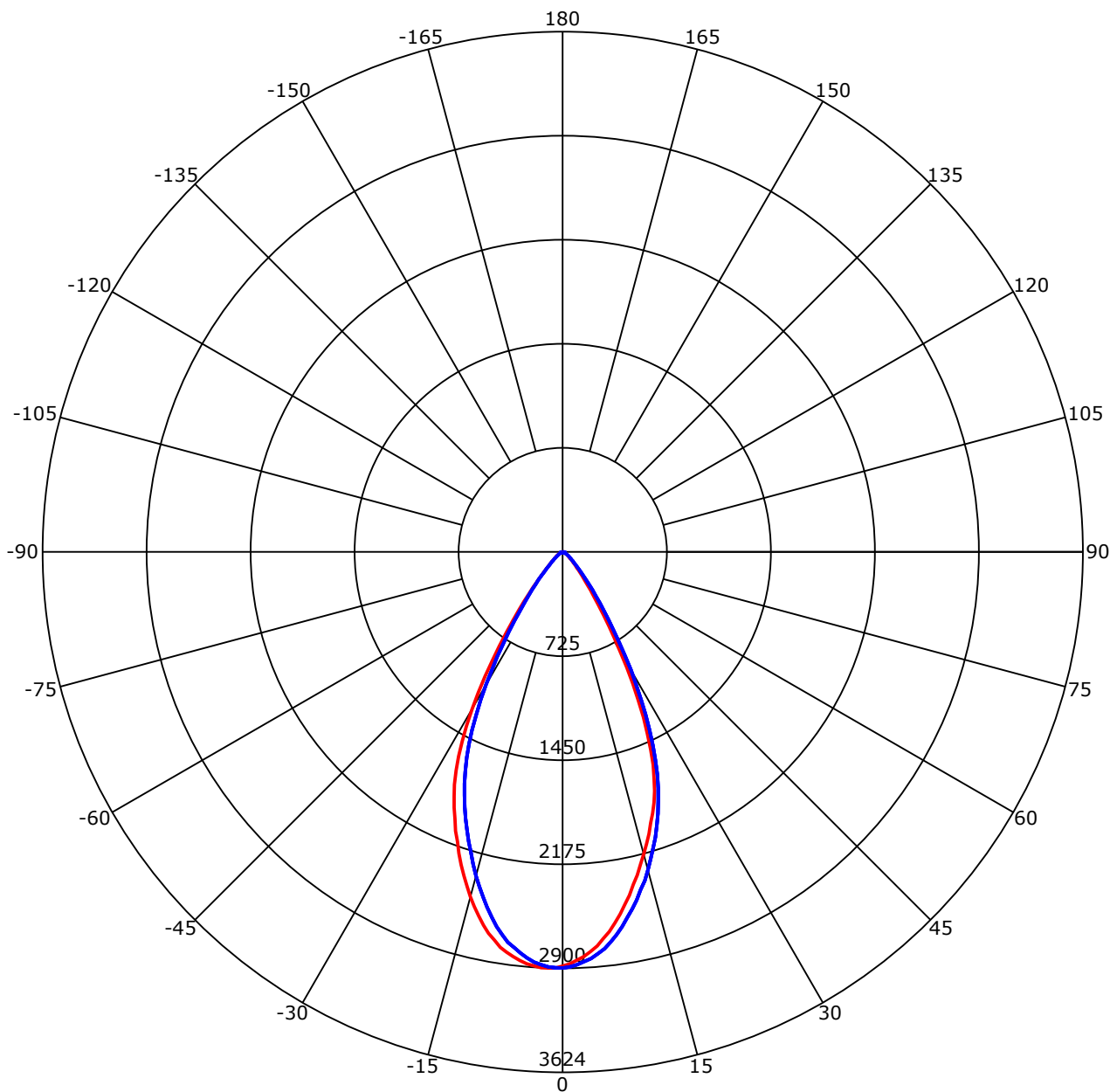
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

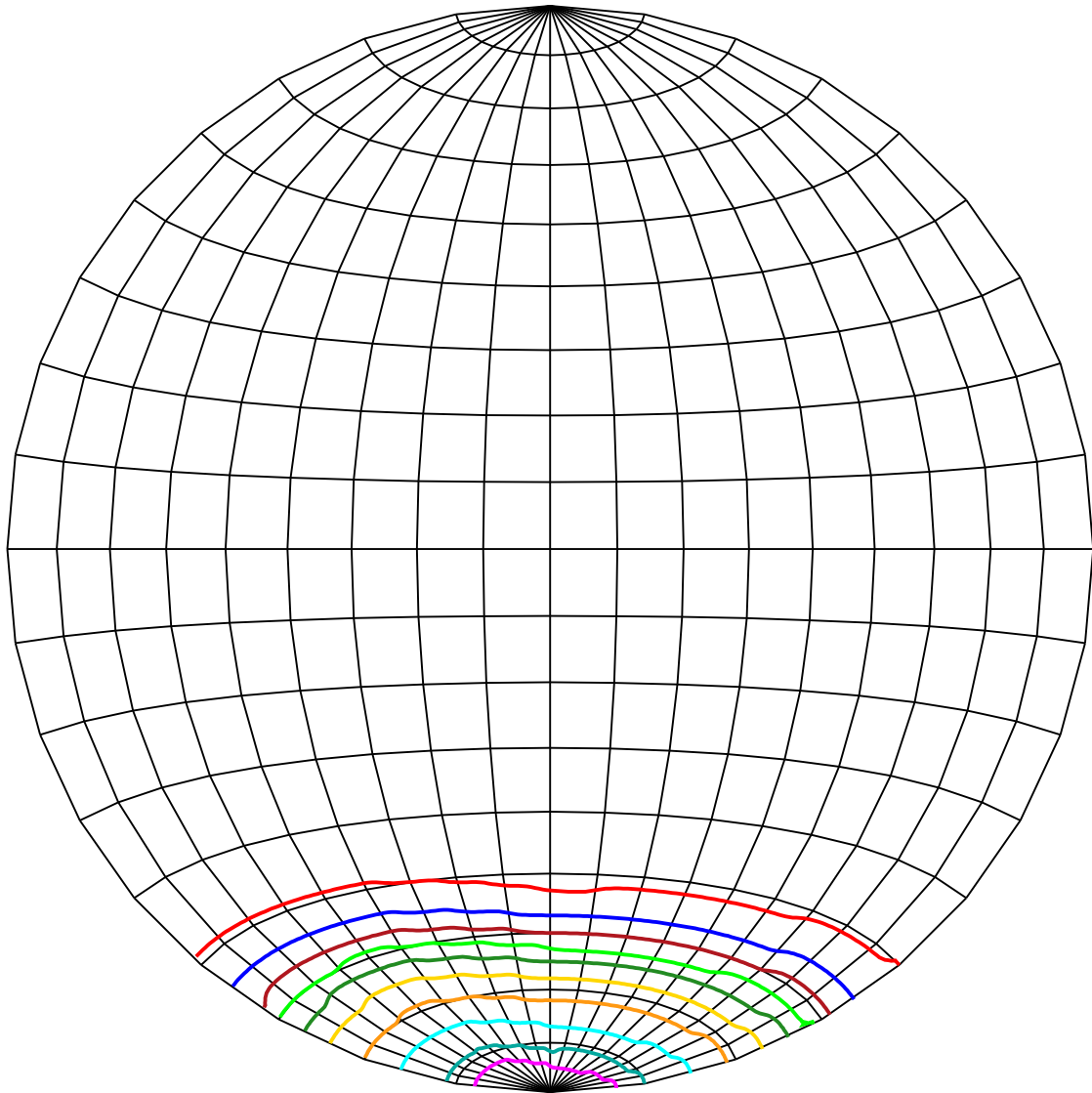
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2899.573 cd

2754.594(95%I _{max})	1449.786(50%I _{max})
2609.615(90%I _{max})	1159.829(40%I _{max})
2319.658(80%I _{max})	869.872(30%I _{max})
2029.701(70%I _{max})	579.915(20%I _{max})
1739.744(60%I _{max})	289.957(10%I _{max})

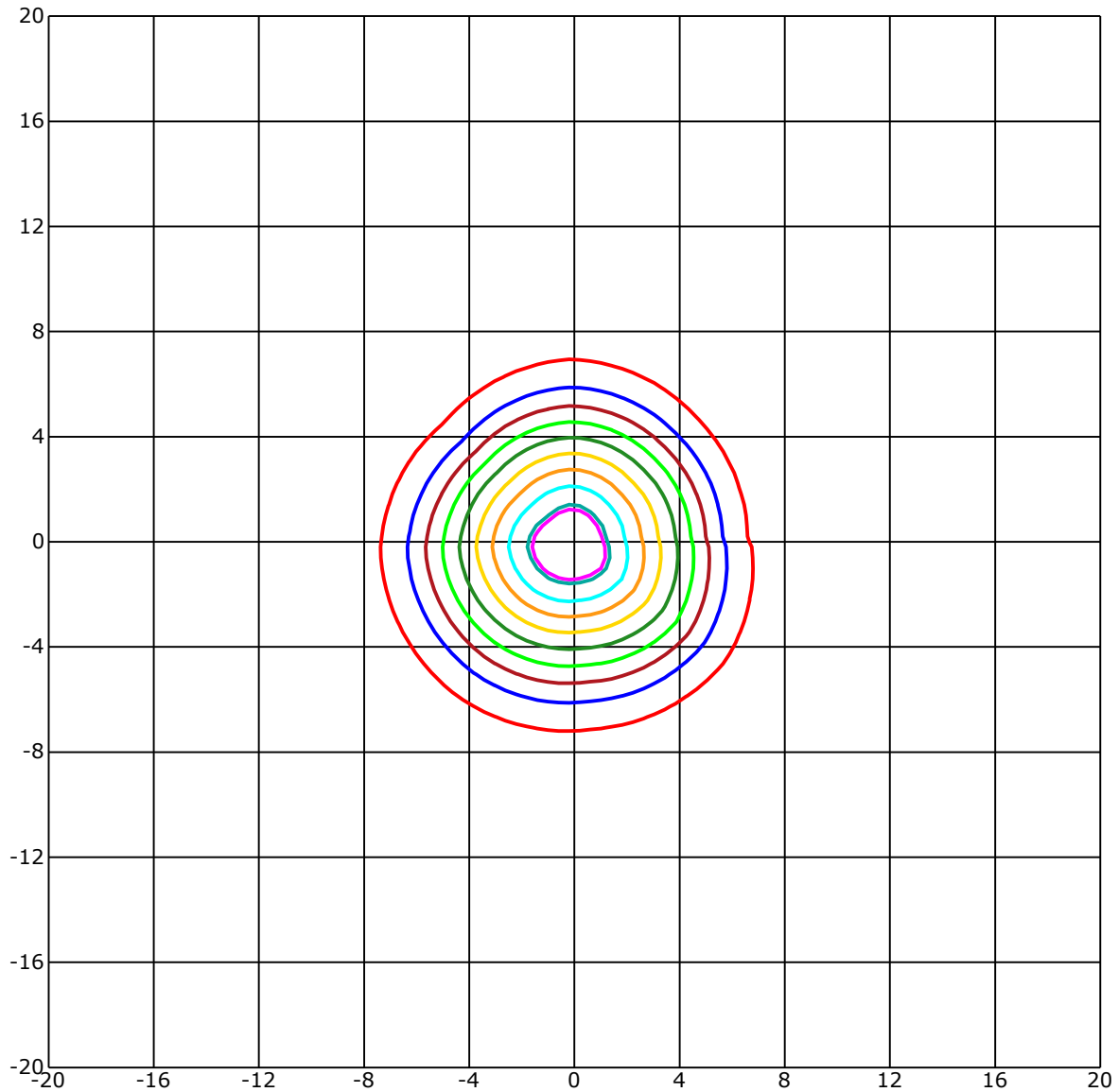
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ISOLX DIAGRAM



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

26.664(92%Emax)	14.491(50%Emax)
26.084(90%Emax)	11.593(40%Emax)
23.186(80%Emax)	8.695(30%Emax)
20.288(70%Emax)	5.796(20%Emax)
17.389(60%Emax)	2.898(10%Emax)

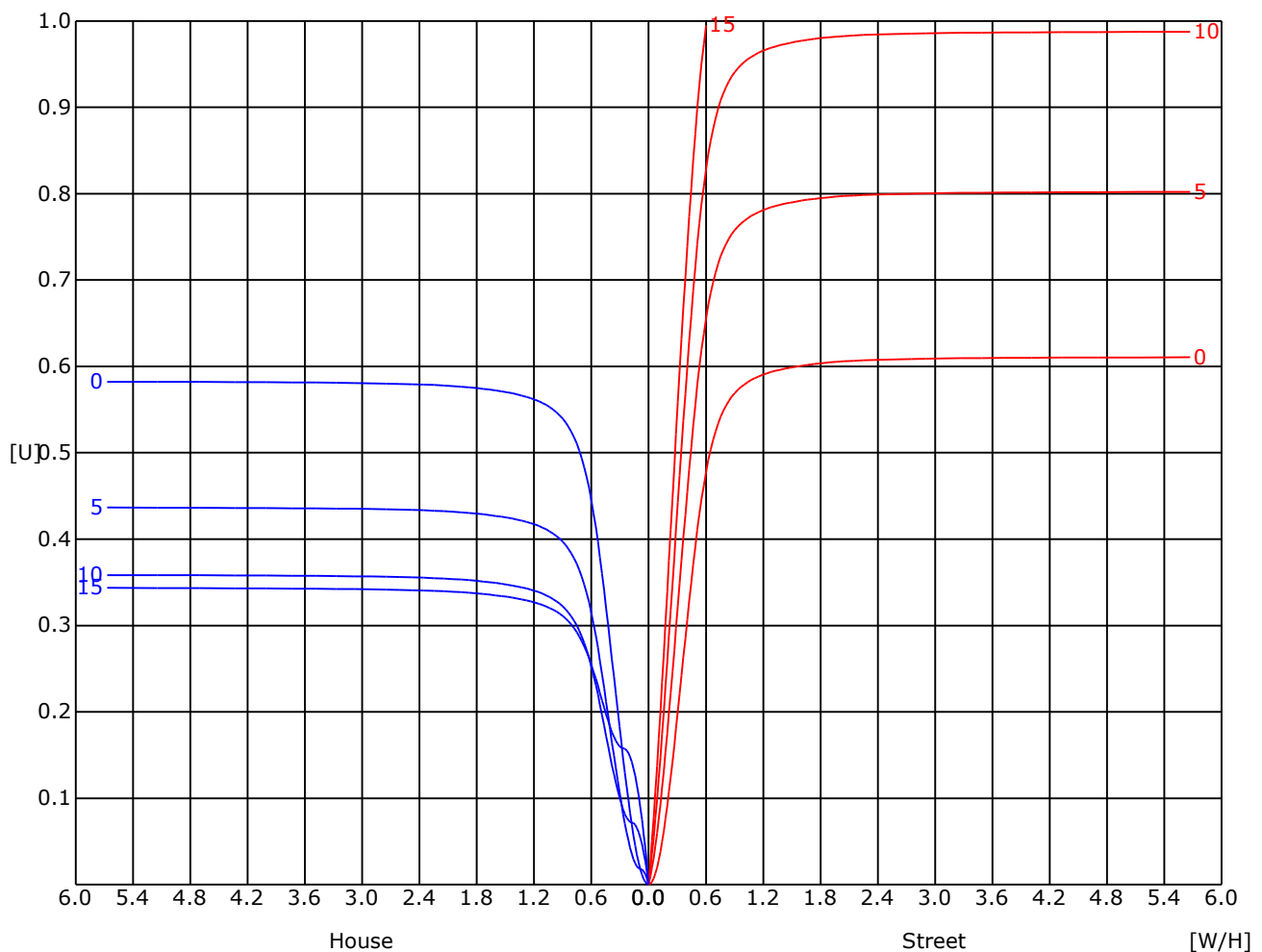
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UTILIZATION FACTOR DIAGRAM (ROAD)



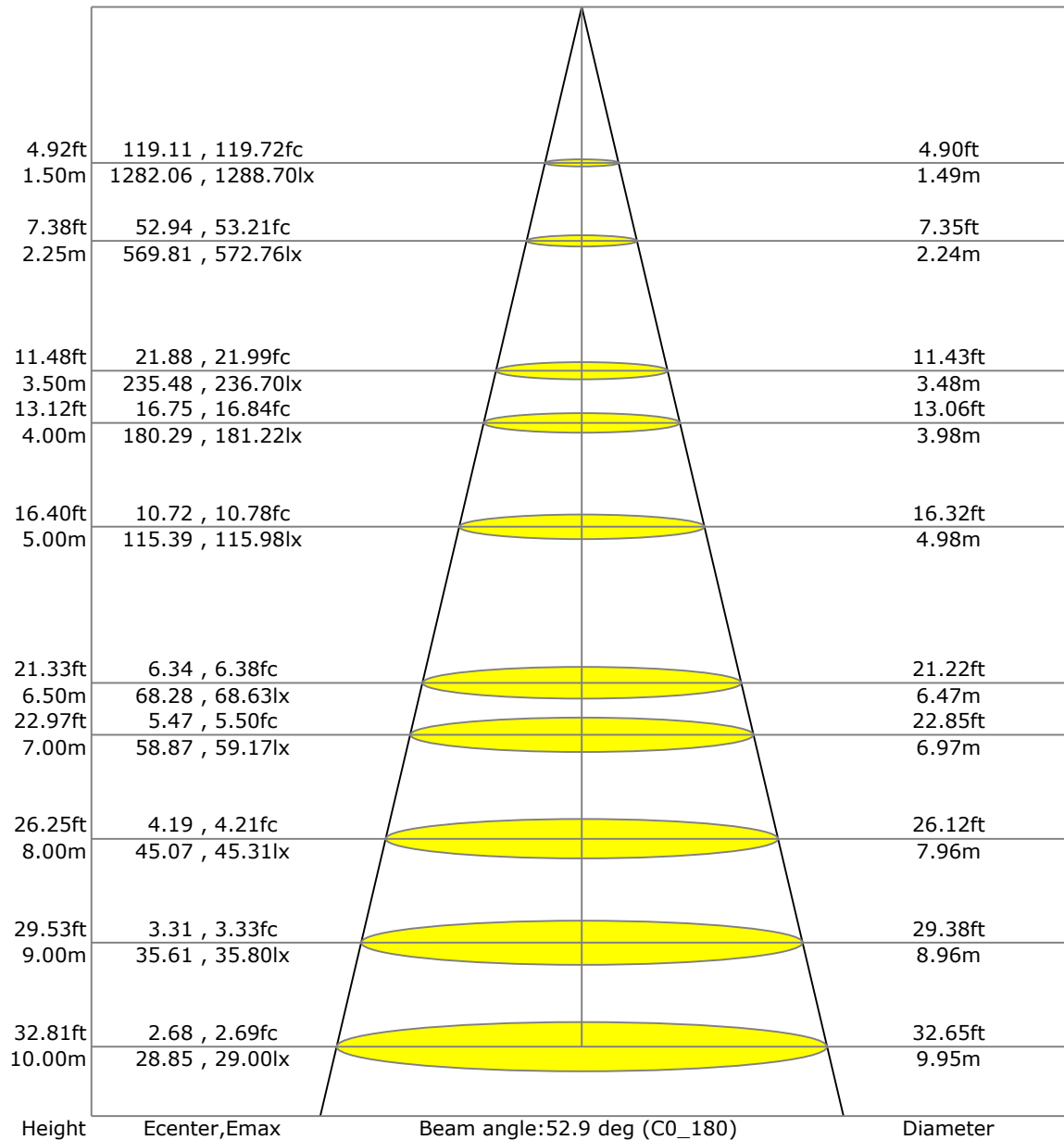
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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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	11.19	11.24	11.39	11.43	11.67	11.34	11.39	11.54	11.58	11.82
3H	11.18	11.23	11.38	11.42	11.67	11.32	11.37	11.53	11.56	11.81
4H	11.16	11.22	11.37	11.41	11.66	11.30	11.36	11.52	11.55	11.80
6H	11.15	11.20	11.36	11.40	11.65	11.29	11.34	11.50	11.54	11.79
8H	11.14	11.19	11.36	11.39	11.65	11.28	11.33	11.50	11.53	11.79
12H	11.13	11.18	11.35	11.39	11.64	11.27	11.32	11.49	11.53	11.78
4H 2H	11.31	11.36	11.52	11.56	11.81	11.51	11.56	11.72	11.76	12.01
3H	11.30	11.35	11.52	11.56	11.81	11.50	11.55	11.72	11.76	12.01
4H	11.28	11.33	11.51	11.55	11.81	11.48	11.53	11.71	11.75	12.00
6H	11.26	11.31	11.50	11.53	11.80	11.46	11.51	11.70	11.73	12.00
8H	11.25	11.30	11.49	11.53	11.79	11.45	11.50	11.69	11.72	11.99
12H	11.24	11.29	11.49	11.52	11.79	11.44	11.48	11.68	11.71	11.98
8H 4H	11.31	11.36	11.53	11.56	11.82	11.55	11.60	11.76	11.80	12.05
6H	11.27	11.32	11.53	11.55	11.83	11.51	11.56	11.77	11.80	12.07
8H	11.26	11.30	11.52	11.55	11.82	11.50	11.54	11.76	11.79	12.06
12H	11.24	11.28	11.51	11.54	11.82	11.48	11.52	11.75	11.78	12.06
12H 4H	11.29	11.33	11.53	11.56	11.83	11.55	11.60	11.80	11.83	12.10
6H	11.27	11.31	11.53	11.55	11.83	11.54	11.58	11.80	11.82	12.10

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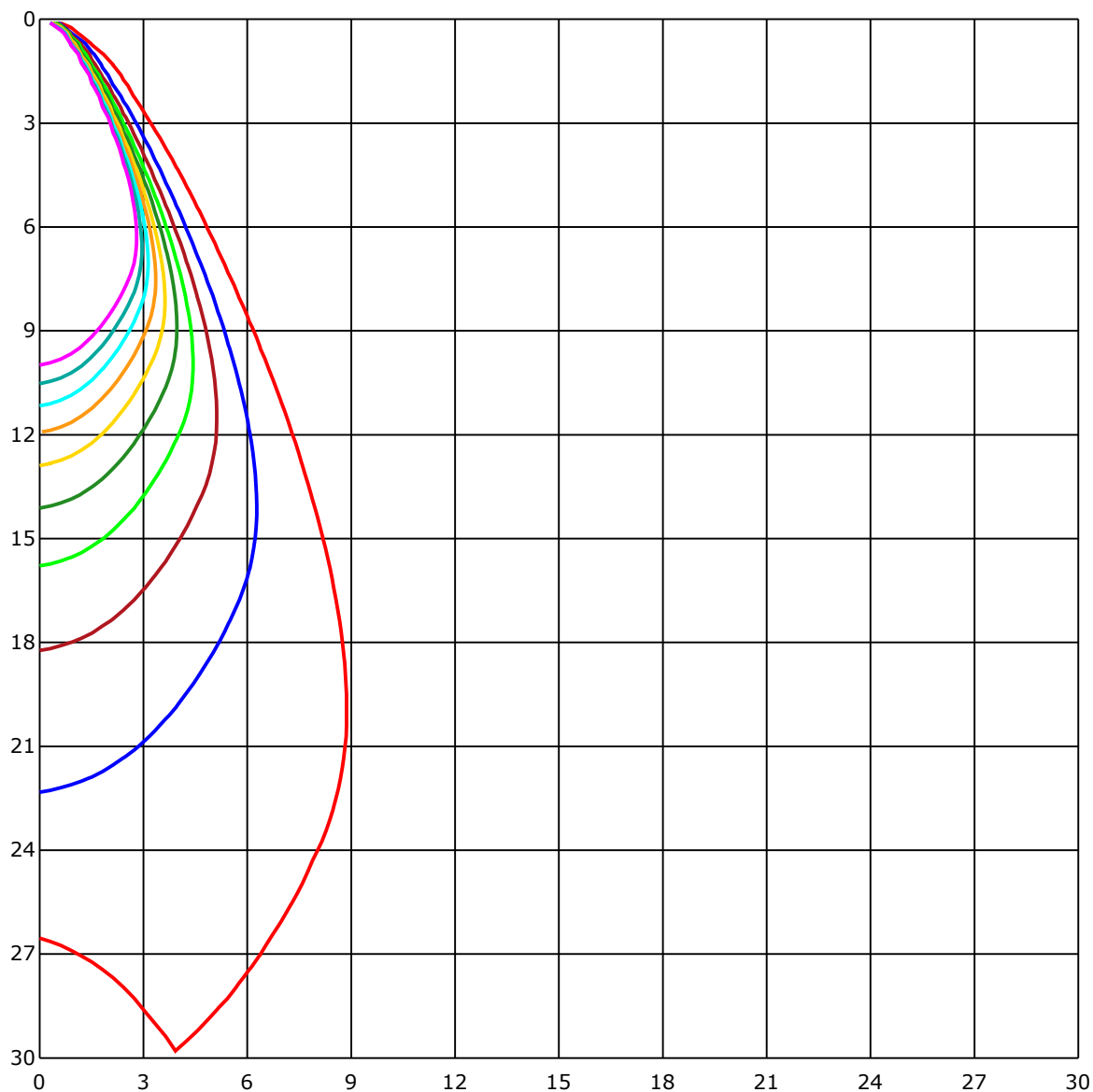
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

28.941	14.471
26.047	11.577
23.153	8.682
20.259	5.788
17.365	2.894

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 16:44:43

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2884.64	2886.82	2897.9	2890.25	2884.64	2886.82	2897.9	2890.25	2884.64	
G1	2868.13	2867.67	2890.62	2883.85	2898.37	2895.4	2895.45	2899.57	2868.13	
G2	2844.71	2847.03	2876.48	2864.05	2899.53	2898.78	2891.09	2887.98	2844.71	
G3	2820.87	2825.28	2857.28	2853.8	2898.65	2888.44	2878.33	2877.64	2820.87	
G4	2789.48	2789.71	2838.26	2820.69	2889.56	2886.08	2862.75	2866.09	2789.48	
G5	2753.44	2753.81	2809.23	2799.63	2878.43	2867.94	2838.08	2842.72	2753.44	
G6	2705.07	2713.33	2778.67	2766.01	2860.39	2849.39	2809.93	2821.99	2705.07	
G7	2663.75	2664.59	2737.58	2731.83	2838.36	2822.77	2776.68	2785.3	2663.75	
G8	2609.17	2612.78	2692.09	2685.92	2814.38	2798.33	2744.77	2751.45	2609.17	
G9	2553.28	2559.4	2641.77	2639.64	2787.62	2757.66	2698.16	2710.59	2553.28	
G10	2490.81	2497.08	2585.98	2596.46	2743.43	2710.31	2649.88	2659.95	2490.81	
G11	2436.37	2434.28	2533.57	2537.79	2705.12	2659.76	2591.64	2610.23	2436.37	
G12	2367.13	2376.08	2478.57	2478.43	2656.61	2615.43	2530.14	2551.61	2367.13	
G13	2309.25	2304.1	2413.64	2421.25	2602.07	2554.44	2467.3	2493.97	2309.25	
G14	2239.46	2243.44	2359.85	2357.3	2544.52	2494.01	2399.96	2434.14	2239.46	
G15	2179.31	2181.72	2292.97	2295.99	2485.02	2425.47	2333.6	2373.62	2179.31	
G16	2116.56	2121.89	2223.69	2221.74	2419.86	2360.03	2262.32	2308.51	2116.56	
G17	2052.75	2049.64	2155.0	2153.57	2357.85	2286.25	2187.47	2245.95	2052.75	
G18	1983.09	1978.68	2087.3	2084.28	2290.7	2219.14	2119.99	2182.32	1983.09	
G19	1925.72	1909.58	2013.37	2010.08	2219.93	2147.12	2046.81	2121.61	1925.72	
G20	1857.32	1835.75	1939.22	1923.5	2146.66	2075.38	1977.52	2055.44	1857.32	
G21	1783.21	1751.76	1857.87	1842.62	2082.01	2002.2	1903.09	1989.03	1783.21	
G22	1699.08	1668.98	1773.79	1759.23	2005.44	1923.45	1827.73	1927.76	1699.08	
G23	1612.27	1577.44	1685.49	1668.75	1935.74	1848.09	1751.07	1861.26	1612.27	
G24	1506.62	1476.62	1588.29	1561.3	1862.09	1774.72	1670.1	1786.36	1506.62	
G25	1396.43	1369.07	1486.73	1454.59	1786.45	1695.23	1581.75	1711.83	1396.43	
G26	1280.12	1260.5	1380.29	1341.57	1694.17	1605.17	1489.79	1628.68	1280.12	
G27	1156.39	1145.12	1271.82	1223.82	1596.13	1512.46	1390.91	1530.37	1156.39	
G28	1038.13	1032.52	1164.97	1107.65	1491.83	1414.8	1285.59	1425.69	1038.13	
G29	916.95	921.26	1055.8	989.34	1385.44	1310.03	1177.3	1315.92	916.95	
G30	802.21	811.81	951.45	874.1	1265.28	1198.27	1068.27	1199.8	802.21	
G31	699.77	710.3	845.85	768.59	1144.38	1088.86	964.11	1077.69	699.77	
G32	606.32	618.56	745.31	664.06	1019.12	977.79	860.93	960.26	606.32	
G33	520.71	537.64	654.09	573.67	900.9	868.62	761.12	847.52	520.71	
G34	445.3	467.56	573.12	496.69	787.47	765.76	669.25	741.37	445.3	
G35	383.25	406.44	500.95	427.49	684.6	668.88	584.25	646.34	383.25	
G36	328.48	355.01	438.07	369.9	590.51	584.43	509.81	560.18	328.48	

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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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	284.19	309.51	383.21	320.0	508.84	508.33	445.91	487.74	284.19	
G38	245.38	269.4	335.48	271.95	437.56	440.94	387.75	423.97	245.38	
G39	214.49	236.19	293.24	229.93	377.32	382.51	337.85	369.39	214.49	
G40	188.33	206.51	252.89	196.36	321.29	331.68	295.14	321.57	188.33	
G41	165.15	179.57	218.99	169.04	271.9	281.41	255.53	281.41	165.15	
G42	145.06	156.01	190.93	147.2	230.91	239.16	218.62	246.44	145.06	
G43	128.93	137.37	167.14	128.97	197.89	204.75	187.68	216.81	128.93	
G44	113.81	121.6	147.62	113.99	172.29	177.95	162.73	189.68	113.81	
G45	101.05	108.38	131.85	101.33	152.35	156.33	142.56	167.23	101.05	
G46	89.65	96.69	117.98	90.25	134.95	138.8	126.47	148.4	89.65	
G47	80.05	86.54	105.78	80.56	120.07	123.5	113.06	132.4	80.05	
G48	71.09	77.36	94.84	72.02	107.22	110.75	100.68	118.26	71.09	
G49	64.05	68.73	85.15	64.51	95.77	99.2	89.92	105.88	64.05	
G50	58.67	61.54	76.66	58.06	85.61	88.72	79.95	94.98	58.67	
G51	54.54	55.6	69.15	52.87	77.08	79.77	71.09	85.33	54.54	
G52	50.64	51.01	62.75	48.28	69.94	72.11	63.58	76.38	50.64	
G53	47.03	46.98	57.74	44.8	64.32	65.58	57.14	69.19	47.03	
G54	44.2	43.92	53.89	42.02	59.64	60.1	52.03	63.21	44.2	
G55	41.97	41.41	50.09	39.56	55.79	55.6	47.3	58.43	41.97	
G56	39.33	38.91	46.89	36.68	52.31	51.99	43.92	54.35	39.33	
G57	36.92	36.5	43.83	34.23	49.21	49.07	40.95	51.25	36.92	
G58	34.41	34.09	41.14	31.77	45.73	45.63	38.26	47.91	34.41	
G59	32.05	31.58	38.21	29.22	42.99	42.85	35.85	45.08	32.05	
G60	29.5	29.31	35.34	26.57	39.88	40.07	33.3	42.2	29.5	
G61	27.08	26.76	32.56	23.93	37.15	37.33	30.7	39.42	27.08	
G62	24.53	23.93	29.59	20.82	34.32	34.6	28.29	36.73	24.53	
G63	21.38	20.59	26.02	17.39	31.63	32.05	25.79	34.27	21.38	
G64	18.13	17.72	22.82	15.07	28.66	29.12	23.28	31.44	18.13	
G65	16.37	15.72	20.59	13.31	24.95	25.23	19.9	28.71	16.37	
G66	14.47	13.96	18.64	11.78	21.61	21.98	17.25	25.09	14.47	
G67	12.99	12.43	16.93	10.25	19.39	19.9	15.21	22.45	12.99	
G68	11.41	10.85	15.4	8.81	17.99	18.09	13.5	20.41	11.41	
G69	10.02	9.46	13.77	7.65	15.81	16.14	11.92	18.69	10.02	
G70	8.77	8.3	12.2	6.59	14.19	14.7	10.43	16.79	8.77	
G71	7.61	7.1	10.9	5.61	12.57	12.99	9.14	15.21	7.61	
G72	6.49	6.26	9.79	4.73	11.18	11.59	7.84	13.54	6.49	
G73	5.57	5.19	8.67	3.9	9.92	10.34	6.63	12.1	5.57	

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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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G Range: 0 - 90 Deg
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