

Report No.:

Test Time: 2024/12/24 16:05:48

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL225CT140-25W
Lamp Type:
Luminous Width: 130 mm
Luminous Length: 130 mm
Luminous Height: 40 mm

Voltage(V): 219.90 V
Current(A): 0.1170 A
Power(W): 25.14 W
Power Factor: 0.9760
Lamp Luminous Flux: 2815.83

Photometric Results

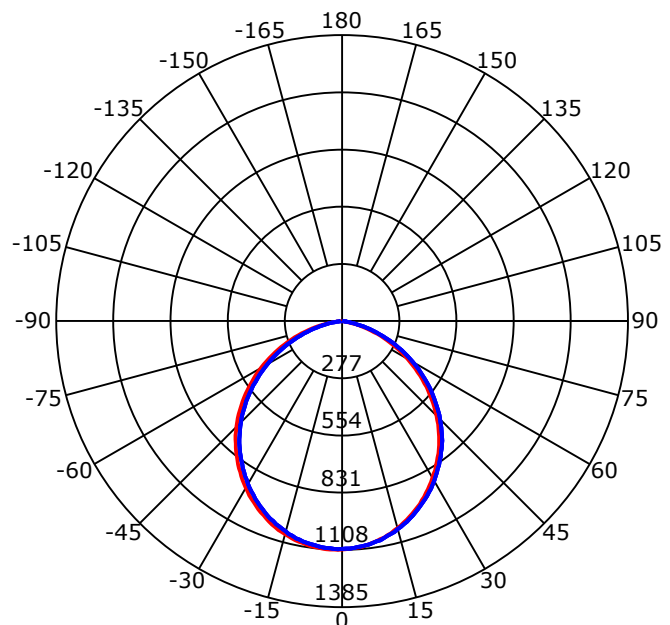
CIE Class: Direct
Luminaire Luminous Flux: 2815.826 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 112.01 lm/W
Beam Angle(50%) C0-180,C90-270: 104.7,104.5
Field Angle(10%) C0-180,C90-270: 152.6,152.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1107.97 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1106.91 cd
Effective Luminous Flux: 2761.47 lm
ERP(ϕ use)(120deg): 2339.03 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 104.7 deg,104.5 deg

C0-180 — C90-270 —

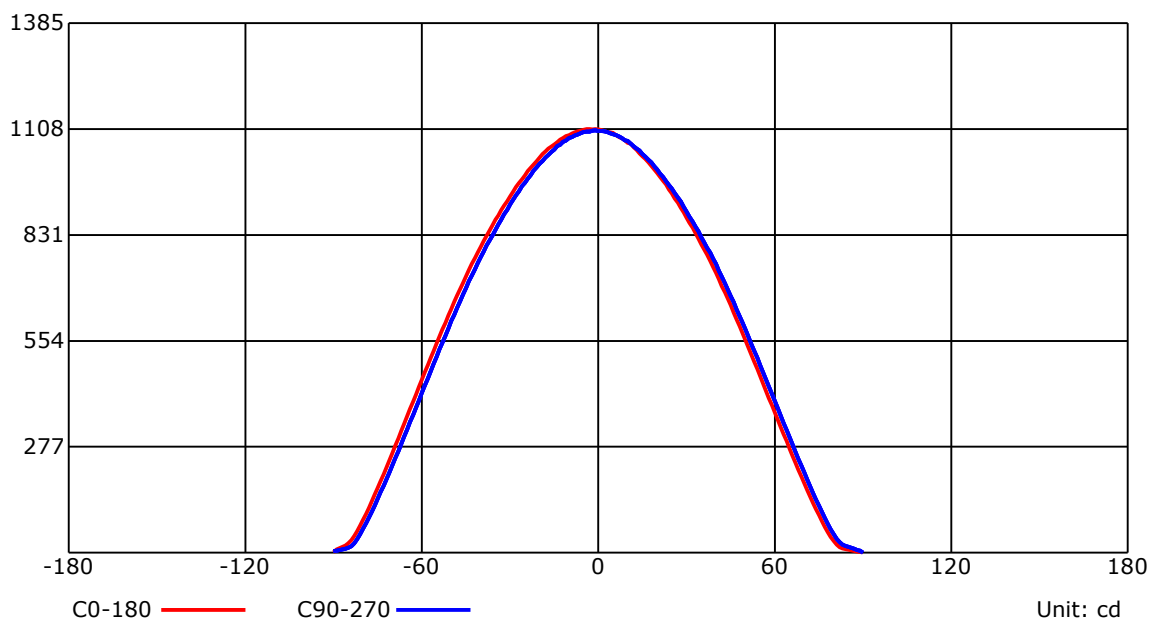
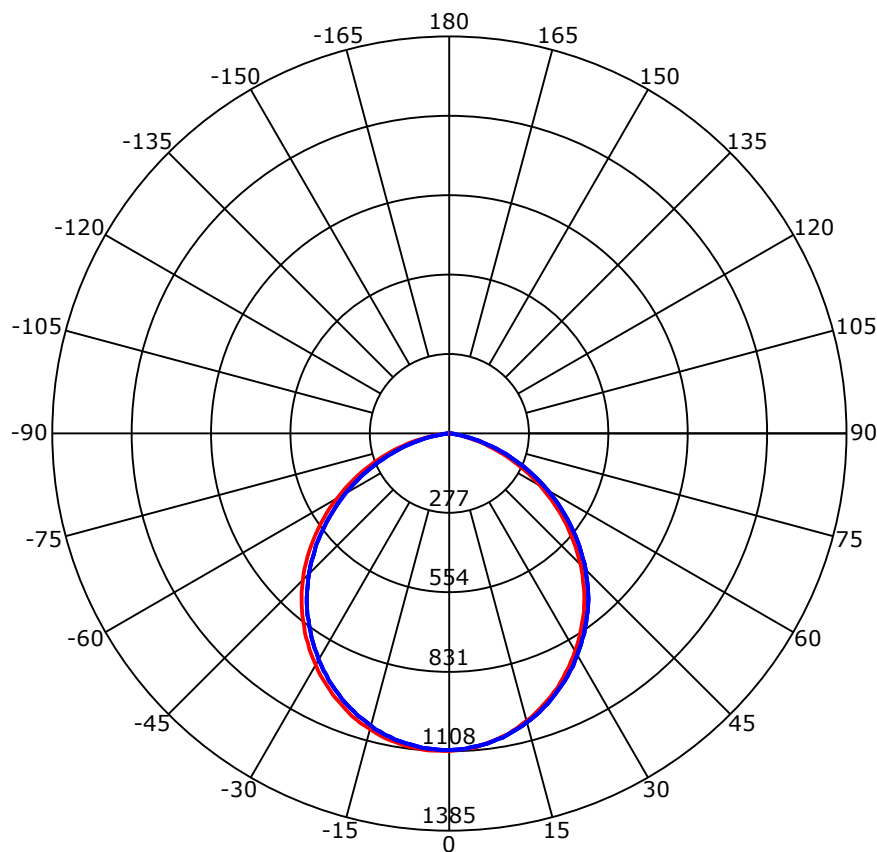
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 16:05:48

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



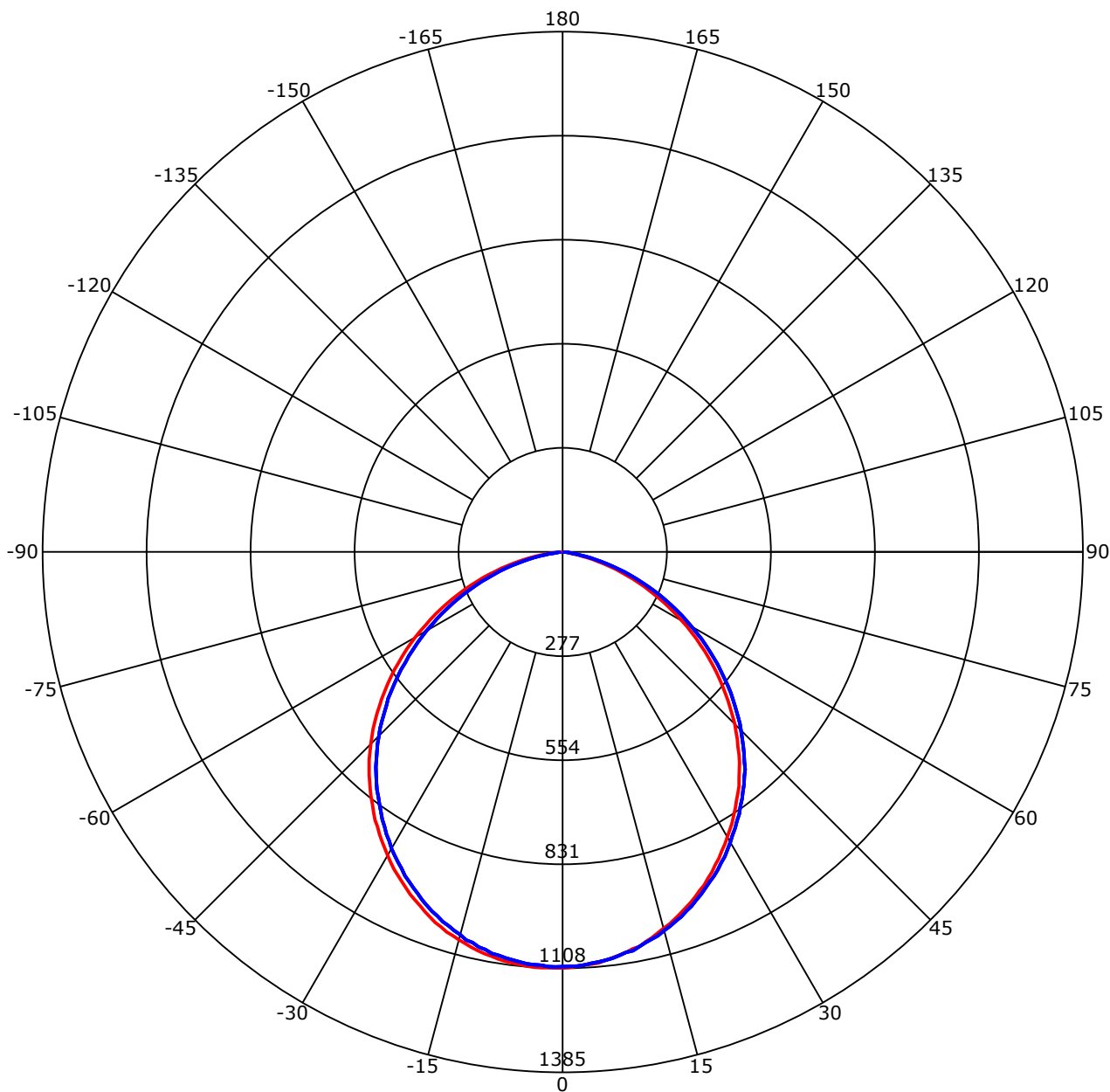
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Temperature: 25
Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 16:05:48

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

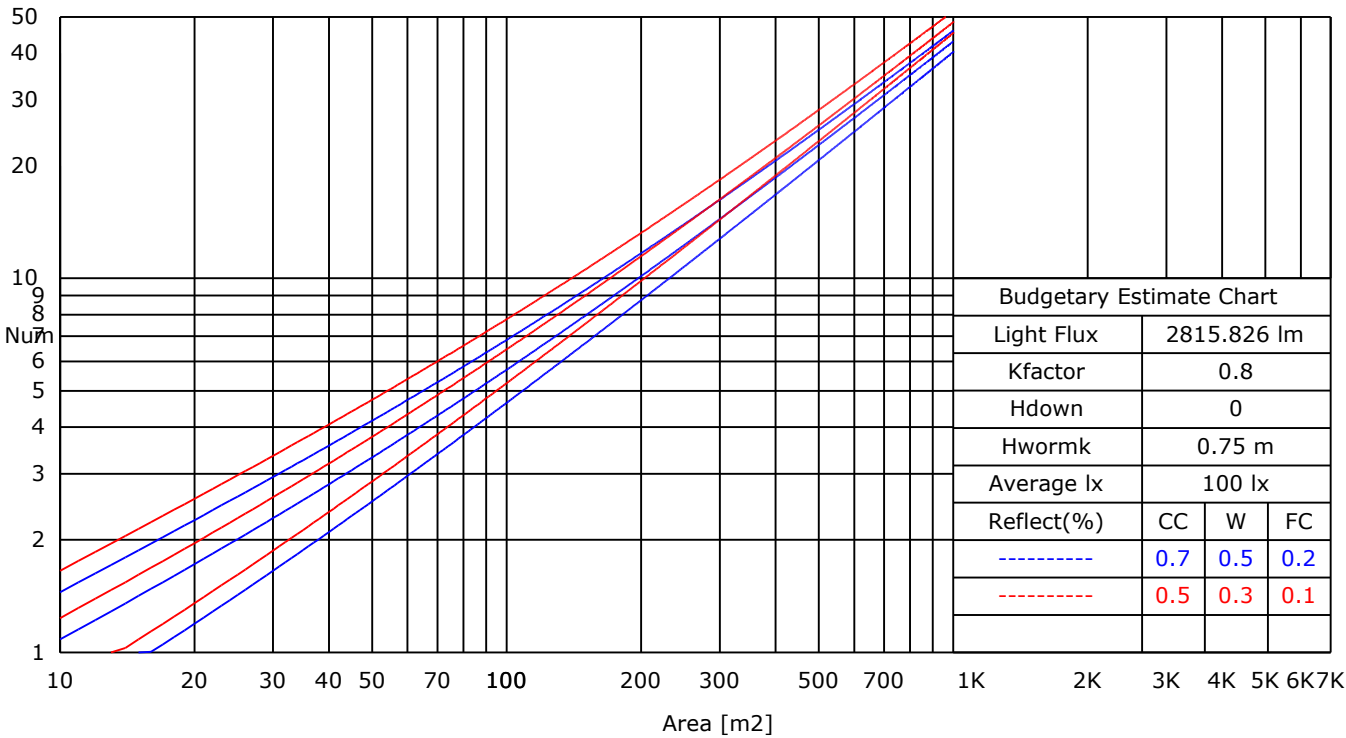
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.82
2	0.97	0.94	0.93	0.96	0.93	0.91	0.93	0.90	0.87	0.89	0.86	0.83	0.84	0.80	0.77	0.73
3	0.87	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.78	0.76	0.74	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.71	0.69	0.67	0.71	0.68	0.66	0.70	0.66	0.63	0.68	0.63	0.60	0.66	0.61	0.56	0.53
6	0.65	0.63	0.61	0.65	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.56	0.51	0.48
7	0.60	0.57	0.56	0.60	0.57	0.55	0.59	0.55	0.52	0.59	0.54	0.50	0.57	0.52	0.47	0.44
8	0.55	0.53	0.52	0.55	0.52	0.51	0.55	0.51	0.48	0.55	0.50	0.46	0.54	0.48	0.44	0.40
9	0.51	0.49	0.48	0.51	0.49	0.47	0.52	0.48	0.45	0.51	0.46	0.43	0.51	0.45	0.40	0.37
10	0.48	0.46	0.45	0.48	0.45	0.44	0.48	0.44	0.42	0.48	0.43	0.40	0.48	0.42	0.38	0.35

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



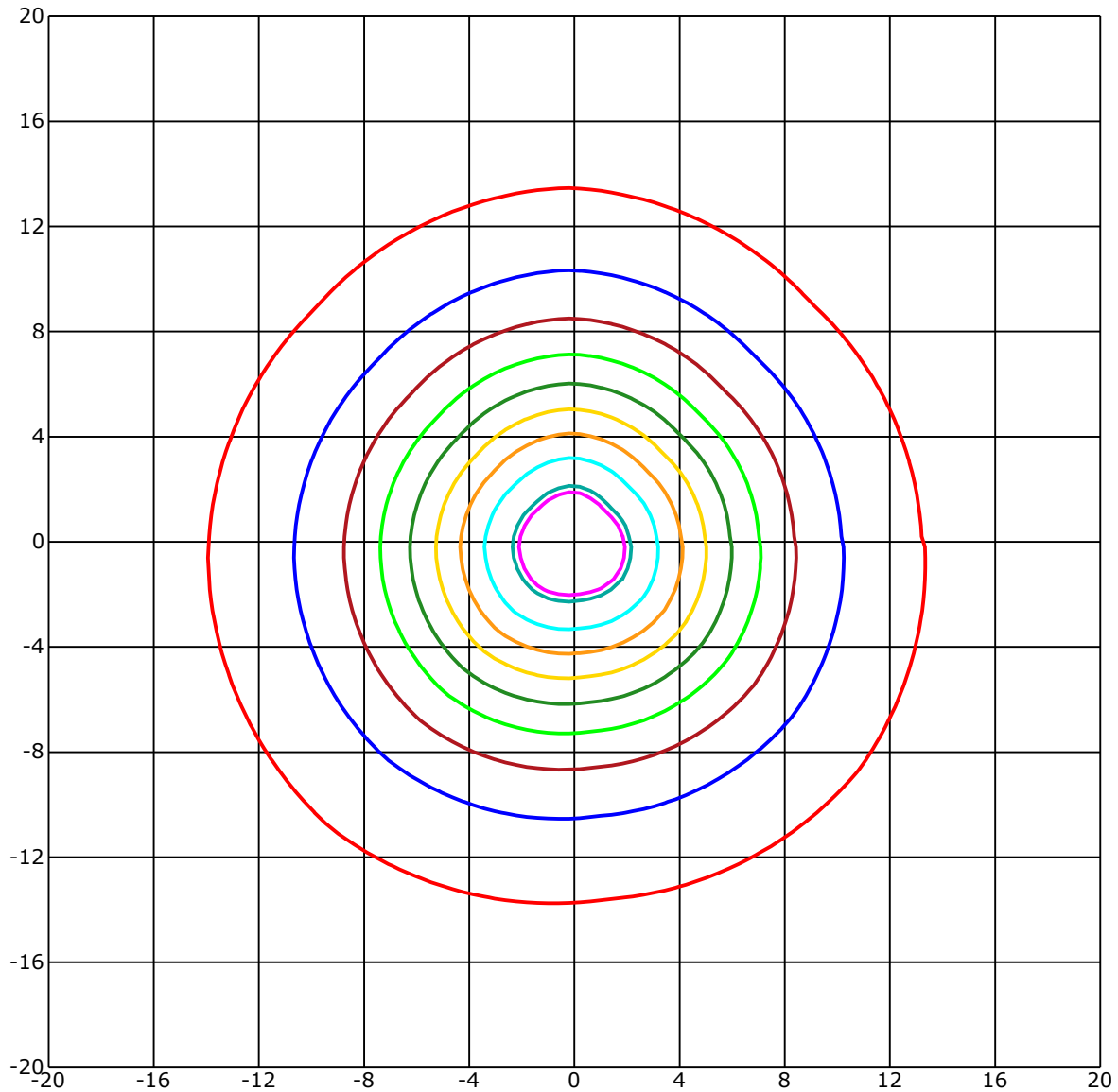
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



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

10.186(92%Emax)	5.536(50%Emax)
9.965(90%Emax)	4.429(40%Emax)
8.857(80%Emax)	3.322(30%Emax)
7.75(70%Emax)	2.214(20%Emax)
6.643(60%Emax)	1.107(10%Emax)

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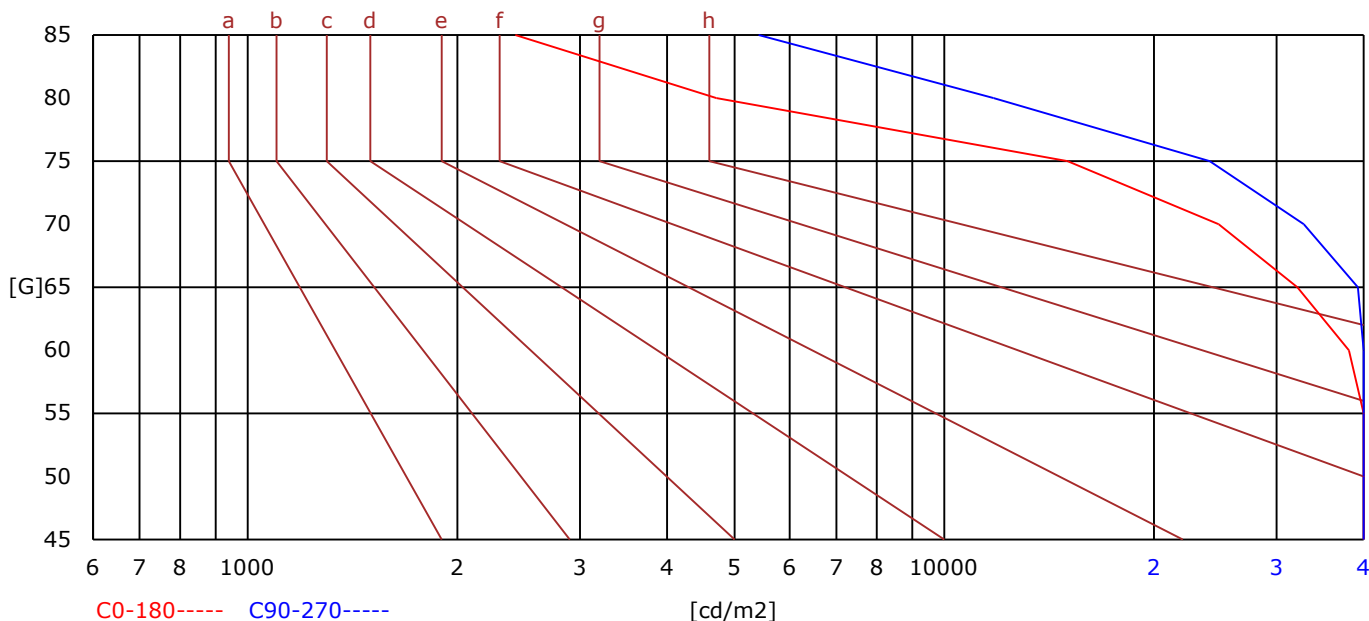
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Test Distance: 6.81 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	50400	46926	42992	38100	32128	24760	15024	4709	2424
C90	54560	51844	48383	44373	39238	32824	24036	11773	5416
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



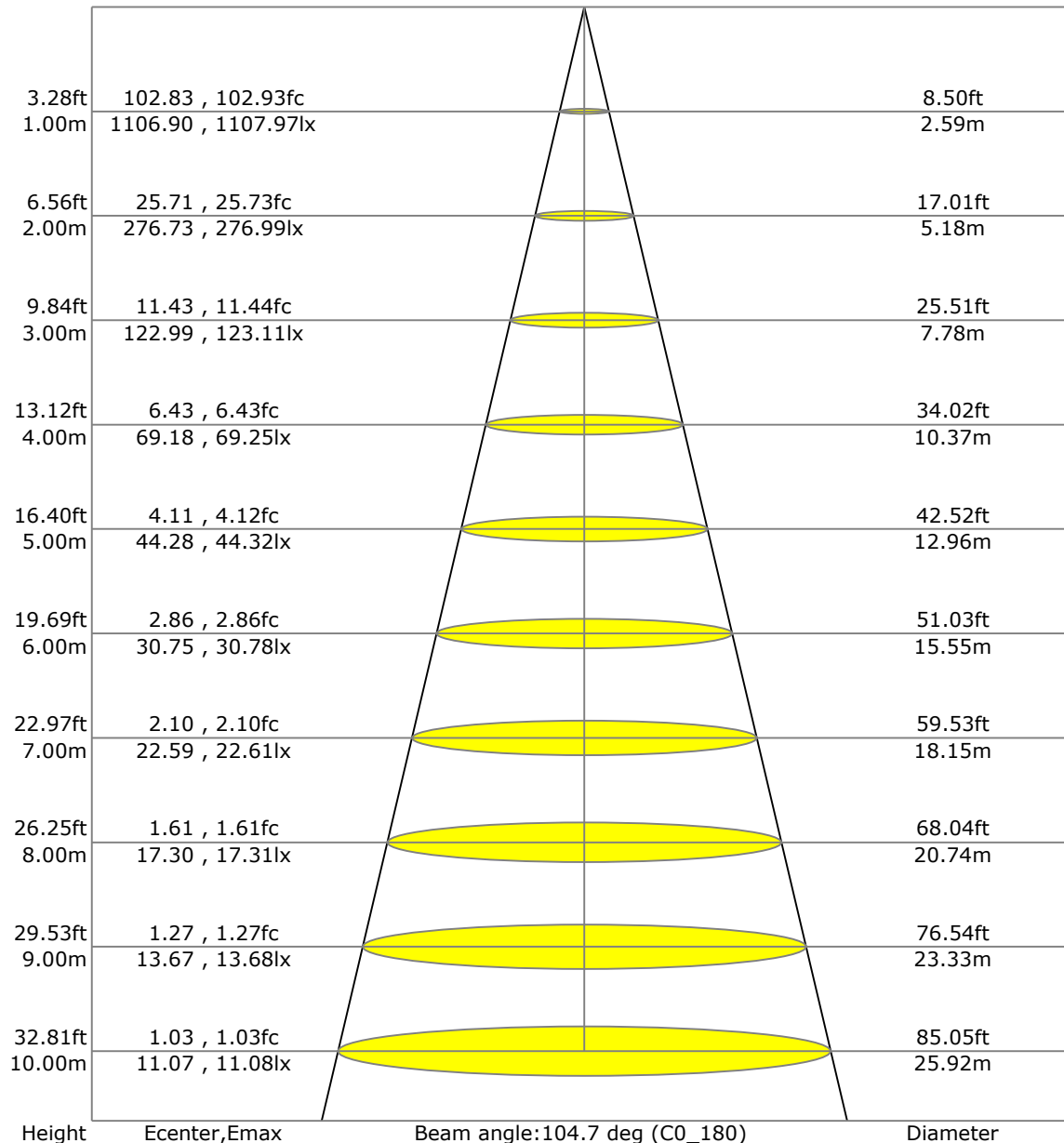
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/12/24 16:05:48

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	18.46	18.53	18.66	18.72	18.96	18.58	18.65	18.78	18.84	19.08
3H	18.53	18.60	18.74	18.80	19.04	18.64	18.71	18.84	18.90	19.15
4H	18.52	18.59	18.73	18.79	19.04	18.62	18.69	18.83	18.89	19.14
6H	18.50	18.56	18.71	18.76	19.02	18.59	18.66	18.81	18.86	19.12
8H	18.48	18.55	18.70	18.75	19.00	18.58	18.65	18.80	18.85	19.10
12H	18.46	18.53	18.69	18.74	18.99	18.56	18.63	18.79	18.83	19.09
4H 2H	19.83	19.90	20.04	20.10	20.35	20.11	20.18	20.32	20.38	20.63
3H	19.94	20.01	20.17	20.22	20.47	20.21	20.28	20.44	20.49	20.74
4H	19.94	20.00	20.17	20.21	20.47	20.20	20.26	20.43	20.48	20.74
6H	19.91	19.96	20.15	20.19	20.45	20.17	20.23	20.41	20.45	20.71
8H	19.89	19.94	20.13	20.17	20.44	20.15	20.20	20.39	20.43	20.70
12H	19.87	19.92	20.12	20.15	20.42	20.13	20.18	20.38	20.41	20.68
8H 4H	19.88	19.95	20.10	20.15	20.41	20.23	20.29	20.45	20.50	20.75
6H	19.96	20.01	20.22	20.25	20.52	20.29	20.34	20.55	20.58	20.85
8H	19.94	19.99	20.20	20.23	20.51	20.27	20.32	20.53	20.56	20.84
12H	19.92	19.96	20.19	20.21	20.49	20.25	20.29	20.52	20.54	20.83
12H 4H	19.98	20.03	20.23	20.26	20.53	20.33	20.38	20.58	20.61	20.88
6H	19.95	19.99	20.21	20.24	20.51	20.29	20.34	20.55	20.58	20.86

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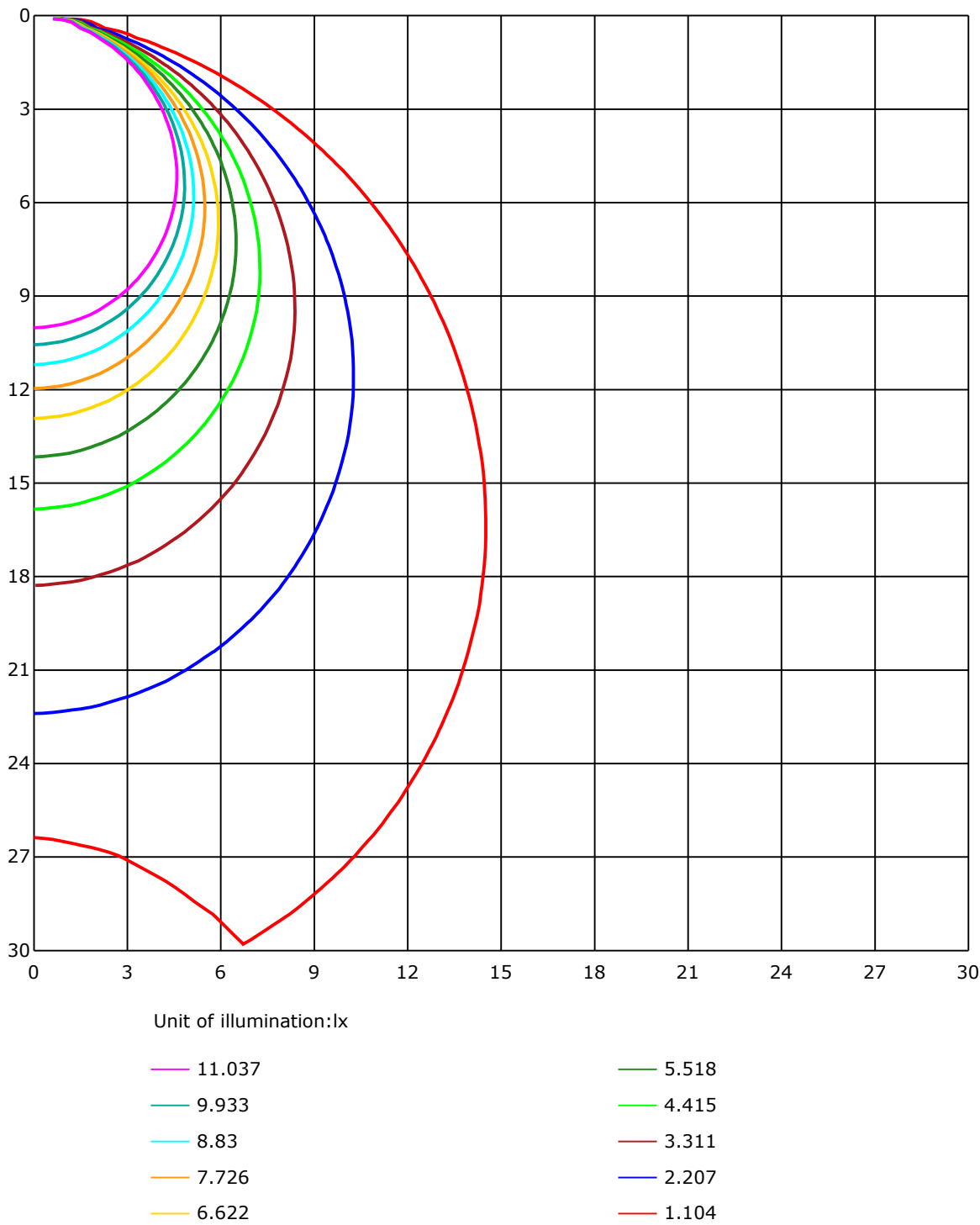
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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



C Range: 0 - 360 Deg
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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	1106.91	1098.93	1103.38	1103.98	1106.91	1098.93	1103.38	1103.98	1106.91	
G1	1105.56	1094.8	1102.64	1102.04	1107.69	1102.5	1104.31	1104.54	1105.56	
G2	1103.06	1091.74	1102.27	1103.61	1107.28	1101.66	1103.98	1105.56	1103.06	
G3	1100.78	1089.79	1100.55	1098.28	1107.97	1104.4	1101.57	1103.61	1100.78	
G4	1099.58	1085.06	1096.84	1096.47	1107.97	1104.22	1101.11	1103.61	1099.58	
G5	1097.82	1081.49	1094.99	1093.36	1106.02	1104.35	1100.18	1102.27	1097.82	
G6	1092.44	1077.97	1092.02	1090.63	1103.61	1102.45	1097.03	1101.29	1092.44	
G7	1087.47	1072.59	1089.14	1085.76	1102.31	1102.27	1093.5	1097.35	1087.47	
G8	1083.58	1064.47	1084.32	1081.21	1099.72	1101.71	1091.04	1095.45	1083.58	
G9	1078.57	1058.26	1078.99	1075.51	1096.7	1098.28	1087.33	1092.85	1078.57	
G10	1072.22	1052.37	1077.18	1073.38	1092.44	1096.7	1084.69	1089.24	1072.22	
G11	1069.29	1045.36	1069.53	1064.33	1089.24	1095.64	1077.78	1084.32	1069.29	
G12	1060.53	1036.37	1063.03	1060.34	1084.97	1091.46	1074.95	1079.59	1060.53	
G13	1053.57	1029.97	1056.82	1051.35	1080.05	1086.87	1067.07	1073.65	1053.57	
G14	1044.81	1020.97	1051.72	1046.52	1073.93	1082.65	1064.05	1069.67	1044.81	
G15	1037.11	1015.13	1043.05	1037.48	1068.04	1078.01	1054.64	1062.2	1037.11	
G16	1030.57	1003.72	1036.37	1028.67	1061.78	1072.91	1047.73	1057.38	1030.57	
G17	1021.16	994.07	1027.74	1020.18	1057.33	1071.15	1040.31	1048.94	1021.16	
G18	1011.88	982.62	1020.92	1011.97	1049.45	1060.58	1033.86	1043.18	1011.88	
G19	1002.42	973.81	1010.58	1002.0	1042.49	1054.78	1024.22	1033.82	1002.42	
G20	993.42	962.58	1002.88	992.59	1033.68	1047.73	1017.26	1026.3	993.42	
G21	983.31	951.82	991.89	983.59	1024.59	1040.17	1008.26	1017.63	983.31	
G22	972.04	939.95	982.8	973.34	1015.08	1031.64	998.85	1008.77	972.04	
G23	963.37	931.09	971.76	962.77	1006.64	1024.31	987.67	999.45	963.37	
G24	950.11	917.09	961.33	952.33	997.92	1015.03	978.26	989.06	950.11	
G25	939.95	905.68	951.87	940.32	986.56	1007.34	967.73	979.65	939.95	
G26	926.08	891.91	940.83	929.38	976.31	996.58	958.92	969.4	926.08	
G27	915.37	879.8	928.5	916.07	966.39	987.67	944.96	958.73	915.37	
G28	901.64	866.03	918.71	905.03	956.14	976.87	934.85	948.34	901.64	
G29	890.1	853.83	904.7	891.02	944.31	967.96	922.88	935.64	890.1	
G30	876.18	838.85	892.09	879.29	931.93	956.37	911.06	926.55	876.18	
G31	862.87	826.84	878.69	864.96	919.92	945.1	897.24	911.52	862.87	
G32	850.54	812.28	866.31	852.3	908.32	933.41	885.69	900.35	850.54	
G33	835.51	797.58	852.39	838.11	896.31	922.19	871.31	886.94	835.51	
G34	821.41	782.5	840.75	826.1	882.17	910.04	858.65	874.56	821.41	
G35	806.57	770.08	825.26	810.19	871.08	897.1	844.0	860.28	806.57	
G36	793.22	752.78	811.91	796.37	857.03	883.6	830.18	848.59	793.22	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	779.4	738.49	797.16	781.81	842.14	871.73	816.03	833.47	779.4	
G38	762.65	721.52	784.45	767.57	828.18	857.31	803.37	821.92	762.65	
G39	747.4	707.37	768.78	751.8	814.78	843.95	787.74	805.69	747.4	
G40	732.0	688.45	755.23	736.08	799.89	831.57	772.9	791.36	732.0	
G41	714.98	671.25	737.43	719.11	785.43	817.01	758.02	776.85	714.98	
G42	697.31	653.72	721.84	705.01	770.31	802.12	741.6	762.14	697.31	
G43	681.26	637.11	704.64	685.62	755.79	789.27	724.86	745.4	681.26	
G44	664.01	619.12	687.76	669.21	739.24	774.06	710.02	730.1	664.01	
G45	647.78	602.29	671.29	652.0	723.05	759.13	692.07	713.03	647.78	
G46	628.26	583.18	655.99	635.07	706.45	740.9	675.65	697.82	628.26	
G47	610.45	565.79	636.6	616.25	690.17	724.95	658.36	679.6	610.45	
G48	592.32	546.87	618.43	598.76	672.96	708.26	639.8	663.5	592.32	
G49	573.77	528.36	601.08	580.21	655.67	693.23	621.9	644.86	573.77	
G50	555.26	509.77	584.25	563.19	637.07	674.22	606.27	626.82	555.26	
G51	536.94	491.96	565.37	543.99	620.28	658.31	586.47	608.87	536.94	
G52	518.86	472.71	546.54	526.04	601.31	639.94	568.15	591.81	518.86	
G53	500.12	453.6	528.18	506.29	584.11	623.57	549.05	573.58	500.12	
G54	480.55	434.68	509.95	488.66	565.56	604.14	532.3	555.54	480.55	
G55	461.63	416.74	490.2	469.0	547.33	587.17	511.53	535.74	461.63	
G56	442.2	397.26	472.06	450.91	527.53	567.27	493.95	517.09	442.2	
G57	423.41	378.43	452.91	431.11	510.0	550.99	474.61	498.5	423.41	
G58	404.12	359.65	434.68	413.16	491.17	529.99	455.78	479.62	404.12	
G59	385.57	340.96	415.02	393.59	471.78	512.22	436.31	460.56	385.57	
G60	366.56	321.94	396.05	374.95	452.4	493.35	417.71	441.45	366.56	
G61	347.59	303.35	377.83	355.52	433.76	473.78	398.19	422.07	347.59	
G62	328.71	284.84	358.58	337.06	413.86	454.25	379.54	403.19	328.71	
G63	310.3	267.68	339.01	318.65	395.22	436.26	360.34	384.18	310.3	
G64	291.33	248.16	320.41	299.59	376.3	417.11	341.65	366.05	291.33	
G65	271.76	229.47	301.58	280.25	356.91	398.88	322.04	346.29	271.76	
G66	253.17	211.29	283.36	261.75	337.57	378.2	304.13	327.0	253.17	
G67	235.36	194.22	264.25	243.8	319.16	359.18	284.84	307.61	235.36	
G68	216.95	176.65	245.61	225.39	299.17	339.61	265.6	288.88	216.95	
G69	199.05	159.63	226.92	207.3	280.11	320.6	246.95	269.58	199.05	
G70	180.91	143.12	209.16	189.72	261.0	300.98	228.54	251.08	180.91	
G71	163.38	126.84	190.88	172.33	242.5	282.24	210.5	232.07	163.38	
G72	146.41	110.47	173.26	154.9	223.9	263.93	193.2	213.84	146.41	
G73	130.13	94.79	156.24	137.6	205.54	244.49	175.44	195.48	130.13	

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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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