

Report No.:

Test Time: 2024/8/6 17:37:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-14.3W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

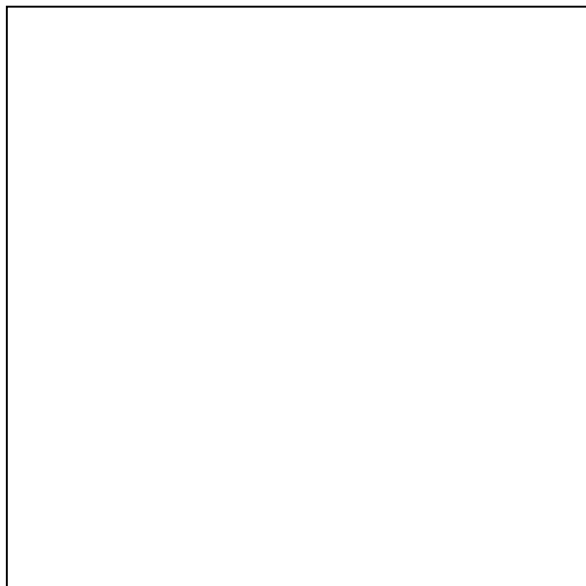
Voltage(V): 219.90 V
Current(A): 0.0680 A
Power(W): 14.27 W
Power Factor: 0.9440
Lamp Luminous Flux: 1192.45

Photometric Results

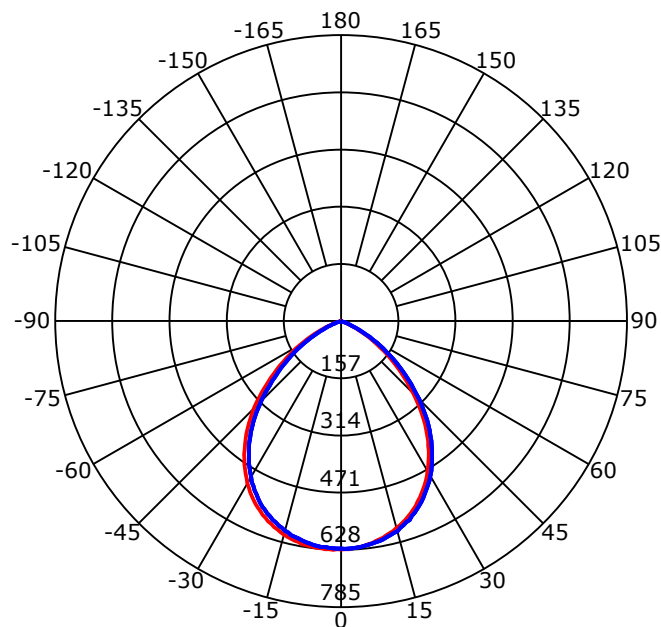
CIE Class: Direct
Luminaire Luminous Flux: 1192.447 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.56 lm/W
Beam Angle(50%) C0-180,C90-270: 89.3,89.1
Field Angle(10%) C0-180,C90-270: 127.9,127.7
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 627.74 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 627.07 cd
Effective Luminous Flux: 1163.69 lm
ERP(ϕ use)(120deg): 1131.85 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.3 deg,89.1 deg

C0-180 — C90-270 —

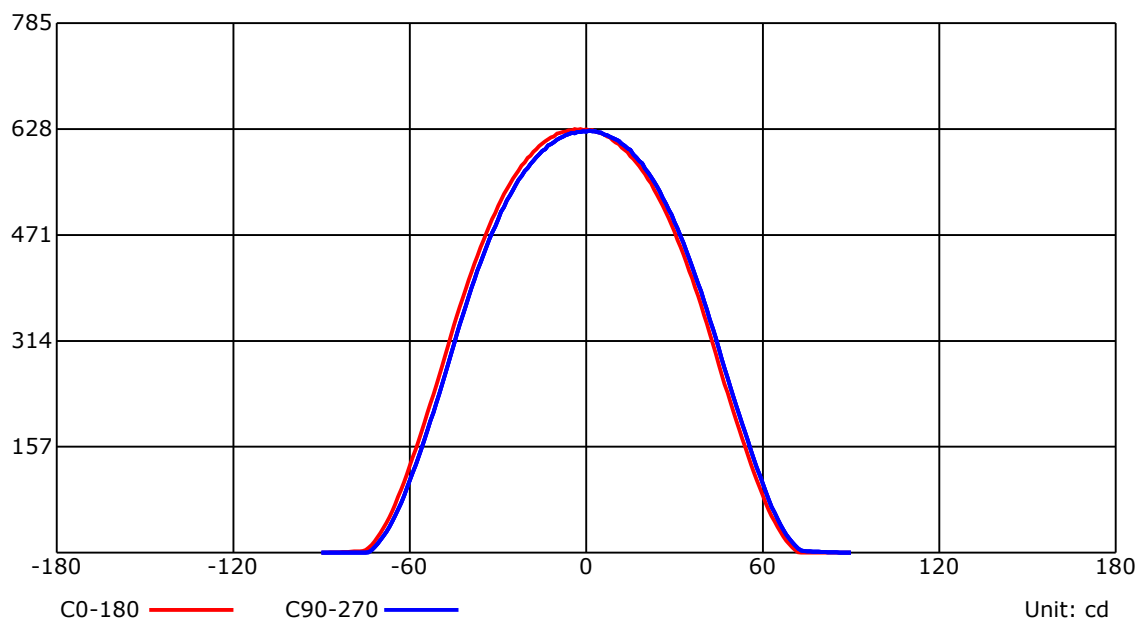
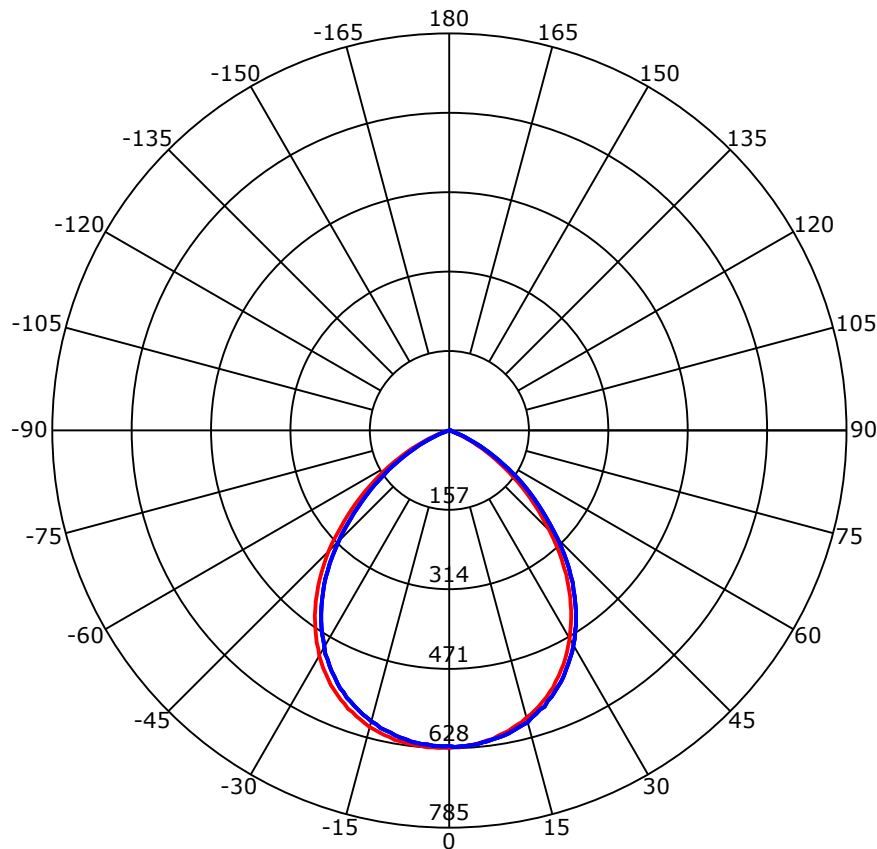
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:37:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



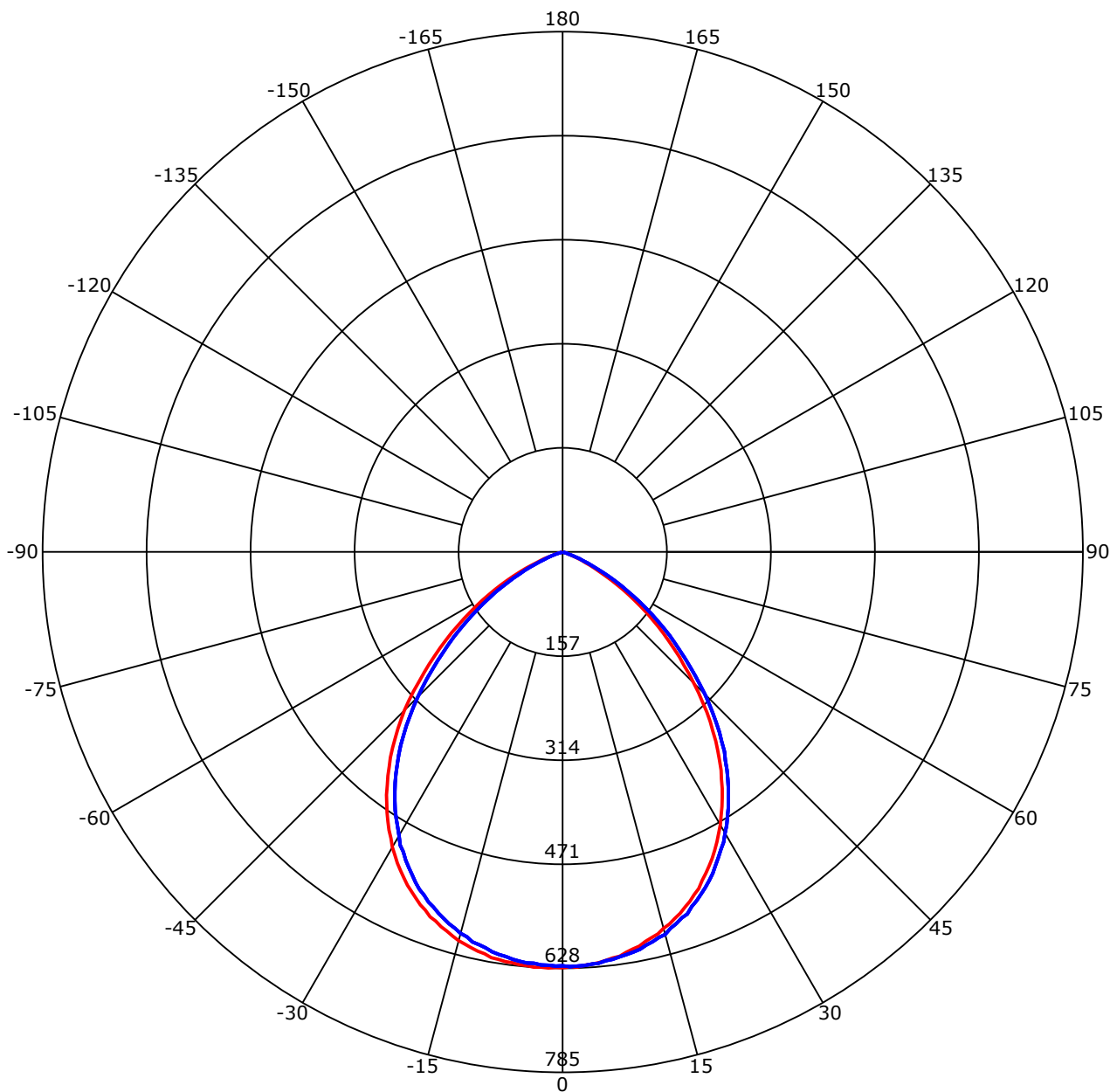
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Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/8/6 17:37:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

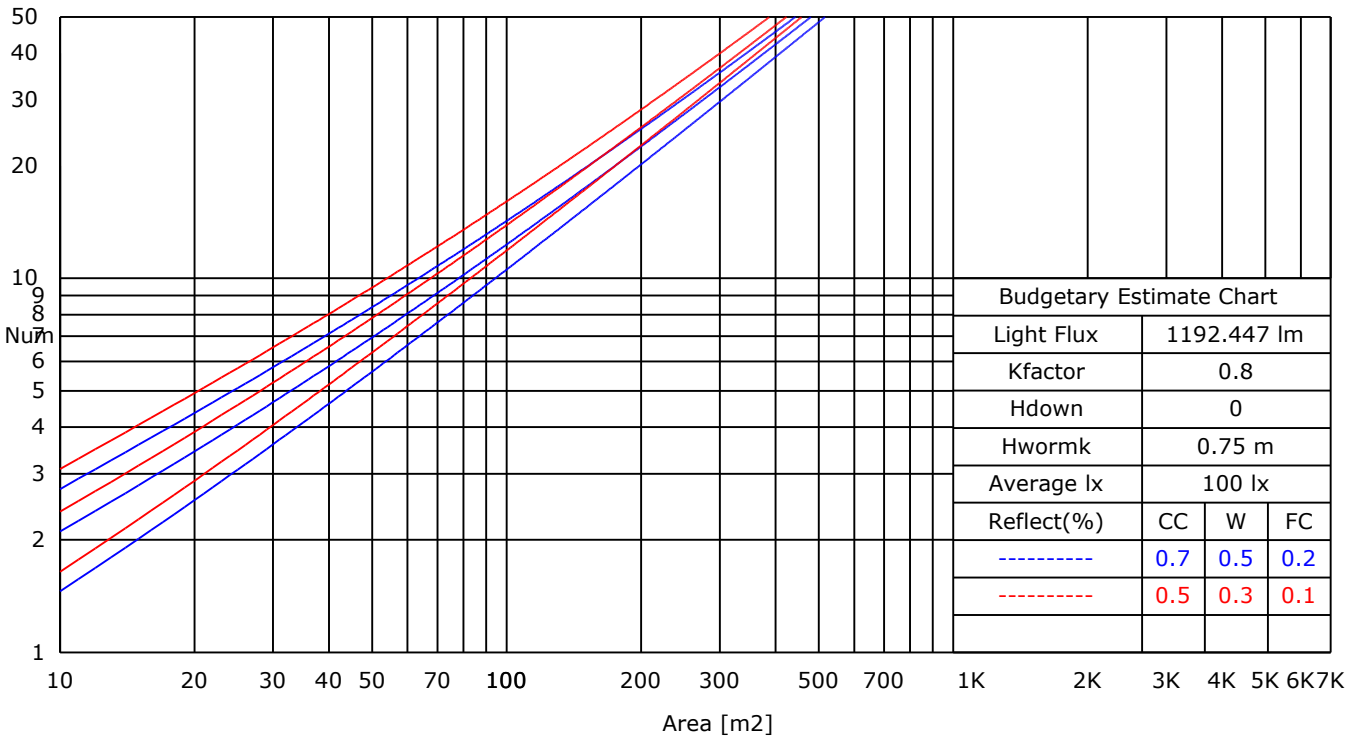
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	0.90	0.88	0.83
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.93	0.91	0.90	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.70
4	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
5	0.80	0.78	0.76	0.79	0.76	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.67	0.64	0.60
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
7	0.69	0.67	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
8	0.65	0.63	0.62	0.64	0.62	0.60	0.64	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.52	0.48
9	0.61	0.59	0.58	0.61	0.58	0.57	0.60	0.56	0.54	0.59	0.55	0.51	0.58	0.52	0.49	0.45
10	0.57	0.56	0.55	0.57	0.55	0.53	0.57	0.53	0.51	0.56	0.52	0.48	0.55	0.50	0.46	0.43

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



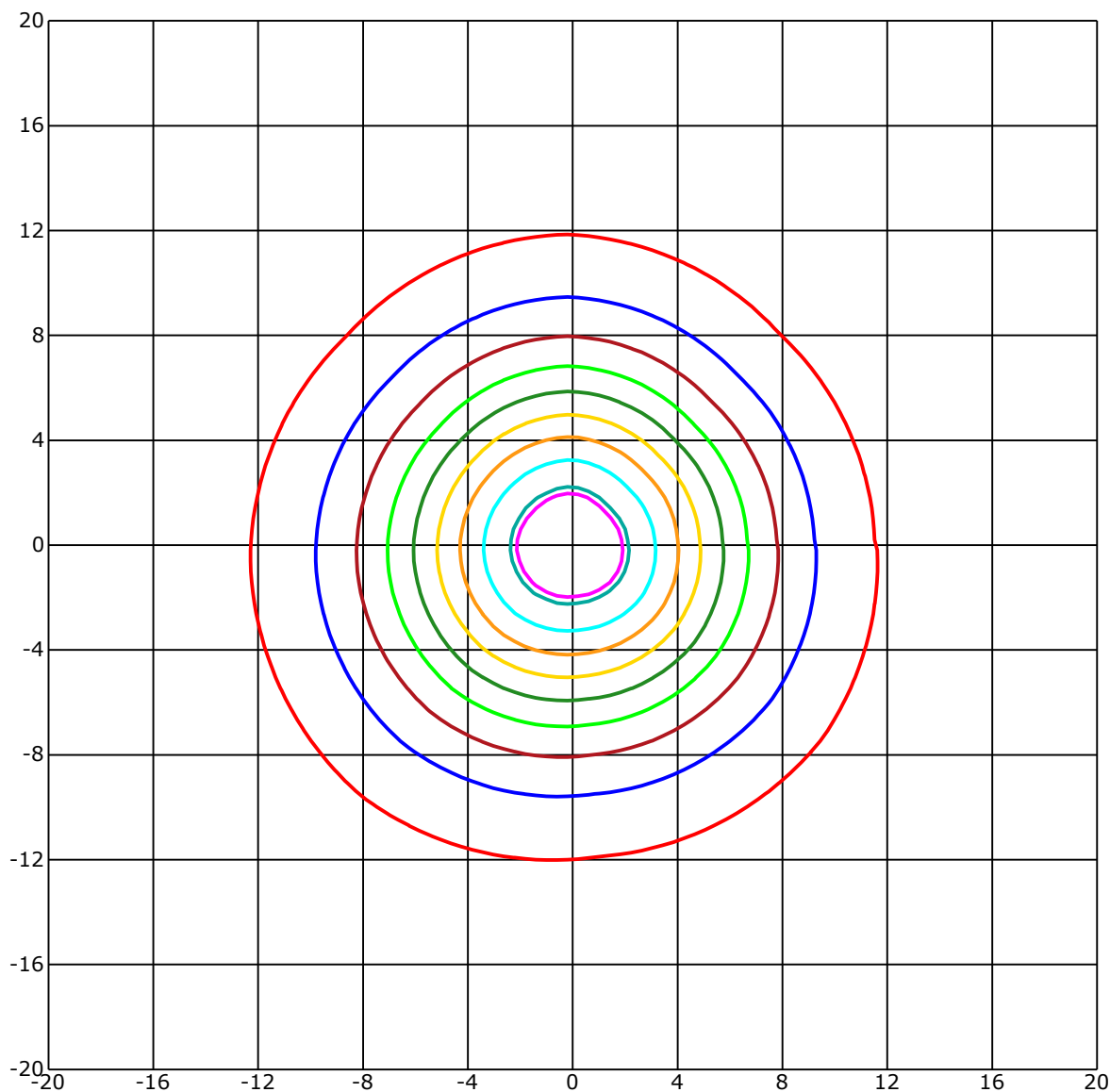
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:37:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

5.769(92%Emax)	3.135(50%Emax)
5.644(90%Emax)	2.508(40%Emax)
5.017(80%Emax)	1.881(30%Emax)
4.389(70%Emax)	1.254(20%Emax)
3.762(60%Emax)	0.627(10%Emax)

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Operators: QC01
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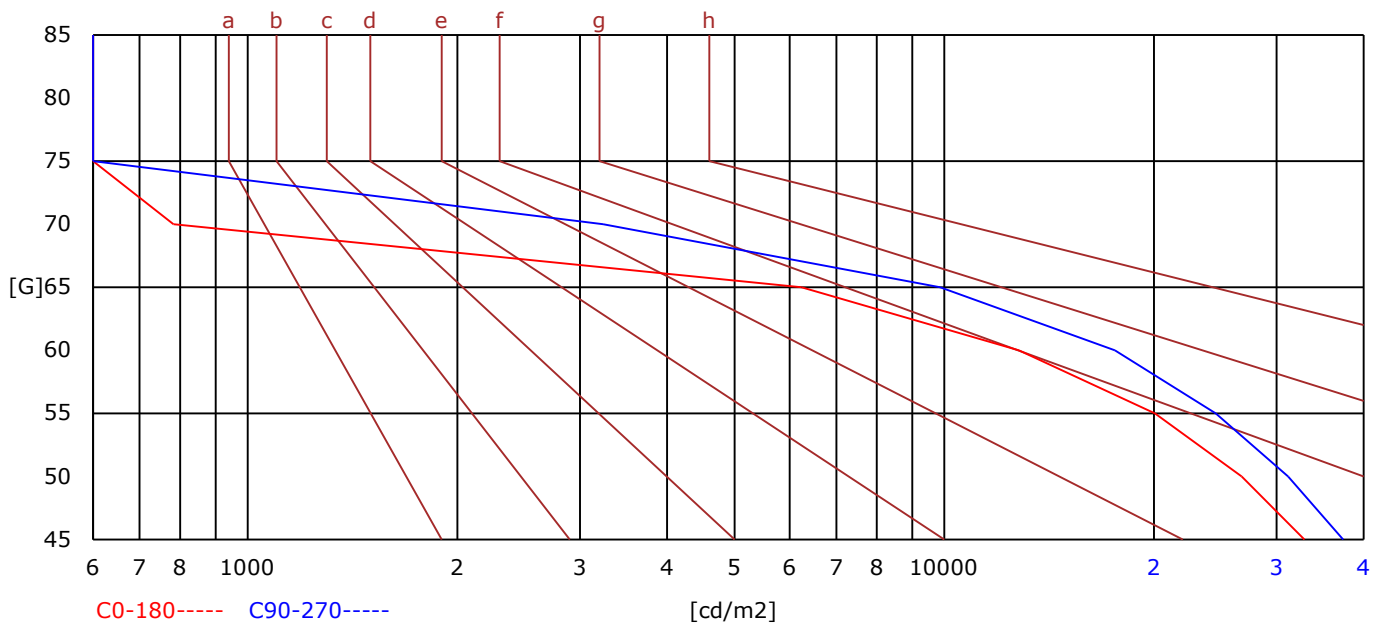
G Range: 0 - 90 Deg
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Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	32883	26714	20067	12801	6239	783	0	0	0
C90	37353	31152	24539	17579	9869	3236	0	0	0
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



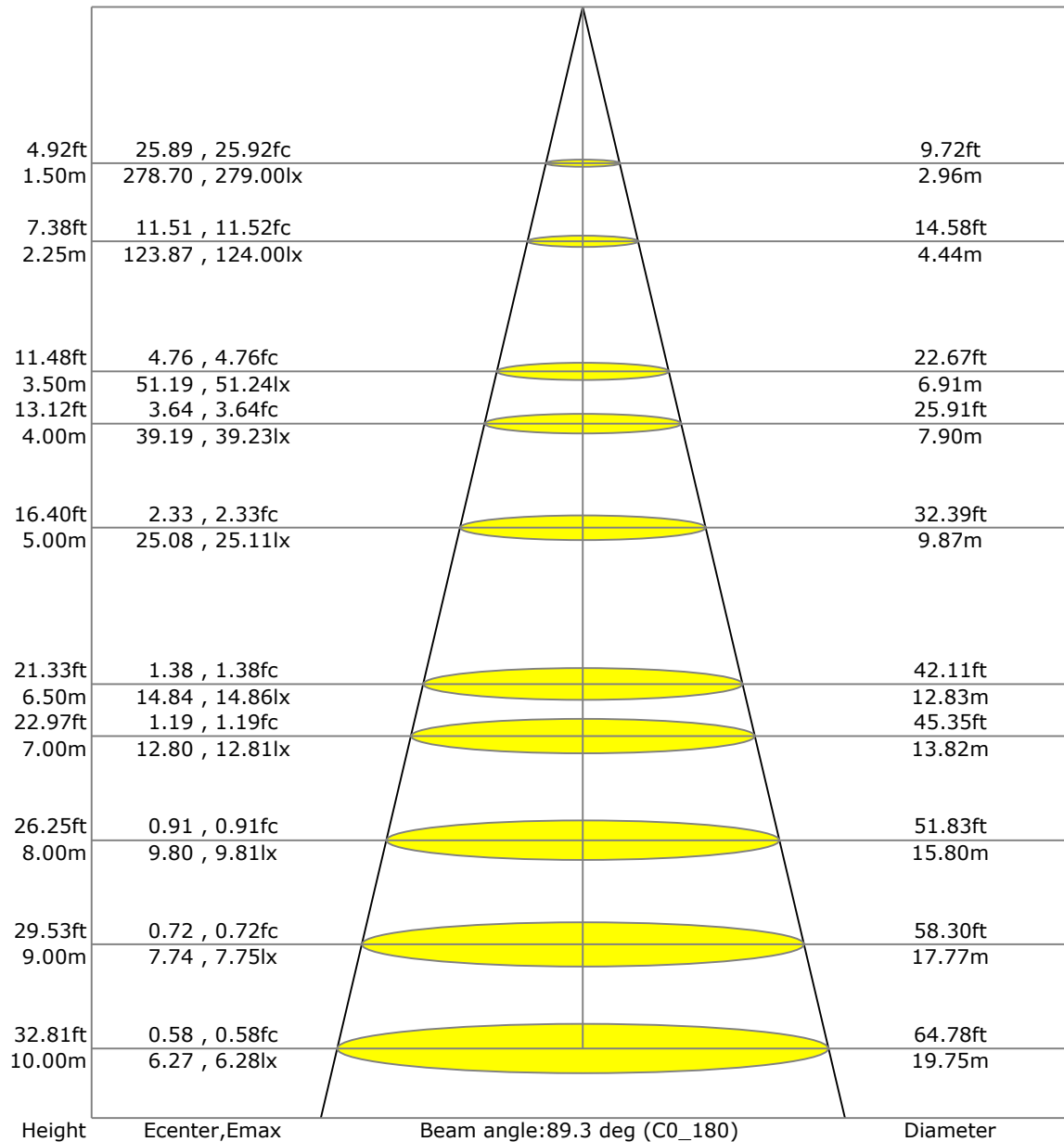
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/8/6 17:37:25

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.7 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	17.93	18.00	18.13	18.18	18.43	18.14	18.20	18.34	18.39	18.63
3H	17.90	17.96	18.11	18.15	18.40	18.10	18.17	18.31	18.36	18.61
4H	17.88	17.94	18.09	18.13	18.38	18.08	18.14	18.29	18.34	18.59
6H	17.85	17.91	18.07	18.11	18.36	18.06	18.11	18.27	18.32	18.57
8H	17.84	17.90	18.06	18.10	18.35	18.04	18.10	18.26	18.30	18.56
12H	17.82	17.88	18.05	18.09	18.34	18.03	18.09	18.25	18.29	18.55
4H 2H	18.02	18.08	18.23	18.28	18.53	18.29	18.35	18.50	18.55	18.80
3H	17.98	18.04	18.20	18.24	18.50	18.24	18.30	18.47	18.51	18.76
4H	17.95	18.01	18.18	18.22	18.48	18.22	18.27	18.45	18.48	18.74
6H	17.92	17.97	18.16	18.19	18.46	18.18	18.24	18.42	18.46	18.72
8H	17.90	17.95	18.15	18.18	18.44	18.17	18.22	18.41	18.44	18.71
12H	17.89	17.93	18.13	18.16	18.43	18.15	18.20	18.40	18.43	18.70
8H 4H	17.98	18.04	18.20	18.24	18.50	18.25	18.31	18.47	18.51	18.77
6H	17.87	17.91	18.12	18.15	18.42	18.13	18.18	18.39	18.42	18.69
8H	17.85	17.89	18.11	18.13	18.41	18.11	18.16	18.37	18.40	18.68
12H	17.83	17.87	18.10	18.12	18.40	18.09	18.13	18.36	18.39	18.67
12H 4H	17.89	17.93	18.13	18.16	18.43	18.15	18.20	18.40	18.43	18.70
6H	17.85	17.89	18.11	18.13	18.41	18.11	18.16	18.38	18.40	18.68

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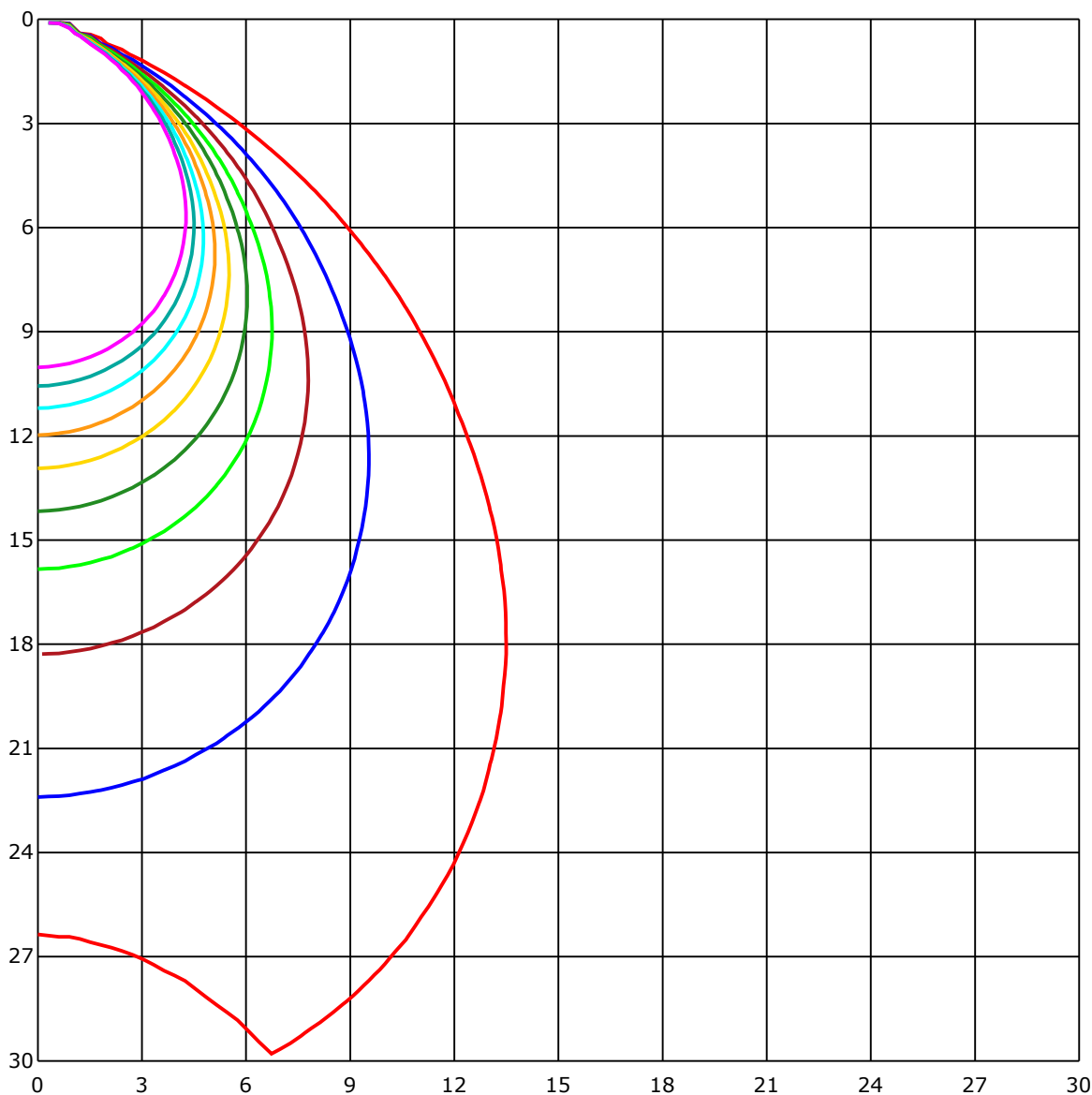
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

6.248	3.124
5.623	2.499
4.998	1.874
4.373	1.25
3.749	0.625

C Range: 0 - 360 Deg
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G Interval: 1.0 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	627.07	623.16	623.84	626.4	627.07	623.16	623.84	626.4	627.07	
G1	625.77	622.89	625.27	625.72	626.48	624.64	624.33	624.82	625.77	
G2	626.4	620.78	624.55	625.5	627.74	622.53	623.61	625.63	626.4	
G3	623.97	620.33	624.38	625.81	626.89	623.61	623.48	623.97	623.97	
G4	622.94	617.28	622.94	623.88	627.7	622.85	621.73	624.69	622.94	
G5	621.73	616.65	622.58	622.62	625.72	623.21	622.22	622.89	621.73	
G6	619.48	612.52	619.75	621.91	625.68	623.84	620.38	622.4	619.48	
G7	616.65	611.72	618.67	619.8	624.11	621.5	618.99	621.55	616.65	
G8	615.44	607.32	616.34	617.82	623.52	620.42	616.21	618.58	615.44	
G9	611.09	605.12	614.45	615.17	621.95	619.39	614.45	616.25	611.09	
G10	608.04	601.57	612.61	612.93	621.14	616.83	611.94	614.23	608.04	
G11	605.57	598.83	610.1	609.7	616.97	614.9	608.26	611.49	605.57	
G12	600.36	593.85	606.1	606.91	615.49	612.08	605.61	608.3	600.36	
G13	596.72	590.8	603.19	606.19	612.79	611.22	603.73	604.13	596.72	
G14	593.4	585.63	599.28	599.95	609.65	607.32	597.98	601.3	593.4	
G15	587.52	580.34	596.9	594.79	606.6	605.16	595.42	596.0	587.52	
G16	583.53	574.82	590.35	590.89	602.56	601.3	590.17	593.22	583.53	
G17	578.05	569.43	585.72	588.06	597.71	596.5	586.22	587.83	578.05	
G18	572.93	563.37	580.11	582.0	594.03	592.19	580.97	584.65	572.93	
G19	566.42	556.41	577.24	575.85	588.55	589.14	576.12	579.13	566.42	
G20	560.68	550.31	568.89	570.91	585.23	584.74	569.92	572.35	560.68	
G21	553.22	544.11	563.64	565.57	578.45	579.71	565.39	566.69	553.22	
G22	547.25	534.33	556.64	558.48	573.69	575.13	558.21	561.21	547.25	
G23	537.92	528.04	549.86	551.47	566.74	569.21	552.69	553.09	537.92	
G24	530.69	518.48	542.81	542.9	560.5	562.43	545.46	546.22	530.69	
G25	522.25	510.0	535.04	535.72	554.35	555.83	537.15	538.05	522.25	
G26	514.17	501.42	525.57	527.73	546.54	551.65	529.52	530.6	514.17	
G27	504.56	491.32	517.04	518.39	538.77	543.3	521.85	522.16	504.56	
G28	495.27	483.6	508.42	509.86	531.59	533.61	511.97	515.92	495.27	
G29	485.31	471.39	500.48	499.98	522.47	527.23	505.51	505.69	485.31	
G30	475.43	460.08	489.71	490.29	513.99	517.58	493.83	497.34	475.43	
G31	463.53	450.38	480.55	478.98	503.35	509.91	483.69	489.93	463.53	
G32	452.9	438.53	468.79	469.01	494.64	499.4	474.08	476.87	452.9	
G33	441.58	426.46	458.82	457.65	484.05	491.28	463.89	466.0	441.58	
G34	430.18	413.98	447.1	445.89	473.77	480.86	452.94	456.85	430.18	
G35	417.25	401.95	435.84	433.77	462.64	470.94	441.18	444.59	417.25	
G36	406.75	388.66	423.76	422.1	452.67	460.3	429.78	433.55	406.75	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	392.79	375.86	411.42	408.77	439.61	449.39	418.11	420.84	392.79	
G38	380.04	362.8	398.17	397.01	428.43	437.23	404.86	409.44	380.04	
G39	366.98	349.2	387.36	382.96	415.95	427.26	393.1	397.23	366.98	
G40	352.21	335.37	372.95	370.07	404.14	414.11	379.86	384.35	352.21	
G41	339.14	321.59	360.02	356.74	390.99	401.77	366.08	371.02	339.14	
G42	324.73	307.27	345.47	341.48	378.02	389.06	352.7	358.49	324.73	
G43	309.02	290.98	331.78	327.29	364.28	376.27	338.2	344.89	309.02	
G44	294.75	276.25	317.82	312.88	351.17	362.58	323.93	330.84	294.75	
G45	279.26	261.26	303.05	296.77	337.57	349.92	309.16	316.16	279.26	
G46	264.45	247.21	287.52	281.77	322.89	335.64	294.79	301.35	264.45	
G47	249.68	233.34	273.25	267.36	307.36	321.73	279.89	286.35	249.68	
G48	236.66	219.83	258.52	252.19	291.52	306.02	264.0	272.08	236.66	
G49	222.65	206.54	244.56	237.74	276.61	292.01	249.86	257.31	222.65	
G50	209.1	192.94	230.64	224.99	262.7	276.25	235.49	243.71	209.1	
G51	195.63	180.23	217.58	211.93	248.29	262.56	221.94	229.48	195.63	
G52	182.75	166.77	204.56	197.88	234.46	247.52	208.15	216.5	182.75	
G53	169.41	154.2	191.32	184.41	220.54	233.97	195.09	203.04	169.41	
G54	156.4	141.18	177.54	171.84	207.21	220.1	181.58	189.79	156.4	
G55	143.38	129.33	164.57	158.15	193.43	206.81	168.11	176.24	143.38	
G56	130.81	116.94	151.1	146.21	179.78	193.25	155.45	163.22	130.81	
G57	118.78	105.36	138.35	133.82	166.72	180.59	143.02	150.16	118.78	
G58	107.2	93.69	125.87	121.7	153.75	166.23	130.67	137.45	107.2	
G59	95.44	83.0	113.84	109.89	141.27	153.03	118.64	124.66	95.44	
G60	84.39	71.91	102.04	98.76	129.1	140.24	107.29	112.23	84.39	
G61	73.17	61.81	90.18	87.09	116.58	128.12	95.8	100.46	73.17	
G62	63.03	52.84	78.92	76.27	104.73	116.09	84.3	89.15	63.03	
G63	54.27	44.67	68.19	65.85	93.46	104.01	73.62	78.15	54.27	
G64	45.92	36.9	58.85	56.11	82.51	92.2	63.47	67.38	45.92	
G65	37.98	29.63	50.05	46.87	71.24	81.3	54.54	58.18	37.98	
G66	30.97	22.94	41.21	38.83	61.1	70.39	45.97	49.78	30.97	
G67	23.75	17.15	33.8	31.42	52.16	60.92	38.29	41.39	23.75	
G68	17.69	11.63	26.89	24.47	44.04	52.03	30.88	34.16	17.69	
G69	12.43	6.87	20.69	18.18	36.09	43.5	24.42	27.52	12.43	
G70	7.9	3.01	15.4	12.43	29.18	36.0	18.4	21.55	7.9	
G71	3.82	0.09	10.64	7.45	22.67	29.0	12.97	15.98	3.82	
G72	0.54	0.0	6.33	3.32	16.83	22.71	7.99	11.0	0.54	
G73	0.0	0.0	3.32	0.18	11.54	17.06	3.86	6.82	0.0	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:37:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: