

Report No.:

Test Time: 2024/8/1 18:45:38

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

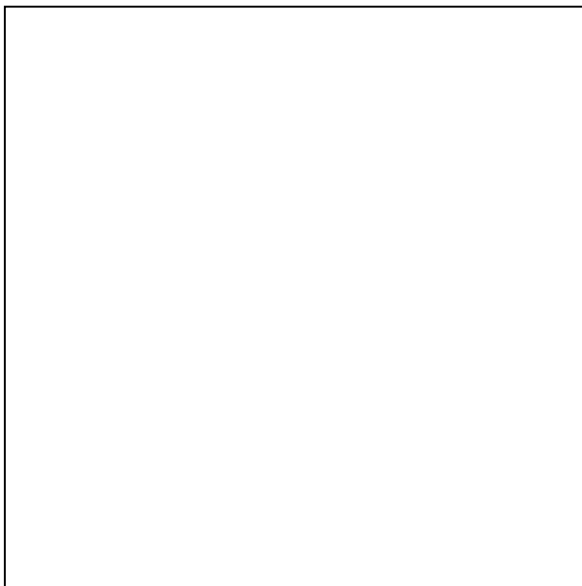
Voltage(V): 219.90 V
Current(A): 0.0680 A
Power(W): 14.33 W
Power Factor: 0.9450
Lamp Luminous Flux: 1116.54

Photometric Results

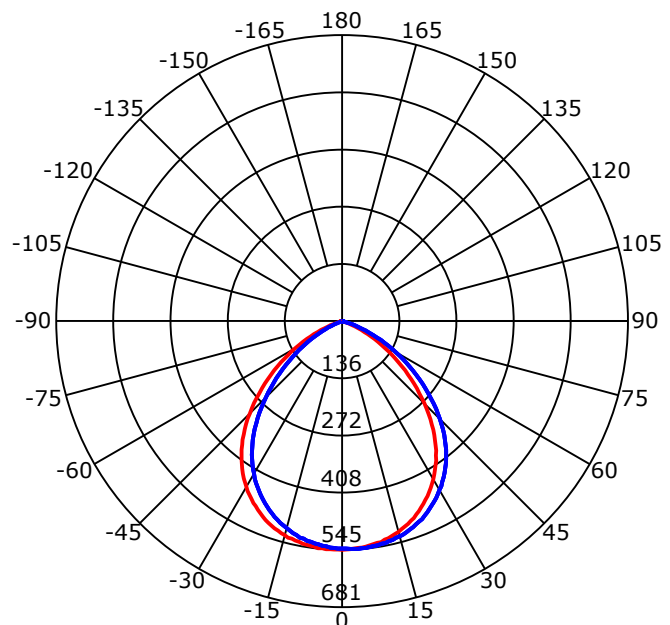
CIE Class: Direct
Luminaire Luminous Flux: 1116.538 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 77.92 lm/W
Beam Angle(50%) C0-180,C90-270: 93.5,93.5
Field Angle(10%) C0-180,C90-270: 131.5,131.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 544.56 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 544.56 cd
Effective Luminous Flux: 1094.60 lm
ERP(ϕ use)(120deg): 1046.84 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 93.5 deg,93.5 deg

C0-180 — C90-270 —

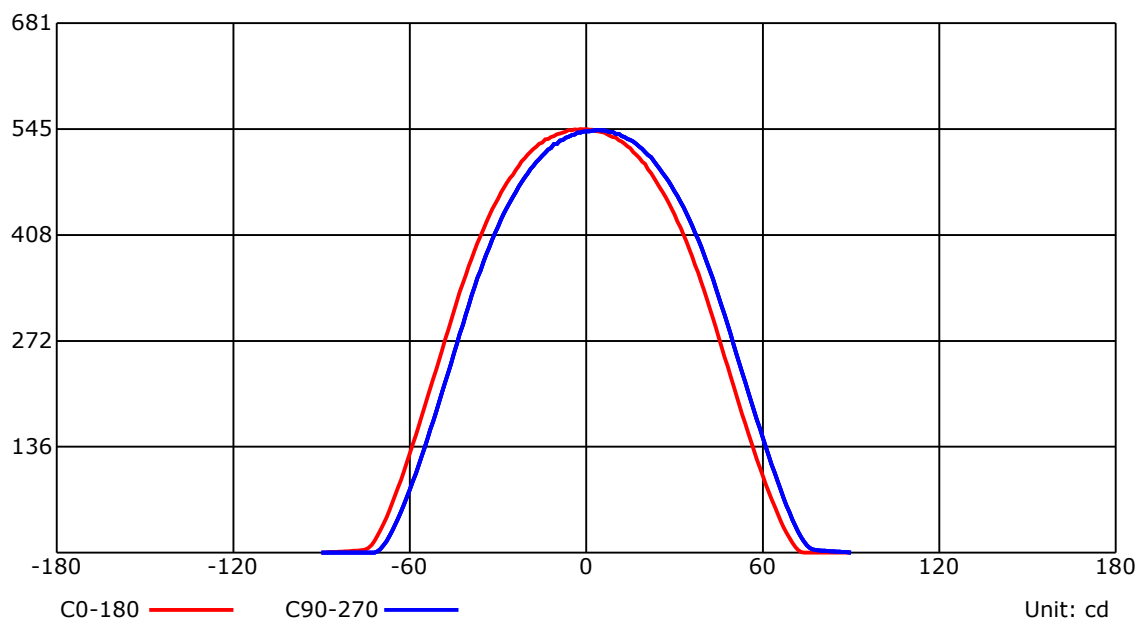
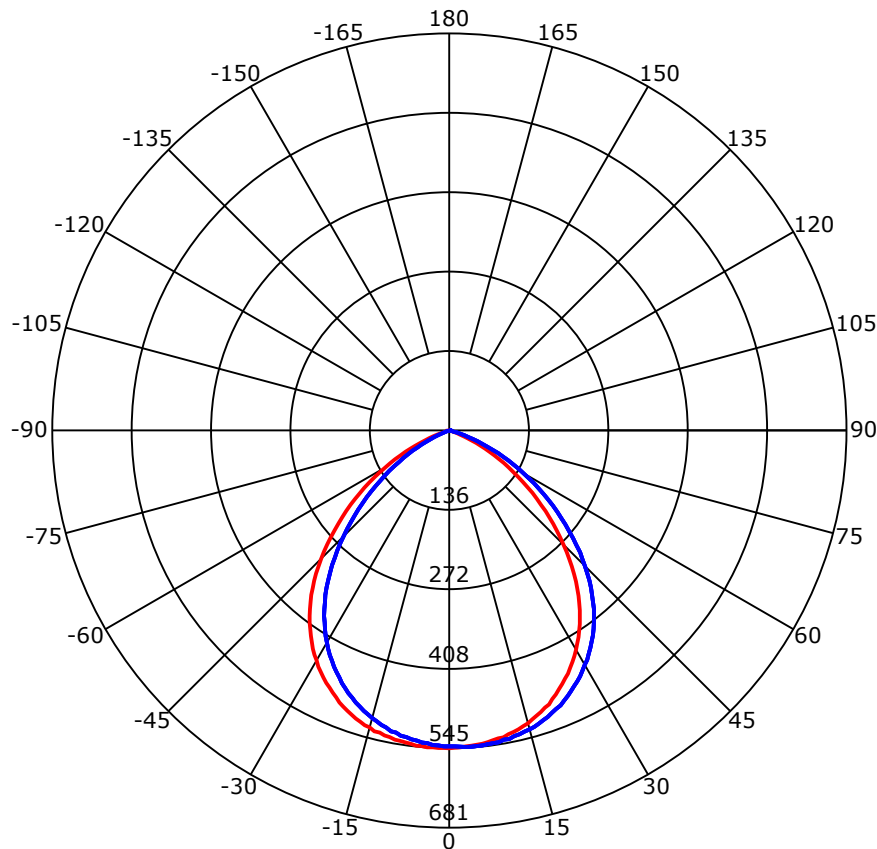
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/1 18:45:38

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



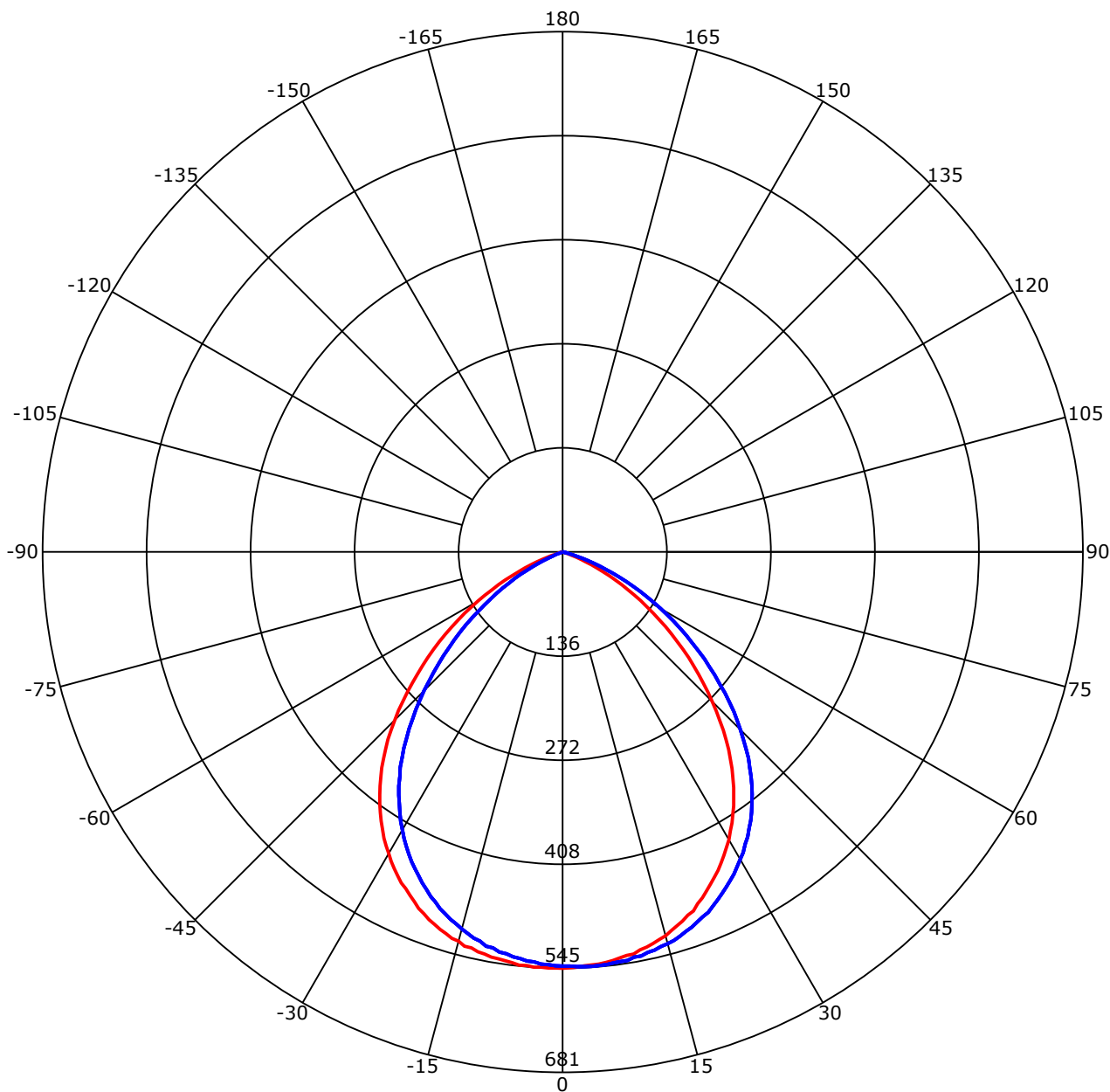
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/1 18:45:38

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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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: 2024/8/1 18:45:38

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

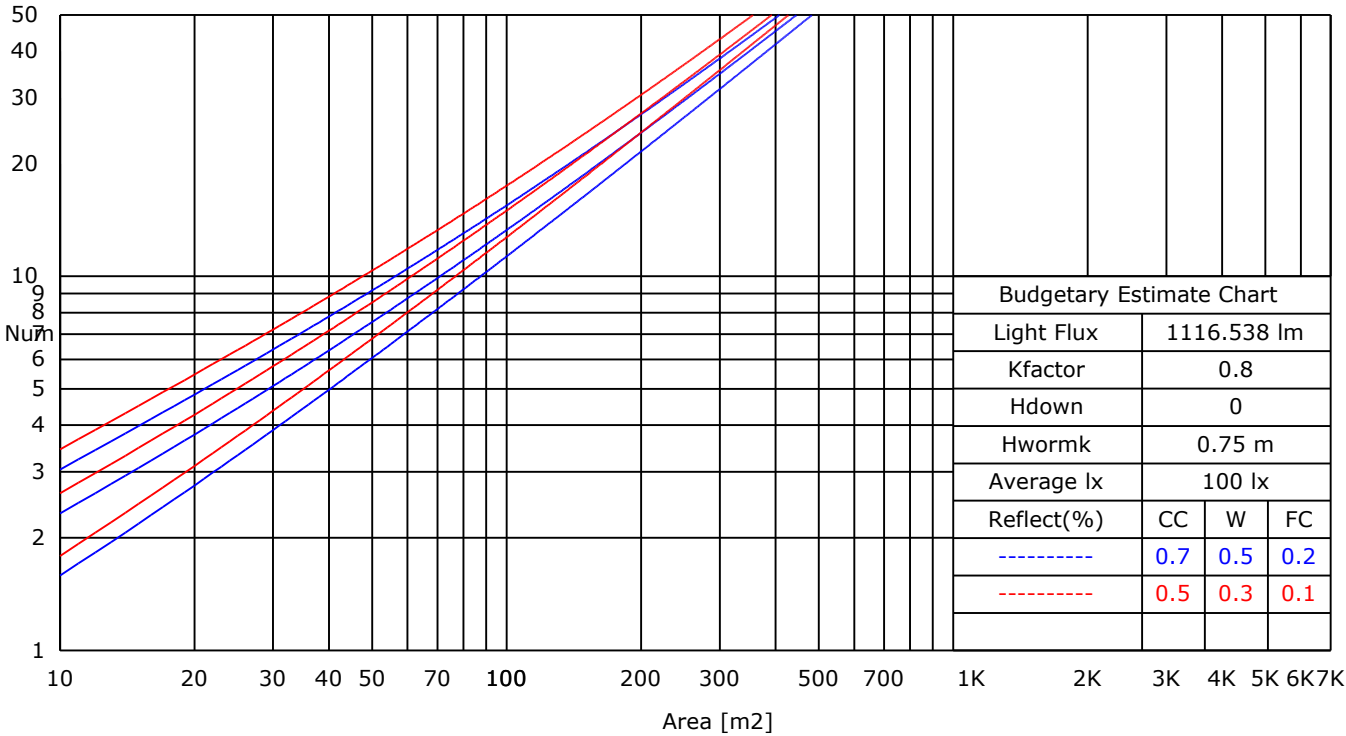
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UTILIZATION FACTORS TABLE

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	0.92	0.90	0.88	0.83
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.81	0.76
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.76	0.72	0.68	0.64
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.67	0.63	0.59
6	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.54
7	0.68	0.66	0.64	0.67	0.65	0.63	0.66	0.63	0.60	0.65	0.61	0.57	0.63	0.58	0.54	0.51
8	0.63	0.61	0.60	0.63	0.60	0.59	0.62	0.59	0.56	0.61	0.57	0.53	0.60	0.54	0.50	0.47
9	0.59	0.57	0.56	0.59	0.57	0.55	0.59	0.55	0.53	0.58	0.53	0.50	0.56	0.51	0.47	0.44
10	0.56	0.54	0.53	0.56	0.53	0.52	0.55	0.52	0.49	0.55	0.50	0.47	0.54	0.48	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



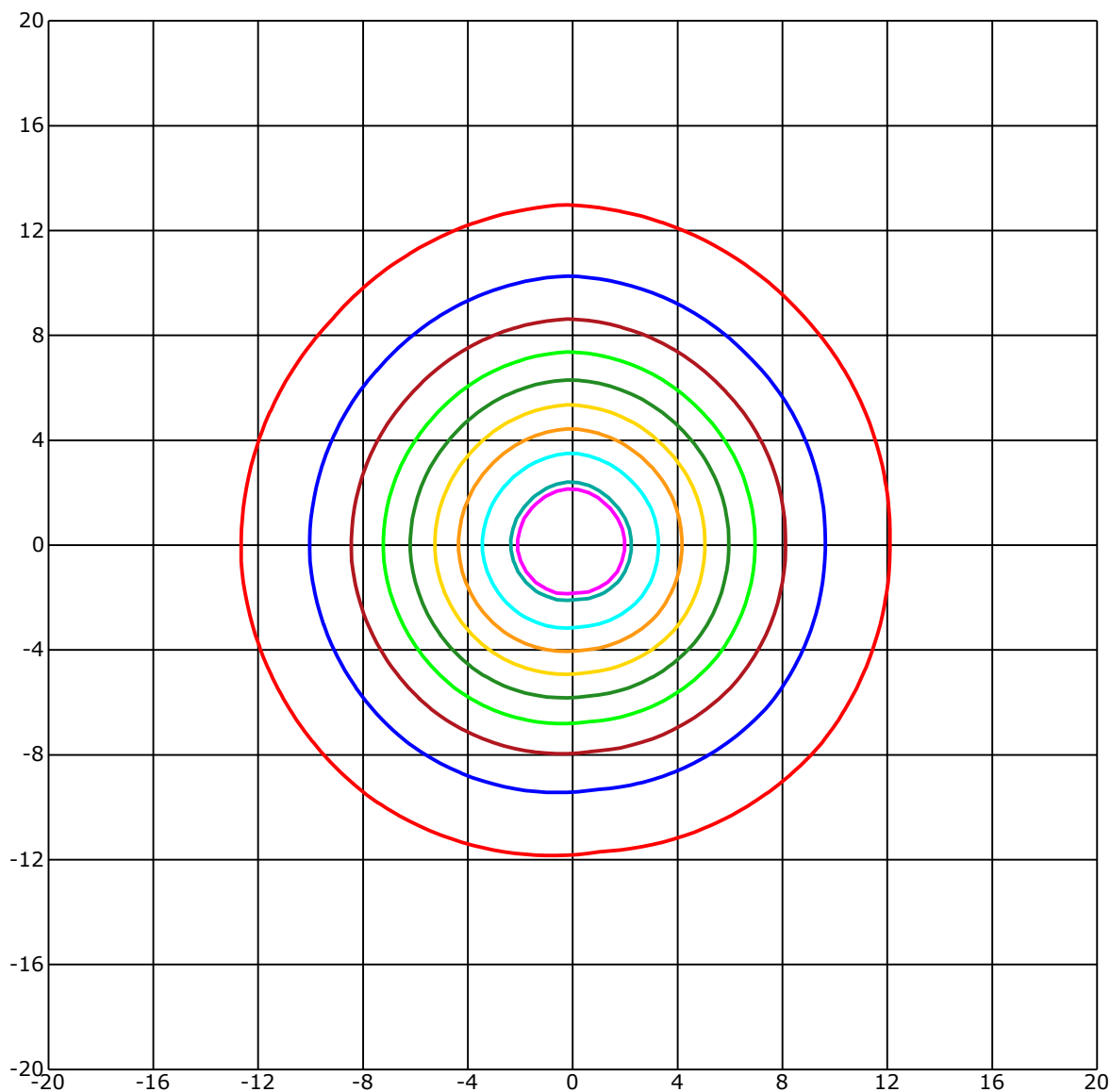
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

5.01(92%Emax)	2.723(50%Emax)
4.901(90%Emax)	2.178(40%Emax)
4.356(80%Emax)	1.634(30%Emax)
3.812(70%Emax)	1.089(20%Emax)
3.267(60%Emax)	0.545(10%Emax)

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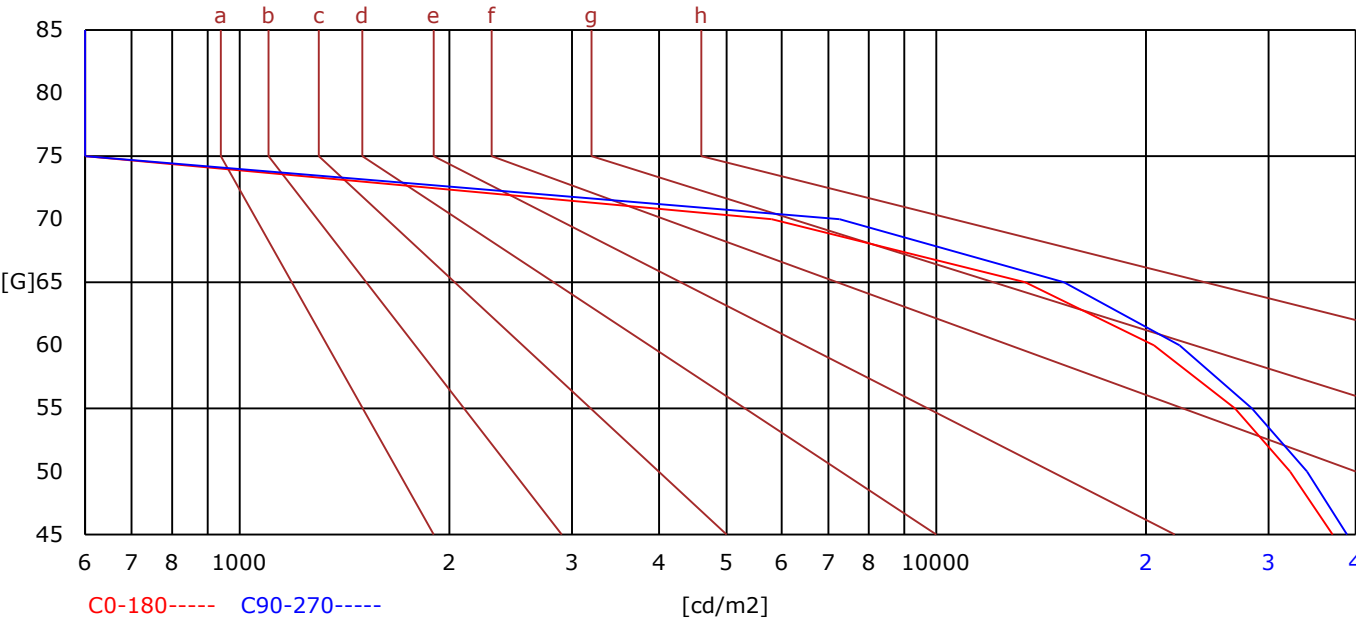
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Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	37042	32183	26824	20535	13414	5806	93	0	0
C90	38861	34036	28398	22349	15248	7266	185	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



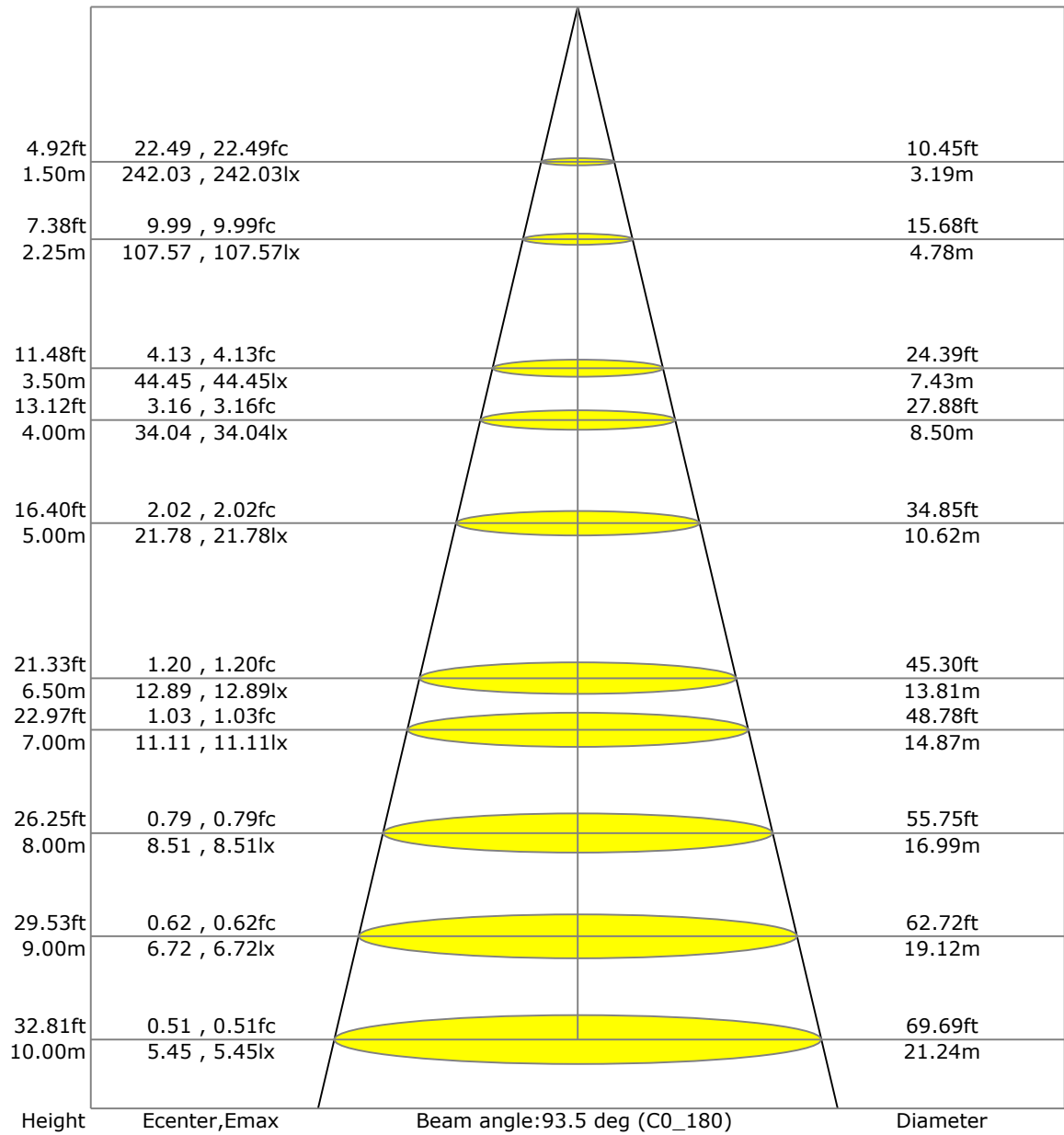
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/8/1 18:45:38

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	19.51	19.58	19.71	19.77	20.01	19.99	20.06	20.19	20.24	20.49
	3H	19.51	19.58	19.72	19.77	20.02	19.97	20.03	20.17	20.22	20.47
	4H	19.49	19.55	19.70	19.75	20.00	19.94	20.01	20.15	20.20	20.45
	6H	19.46	19.52	19.68	19.72	19.98	19.92	19.98	20.13	20.18	20.43
	8H	19.45	19.51	19.67	19.71	19.97	19.90	19.96	20.12	20.17	20.42
	12H	19.44	19.49	19.66	19.70	19.95	19.89	19.95	20.11	20.15	20.41
4H	2H	19.76	19.82	19.97	20.02	20.27	20.52	20.58	20.73	20.78	21.03
	3H	19.75	19.81	19.98	20.02	20.27	20.49	20.55	20.71	20.76	21.01
	4H	19.73	19.78	19.95	19.99	20.25	20.46	20.52	20.69	20.73	20.99
	6H	19.69	19.75	19.93	19.97	20.23	20.43	20.48	20.67	20.70	20.97
	8H	19.68	19.73	19.92	19.95	20.22	20.41	20.46	20.66	20.69	20.95
	12H	19.66	19.71	19.91	19.94	20.21	20.39	20.44	20.64	20.67	20.94
8H	4H	19.72	19.78	19.94	19.99	20.24	20.48	20.54	20.70	20.75	21.00
	6H	19.64	19.68	19.89	19.92	20.20	20.38	20.42	20.63	20.66	20.93
	8H	19.62	19.66	19.88	19.91	20.18	20.36	20.40	20.62	20.65	20.92
	12H	19.60	19.64	19.87	19.89	20.17	20.34	20.38	20.61	20.63	20.91
12H	4H	19.66	19.71	19.91	19.94	20.21	20.40	20.45	20.65	20.68	20.95
	6H	19.62	19.66	19.88	19.91	20.18	20.36	20.40	20.62	20.65	20.92

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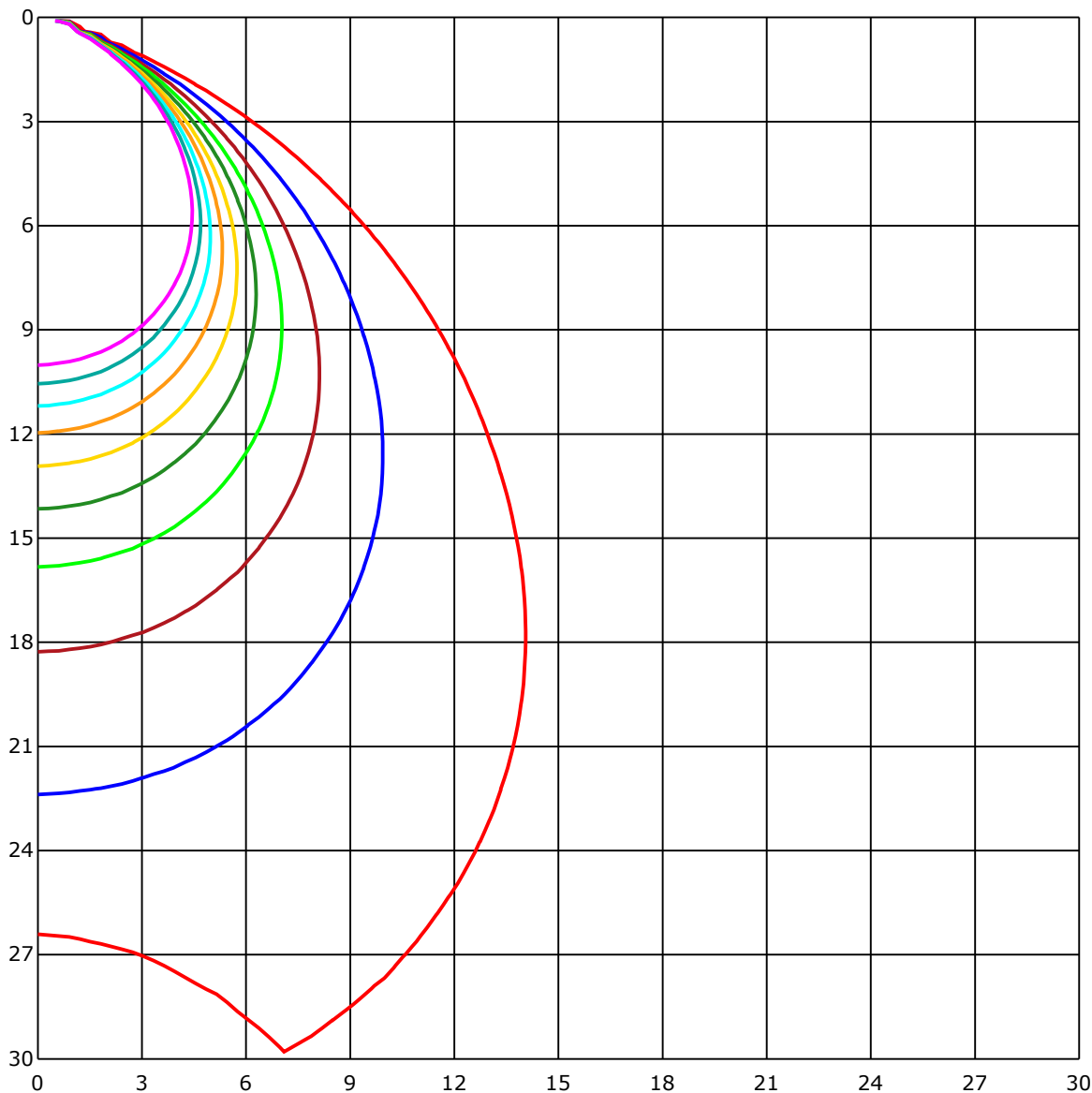
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Humidity: 60
Test Distance: 6.7 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

5.436	2.718
4.892	2.174
4.348	1.631
3.805	1.087
3.261	0.544

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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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	544.56	541.55	541.55	543.93	544.56	541.55	541.55	543.93	544.56	
G1	543.8	543.08	541.69	544.29	544.25	541.87	541.28	544.25	543.8	
G2	543.57	540.74	542.5	544.34	544.43	541.28	540.25	543.21	543.57	
G3	542.09	541.51	543.03	543.3	543.84	542.32	539.89	542.59	542.09	
G4	541.51	539.67	543.39	543.8	544.29	541.28	537.51	540.83	541.51	
G5	540.97	539.94	542.77	542.77	542.94	539.49	536.88	539.89	540.97	
G6	539.94	538.86	542.81	542.09	543.39	538.95	534.77	538.46	539.94	
G7	538.14	538.28	541.78	541.55	541.15	537.33	533.52	536.62	538.14	
G8	536.08	535.58	541.01	540.48	539.98	536.21	530.6	535.45	536.08	
G9	534.28	535.58	540.92	538.86	538.81	534.73	529.7	534.01	534.28	
G10	534.06	532.49	538.23	537.06	538.1	533.07	525.66	531.68	534.06	
G11	530.29	531.45	538.5	535.85	535.54	531.36	525.3	529.07	530.29	
G12	528.36	528.36	535.36	534.42	534.51	528.0	520.5	529.03	528.36	
G13	525.57	525.48	534.46	531.05	531.63	526.47	518.21	525.17	525.57	
G14	522.3	522.74	531.77	529.88	531.32	523.82	514.13	521.8	522.3	
G15	519.69	520.86	530.42	526.51	527.14	520.86	510.35	519.38	519.69	
G16	515.07	517.36	528.36	524.18	525.66	517.04	506.09	516.82	515.07	
G17	511.21	513.81	525.39	520.32	521.8	515.92	502.36	510.98	511.21	
G18	507.39	509.23	521.94	517.85	519.02	510.94	497.38	507.93	507.39	
G19	502.5	505.51	519.11	514.04	515.25	506.13	493.3	504.25	502.5	
G20	499.54	500.61	515.02	509.82	511.57	501.15	487.37	498.41	499.54	
G21	492.8	496.71	511.34	508.33	507.03	497.61	482.39	492.67	492.8	
G22	487.82	491.01	508.47	501.06	502.95	492.22	476.1	488.04	487.82	
G23	481.58	487.55	502.9	497.02	496.84	486.97	470.49	481.31	481.58	
G24	475.56	481.09	498.19	492.71	491.73	481.94	463.67	477.41	475.56	
G25	469.32	475.3	493.25	485.35	485.89	475.03	457.25	469.68	469.32	
G26	463.58	469.5	487.64	480.1	481.71	469.55	450.65	464.48	463.58	
G27	456.44	463.26	482.61	474.76	475.43	463.22	443.47	456.31	456.44	
G28	449.35	457.03	477.09	468.88	469.19	456.71	436.24	450.11	449.35	
G29	442.03	449.8	470.72	461.29	462.91	450.65	428.48	442.17	442.03	
G30	434.63	441.99	464.25	455.01	455.09	443.6	419.63	435.43	434.63	
G31	425.78	435.25	458.69	447.15	448.72	435.79	411.6	426.68	425.78	
G32	417.79	426.9	450.56	441.4	441.4	427.76	402.35	419.0	417.79	
G33	408.63	418.78	444.19	432.38	432.96	419.59	392.52	409.98	408.63	
G34	400.24	410.79	436.24	424.61	424.7	411.15	383.72	401.45	400.24	
G35	390.09	401.72	428.65	414.83	415.95	402.3	373.8	391.76	390.09	
G36	380.76	391.98	420.31	406.25	407.2	392.47	362.62	381.92	380.76	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	369.76	382.96	411.28	396.47	397.95	382.37	353.15	371.02	369.76	
G38	359.66	372.99	402.57	387.45	388.25	372.23	341.34	361.01	359.66	
G39	348.44	362.44	393.42	376.67	377.84	362.17	330.39	349.74	348.44	
G40	337.57	351.35	383.23	367.29	368.32	351.53	318.0	339.95	337.57	
G41	325.9	341.57	373.04	357.41	357.06	340.98	306.24	327.92	325.9	
G42	313.96	329.27	363.16	344.76	346.6	329.04	293.27	316.16	313.96	
G43	301.35	317.69	351.8	332.46	335.42	317.87	281.64	303.77	301.35	
G44	289.5	305.93	340.04	321.41	323.03	305.79	268.62	292.14	289.5	
G45	276.61	294.3	328.68	308.75	310.68	293.0	256.68	279.26	276.61	
G46	264.31	281.86	317.01	296.54	298.56	280.38	243.39	266.92	264.31	
G47	251.52	270.33	306.42	283.62	285.95	267.81	231.45	254.26	251.52	
G48	239.62	257.4	293.04	271.63	273.65	255.83	218.7	241.91	239.62	
G49	226.96	245.28	281.33	258.61	260.68	243.3	206.58	229.66	226.96	
G50	215.07	232.44	267.9	245.82	248.2	231.41	194.33	217.36	215.07	
G51	202.5	221.22	255.78	232.62	236.12	218.7	182.21	205.42	202.5	
G52	190.2	209.37	243.66	220.28	224.63	206.58	169.95	193.3	190.2	
G53	177.99	196.62	231.86	208.11	211.75	194.24	158.64	181.13	177.99	
G54	166.14	184.23	219.11	195.77	199.58	181.89	146.25	169.41	166.14	
G55	153.93	172.87	206.76	183.02	187.28	169.64	134.8	157.79	153.93	
G56	142.93	160.84	194.96	171.3	175.39	157.65	123.81	146.16	142.93	
G57	131.26	149.57	182.88	159.36	162.91	145.94	112.9	134.13	131.26	
G58	120.04	138.17	171.08	148.18	151.19	134.04	101.86	122.91	120.04	
G59	108.9	126.63	159.4	136.69	139.07	122.46	91.58	111.87	108.9	
G60	98.35	115.37	147.46	125.56	127.76	111.46	81.39	101.23	98.35	
G61	87.94	104.82	136.06	114.42	116.49	100.73	71.55	90.5	87.94	
G62	78.29	93.78	124.79	103.56	105.22	89.96	62.26	80.22	78.29	
G63	68.68	83.41	113.44	92.52	94.04	79.77	53.33	70.25	68.68	
G64	59.3	73.53	102.48	82.55	83.85	69.85	43.9	60.6	59.3	
G65	50.41	63.7	92.07	72.41	73.71	60.38	35.82	51.49	50.41	
G66	41.25	54.41	81.43	62.53	63.97	51.13	28.24	42.56	41.25	
G67	32.95	45.61	70.79	53.28	54.14	42.38	20.96	34.39	32.95	
G68	25.95	37.08	60.96	44.08	44.85	34.34	14.68	27.11	25.95	
G69	19.12	29.36	51.85	35.73	36.5	26.89	9.2	20.47	19.12	
G70	12.88	22.31	42.69	27.92	28.73	19.93	4.8	14.54	12.88	
G71	7.63	15.89	34.66	20.83	21.73	14.05	1.62	9.38	7.63	
G72	3.59	10.37	27.02	14.19	15.31	9.38	0.18	5.75	3.59	
G73	0.81	5.61	20.34	8.44	10.15	5.84	0.0	3.86	0.81	

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Test Distance: 6.7 m
Remarks:

Test Time: 2024/8/1 18:45:38

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: 2024/8/1 18:45:38

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