

Report No.:

Test Time: 2024/10/26 15:37:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 80 mm

Voltage(V): 219.90 V
Current(A): 0.2390 A
Power(W): 51.13 W
Power Factor: 0.9680
Lamp Luminous Flux: 4309.48

Photometric Results

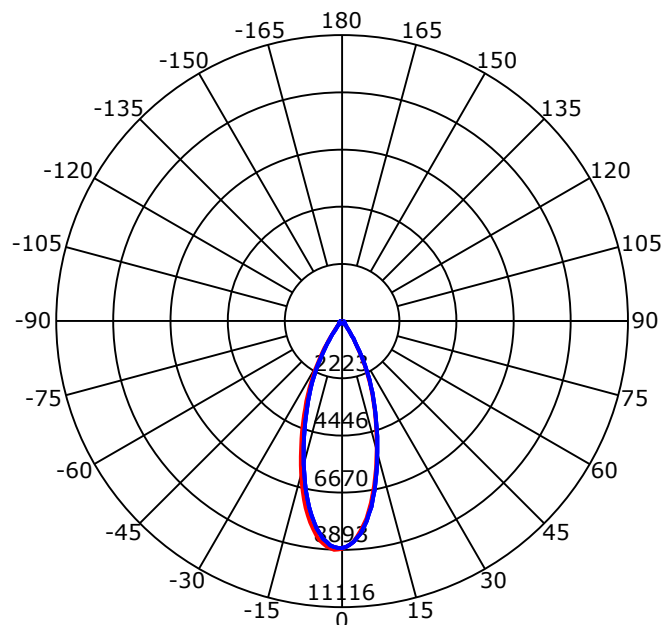
CIE Class: Direct
Luminaire Luminous Flux: 4309.481 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 84.28 lm/W
Beam Angle(50%) C0-180,C90-270: 37.7,37.0
Field Angle(10%) C0-180,C90-270: 67.4,66.6
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 8892.71 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8859.27 cd
Effective Luminous Flux: 3794.21 lm
ERP(ϕ use)(120deg): 4251.29 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.7 deg,37.0 deg

C0-180 — C90-270

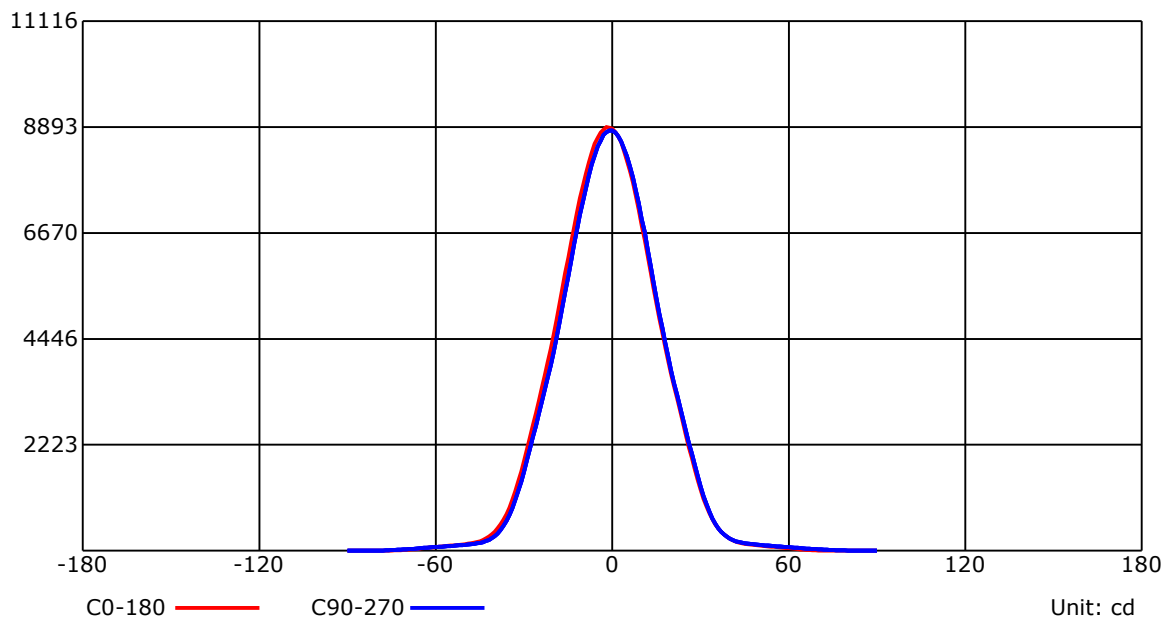
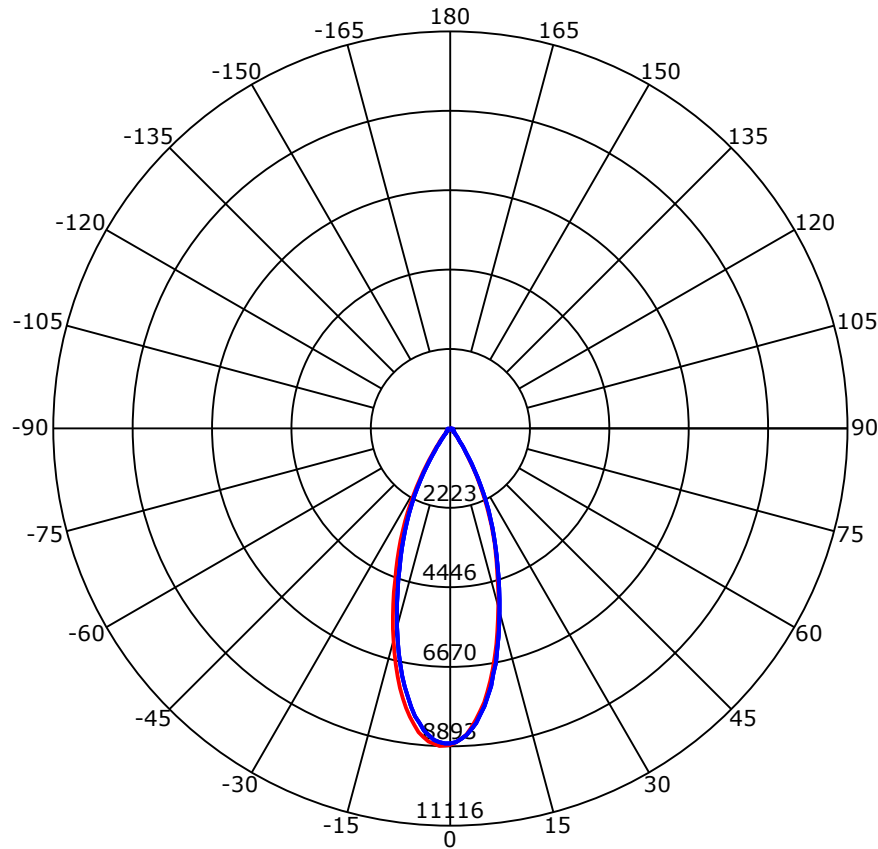
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:37:24

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



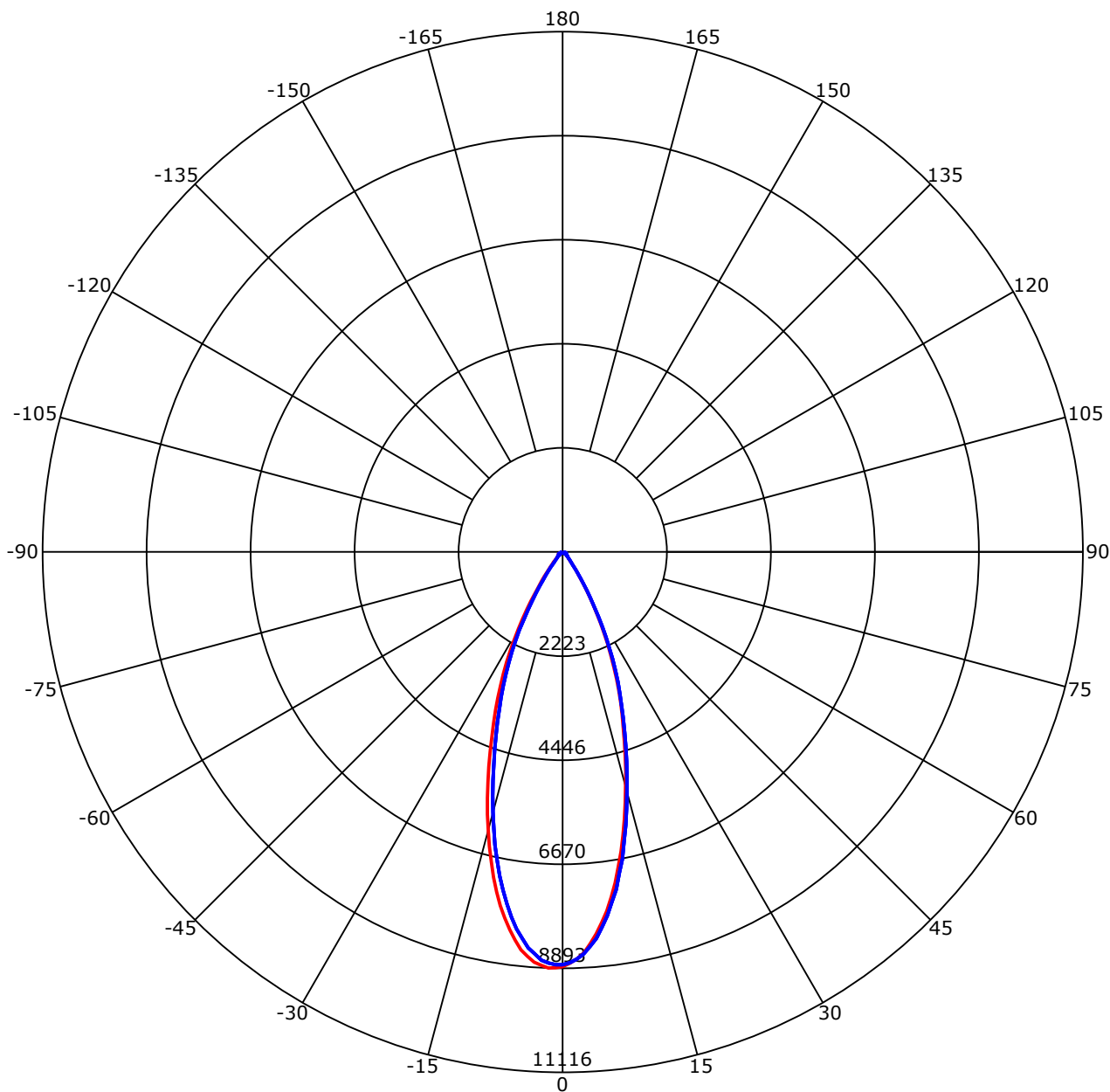
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Temperature: 25
Operators: QC01
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Luminous Intensity Distribution Curve



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: 2024/10/26 15:37:24

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

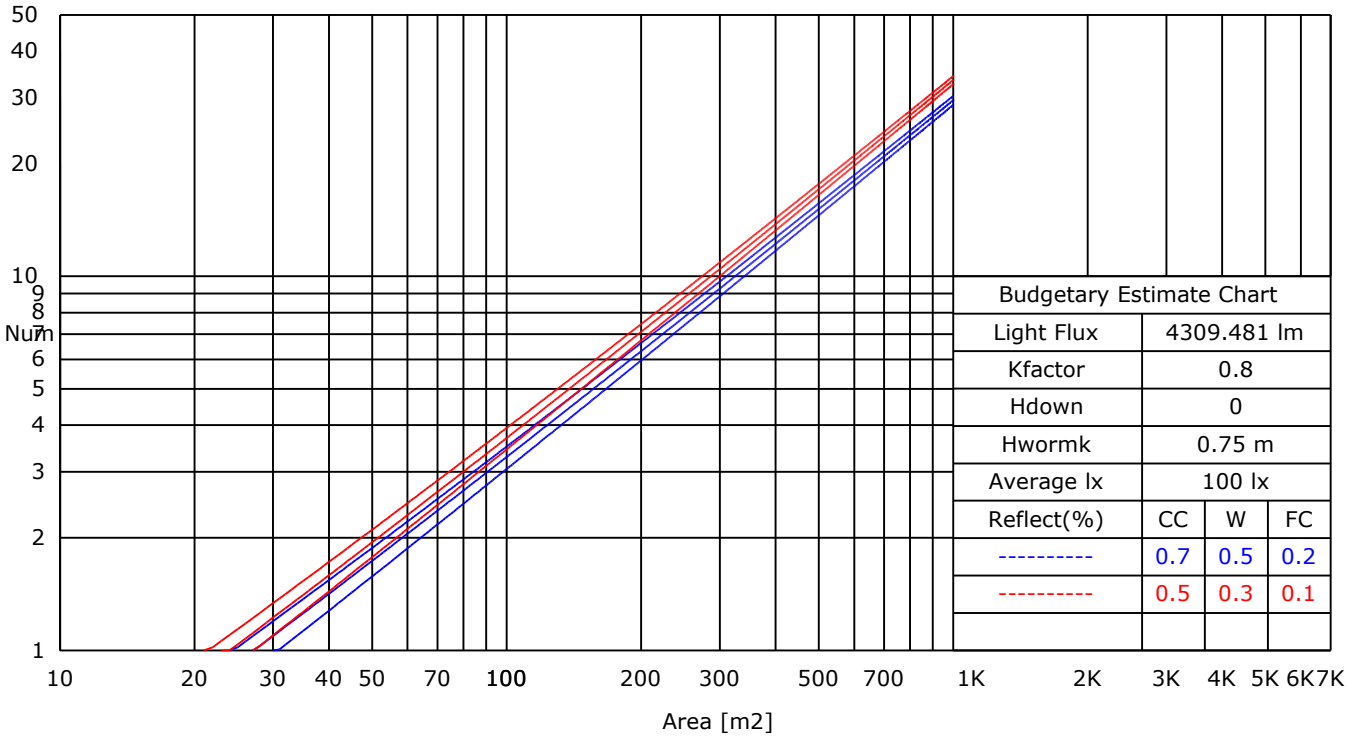
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UTILIZATION FACTORS TABLE

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	1.00	0.98	0.96	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.85	0.82	0.80	0.75
2	0.96	0.94	0.92	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
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	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.72	0.68
5	0.86	0.85	0.83	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.69	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.71	0.70	0.72	0.68	0.66	0.70	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.73	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



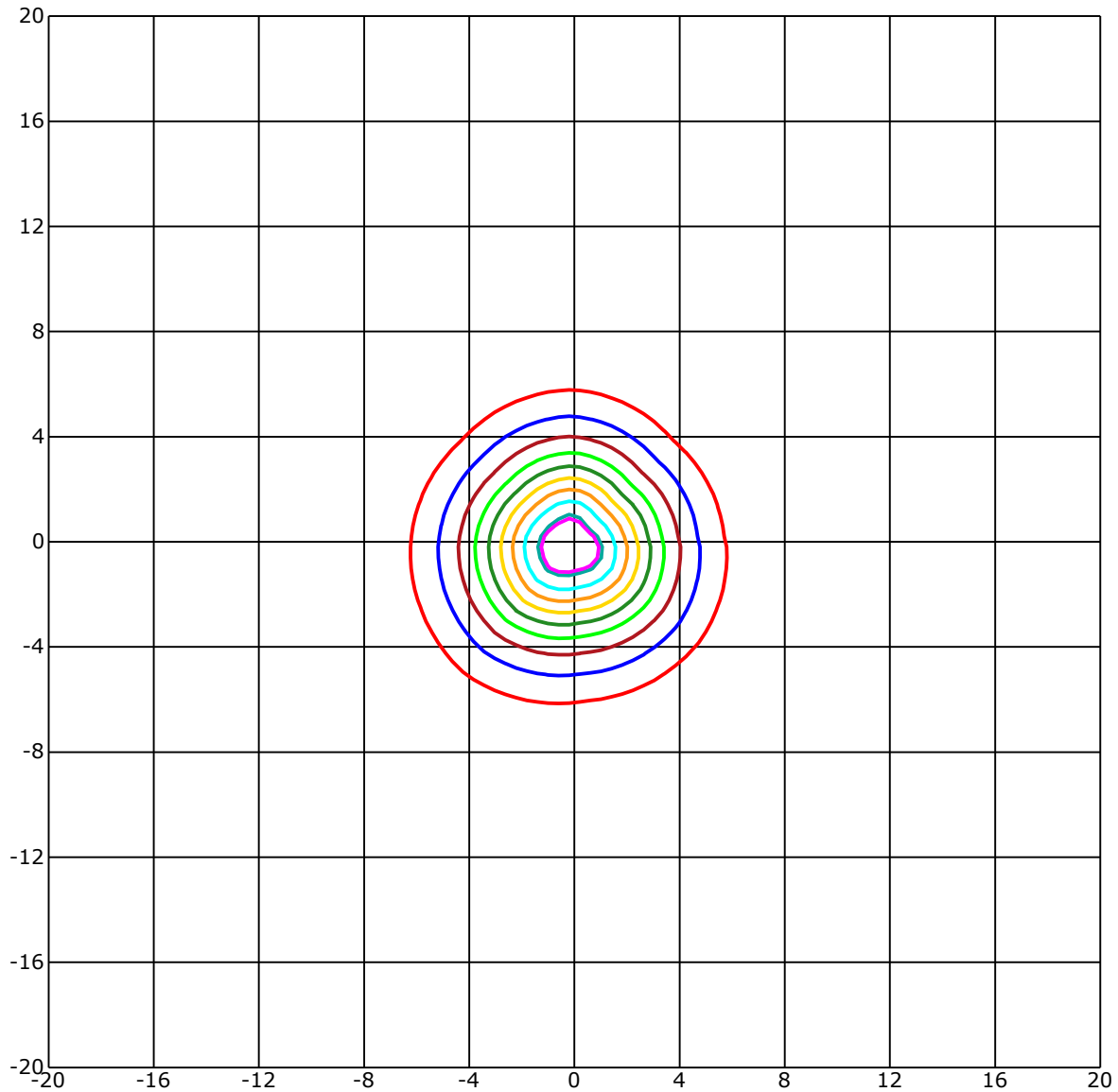
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Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:37:24

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:37:24

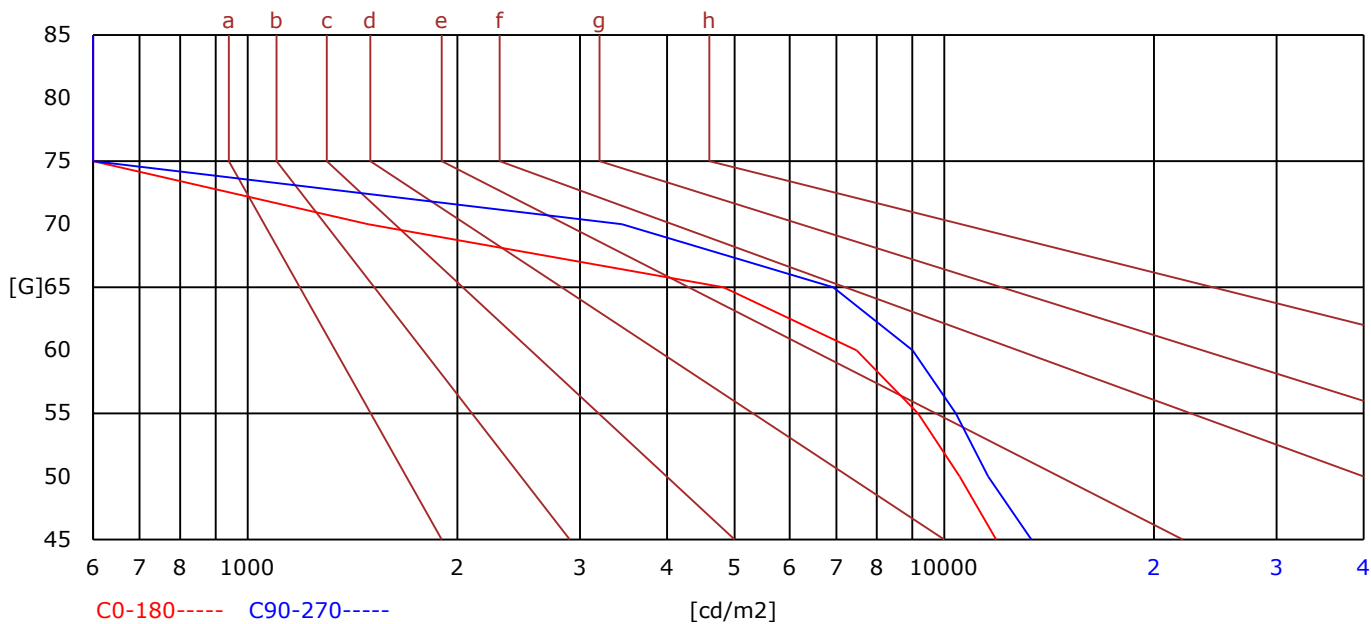
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11868	10525	9173	7487	4818	1490	0	0	0
C90	13330	11561	10392	9002	6927	3445	334	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



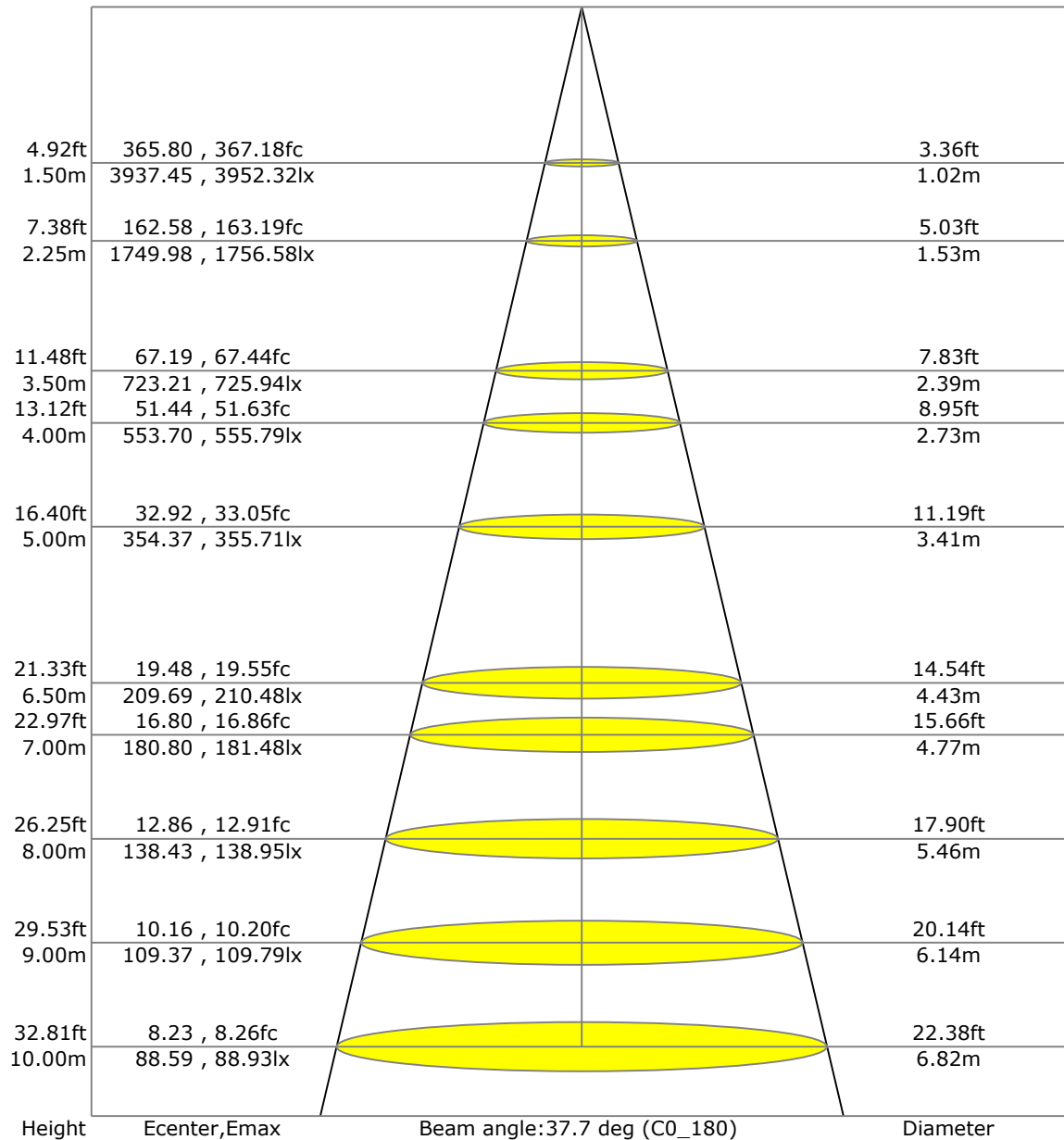
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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Remarks:

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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: 2024/10/26 15:37:24

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	5.90	5.96	6.10	6.14	6.39	6.13	6.18	6.33	6.37	6.61
3H	5.91	5.96	6.12	6.16	6.40	6.12	6.17	6.33	6.36	6.61
4H	5.90	5.95	6.11	6.15	6.40	6.10	6.16	6.31	6.35	6.60
6H	5.88	5.94	6.10	6.14	6.39	6.09	6.14	6.30	6.34	6.59
8H	5.87	5.93	6.09	6.13	6.38	6.08	6.13	6.30	6.34	6.59
12H	5.86	5.92	6.09	6.12	6.38	6.07	6.12	6.29	6.33	6.58
4H 2H	6.04	6.10	6.25	6.29	6.54	6.66	6.71	6.87	6.90	7.15
3H	6.04	6.10	6.26	6.30	6.56	6.63	6.69	6.86	6.89	7.15
4H	6.02	6.08	6.25	6.29	6.55	6.61	6.67	6.84	6.88	7.14
6H	6.00	6.05	6.24	6.27	6.54	6.59	6.64	6.83	6.86	7.13
8H	5.99	6.04	6.23	6.27	6.53	6.58	6.63	6.82	6.86	7.12
12H	5.98	6.03	6.22	6.26	6.53	6.57	6.62	6.82	6.85	7.12
8H 4H	6.02	6.07	6.24	6.27	6.53	6.65	6.70	6.87	6.91	7.16
6H	5.96	6.01	6.22	6.25	6.52	6.57	6.62	6.83	6.86	7.13
8H	5.95	5.99	6.21	6.24	6.52	6.56	6.60	6.82	6.85	7.13
12H	5.93	5.97	6.20	6.23	6.51	6.54	6.59	6.81	6.84	7.12
12H 4H	5.98	6.03	6.22	6.26	6.53	6.59	6.64	6.84	6.87	7.14
6H	5.95	5.99	6.21	6.24	6.52	6.56	6.60	6.82	6.85	7.13

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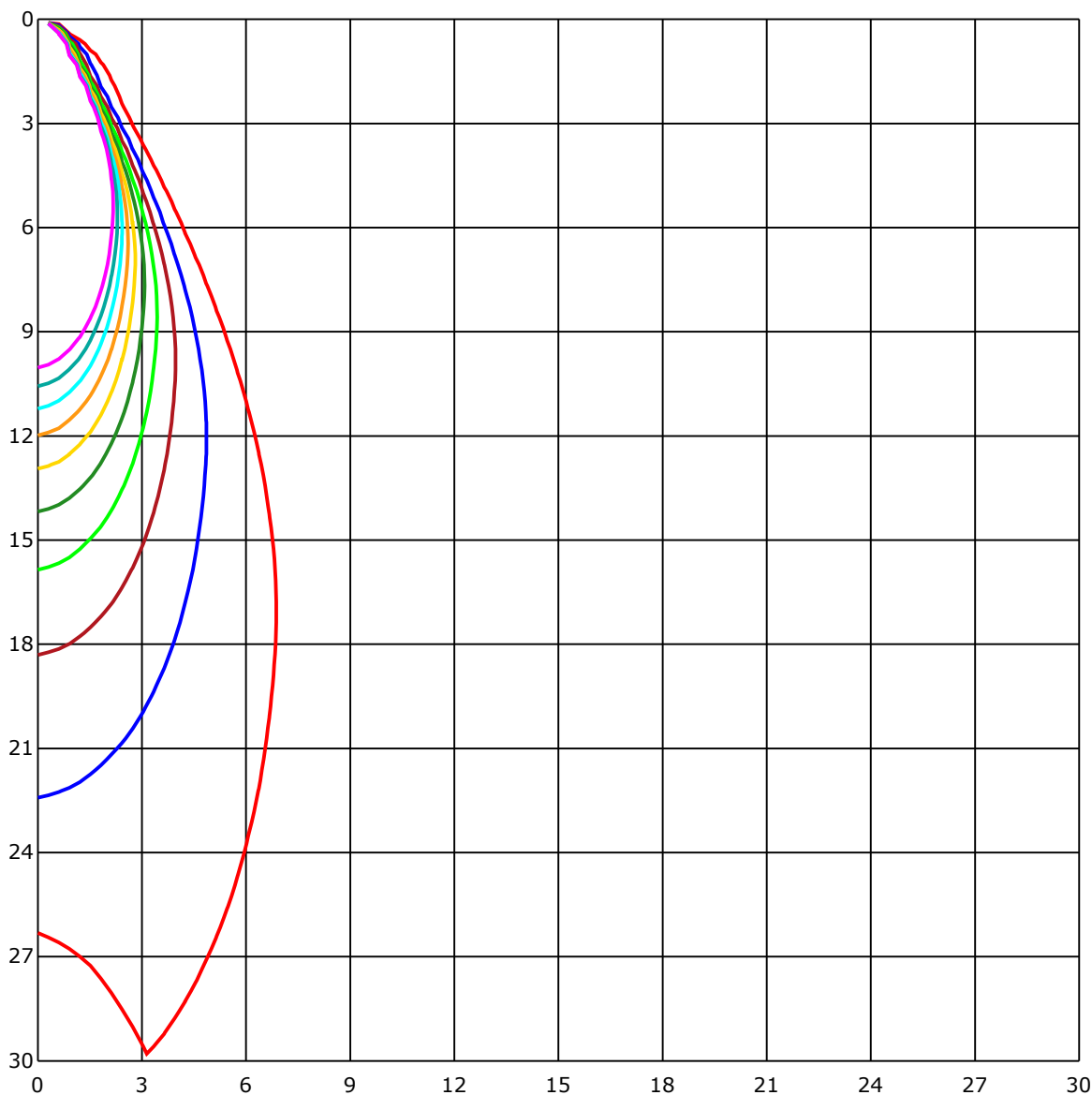
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Humidity: 60
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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

88.11	44.055
79.299	35.244
70.488	26.433
61.677	17.622
52.866	8.811

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8859.27	8684.39	8816.75	8828.8	8859.27	8684.39	8816.75	8828.8	8859.27	
G1	8786.65	8570.81	8776.72	8813.27	8881.63	8781.31	8817.53	8835.67	8786.65	
G2	8695.89	8432.85	8699.23	8728.07	8892.71	8834.6	8784.47	8795.37	8695.89	
G3	8575.17	8239.27	8592.1	8623.4	8840.49	8820.73	8729.93	8728.72	8575.17	
G4	8390.27	8028.26	8439.2	8469.34	8781.27	8801.49	8603.51	8620.48	8390.27	
G5	8187.05	7774.54	8283.65	8297.7	8670.48	8730.07	8491.46	8495.5	8187.05	
G6	7958.09	7518.08	8055.67	8091.28	8544.19	8645.02	8290.56	8307.17	7958.09	
G7	7726.17	7224.79	7830.14	7861.77	8352.89	8505.84	8109.93	8116.61	7726.17	
G8	7444.34	6924.83	7555.08	7612.54	8146.84	8337.36	7873.69	7890.62	7444.34	
G9	7153.0	6602.15	7296.4	7322.46	7915.89	8146.7	7612.59	7638.28	7153.0	
G10	6829.39	6269.45	6961.84	7028.99	7671.81	7925.07	7340.08	7379.23	6829.39	
G11	6513.11	5936.37	6678.76	6714.98	7398.47	7676.03	7049.86	7096.89	6513.11	
G12	6186.2	5607.8	6318.14	6382.19	7105.24	7410.9	6736.69	6772.63	6186.2	
G13	5855.26	5267.07	5986.69	6057.0	6787.47	7116.37	6430.37	6456.02	5855.26	
G14	5515.46	4948.1	5639.52	5701.71	6479.11	6823.55	6088.81	6124.71	5515.46	
G15	5193.71	4629.08	5304.87	5374.81	6147.99	6496.83	5760.89	5815.1	5193.71	
G16	4880.99	4331.99	4984.83	5032.32	5832.17	6184.95	5424.89	5476.23	4880.99	
G17	4561.92	4030.64	4672.72	4705.46	5496.31	5849.65	5100.26	5147.79	4561.92	
G18	4260.2	3763.0	4356.01	4396.46	5169.13	5535.41	4770.29	4826.64	4260.2	
G19	3980.55	3484.79	4071.5	4094.04	4843.94	5195.0	4462.08	4524.36	3980.55	
G20	3705.27	3237.98	3781.23	3807.15	4529.32	4871.81	4162.86	4213.55	3705.27	
G21	3455.53	2992.0	3514.01	3543.27	4232.7	4563.64	3884.42	3937.33	3455.53	
G22	3195.59	2748.02	3269.1	3287.37	3946.7	4269.43	3617.71	3675.68	3195.59	
G23	2943.45	2498.84	3016.21	3033.37	3671.69	3972.9	3368.85	3419.82	2943.45	
G24	2686.71	2257.68	2770.09	2781.82	3416.16	3704.99	3121.48	3167.72	2686.71	
G25	2424.68	2015.32	2524.34	2540.16	3149.12	3444.03	2880.79	2919.1	2424.68	
G26	2182.0	1782.6	2274.1	2284.72	2892.34	3200.79	2624.61	2665.19	2182.0	
G27	1943.53	1558.28	2038.32	2043.28	2631.89	2948.41	2383.04	2415.31	1943.53	
G28	1708.87	1351.54	1800.41	1805.93	2382.25	2704.05	2142.21	2173.46	1708.87	
G29	1487.56	1151.57	1574.33	1574.7	2140.58	2455.38	1910.32	1931.43	1487.56	
G30	1282.62	977.19	1350.43	1357.61	1895.39	2210.7	1671.44	1699.04	1282.62	
G31	1091.28	820.16	1150.82	1159.31	1664.9	1972.28	1447.63	1482.0	1091.28	
G32	924.92	686.97	970.42	976.26	1447.12	1741.75	1247.38	1271.54	924.92	
G33	783.2	576.22	815.57	822.2	1245.89	1524.71	1061.13	1085.62	783.2	
G34	658.22	488.76	677.0	683.86	1067.16	1320.61	892.14	918.9	658.22	
G35	554.52	409.32	565.74	573.3	904.7	1123.69	746.93	773.55	554.52	
G36	470.53	350.46	472.8	479.9	767.66	953.35	624.87	648.01	470.53	

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Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	398.6	299.68	395.4	401.48	647.41	805.0	519.46	545.89	398.6	
G38	338.92	260.45	335.39	336.92	550.81	679.41	429.72	458.71	338.92	
G39	291.84	228.26	288.37	290.08	469.47	573.63	360.16	390.44	291.84	
G40	251.08	204.1	251.73	248.67	397.72	488.15	304.78	337.53	251.08	
G41	216.62	184.07	220.52	220.52	343.18	412.79	262.07	291.84	216.62	
G42	190.74	169.83	198.63	196.68	295.93	353.62	226.73	255.81	190.74	
G43	171.08	157.91	180.87	178.22	254.7	305.11	200.62	229.89	171.08	
G44	156.1	148.5	168.53	165.38	221.77	267.22	179.01	206.98	156.1	
G45	145.48	139.73	157.68	156.94	199.46	238.14	165.01	191.02	145.48	
G46	137.04	132.96	149.1	146.97	181.33	215.42	153.41	177.2	137.04	
G47	127.63	127.53	143.21	141.03	169.09	195.29	144.88	166.81	127.63	
G48	120.3	122.62	134.82	133.7	156.52	180.91	137.04	157.91	120.3	
G49	112.97	116.45	128.97	128.23	147.38	169.74	130.5	150.17	112.97	
G50	107.69	112.65	121.69	123.73	138.71	160.88	123.36	143.35	107.69	
G51	101.61	105.83	118.17	118.21	130.09	152.35	118.4	138.94	101.61	
G52	95.72	101.29	111.16	113.58	124.61	145.99	112.79	131.48	95.72	
G53	91.73	96.18	106.71	108.98	116.64	139.36	107.96	127.07	91.73	
G54	85.75	92.38	100.91	103.93	111.07	134.17	103.05	120.95	85.75	
G55	79.95	87.6	96.32	99.24	106.11	127.86	98.83	117.05	79.95	
G56	75.27	82.73	92.52	93.87	100.64	123.17	94.61	110.33	75.27	
G57	69.38	77.08	87.51	91.08	93.96	118.12	90.43	106.25	69.38	
G58	64.32	73.78	82.83	84.5	88.3	114.32	85.33	100.4	64.32	
G59	58.53	66.83	78.98	80.37	82.64	106.99	82.09	96.51	58.53	
G60	53.47	62.33	74.71	74.94	77.22	101.8	77.12	89.88	53.47	
G61	48.09	56.9	70.49	69.75	71.74	97.02	73.55	84.82	48.09	
G62	41.37	51.25	65.62	64.56	66.41	92.33	68.45	79.4	41.37	
G63	33.07	46.56	60.89	61.36	60.1	86.58	63.54	73.97	33.07	
G64	25.0	40.07	55.14	53.98	54.72	81.39	59.22	67.85	25.0	
G65	20.08	33.9	49.81	48.74	46.93	75.96	54.45	62.75	20.08	
G66	16.6	28.89	45.45	43.22	38.58	70.82	46.28	56.3	16.6	
G67	13.03	22.21	42.81	37.66	30.79	64.65	42.3	51.2	13.03	
G68	9.74	17.58	37.98	31.58	25.97	58.11	38.17	43.36	9.74	
G69	6.26	12.34	34.5	26.76	22.49	52.5	34.46	37.33	6.26	
G70	3.8	8.49	31.35	19.62	19.2	46.7	31.26	31.49	3.8	
G71	1.62	5.1	28.43	15.35	14.79	40.16	28.52	25.0	1.62	
G72	0.0	3.25	24.07	10.02	11.78	33.81	23.65	19.06	0.0	
G73	0.0	0.0	19.9	6.86	8.72	27.55	20.22	15.58	0.0	

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:

Test Time: 2024/10/26 15:37:24

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: