

Report No.:

Test Time: 2024/5/23 14:31:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H74-23°-10.7W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

Voltage(V): 220.10 V
Current(A): 0.0530 A
Power(W): 10.74 W
Power Factor: 0.9190
Lamp Luminous Flux: 1161.80

Photometric Results

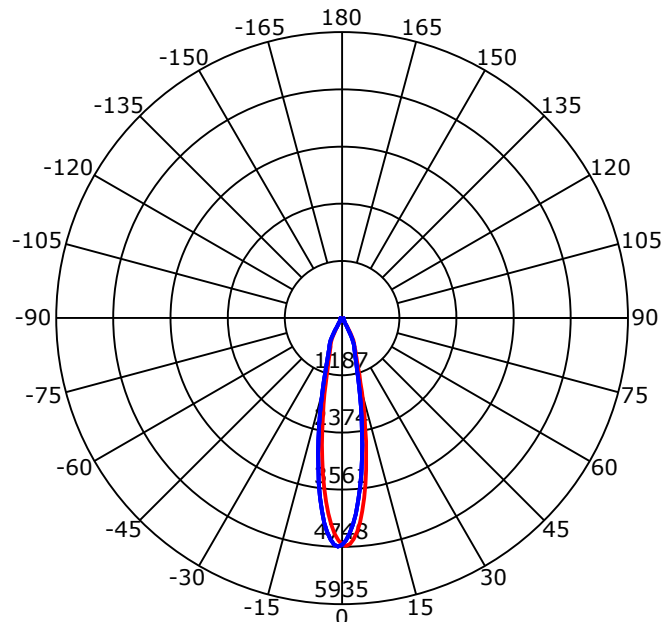
CIE Class: Direct
Luminaire Luminous Flux: 1161.802 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.18 lm/W
Beam Angle(50%) C0-180,C90-270: 21.9,21.8
Field Angle(10%) C0-180,C90-270: 53.4,53.9
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4748.02 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4700.97 cd
Effective Luminous Flux: 931.78 lm
ERP(ϕ use)(120deg): 1118.65 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.9 deg,21.8 deg

C0-180 — C90-270 —

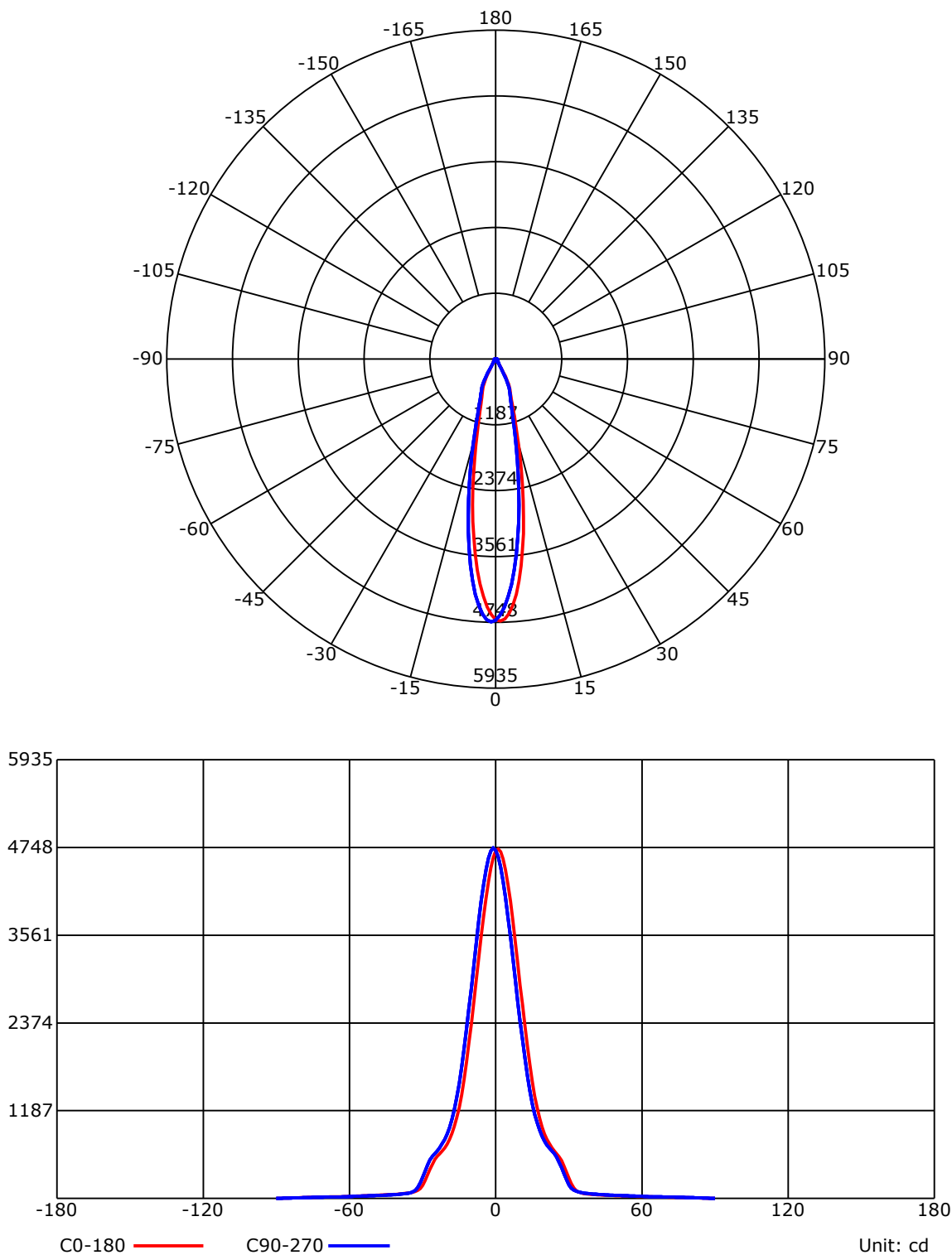
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:31:00

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

Report No.:

Test Time: 2024/5/23 14:31:00

Luminous Intensity Distribution Curve



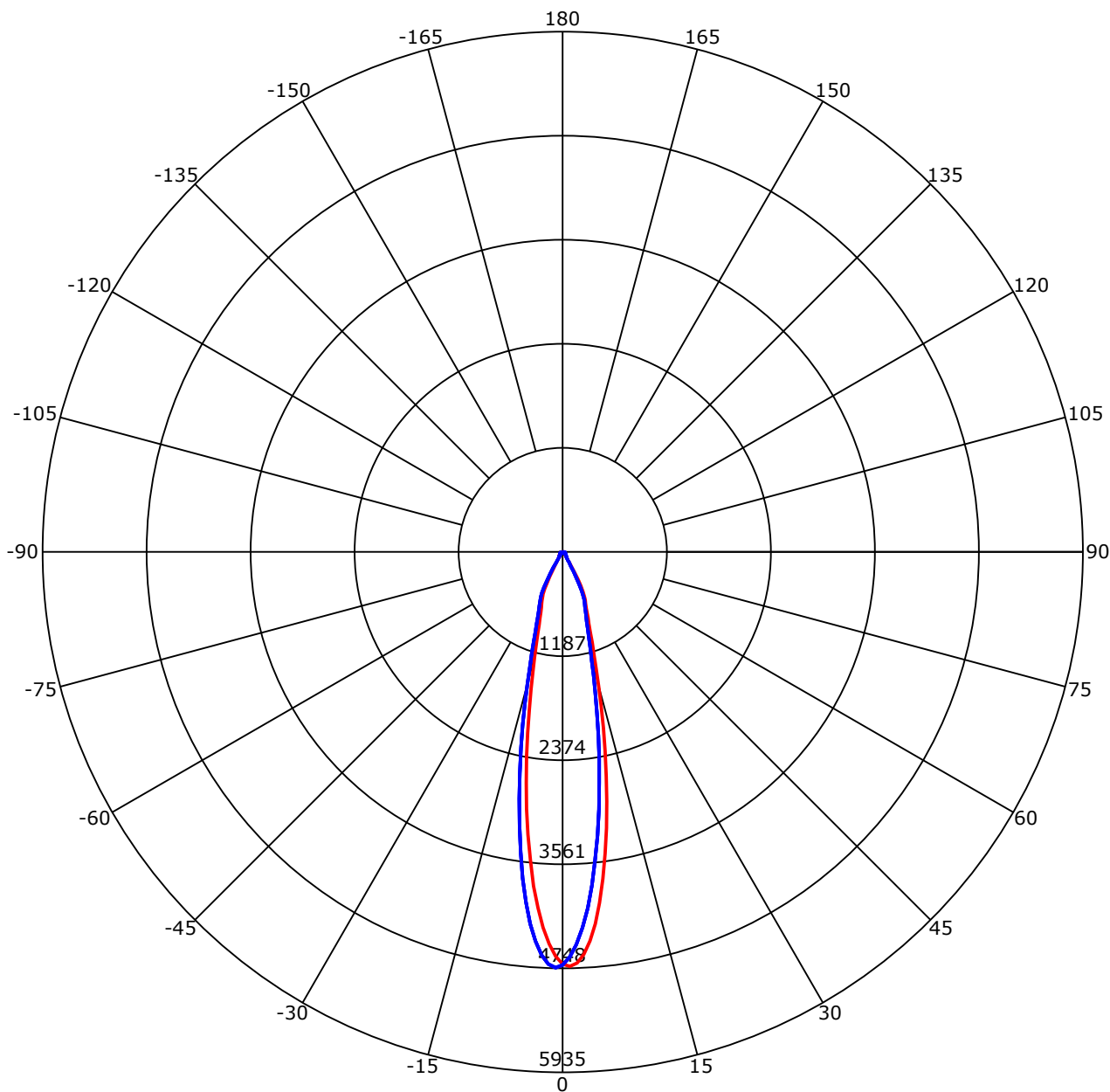
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:31:00

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: 2024/5/23 14:31:00

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

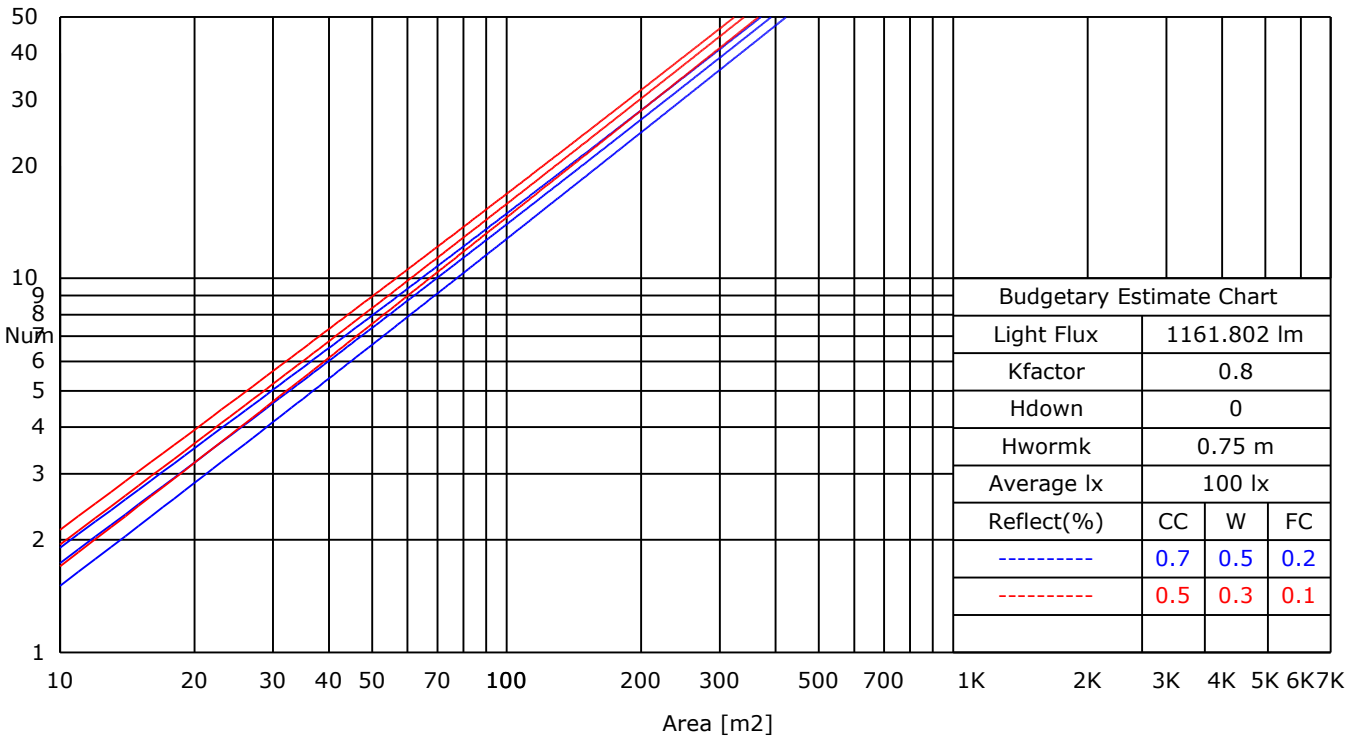
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UTILIZATION FACTORS TABLE

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	0.91	0.88	0.86	0.91	0.87	0.85	0.88	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.66
2	0.85	0.82	0.80	0.84	0.81	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
3	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.59
4	0.77	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.65	0.71	0.66	0.62	0.57
5	0.75	0.73	0.71	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.63	0.69	0.64	0.60	0.56
6	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.61	0.67	0.62	0.58	0.54
7	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
8	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.66	0.61	0.58	0.64	0.59	0.55	0.52
9	0.67	0.66	0.65	0.67	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.62	0.58	0.54	0.51
10	0.66	0.64	0.63	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



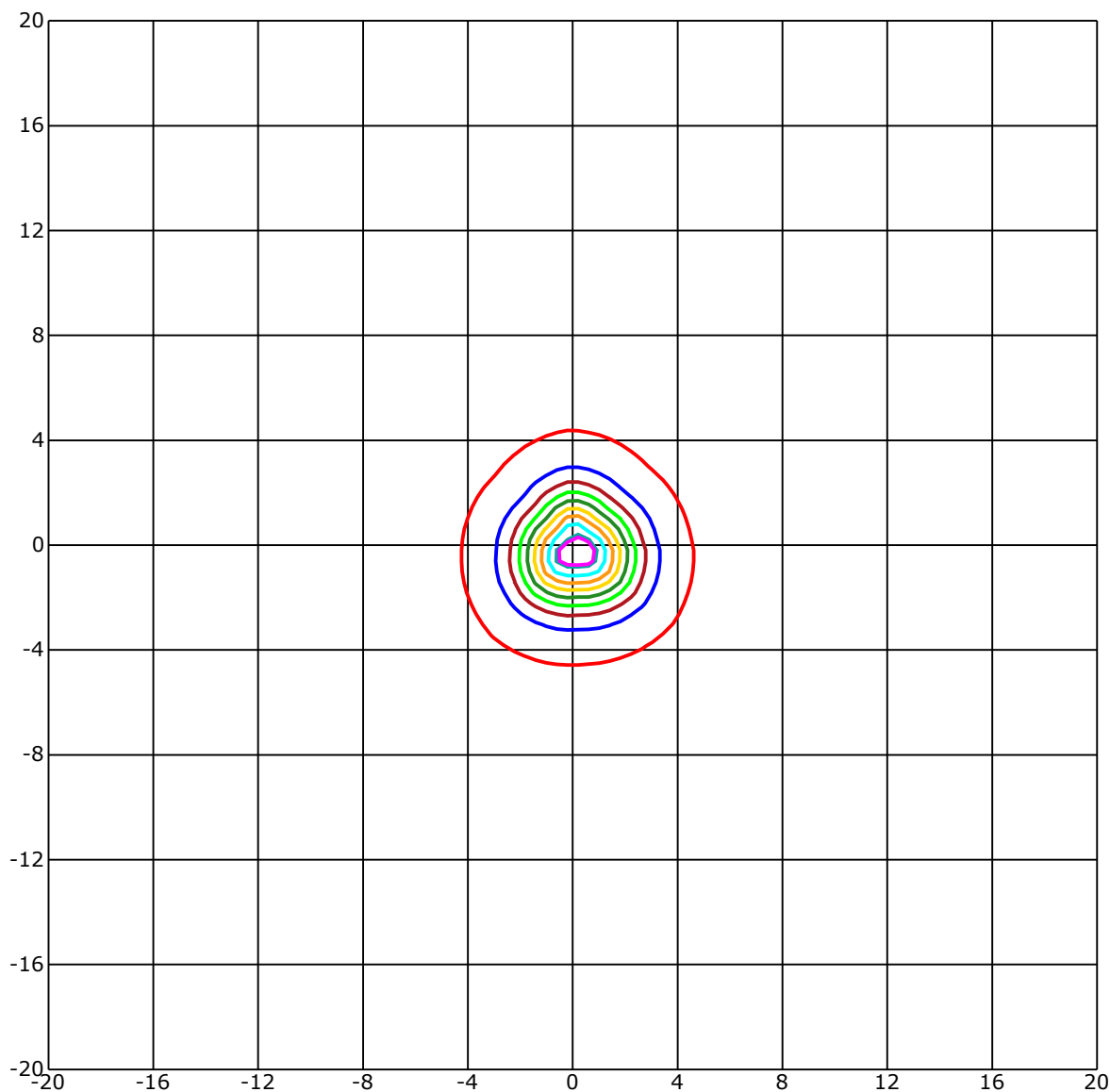
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:31:00

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:31:00

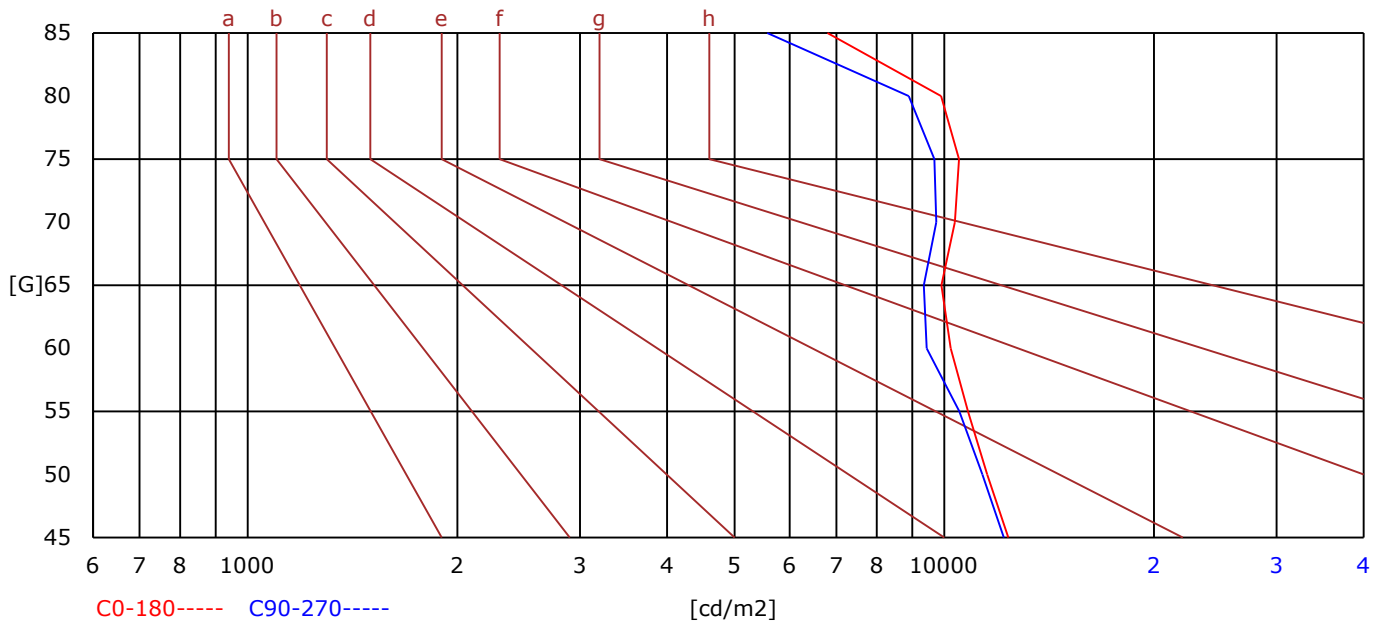
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12356	11524	10815	10213	9901	10360	10503	9895	6795
C90	12178	11342	10511	9436	9349	9736	9677	8889	5569
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



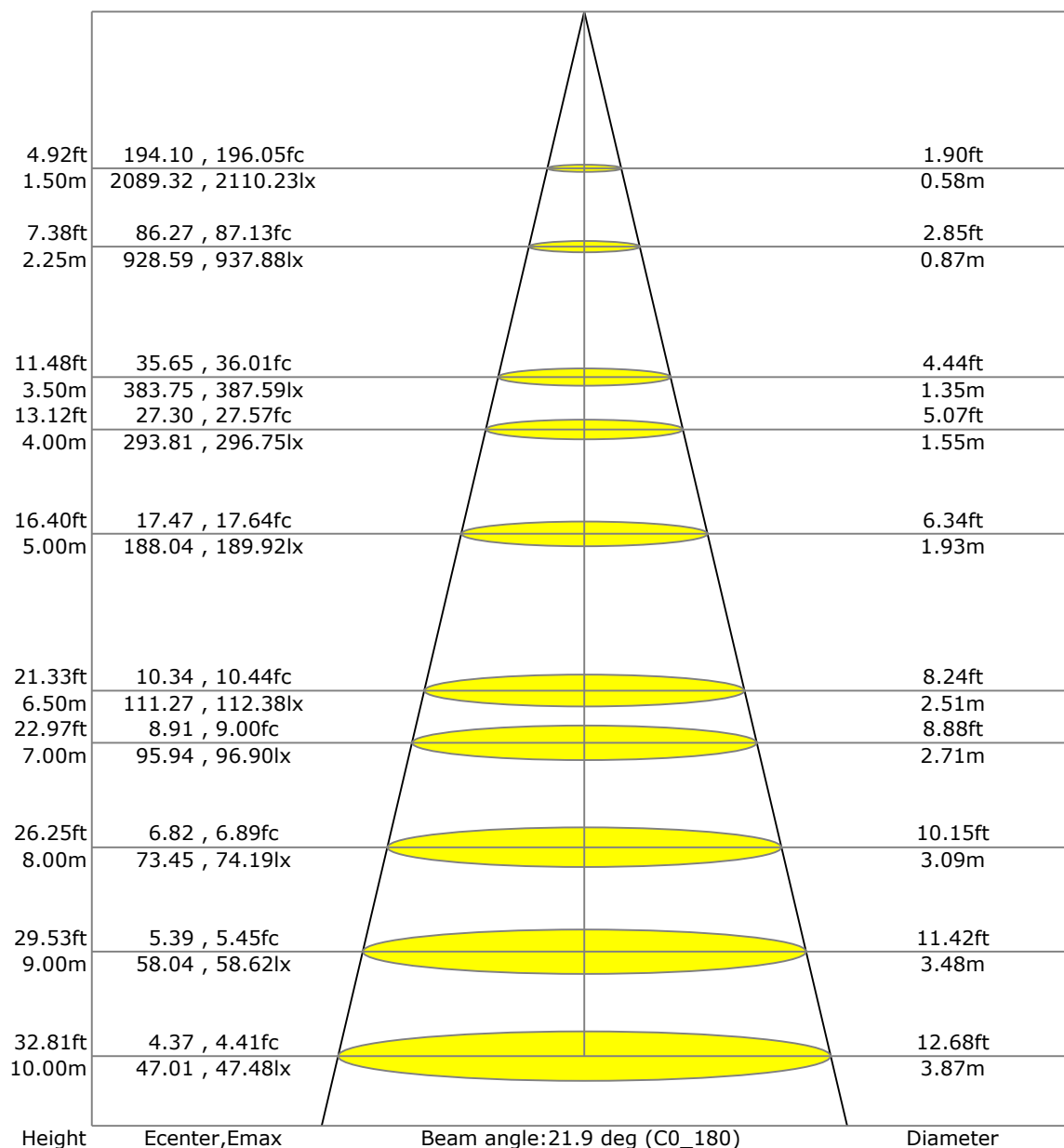
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:31:00

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

Report No.:

Test Time: 2024/5/23 14:31:00

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 14:31:00

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	10.31	10.37	10.51	10.56	10.80	10.48	10.54	10.68	10.73	10.97
3H	10.50	10.57	10.71	10.76	11.00	10.65	10.71	10.85	10.90	11.15
4H	10.55	10.61	10.76	10.80	11.05	10.68	10.74	10.89	10.94	11.19
6H	10.55	10.61	10.76	10.81	11.06	10.68	10.74	10.90	10.94	11.20
8H	10.54	10.60	10.76	10.81	11.06	10.67	10.73	10.89	10.94	11.19
12H	10.53	10.59	10.75	10.80	11.05	10.66	10.72	10.88	10.93	11.19
4H 2H	12.69	12.75	12.90	12.94	13.19	13.01	13.08	13.22	13.27	13.52
3H	13.08	13.15	13.31	13.35	13.61	13.38	13.44	13.60	13.65	13.90
4H	13.19	13.26	13.42	13.47	13.73	13.47	13.54	13.70	13.75	14.01
6H	13.24	13.30	13.48	13.52	13.79	13.51	13.57	13.75	13.79	14.06
8H	13.24	13.30	13.49	13.53	13.80	13.50	13.57	13.75	13.79	14.06
12H	13.23	13.29	13.48	13.53	13.80	13.49	13.55	13.74	13.79	14.06
8H 4H	13.45	13.52	13.67	13.72	13.97	13.88	13.95	14.10	14.15	14.40
6H	14.29	14.35	14.55	14.59	14.87	14.67	14.73	14.93	14.97	15.25
8H	14.31	14.37	14.58	14.62	14.89	14.69	14.74	14.95	14.99	15.27
12H	14.31	14.37	14.59	14.62	14.91	14.68	14.74	14.95	14.99	15.27
12H 4H	14.37	14.43	14.62	14.67	14.94	14.85	14.91	15.10	15.14	15.42
6H	14.51	14.57	14.77	14.81	15.09	14.98	15.04	15.25	15.29	15.56

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Test Distance: 6.7 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

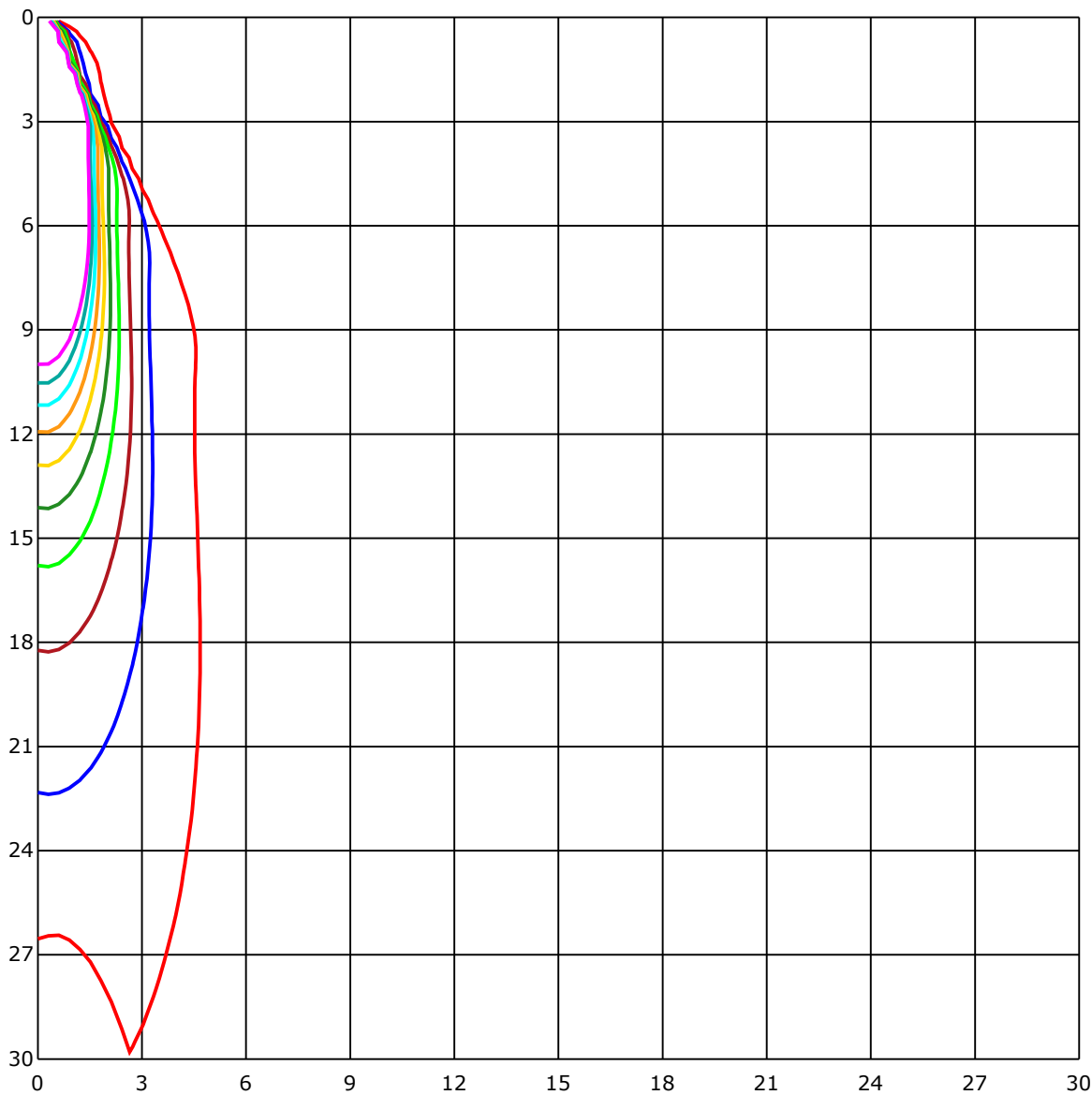
C Range: 0 - 360 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

47.153
42.438
37.723
33.007
28.292

23.577
18.861
14.146
9.431
4.715

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4700.97	4652.27	4709.37	4542.91	4700.97	4652.27	4709.37	4542.91	4700.97	
G1	4726.92	4538.29	4618.33	4370.58	4611.95	4711.48	4742.09	4675.56	4726.92	
G2	4691.63	4367.89	4478.5	4157.98	4473.2	4705.5	4703.04	4748.02	4691.63	
G3	4594.85	4164.63	4290.95	3911.94	4286.64	4635.88	4603.96	4744.74	4594.85	
G4	4447.39	3922.31	4073.27	3630.39	4067.89	4517.42	4449.36	4689.48	4447.39	
G5	4256.6	3644.26	3815.34	3340.18	3824.85	4355.32	4257.19	4568.23	4256.6	
G6	4024.75	3359.21	3537.29	3044.44	3535.4	4143.44	4017.52	4398.23	4024.75	
G7	3756.35	3056.52	3255.78	2749.83	3246.04	3895.42	3749.8	4189.49	3756.35	
G8	3472.78	2763.83	2965.48	2458.18	2958.66	3615.89	3457.52	3955.66	3472.78	
G9	3189.3	2485.92	2666.96	2185.96	2664.54	3317.24	3158.01	3683.18	3189.3	
G10	2886.7	2222.68	2395.82	1919.45	2372.39	3027.79	2858.82	3407.69	2886.7	
G11	2605.86	1959.58	2131.38	1675.03	2101.89	2722.44	2568.56	3109.98	2605.86	
G12	2320.32	1725.12	1885.52	1461.98	1837.21	2431.65	2291.37	2811.42	2320.32	
G13	2057.13	1505.57	1655.09	1282.46	1609.26	2161.36	2029.48	2528.43	2057.13	
G14	1812.43	1320.44	1453.31	1131.9	1401.06	1898.94	1782.13	2251.64	1812.43	
G15	1585.83	1165.93	1281.97	1009.44	1232.05	1658.24	1559.12	1996.44	1585.83	
G16	1386.65	1034.4	1139.26	907.63	1089.84	1449.14	1360.8	1757.85	1386.65	
G17	1220.74	922.85	1021.43	827.1	974.79	1264.87	1200.22	1540.36	1220.74	
G18	1084.63	835.45	923.52	758.15	876.88	1116.59	1065.64	1354.96	1084.63	
G19	966.21	762.37	839.58	701.94	798.23	995.3	955.3	1194.16	966.21	
G20	873.87	703.7	775.56	654.09	733.77	897.44	869.92	1060.8	873.87	
G21	801.38	655.8	722.41	613.96	683.27	819.33	797.02	952.03	801.38	
G22	738.71	618.18	679.59	577.29	638.83	757.52	738.58	865.66	738.71	
G23	685.25	582.04	642.42	539.49	604.94	706.57	686.32	796.57	685.25	
G24	641.57	543.26	606.37	483.69	571.49	664.69	644.44	735.03	641.57	
G25	604.71	486.79	557.71	409.49	528.49	631.47	608.39	685.29	604.71	
G26	564.81	414.56	490.24	330.08	465.64	599.28	570.64	644.04	564.81	
G27	511.34	335.15	412.63	254.48	391.98	562.11	521.17	610.28	511.34	
G28	436.91	258.43	332.81	185.8	316.29	499.09	448.32	564.54	436.91	
G29	355.62	189.08	254.39	131.89	242.68	424.61	368.1	499.58	355.62	
G30	277.55	133.73	184.5	101.54	176.51	344.22	288.1	423.67	277.55	
G31	202.05	102.53	137.09	86.14	132.34	263.95	210.94	341.43	202.05	
G32	140.37	87.54	113.62	74.34	109.49	191.1	148.09	261.48	140.37	
G33	105.22	75.33	97.05	66.75	94.27	138.53	108.68	190.87	105.22	
G34	88.21	67.16	85.52	62.85	83.09	113.12	91.08	141.27	88.21	
G35	75.42	62.67	78.6	59.39	76.31	97.28	78.02	114.02	75.42	
G36	67.2	59.21	73.66	56.43	71.51	85.52	69.13	95.89	67.2	

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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	62.62	55.89	69.85	53.78	67.96	77.48	63.97	83.81	62.62	
G38	58.76	53.06	65.81	51.35	64.24	72.72	60.42	76.58	58.76	
G39	56.29	50.55	62.53	49.24	61.36	68.77	57.41	71.87	56.29	
G40	53.24	48.62	59.75	47.54	58.99	65.31	54.5	67.78	53.24	
G41	50.95	46.46	57.1	45.61	56.47	62.08	52.03	64.37	50.95	
G42	49.11	44.85	54.81	43.95	54.36	59.66	49.92	61.63	49.11	
G43	46.91	43.32	52.7	42.42	52.75	57.37	47.81	59.03	46.91	
G44	45.11	41.84	50.68	40.85	50.86	55.35	45.97	56.7	45.11	
G45	43.77	40.4	48.66	39.82	49.42	53.46	44.31	54.63	43.77	
G46	42.2	39.14	46.78	38.29	47.67	51.62	42.96	52.57	42.2	
G47	40.98	38.11	45.07	37.39	45.88	49.74	41.66	50.73	40.98	
G48	39.59	36.63	43.77	35.91	44.4	48.35	40.31	49.02	39.59	
G49	38.47	35.46	42.11	34.97	43.18	46.24	39.05	47.63	38.47	
G50	37.21	34.25	40.89	33.71	41.66	44.85	37.84	45.56	37.21	
G51	36.05	32.99	39.5	32.5	40.4	43.36	36.63	44.26	36.05	
G52	34.97	31.87	38.47	31.15	38.96	41.97	35.28	42.78	34.97	
G53	33.71	31.2	36.76	30.21	37.89	40.54	34.07	41.34	33.71	
G54	32.5	29.9	35.51	29.04	36.36	39.01	32.95	40.0	32.5	
G55	31.33	28.68	34.21	27.88	34.79	37.62	31.65	38.7	31.33	
G56	30.03	27.79	33.08	26.62	33.4	36.41	30.53	37.17	30.03	
G57	29.04	26.62	31.78	25.45	32.1	35.01	29.18	36.0	29.04	
G58	27.83	25.63	30.61	24.2	30.57	33.71	28.1	34.57	27.83	
G59	26.71	24.64	29.22	22.85	29.09	32.14	26.71	33.22	26.71	
G60	25.68	23.61	28.1	21.82	27.16	30.84	25.41	31.83	25.68	
G61	24.55	22.67	26.93	20.6	25.81	29.18	24.11	30.48	24.55	
G62	23.57	21.19	25.45	19.84	24.55	27.56	22.62	29.13	23.57	
G63	22.53	20.2	24.24	19.3	23.84	25.95	21.5	27.92	22.53	
G64	21.28	19.84	23.79	18.85	23.21	24.87	20.56	26.49	21.28	
G65	20.51	19.35	23.03	18.27	22.53	24.06	19.93	25.27	20.51	
G66	19.93	18.99	22.53	17.69	22.09	23.48	19.3	24.42	19.93	
G67	19.48	18.18	21.77	17.15	21.41	22.8	18.85	23.93	19.48	
G68	18.81	17.6	21.23	16.61	20.83	22.31	18.32	23.34	18.81	
G69	18.36	16.92	20.47	16.03	20.25	21.41	17.82	22.58	18.36	
G70	17.69	16.38	19.8	15.4	19.35	20.92	17.19	21.68	17.69	
G71	16.97	15.71	19.08	14.68	18.67	20.16	16.65	21.14	16.97	
G72	16.38	14.99	18.27	14.01	17.87	19.84	16.07	20.34	16.38	
G73	15.58	14.23	17.55	13.15	17.19	18.81	15.4	19.8	15.58	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 14:31:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

Test Time: 2024/5/23 14:31:00

Remarks: