

Report No.:

Test Time: 2024/7/23 17:10:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT120-60°-28W
Lamp Type:
Luminous Width: 111 mm
Luminous Length: 111 mm
Luminous Height: 97 mm

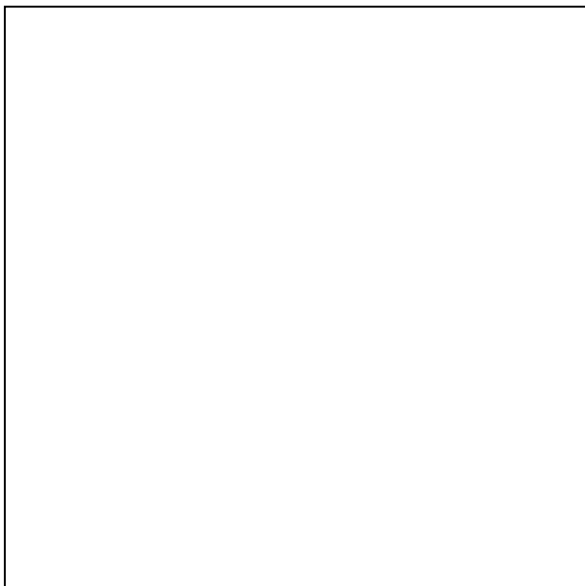
Voltage(V): 219.70 V
Current(A): 0.1340 A
Power(W): 28.33 W
Power Factor: 0.9570
Lamp Luminous Flux: 2858.23

Photometric Results

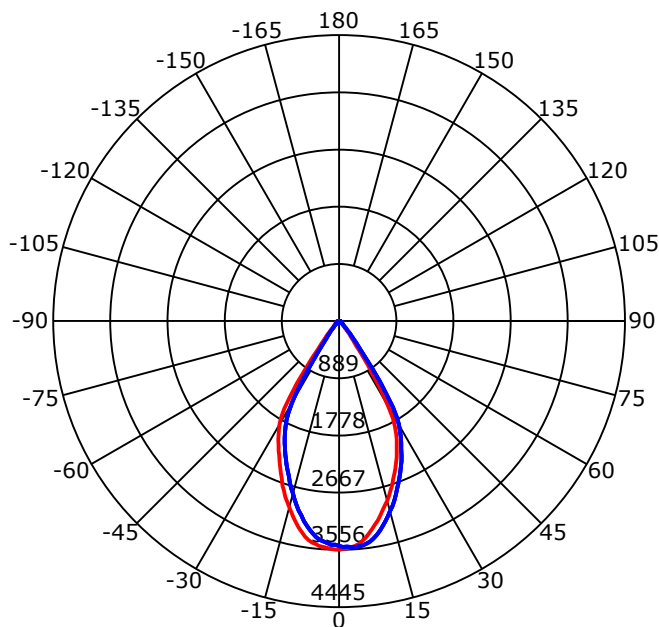
CIE Class: Direct
Luminaire Luminous Flux: 2858.228 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 100.89 lm/W
Beam Angle(50%) C0-180,C90-270: 59.2,58.5
Field Angle(10%) C0-180,C90-270: 75.3,75.3
S/MH C0-180,C90-270: 0.890,0.849

Max. Intensity: 3555.92 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3555.92 cd
Effective Luminous Flux: 2637.28 lm
ERP(ϕ use)(120deg): 2817.30 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 59.2 deg,58.5 deg

C0-180 — C90-270 —

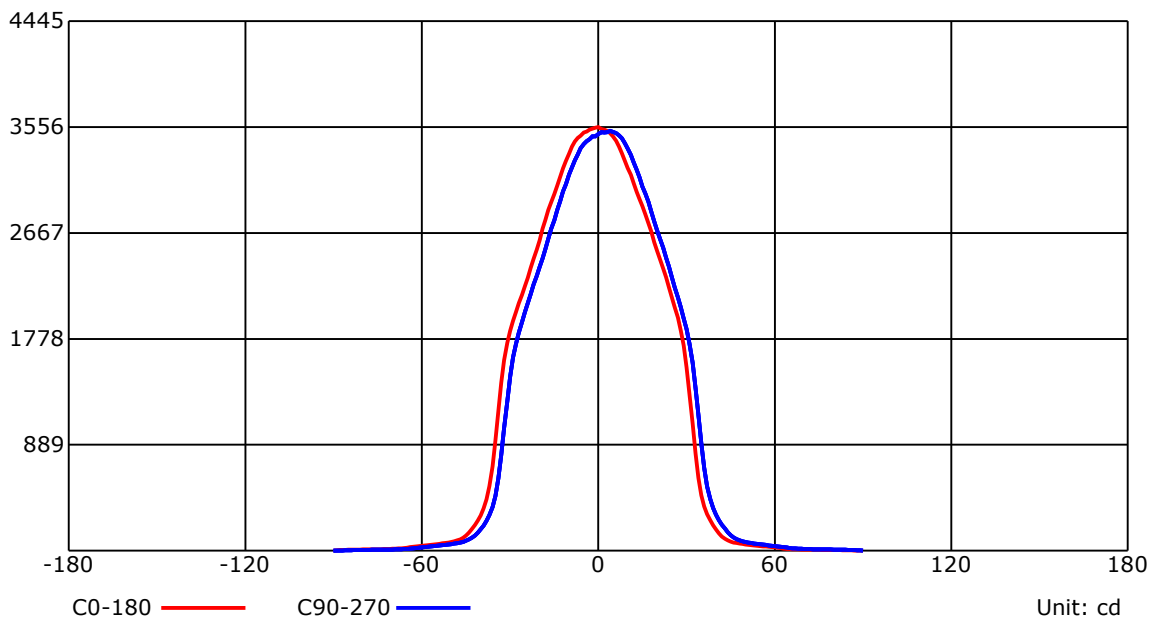
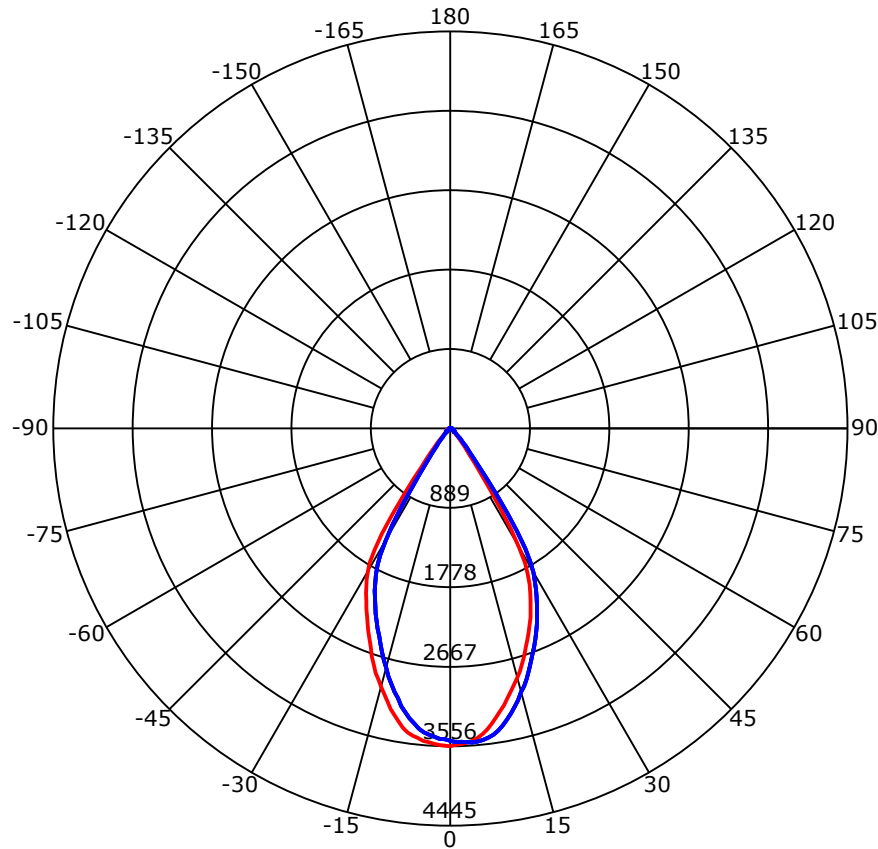
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:10:11

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: 2024/7/23 17:10:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

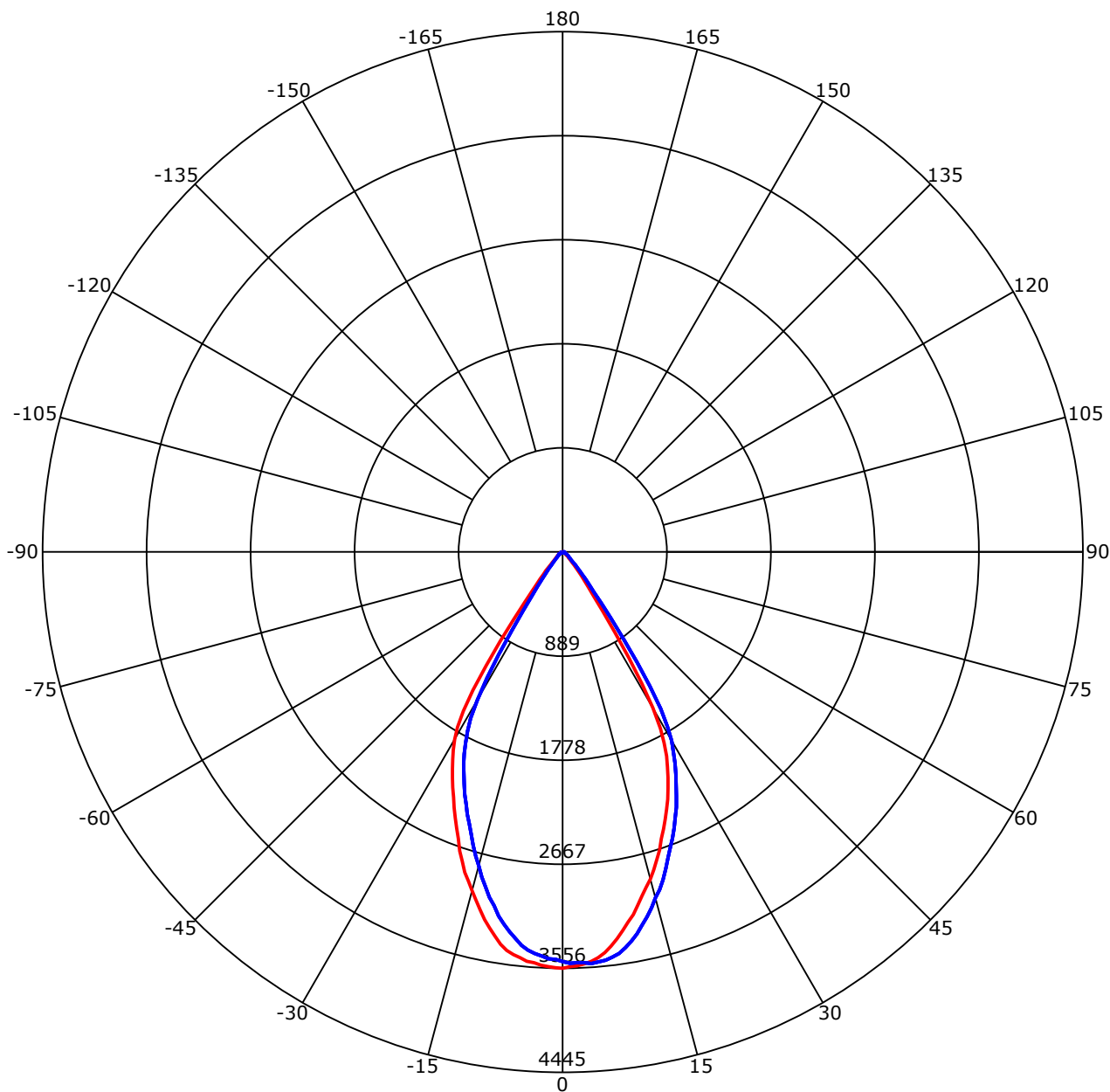
Test Distance: 6.7 m

Remarks:

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Luminous Intensity Distribution Curve



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: 2024/7/23 17:10:11

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

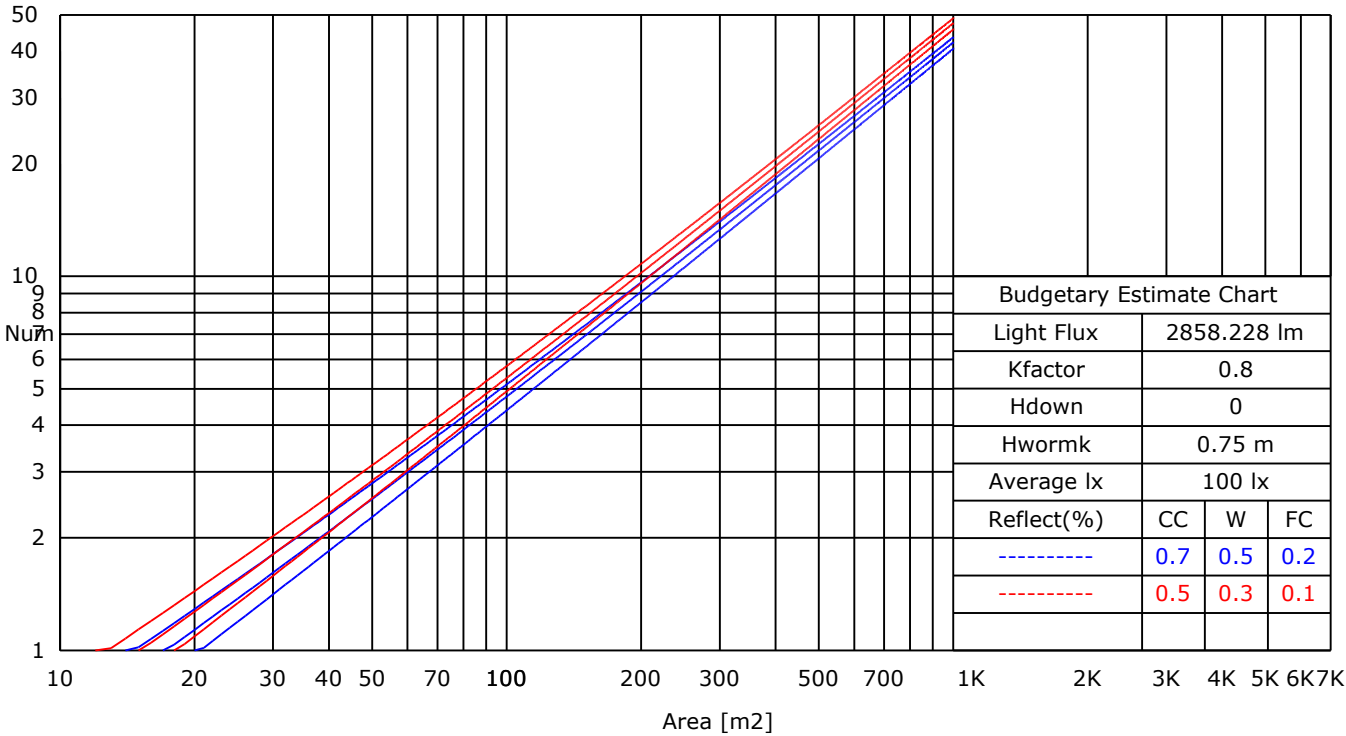
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UTILIZATION FACTORS TABLE

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	1.06	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.81
2	1.01	0.99	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.81	0.77
3	0.97	0.95	0.94	0.95	0.93	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
4	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.71
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
6	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.69	0.66
7	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.64
8	0.80	0.79	0.78	0.79	0.78	0.76	0.77	0.75	0.73	0.75	0.71	0.69	0.72	0.68	0.65	0.62
9	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.60
10	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



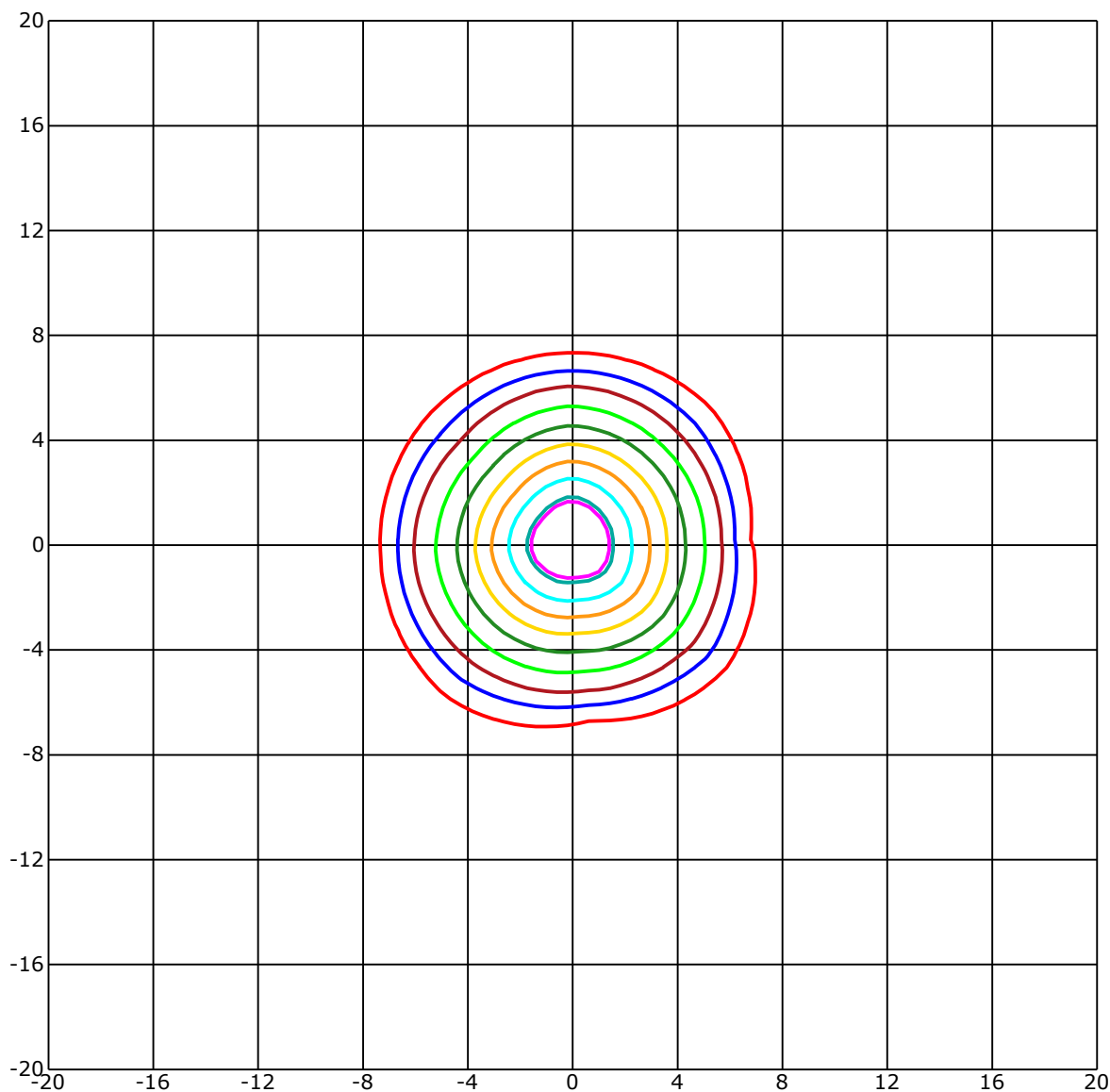
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:10:11

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)

32.714(92%Emax)	17.78(50%Emax)
32.003(90%Emax)	14.224(40%Emax)
28.447(80%Emax)	10.668(30%Emax)
24.891(70%Emax)	7.112(20%Emax)
21.335(60%Emax)	3.556(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/23 17:10:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

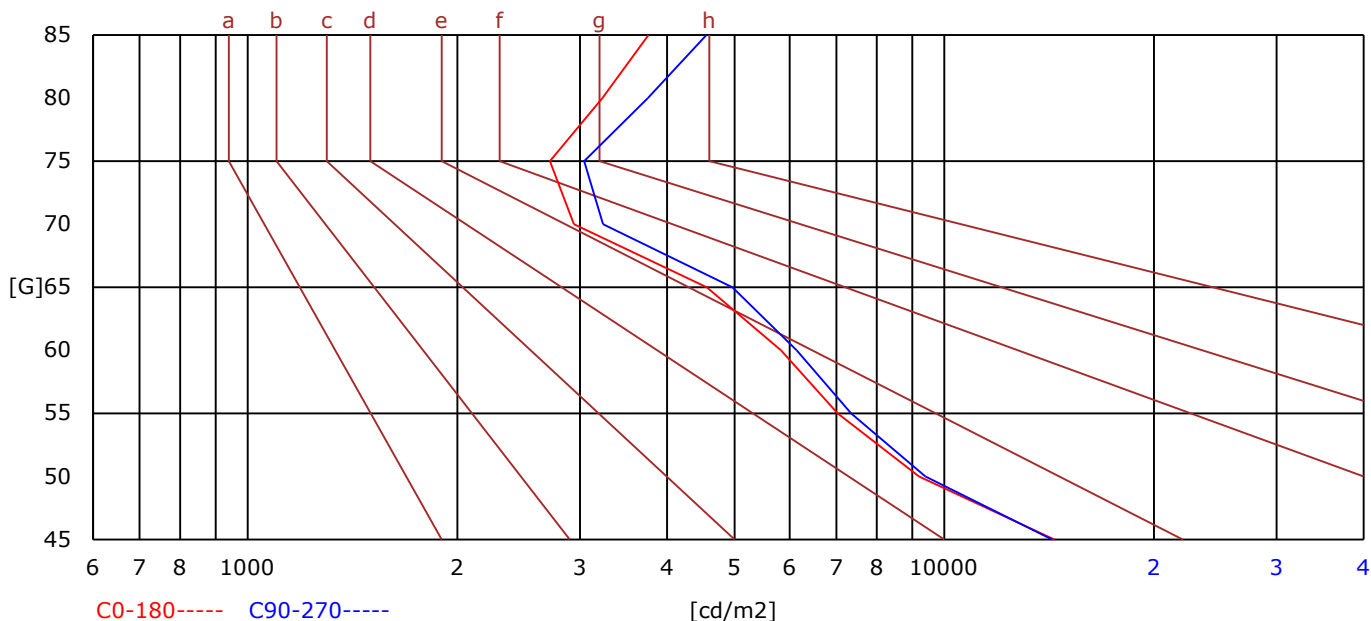
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	14396	9194	7032	5829	4560	2940	2717	3231	3762
C90	14288	9398	7349	6143	4966	3238	3041	3756	4557
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



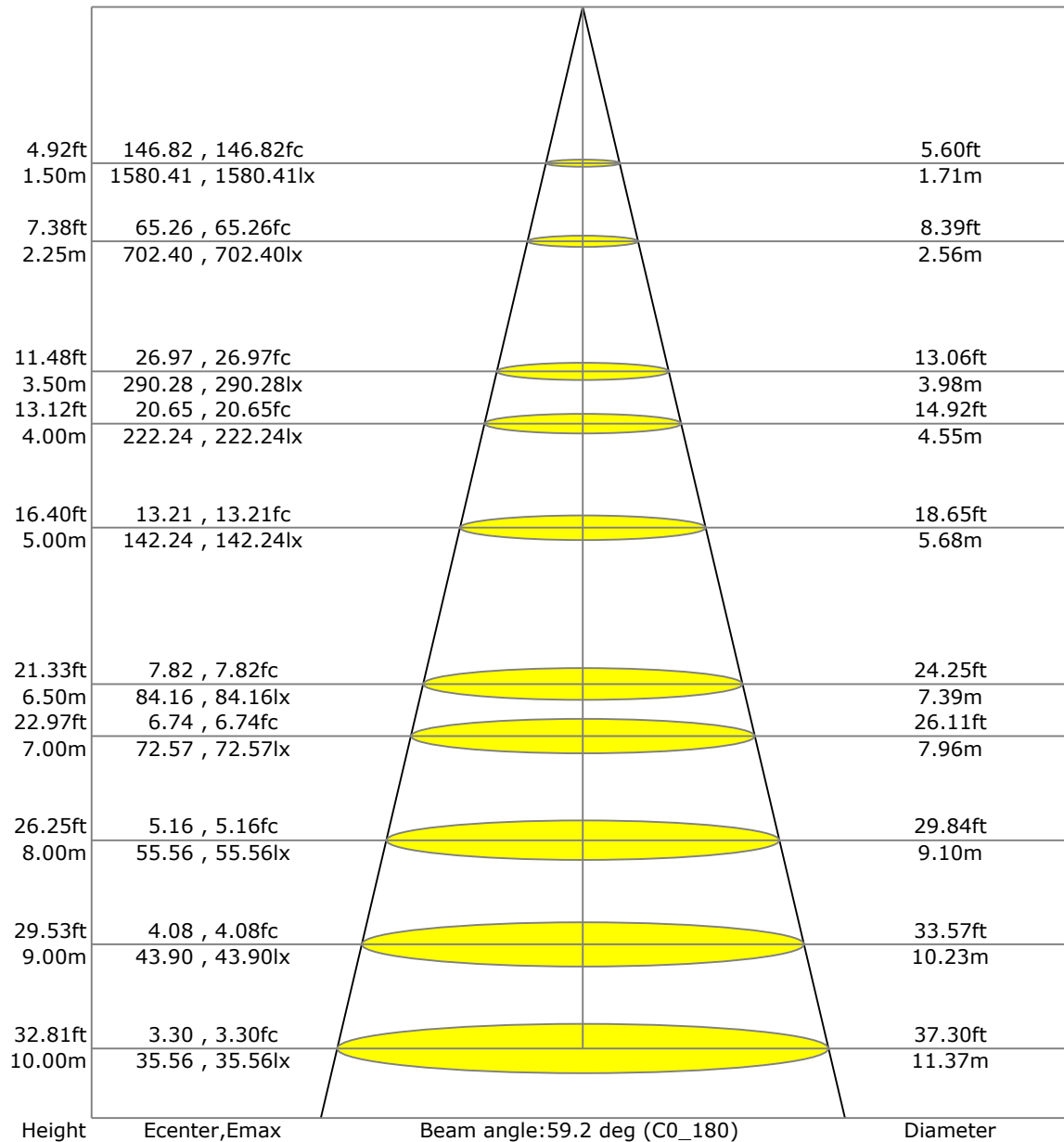
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:10:11

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/23 17:10:11

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.:

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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	12.69	12.74	12.89	12.92	13.17	12.74	12.79	12.94	12.98	13.22
3H	12.66	12.72	12.87	12.91	13.15	12.72	12.77	12.92	12.96	13.21
4H	12.65	12.70	12.86	12.90	13.15	12.70	12.75	12.91	12.95	13.20
6H	12.63	12.68	12.85	12.88	13.14	12.69	12.74	12.90	12.94	13.19
8H	12.62	12.67	12.84	12.88	13.13	12.68	12.73	12.89	12.93	13.18
12H	12.61	12.66	12.84	12.87	13.12	12.67	12.72	12.89	12.92	13.18
4H 2H	12.70	12.75	12.91	12.95	13.20	12.80	12.85	13.01	13.05	13.30
3H	12.68	12.73	12.91	12.94	13.20	12.78	12.83	13.00	13.04	13.29
4H	12.67	12.72	12.90	12.93	13.19	12.76	12.81	12.99	13.03	13.29
6H	12.65	12.70	12.89	12.92	13.18	12.74	12.79	12.98	13.01	13.28
8H	12.64	12.68	12.88	12.91	13.18	12.73	12.78	12.97	13.00	13.27
12H	12.62	12.67	12.87	12.90	13.17	12.72	12.76	12.97	13.00	13.26
8H 4H	12.70	12.75	12.92	12.96	13.21	12.83	12.88	13.04	13.08	13.33
6H	12.66	12.71	12.92	12.94	13.22	12.80	12.84	13.05	13.08	13.35
8H	12.65	12.69	12.91	12.94	13.21	12.78	12.82	13.04	13.07	13.35
12H	12.64	12.68	12.91	12.93	13.21	12.77	12.81	13.04	13.06	13.34
12H 4H	12.68	12.73	12.93	12.96	13.23	12.84	12.88	13.09	13.12	13.38
6H	12.67	12.71	12.93	12.95	13.23	12.83	12.87	13.09	13.12	13.39

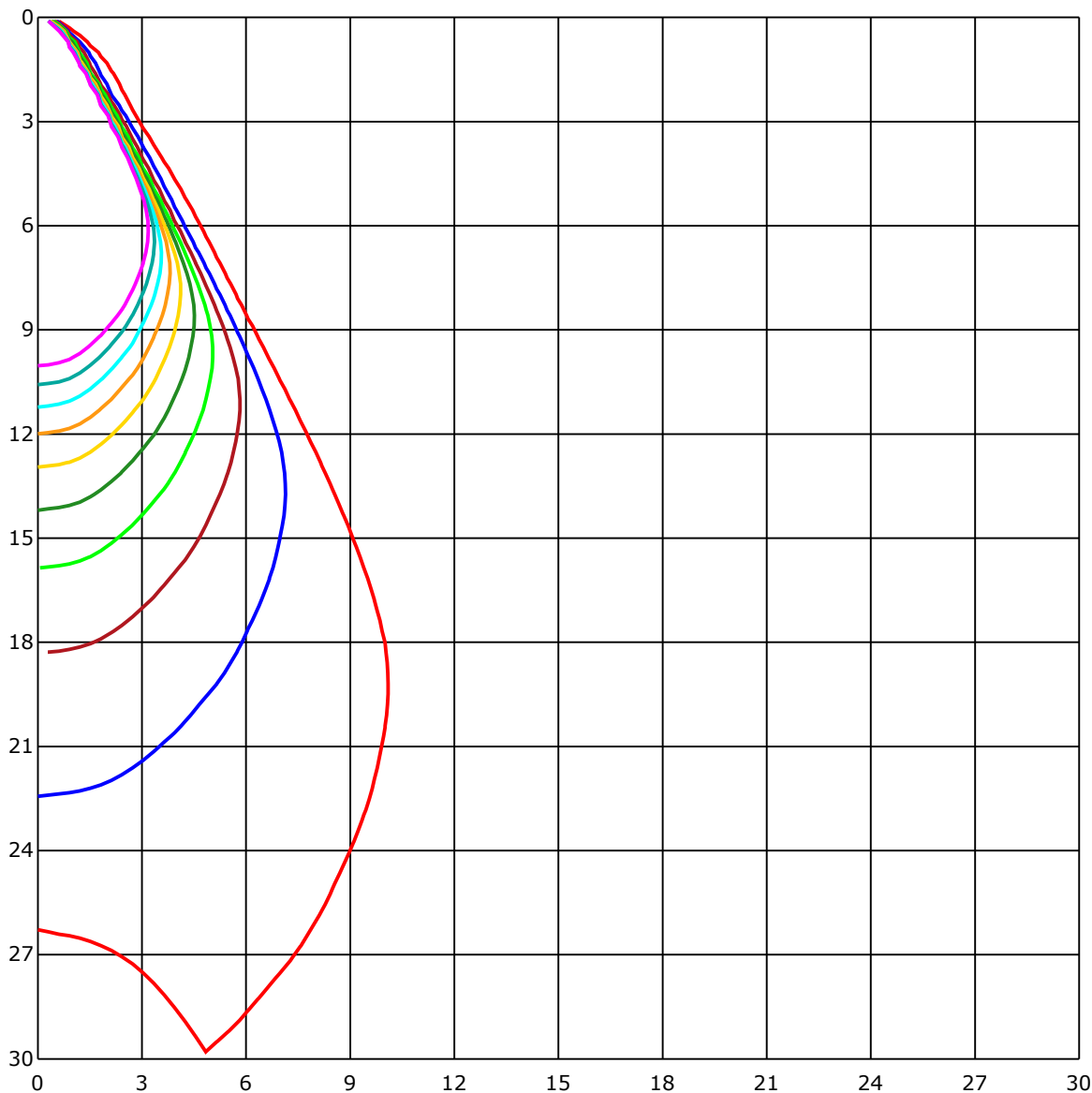
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

35.318
31.786
28.255
24.723
21.191

17.659
14.127
10.595
7.064
3.532

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/23 17:10:11

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3555.92	3501.6	3497.56	3546.58	3555.92	3501.6	3497.56	3546.58	3555.92	
G1	3541.24	3502.09	3512.42	3528.22	3550.4	3497.74	3478.75	3528.76	3541.24	
G2	3535.49	3518.12	3510.53	3542.49	3543.98	3490.47	3477.0	3515.74	3535.49	
G3	3523.15	3500.48	3513.68	3536.61	3533.34	3477.9	3455.14	3499.09	3523.15	
G4	3505.55	3511.16	3523.91	3516.5	3517.45	3460.71	3436.78	3481.67	3505.55	
G5	3478.66	3483.64	3515.11	3517.09	3510.49	3427.17	3413.35	3476.06	3478.66	
G6	3440.64	3460.57	3505.95	3480.19	3484.32	3412.99	3378.51	3442.08	3440.64	
G7	3391.44	3436.37	3486.43	3451.01	3465.46	3376.63	3325.5	3408.59	3391.44	
G8	3335.51	3383.72	3462.05	3404.19	3435.34	3334.74	3275.62	3364.42	3335.51	
G9	3274.46	3327.38	3422.19	3353.28	3390.99	3296.9	3217.94	3324.42	3274.46	
G10	3211.48	3269.02	3374.88	3285.1	3332.5	3228.04	3157.7	3261.98	3211.48	
G11	3155.32	3209.95	3322.17	3218.66	3270.82	3167.12	3076.36	3198.46	3155.32	
G12	3083.9	3135.34	3258.79	3150.34	3209.86	3097.86	3015.08	3131.71	3083.9	
G13	3014.45	3067.69	3198.19	3086.41	3137.18	3025.18	2932.66	3077.3	3014.45	
G14	2950.17	3012.16	3133.91	2998.47	3063.38	2956.41	2861.06	3008.66	2950.17	
G15	2891.99	2938.59	3057.37	2918.57	2993.4	2885.04	2774.25	2946.58	2891.99	
G16	2824.03	2875.61	2999.73	2843.51	2923.64	2814.02	2700.31	2877.54	2824.03	
G17	2747.27	2796.15	2927.68	2765.94	2861.33	2724.51	2618.7	2810.61	2747.27	
G18	2676.25	2721.14	2845.13	2681.86	2775.55	2651.43	2532.38	2740.04	2676.25	
G19	2589.93	2643.08	2763.07	2602.99	2702.51	2579.78	2452.66	2663.01	2589.93	
G20	2517.16	2572.02	2688.28	2520.35	2605.37	2493.06	2382.72	2580.68	2517.16	
G21	2444.93	2495.48	2618.84	2443.27	2527.26	2410.73	2305.87	2519.5	2444.93	
G22	2368.35	2425.45	2541.67	2367.14	2448.7	2338.63	2235.21	2437.26	2368.35	
G23	2295.63	2335.67	2459.34	2283.73	2373.38	2269.59	2153.01	2352.95	2295.63	
G24	2209.67	2261.02	2385.68	2206.25	2291.1	2200.1	2077.33	2273.72	2209.67	
G25	2125.68	2190.27	2296.71	2132.99	2221.2	2126.66	2002.23	2198.94	2125.68	
G26	2042.9	2092.73	2209.08	2047.66	2148.21	2062.2	1919.45	2107.05	2042.9	
G27	1955.81	1999.58	2126.17	1968.34	2077.24	1983.11	1830.88	2026.16	1955.81	
G28	1845.65	1908.36	2042.18	1886.77	2002.23	1906.03	1733.29	1933.64	1845.65	
G29	1724.4	1809.38	1949.39	1794.75	1931.21	1823.66	1623.72	1841.3	1724.4	
G30	1539.05	1702.09	1859.66	1688.63	1845.88	1723.6	1461.57	1744.11	1539.05	
G31	1315.37	1579.37	1739.26	1576.49	1746.13	1616.22	1253.78	1631.62	1315.37	
G32	1066.9	1442.45	1577.93	1442.0	1600.24	1491.65	1028.88	1501.89	1066.9	
G33	819.02	1273.13	1366.23	1284.8	1408.07	1341.67	801.96	1356.04	819.02	
G34	612.08	1106.9	1139.76	1110.0	1169.25	1178.0	604.67	1188.37	612.08	
G35	464.34	929.54	903.23	932.14	928.82	1006.03	459.54	1009.35	464.34	
G36	371.73	768.07	696.92	759.49	707.6	842.9	366.08	831.99	371.73	

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C Interval: 45.0 Deg

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	306.96	615.53	541.1	605.34	540.52	681.34	298.61	669.04	306.96	
G38	256.64	481.62	434.58	469.55	431.75	544.34	249.9	521.98	256.64	
G39	213.54	373.35	358.45	363.25	355.66	427.31	211.03	402.21	213.54	
G40	177.67	295.51	302.51	289.23	297.22	337.89	180.28	315.13	177.67	
G41	147.1	240.83	257.35	235.85	253.54	274.23	152.27	253.85	147.1	
G42	119.95	200.07	219.15	195.5	215.25	228.49	127.71	210.49	119.95	
G43	99.16	168.43	184.9	165.2	181.04	192.44	107.74	177.18	99.16	
G44	85.56	144.14	155.01	142.66	150.65	165.87	93.64	152.67	85.56	
G45	76.36	125.42	129.64	124.48	125.83	144.73	82.73	133.91	76.36	
G46	69.18	110.61	111.1	110.03	107.42	128.61	74.43	118.91	69.18	
G47	64.24	98.8	97.5	99.12	94.76	115.55	68.1	107.69	64.24	
G48	59.97	88.7	87.31	89.82	85.61	105.09	62.94	97.64	59.97	
G49	56.47	80.17	79.81	81.43	78.83	95.8	58.99	90.0	56.47	
G50	53.1	72.81	73.53	74.43	73.4	88.3	55.3	82.73	53.1	
G51	50.14	66.93	68.82	68.28	68.95	80.94	51.76	76.49	50.14	
G52	46.42	61.86	64.64	63.52	64.96	75.33	48.48	71.24	46.42	
G53	43.68	57.14	60.38	59.08	61.23	69.94	45.2	66.62	43.68	
G54	41.12	53.42	56.92	55.17	57.59	65.09	42.56	62.35	41.12	
G55	38.74	49.69	53.69	51.94	54.05	60.6	40.09	58.49	38.74	
G56	36.72	46.46	50.55	48.39	51.13	57.19	37.98	54.95	36.72	
G57	34.61	43.5	48.12	45.11	48.53	53.73	35.78	51.89	34.61	
G58	31.92	40.81	44.93	42.51	45.56	50.32	33.53	49.02	31.92	
G59	29.72	38.16	42.2	40.13	43.18	47.54	31.15	45.74	29.72	
G60	27.02	35.91	39.55	37.84	40.63	44.67	28.64	43.05	27.02	
G61	24.6	33.85	36.68	35.37	37.89	41.97	25.95	40.54	24.6	
G62	21.37	31.11	33.94	32.86	35.1	39.46	23.12	37.98	21.37	
G63	17.28	28.82	31.24	30.79	32.68	36.9	19.08	35.37	17.28	
G64	14.86	26.35	27.83	28.28	29.72	34.39	16.03	32.72	14.86	
G65	13.56	23.75	23.3	25.86	25.36	31.6	14.59	29.99	13.56	
G66	12.34	21.28	20.47	23.07	21.95	28.73	13.38	27.16	12.34	
G67	11.13	18.54	18.58	20.65	20.07	25.99	12.12	24.33	11.13	
G68	10.28	16.12	17.42	18.05	18.49	23.39	11.18	21.55	10.28	
G69	9.34	13.6	15.98	15.58	17.15	20.38	10.37	19.03	9.34	
G70	8.71	12.39	14.81	13.65	15.8	18.45	9.56	17.55	8.71	
G71	8.26	11.36	13.78	12.75	14.81	17.1	8.93	16.34	8.26	
G72	8.08	10.41	12.97	11.63	13.78	15.94	8.57	15.44	8.08	
G73	8.04	9.7	12.25	10.91	13.11	14.95	8.44	14.19	8.04	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/23 17:10:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: