

Report No.:

Test Time: 2024/10/25 18:03:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H114-38°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

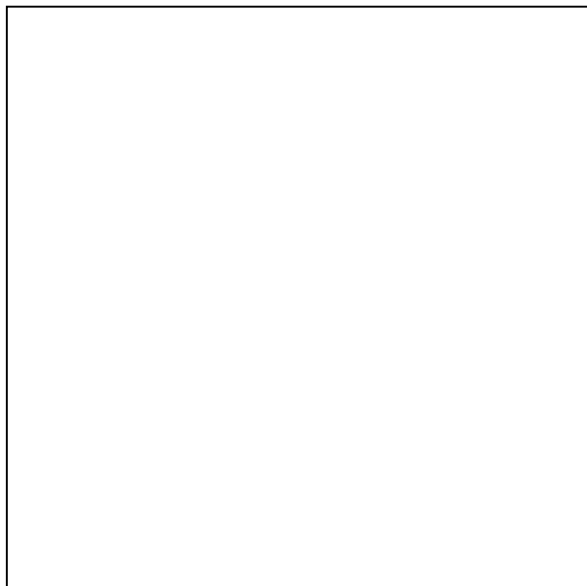
Voltage(V): 219.80 V
Current(A): 0.1160 A
Power(W): 25.19 W
Power Factor: 0.9800
Lamp Luminous Flux: 2142.18

Photometric Results

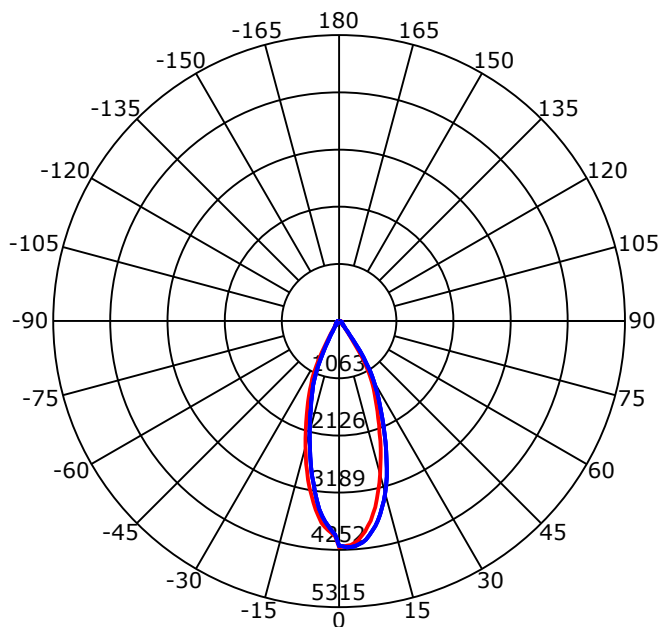
CIE Class: Direct
Luminaire Luminous Flux: 2142.18 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.04 lm/W
Beam Angle(50%) C0-180,C90-270: 37.9,38.2
Field Angle(10%) C0-180,C90-270: 66.4,66.1
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 4251.76 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4203.41 cd
Effective Luminous Flux: 1872.62 lm
ERP(ϕ use)(120deg): 2094.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.9 deg,38.2 deg

C0-180 — C90-270 —

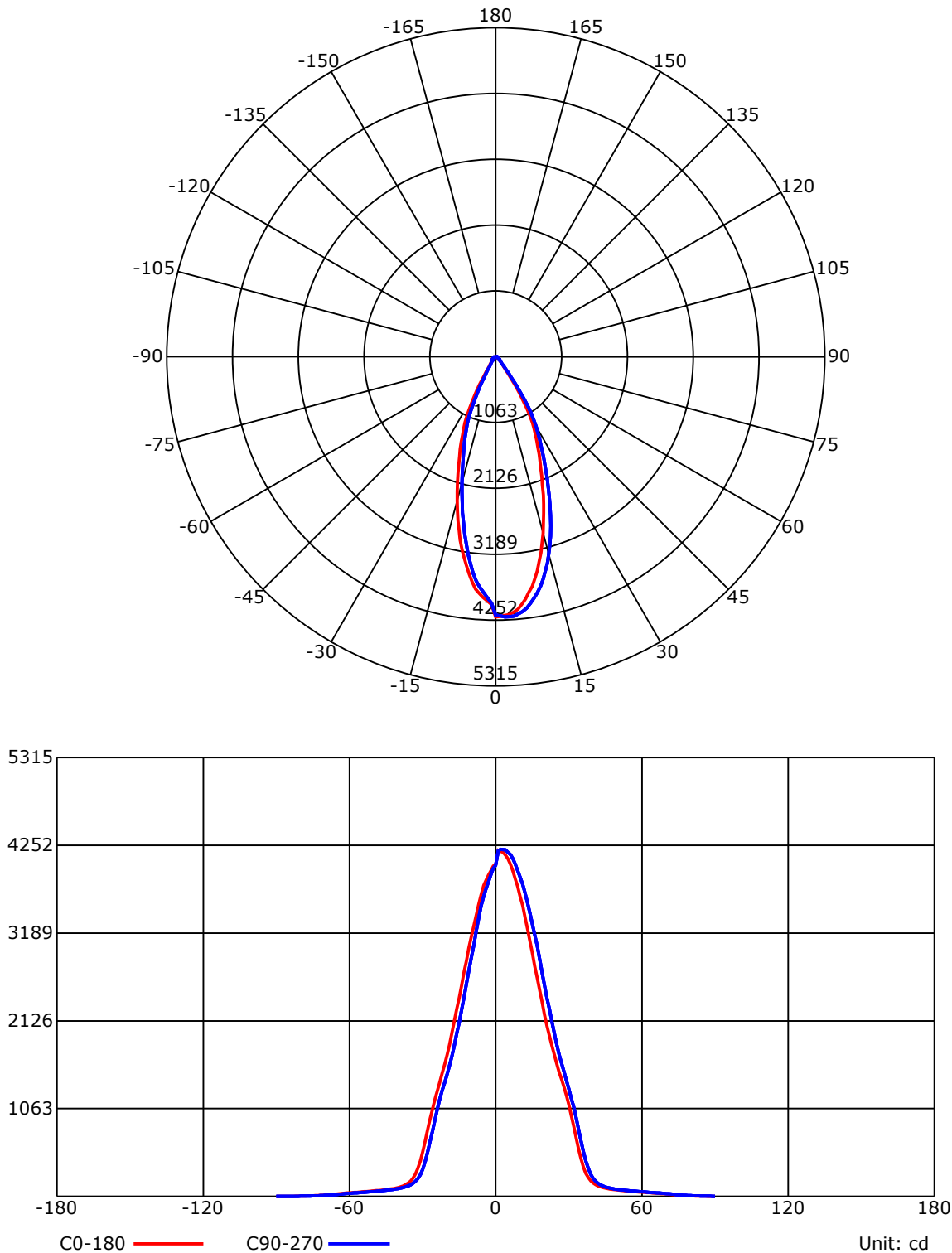
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

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

Report No.:

Test Time: 2024/10/25 18:03:34

Luminous Intensity Distribution Curve



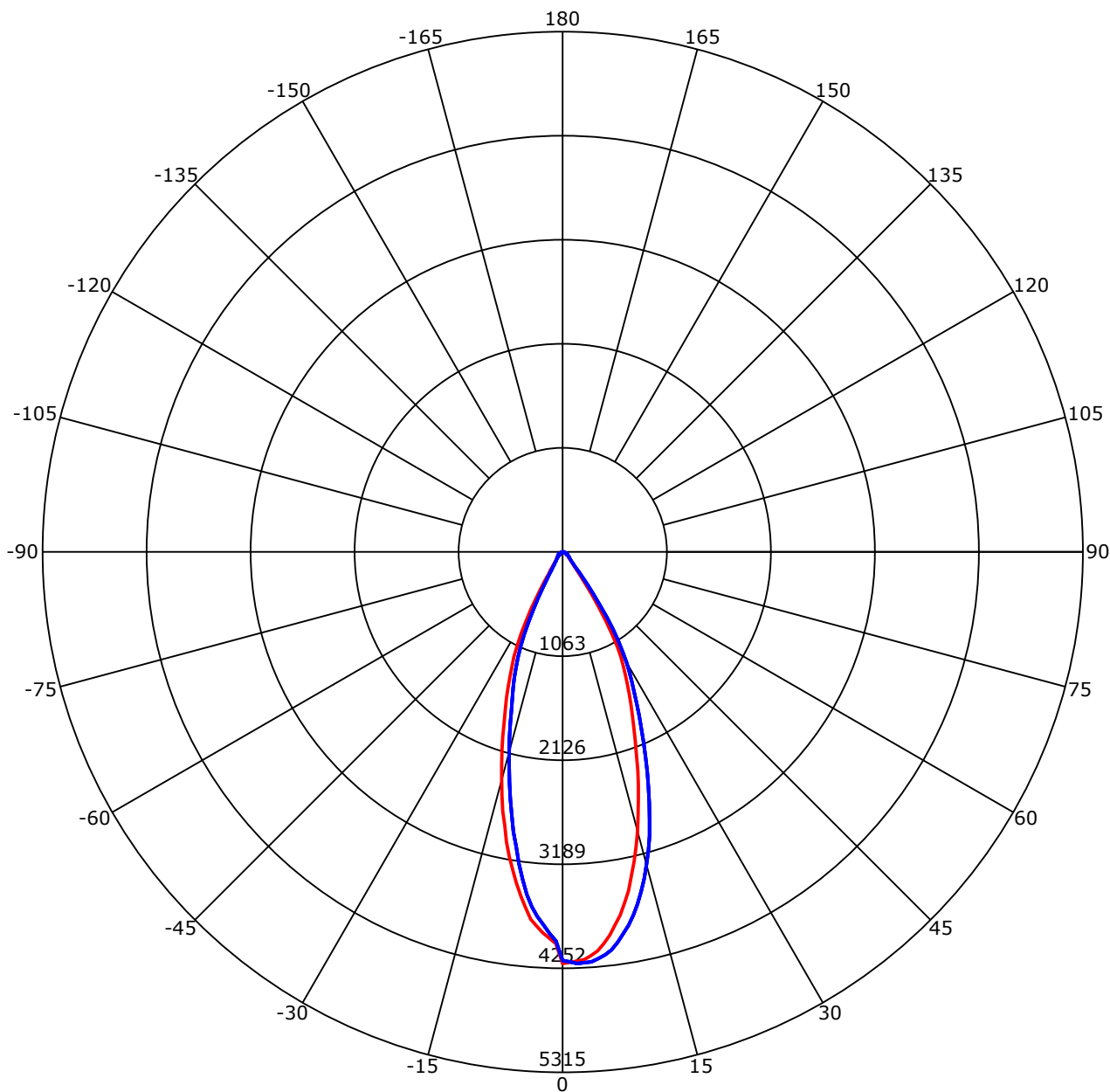
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

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



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: 2024/10/25 18:03:34

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

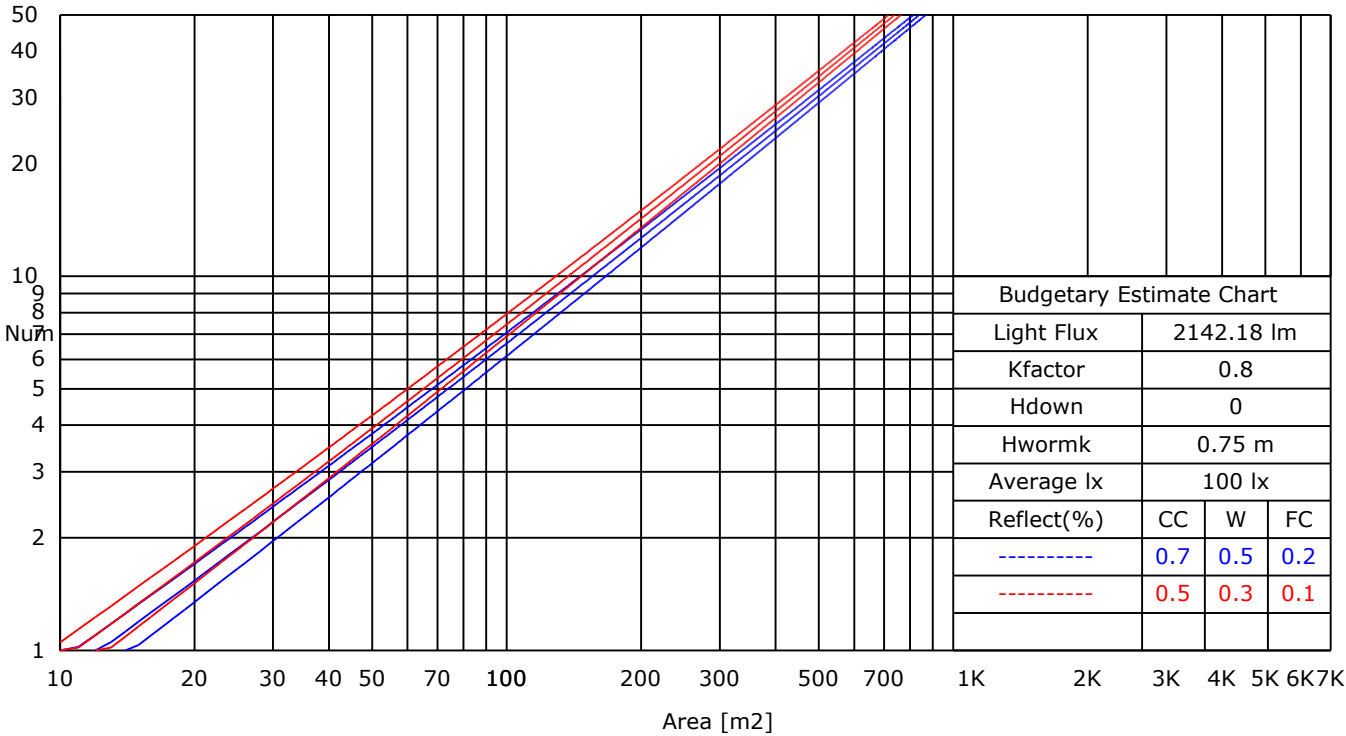
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.89	0.85	0.83	0.83	0.80	0.77	0.72
3	0.92	0.91	0.89	0.92	0.89	0.87	0.89	0.86	0.84	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	0.67
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.69	0.65
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
7	0.81	0.79	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
8	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.66	0.64	0.68	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



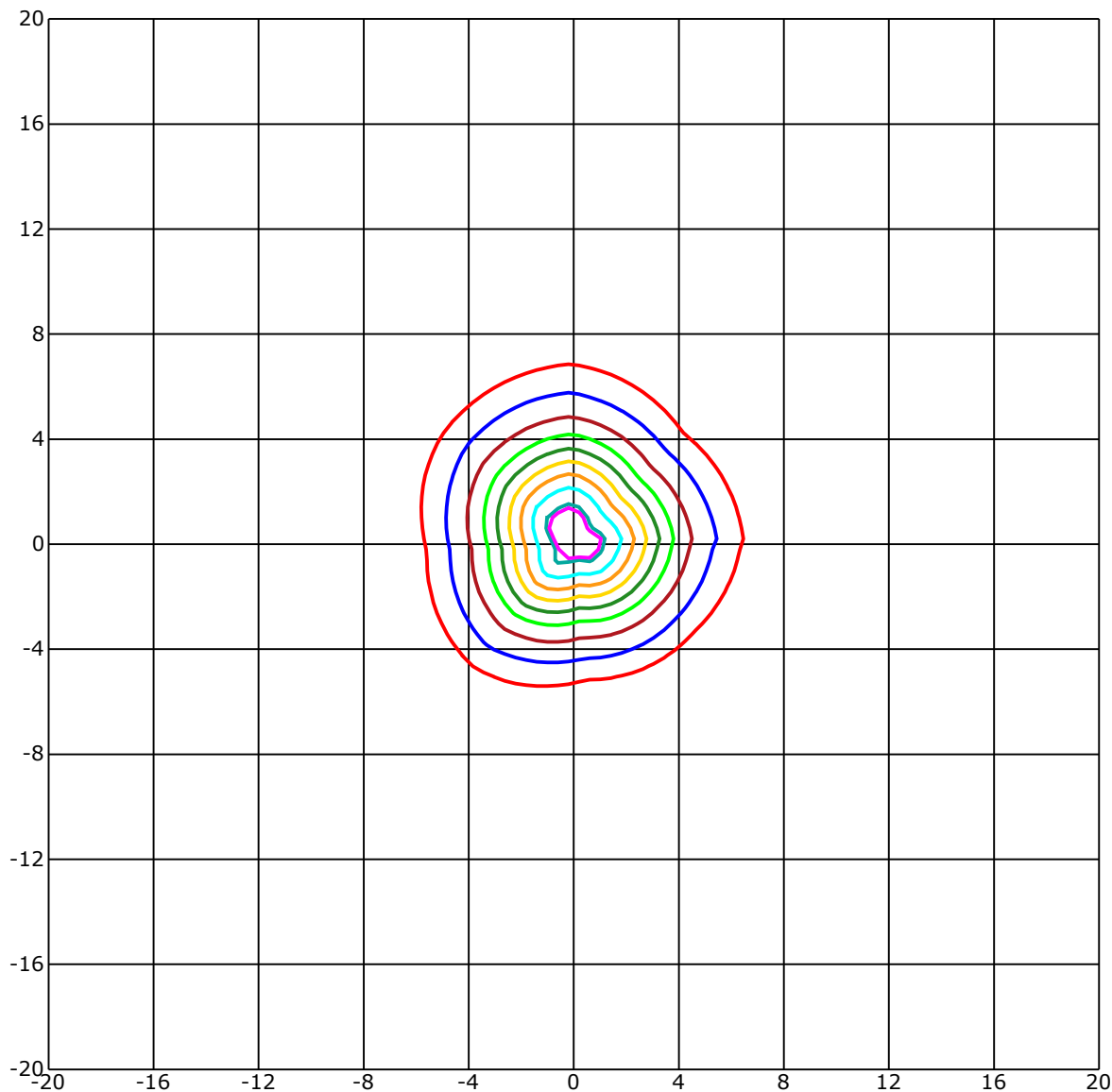
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

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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ISOLX DIAGRAM



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

39.098(92%Emax)	21.249(50%Emax)
38.248(90%Emax)	16.999(40%Emax)
33.999(80%Emax)	12.749(30%Emax)
29.749(70%Emax)	8.5(20%Emax)
25.499(60%Emax)	4.25(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

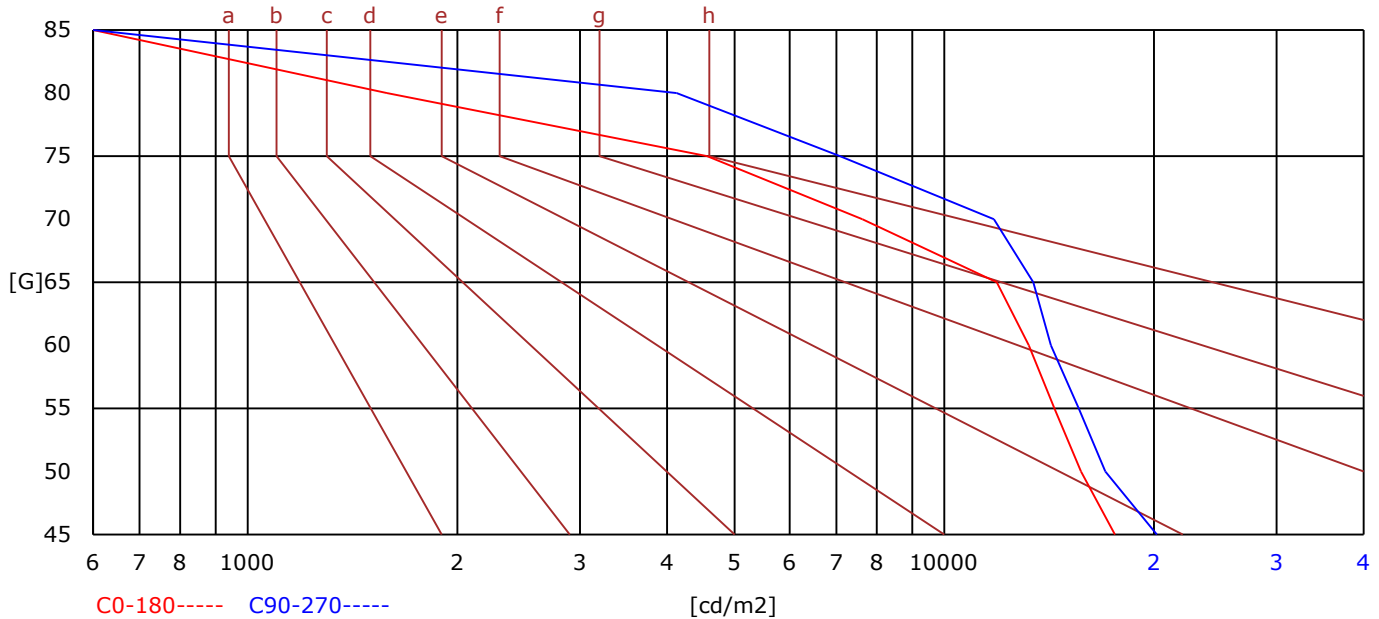
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17585	15715	14390	13217	11899	7627	4564	1586	0
C90	20188	17023	15602	14217	13425	11780	7083	4131	582
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



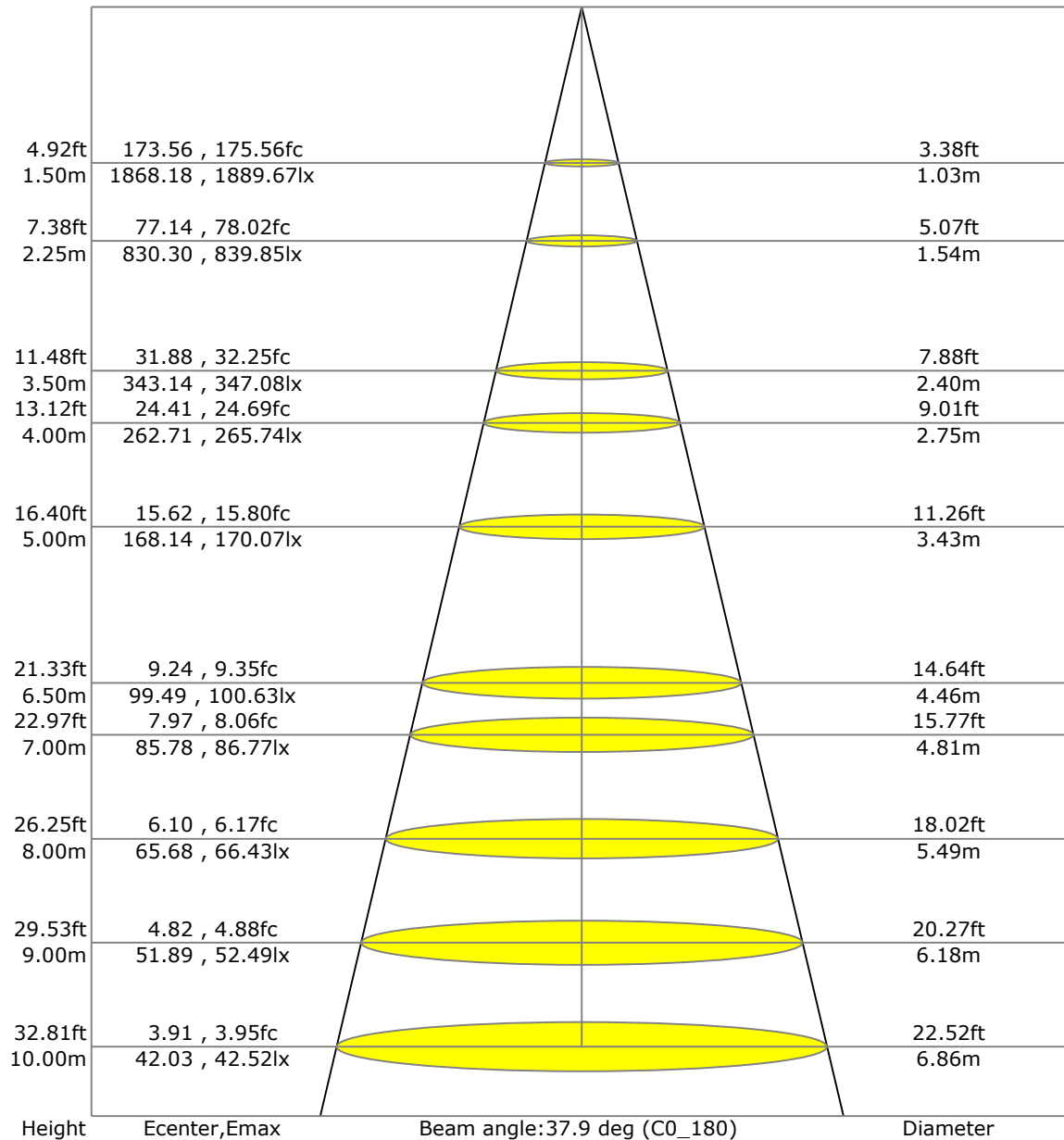
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/25 18:03:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

Report No.:

Test Time: 2024/10/25 18:03:34

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	10.79	10.84	10.99	11.03	11.27	10.94	10.99	11.14	11.18	11.42
3H	10.86	10.92	11.07	11.11	11.36	11.00	11.05	11.20	11.24	11.49
4H	10.86	10.91	11.07	11.11	11.36	10.99	11.04	11.20	11.24	11.49
6H	10.85	10.90	11.06	11.10	11.35	10.98	11.03	11.19	11.23	11.48
8H	10.84	10.89	11.06	11.09	11.35	10.97	11.02	11.19	11.22	11.48
12H	10.83	10.88	11.05	11.09	11.34	10.96	11.01	11.18	11.22	11.47
4H 2H	11.96	12.01	12.17	12.21	12.46	12.28	12.33	12.49	12.53	12.78
3H	12.05	12.10	12.27	12.31	12.56	12.36	12.41	12.58	12.62	12.87
4H	12.05	12.10	12.28	12.31	12.57	12.35	12.40	12.58	12.62	12.88
6H	12.03	12.08	12.27	12.30	12.57	12.33	12.39	12.57	12.61	12.87
8H	12.02	12.07	12.26	12.30	12.56	12.32	12.37	12.56	12.60	12.86
12H	12.01	12.06	12.26	12.29	12.56	12.31	12.36	12.56	12.59	12.86
8H 4H	12.07	12.12	12.29	12.32	12.58	12.45	12.50	12.67	12.70	12.96
6H	12.15	12.20	12.41	12.44	12.71	12.52	12.57	12.78	12.81	13.08
8H	12.14	12.19	12.40	12.43	12.71	12.51	12.56	12.77	12.80	13.08
12H	12.12	12.17	12.39	12.42	12.70	12.49	12.54	12.76	12.79	13.07
12H 4H	12.19	12.24	12.43	12.47	12.74	12.58	12.63	12.83	12.86	13.13
6H	12.17	12.21	12.43	12.46	12.73	12.56	12.60	12.82	12.85	13.13

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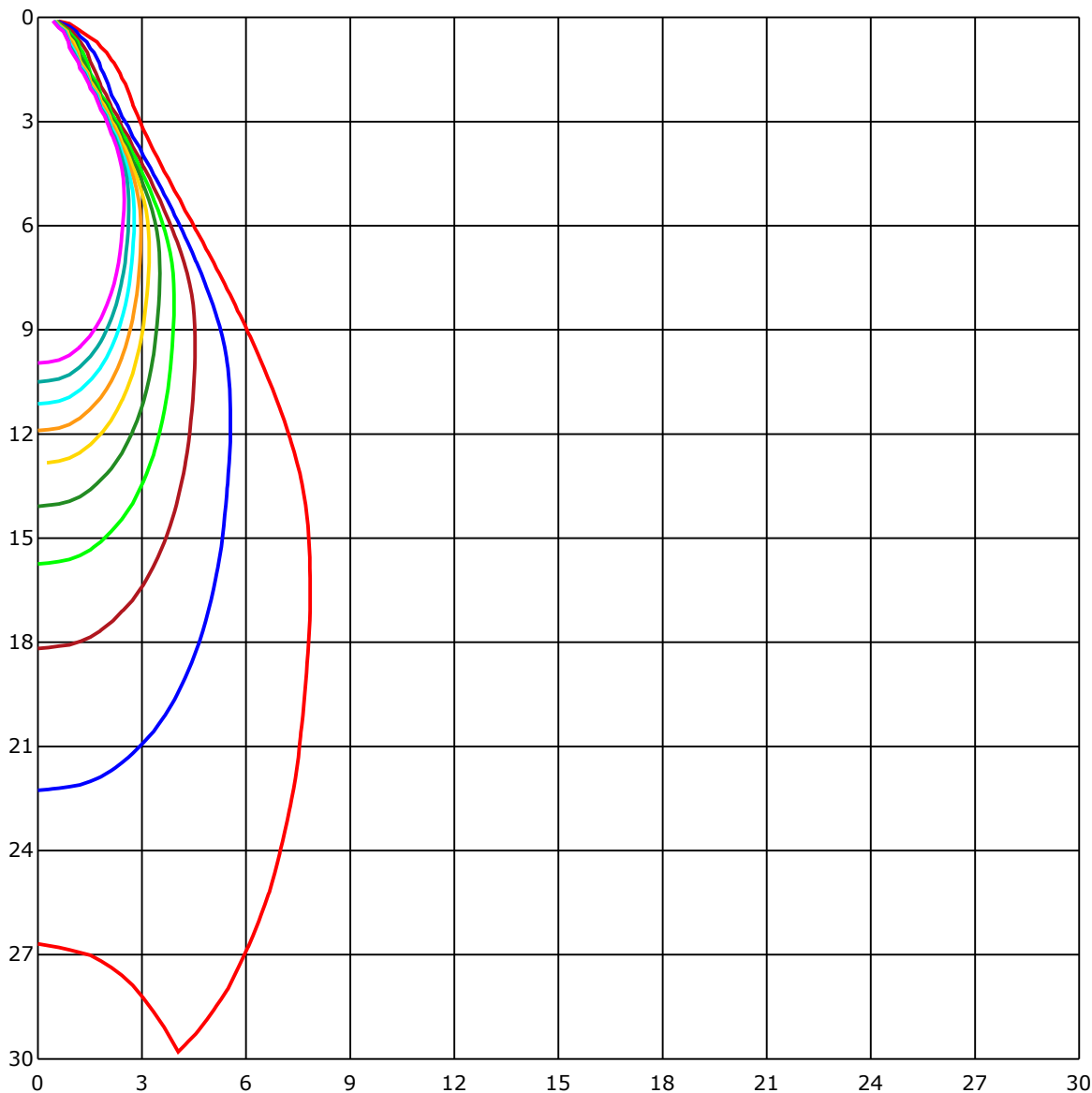
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx

42.407
38.166
33.925
29.685
25.444

21.203
16.963
12.722
8.481
4.241

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

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

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4203.41	4106.0	4172.67	4230.89	4017.98	4106.0	4011.32	4230.89	4169.16	
G1	4192.03	4089.26	4186.79	4251.76	4001.24	4105.35	3973.27	4198.29	4166.99	
G2	4178.9	4070.71	4204.78	4245.96	3944.15	4088.89	3895.5	4145.1	4154.51	
G3	4168.19	4021.64	4201.54	4226.86	3893.23	4047.2	3809.8	4083.83	4142.96	
G4	4133.87	3963.07	4197.04	4202.46	3829.83	4001.93	3728.92	4017.98	4108.97	
G5	4091.16	3882.75	4168.79	4161.47	3765.37	3931.49	3635.89	3930.65	4059.44	
G6	4020.21	3810.35	4137.95	4098.12	3650.31	3857.56	3515.49	3828.25	3984.77	
G7	3940.67	3725.49	4092.23	4031.34	3536.13	3767.13	3367.14	3721.17	3910.16	
G8	3842.45	3622.11	4024.38	3946.47	3407.25	3665.15	3216.65	3599.62	3812.12	
G9	3754.33	3499.54	3945.54	3851.95	3280.41	3542.81	3047.0	3460.68	3715.84	
G10	3636.49	3377.94	3869.95	3747.05	3156.5	3418.38	2901.29	3317.51	3603.98	
G11	3522.27	3243.96	3779.19	3637.32	3012.82	3275.41	2734.71	3171.52	3481.78	
G12	3379.24	3108.68	3674.7	3500.56	2852.64	3139.89	2576.61	3011.48	3355.31	
G13	3242.15	2954.71	3557.33	3374.88	2720.98	2978.88	2414.25	2853.29	3215.95	
G14	3096.58	2806.68	3436.56	3232.69	2562.65	2822.73	2265.15	2695.94	3069.68	
G15	2954.34	2662.64	3304.67	3093.7	2410.77	2663.01	2112.43	2532.27	2930.97	
G16	2794.44	2519.8	3171.29	2933.94	2266.35	2513.21	1969.87	2376.91	2775.84	
G17	2643.58	2366.39	3029.84	2782.84	2120.27	2360.13	1827.31	2223.97	2626.0	
G18	2497.21	2210.89	2874.21	2632.63	1980.31	2208.57	1698.71	2075.52	2473.42	
G19	2357.67	2065.27	2712.68	2484.18	1837.14	2058.68	1583.79	1932.91	2326.88	
G20	2202.45	1932.68	2558.62	2328.68	1712.16	1921.64	1479.72	1798.74	2183.9	
G21	2069.49	1802.5	2408.96	2182.37	1601.97	1801.85	1379.64	1675.89	2050.84	
G22	1942.32	1679.93	2264.73	2045.28	1488.12	1690.59	1278.64	1557.22	1920.67	
G23	1824.39	1560.97	2118.09	1916.82	1380.15	1587.22	1174.2	1441.56	1809.04	
G24	1718.93	1451.53	1979.52	1796.1	1277.71	1488.81	1055.61	1336.56	1705.2	
G25	1611.57	1344.54	1845.91	1683.41	1176.19	1391.14	926.55	1227.44	1600.12	
G26	1509.22	1241.4	1721.85	1577.44	1058.58	1297.51	790.67	1105.51	1498.51	
G27	1413.92	1141.46	1608.74	1480.19	931.05	1198.68	655.34	976.96	1404.45	
G28	1319.91	1022.5	1506.67	1370.55	799.8	1087.15	529.89	837.46	1308.78	
G29	1221.32	896.45	1403.34	1265.6	665.96	962.72	419.01	696.06	1214.31	
G30	1109.41	763.72	1303.82	1157.83	539.86	828.93	327.69	561.15	1103.66	
G31	979.83	634.66	1191.26	1036.55	427.31	692.81	260.49	442.15	973.2	
G32	840.8	515.42	1076.62	895.85	335.44	563.28	213.65	346.15	837.78	
G33	702.41	406.53	944.22	755.47	267.22	446.51	180.54	270.93	698.1	
G34	568.76	319.95	808.01	613.28	219.87	349.91	157.22	223.81	566.99	
G35	452.58	249.23	670.74	487.64	185.37	277.1	139.36	186.43	451.29	
G36	353.39	206.7	541.53	376.11	160.41	225.85	125.86	161.06	351.44	

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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	277.33	171.13	427.36	292.03	142.19	189.77	115.34	143.12	276.96	
G38	224.92	146.22	334.51	227.2	127.53	162.22	107.13	129.2	224.6	
G39	188.57	128.04	264.62	186.52	116.82	141.96	100.17	118.72	188.01	
G40	161.85	113.34	216.67	156.38	108.43	126.89	94.24	109.68	161.3	
G41	141.54	103.42	182.44	133.84	101.47	115.34	89.32	102.72	141.59	
G42	126.28	95.44	157.17	118.44	95.49	106.62	84.87	96.09	126.33	
G43	115.2	89.13	138.2	106.67	90.43	99.34	80.79	90.85	115.15	
G44	106.34	84.08	124.75	98.18	86.45	93.91	77.4	86.35	106.48	
G45	99.15	79.58	114.22	91.36	82.5	88.76	74.02	82.55	99.34	
G46	93.4	75.87	106.11	85.52	79.02	84.64	71.19	78.79	93.45	
G47	88.44	72.53	99.52	80.83	76.06	80.37	68.27	75.59	88.62	
G48	84.17	69.89	94.0	76.57	72.95	77.12	65.58	72.44	84.31	
G49	80.32	66.97	89.04	72.95	70.17	73.97	62.65	69.7	80.56	
G50	77.08	64.65	84.91	70.03	67.43	71.28	60.2	66.97	77.17	
G51	74.29	62.38	81.11	67.06	64.88	68.64	57.32	64.23	74.2	
G52	71.23	59.92	77.91	64.46	62.0	65.9	54.86	61.59	71.23	
G53	68.54	57.46	74.8	62.05	59.73	63.07	52.4	59.04	68.54	
G54	65.71	55.19	72.16	59.73	57.18	60.66	50.23	56.3	65.71	
G55	63.16	52.82	69.29	57.27	54.86	57.92	47.58	54.03	63.03	
G56	60.38	50.69	66.64	54.91	52.4	55.42	45.4	51.57	60.34	
G57	57.83	48.18	63.95	52.64	50.18	53.15	43.36	49.39	57.88	
G58	55.42	46.14	61.36	50.23	47.63	50.6	41.37	46.79	55.65	
G59	53.05	44.1	58.8	47.58	45.73	48.18	39.19	44.8	53.24	
G60	51.01	42.3	56.53	45.49	43.36	46.01	37.1	42.67	50.87	
G61	48.46	40.39	54.07	43.55	41.51	44.1	34.78	40.86	48.46	
G62	46.42	38.45	51.89	41.55	39.1	42.2	32.42	38.4	46.7	
G63	44.57	36.36	49.72	39.74	36.78	40.07	29.77	35.9	44.61	
G64	42.71	34.5	47.4	38.07	34.09	38.26	27.08	33.21	42.62	
G65	40.67	32.19	45.26	36.31	31.21	36.08	23.79	30.33	40.76	
G66	38.54	29.91	43.27	34.36	27.96	33.72	19.8	27.22	38.58	
G67	36.27	27.04	41.23	32.42	24.16	31.16	17.58	23.23	36.5	
G68	34.04	24.25	39.0	30.33	19.9	28.61	15.58	19.52	34.04	
G69	31.58	20.82	36.73	28.06	17.58	25.69	13.91	17.11	31.63	
G70	29.03	16.7	34.36	25.79	15.86	21.75	12.43	15.35	29.12	
G71	26.3	13.4	31.49	23.14	14.1	18.64	10.76	13.68	26.11	
G72	22.26	11.78	28.66	19.99	12.43	16.6	9.37	11.97	22.26	
G73	18.88	10.3	25.09	16.23	10.99	14.75	7.98	10.57	19.01	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:03:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/10/25 18:03:34

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