

Report No.:

Test Time: 2024/7/22 14:29:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-38°-15W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

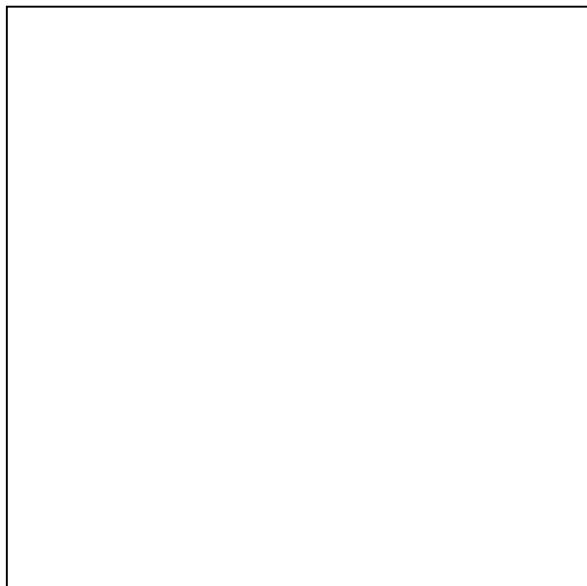
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.46 W
Power Factor: 0.9530
Lamp Luminous Flux: 1516.48

Photometric Results

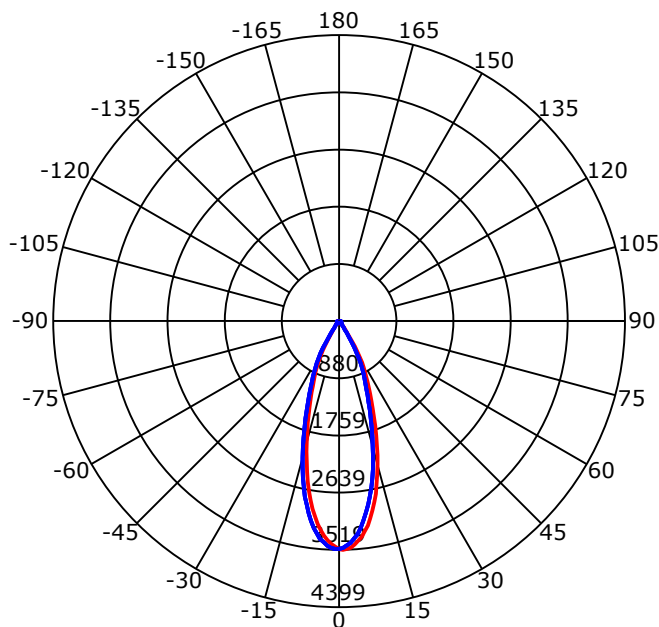
CIE Class: Direct
Luminaire Luminous Flux: 1516.483 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.09 lm/W
Beam Angle(50%) C0-180,C90-270: 34.7,34.6
Field Angle(10%) C0-180,C90-270: 64.0,63.6
S/MH C0-180,C90-270: 0.573,0.573

Max. Intensity: 3518.97 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3509.23 cd
Effective Luminous Flux: 1351.77 lm
ERP(ϕ use)(120deg): 1497.57 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 34.7 deg,34.6 deg

C0-180 — C90-270 —

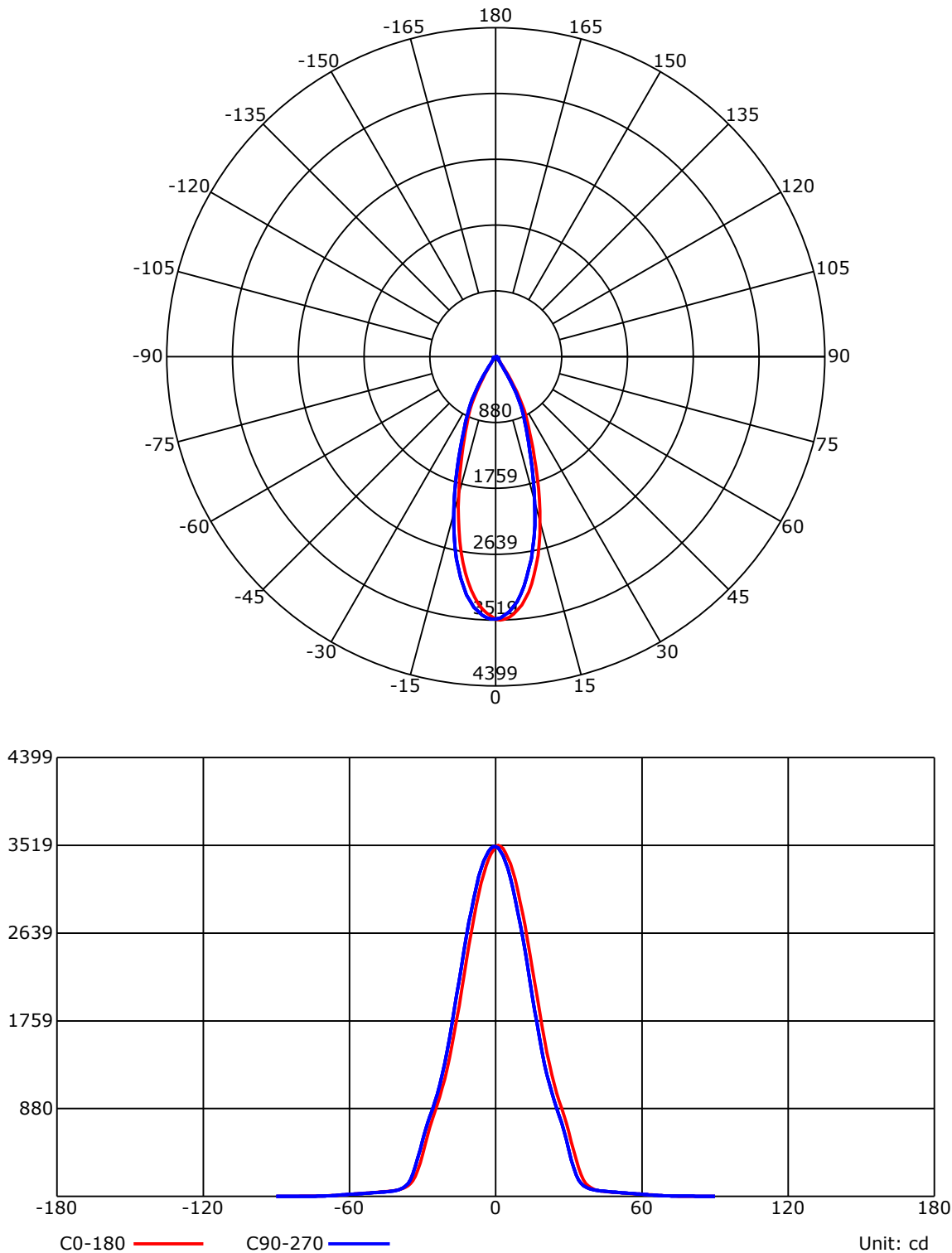
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/22 14:29:26

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 Intensity Distribution Curve



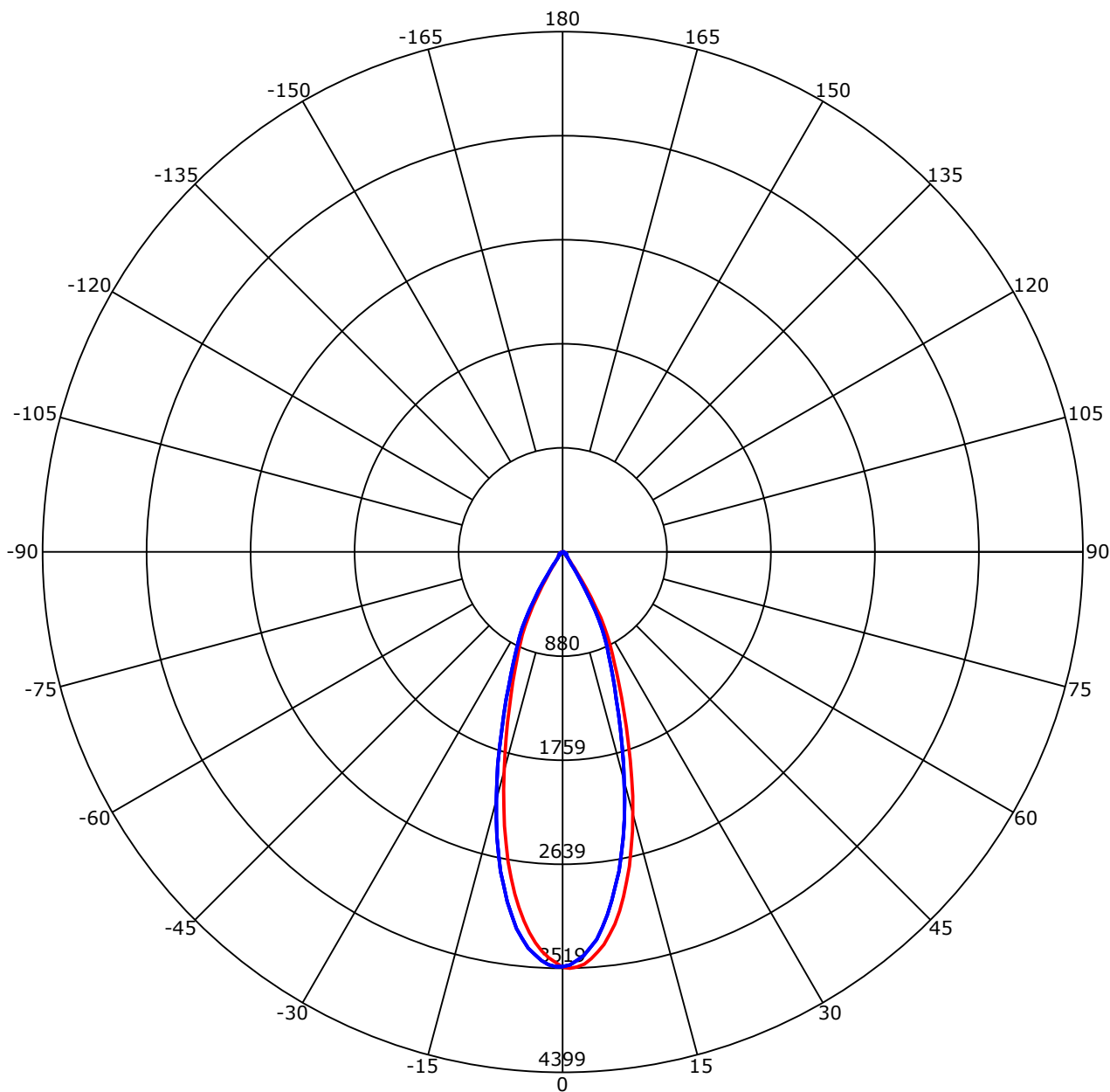
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
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Luminous Intensity Distribution Curve



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: 2024/7/22 14:29:26

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

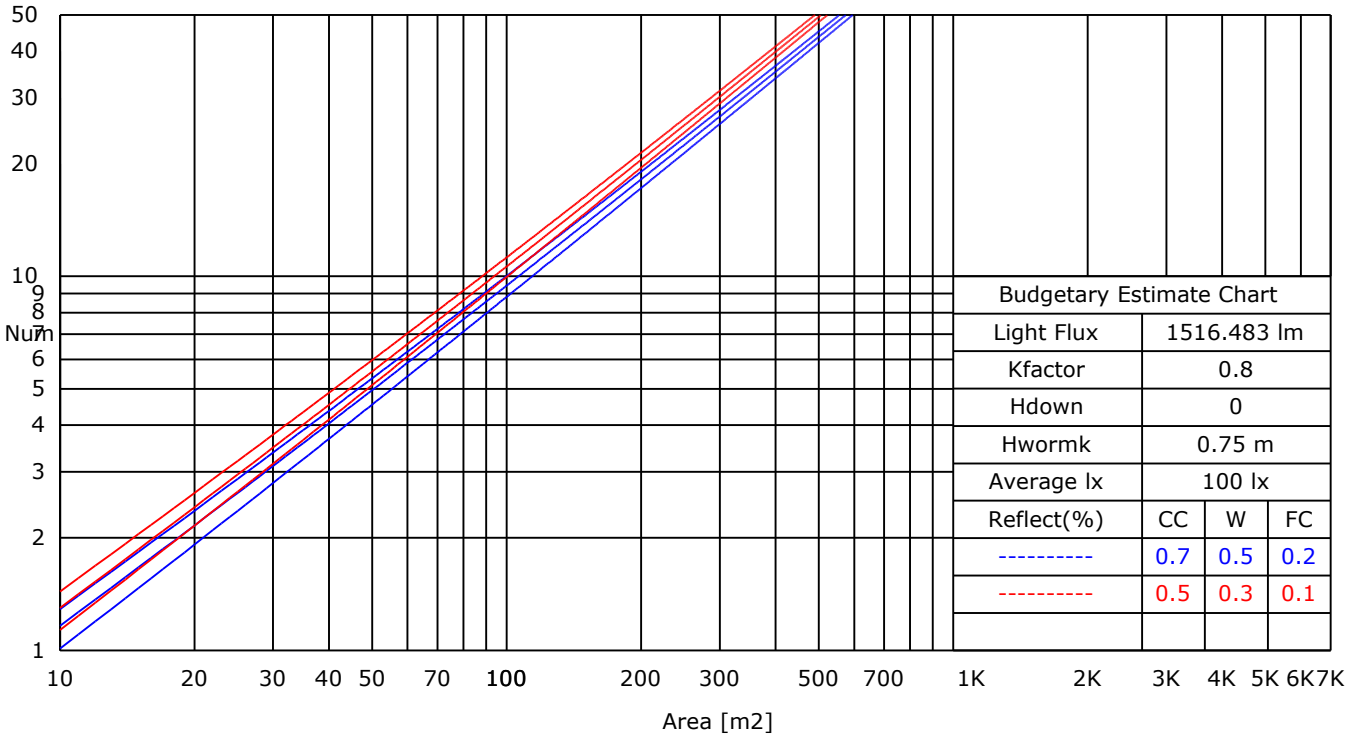
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UTILIZATION FACTORS TABLE

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	0.98	0.96	0.94	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.84	0.81	0.78	0.73
2	0.94	0.92	0.91	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.75	0.71
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.67
5	0.85	0.84	0.83	0.85	0.82	0.81	0.82	0.79	0.77	0.80	0.76	0.73	0.76	0.72	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	0.74	0.70	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	0.78	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	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	0.59
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



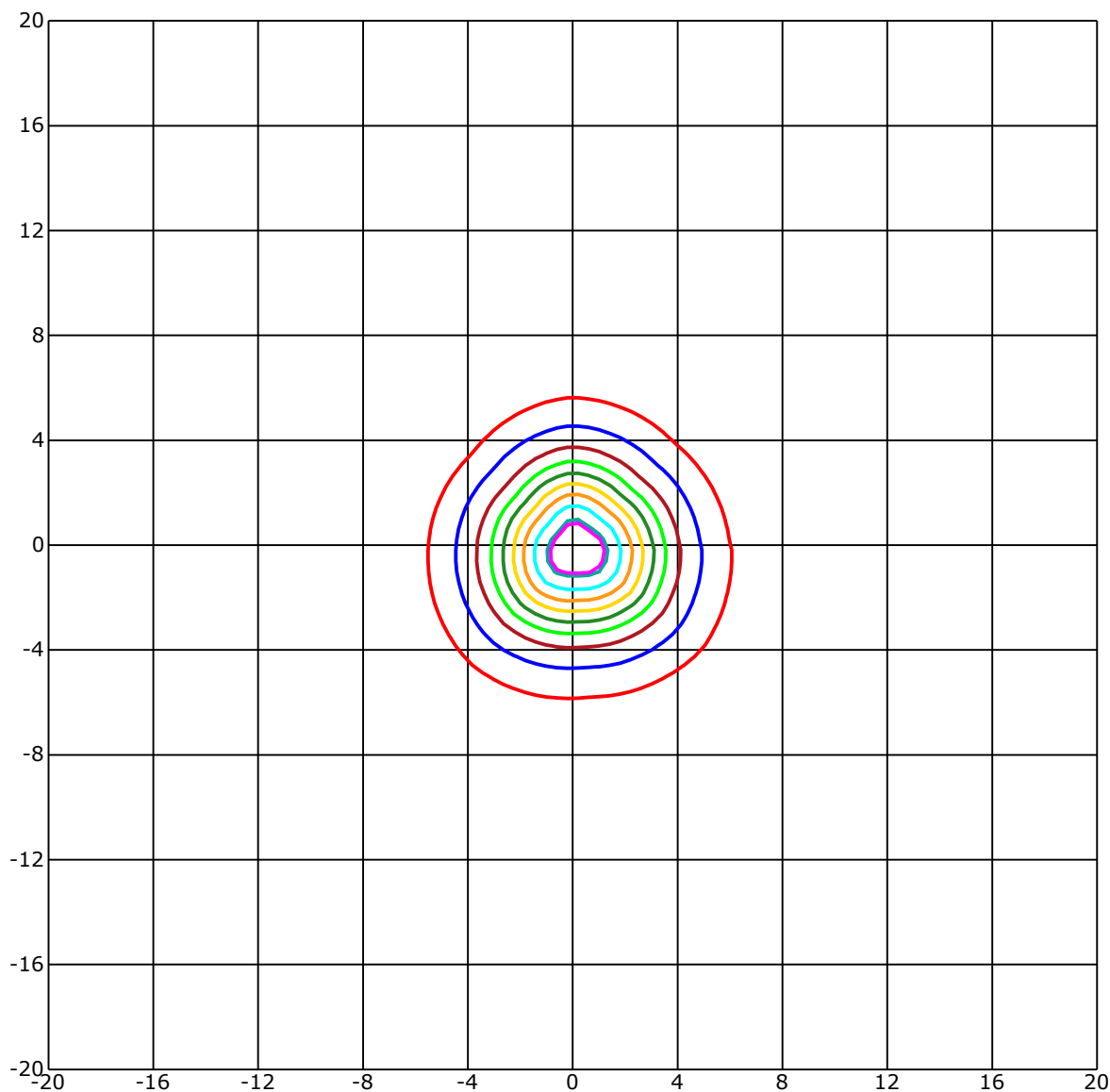
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C Interval: 45.0 Deg
Test Speed: High
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

32.36(92%Emax)	17.587(50%Emax)
31.656(90%Emax)	14.069(40%Emax)
28.139(80%Emax)	10.552(30%Emax)
24.622(70%Emax)	7.035(20%Emax)
21.104(60%Emax)	3.517(10%Emax)

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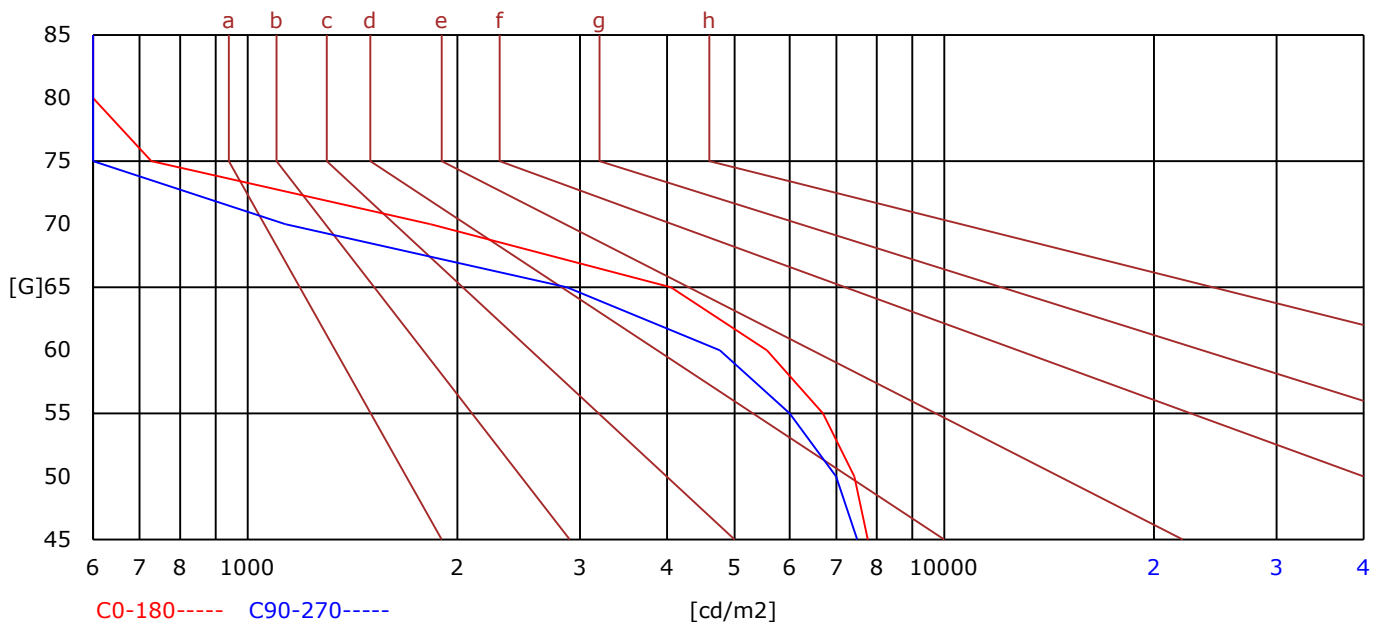
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7767	7432	6696	5564	4052	1831	728	191	0
C90	7501	6992	6000	4766	2872	1134	257	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



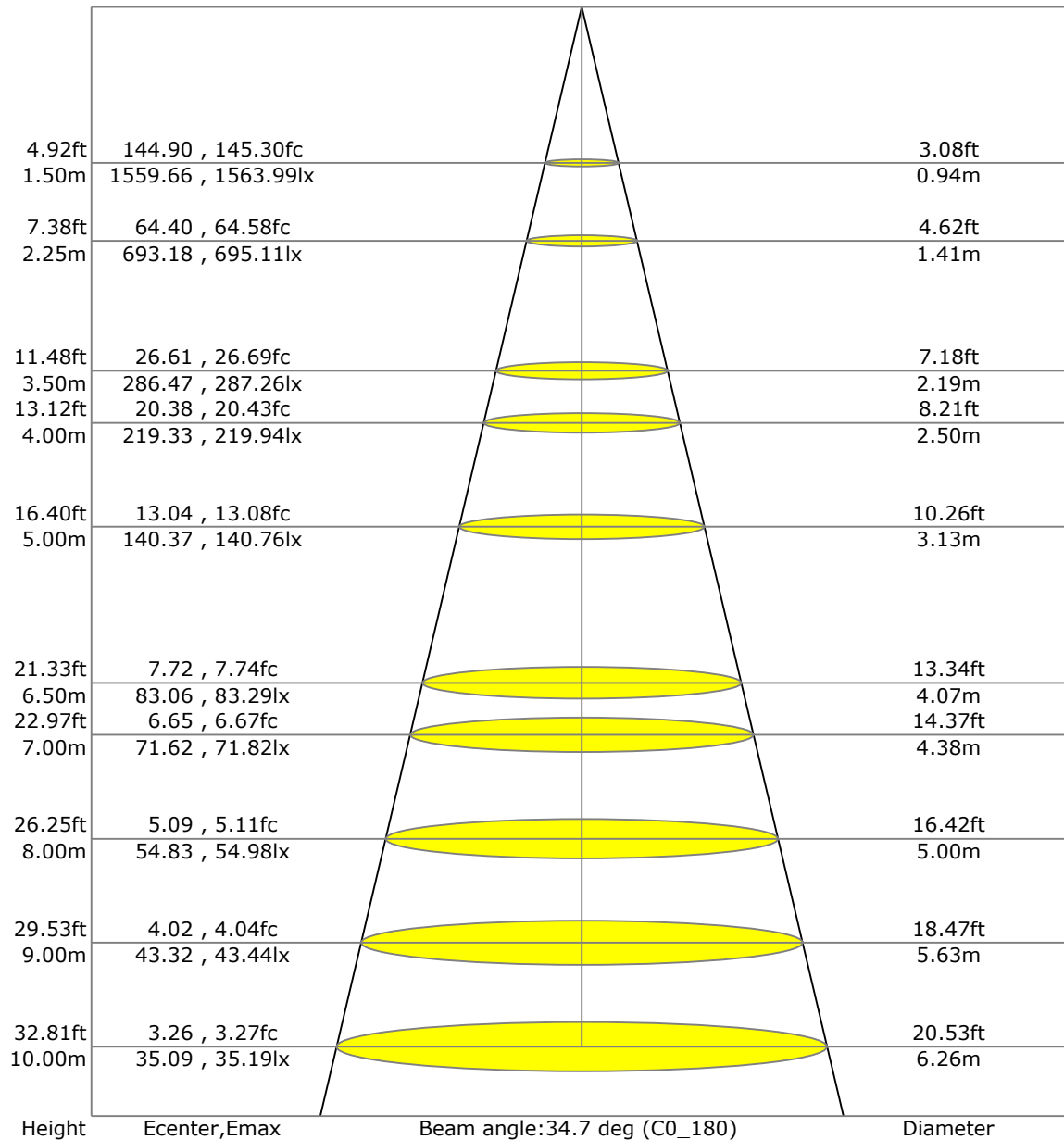
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/22 14:29:26

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/7/22 14:29:26

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	7.32	7.37	7.52	7.56	7.80	7.38	7.43	7.58	7.62	7.86
	3H	7.33	7.39	7.54	7.58	7.82	7.39	7.44	7.60	7.64	7.88
	4H	7.32	7.37	7.53	7.57	7.82	7.38	7.43	7.59	7.63	7.88
	6H	7.30	7.36	7.52	7.56	7.81	7.36	7.42	7.58	7.62	7.87
	8H	7.30	7.35	7.51	7.55	7.81	7.35	7.41	7.57	7.61	7.86
	12H	7.29	7.34	7.51	7.55	7.80	7.35	7.40	7.57	7.61	7.86
4H	2H	7.82	7.87	8.03	8.07	8.32	7.81	7.86	8.02	8.06	8.31
	3H	7.83	7.89	8.05	8.09	8.35	7.83	7.88	8.05	8.09	8.34
	4H	7.82	7.87	8.04	8.08	8.34	7.81	7.86	8.04	8.08	8.33
	6H	7.79	7.85	8.03	8.07	8.33	7.79	7.84	8.02	8.06	8.32
	8H	7.78	7.83	8.03	8.06	8.33	7.77	7.83	8.02	8.05	8.32
	12H	7.77	7.82	8.02	8.05	8.32	7.76	7.81	8.01	8.04	8.31
8H	4H	7.80	7.86	8.02	8.06	8.31	7.83	7.88	8.05	8.09	8.34
	6H	7.76	7.81	8.02	8.05	8.32	7.80	7.85	8.06	8.09	8.36
	8H	7.75	7.80	8.01	8.04	8.32	7.79	7.84	8.05	8.08	8.36
	12H	7.73	7.78	8.00	8.03	8.31	7.77	7.82	8.04	8.07	8.35
12H	4H	7.78	7.83	8.03	8.06	8.33	7.83	7.88	8.08	8.11	8.38
	6H	7.75	7.80	8.01	8.04	8.32	7.80	7.85	8.06	8.09	8.37

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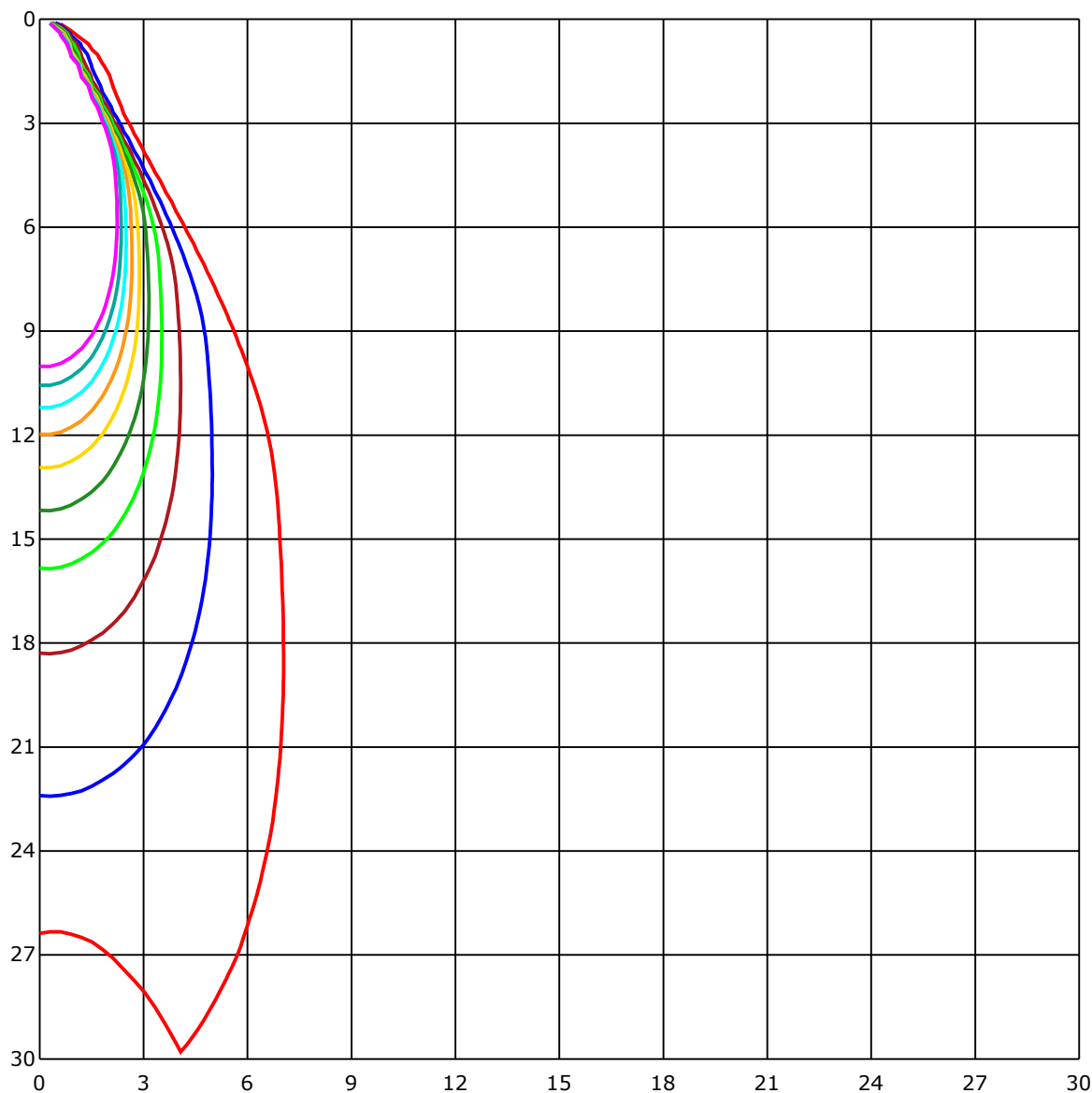
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

34.982
31.484
27.985
24.487
20.989

17.491
13.993
10.495
6.996
3.498

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G Interval: 1.0 Deg
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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3509.23	3491.72	3504.88	3469.73	3509.23	3491.72	3504.88	3469.73	3509.23	
G1	3518.97	3474.94	3491.9	3415.41	3469.14	3502.23	3505.77	3492.49	3518.97	
G2	3508.02	3424.61	3454.02	3354.9	3430.22	3500.48	3489.48	3509.86	3508.02	
G3	3487.64	3370.93	3415.1	3272.48	3378.15	3468.25	3457.61	3509.59	3487.64	
G4	3445.67	3304.98	3352.3	3193.12	3312.7	3440.06	3409.4	3497.78	3445.67	
G5	3391.3	3223.46	3287.74	3087.44	3229.03	3386.32	3362.31	3458.73	3391.3	
G6	3335.78	3127.49	3190.38	2975.94	3137.54	3315.89	3282.76	3417.16	3335.78	
G7	3258.03	3026.8	3089.55	2849.66	3028.59	3239.67	3207.3	3351.44	3258.03	
G8	3175.52	2913.14	2973.15	2725.23	2918.57	3144.1	3100.1	3278.27	3175.52	
G9	3073.21	2794.0	2854.96	2593.34	2789.78	3045.29	2993.89	3203.98	3073.21	
G10	2956.14	2654.17	2737.44	2447.4	2658.03	2934.64	2870.58	3106.61	2956.14	
G11	2835.07	2520.89	2599.98	2293.97	2513.89	2810.07	2751.67	2992.46	2835.07	
G12	2716.47	2383.93	2463.7	2149.06	2367.54	2695.87	2613.59	2881.53	2716.47	
G13	2570.67	2223.04	2318.12	2001.51	2214.83	2553.03	2470.48	2758.54	2570.67	
G14	2433.89	2067.32	2160.29	1856.7	2070.42	2399.77	2317.49	2630.6	2433.89	
G15	2287.5	1922.86	2007.57	1710.53	1912.85	2251.28	2171.69	2488.39	2287.5	
G16	2146.64	1767.14	1863.25	1575.77	1774.64	2100.99	2022.97	2355.24	2146.64	
G17	1995.09	1633.82	1721.35	1440.21	1640.28	1952.98	1875.95	2199.74	1995.09	
G18	1850.9	1496.27	1579.68	1320.31	1511.45	1806.15	1725.3	2054.44	1850.9	
G19	1705.78	1371.12	1447.12	1214.77	1385.58	1669.19	1582.42	1905.36	1705.78	
G20	1574.07	1256.61	1326.37	1115.34	1276.76	1525.77	1455.74	1762.07	1574.07	
G21	1443.08	1156.82	1221.01	1026.28	1173.96	1396.44	1332.34	1629.28	1443.08	
G22	1327.85	1061.74	1124.72	944.35	1082.88	1284.17	1215.58	1505.52	1327.85	
G23	1219.35	978.96	1040.15	868.35	996.38	1185.72	1113.9	1379.34	1219.35	
G24	1124.81	906.01	958.63	795.14	920.07	1088.36	1024.61	1270.66	1124.81	
G25	1034.36	835.22	883.97	719.81	848.56	1006.7	950.32	1171.32	1034.36	
G26	959.07	760.53	810.71	636.85	777.76	927.65	873.02	1086.02	959.07	
G27	883.44	684.44	736.38	543.39	694.99	859.46	802.54	1002.66	883.44	
G28	810.08	597.93	652.52	450.79	608.39	792.67	730.99	932.9	810.08	
G29	731.53	502.9	564.0	360.83	517.27	719.72	653.1	856.28	731.53	
G30	644.08	407.92	462.41	279.49	423.72	629.13	566.83	785.08	644.08	
G31	546.31	321.59	365.99	210.98	336.54	538.46	472.2	703.16	546.31	
G32	454.06	245.55	282.09	160.26	261.57	444.1	383.9	614.01	454.06	
G33	366.98	183.2	213.81	124.88	199.98	355.89	300.58	518.66	366.98	
G34	285.72	138.8	162.5	102.12	156.76	275.58	227.23	425.24	285.72	
G35	217.67	111.1	129.96	85.74	127.58	208.33	169.37	336.9	217.67	
G36	165.69	91.93	107.96	73.75	106.48	159.22	128.61	259.37	165.69	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	128.79	77.88	92.74	65.05	91.13	127.8	103.79	198.14	128.79	
G38	104.86	68.23	81.43	59.3	80.26	106.84	86.73	154.69	104.86	
G39	87.49	61.36	73.13	55.26	71.64	91.53	74.74	125.83	87.49	
G40	74.65	56.29	67.07	52.21	65.67	80.49	65.67	105.36	74.65	
G41	65.54	52.75	61.99	49.51	61.19	72.63	59.25	89.82	65.54	
G42	59.08	50.1	58.18	47.63	57.59	66.93	53.91	79.1	59.08	
G43	54.09	48.08	55.12	45.65	54.59	62.62	50.23	71.64	54.09	
G44	50.95	45.97	52.66	44.13	52.12	59.61	47.54	66.3	50.95	
G45	48.03	44.49	50.55	42.96	49.78	57.19	45.2	62.04	48.03	
G46	45.47	43.18	48.44	41.79	47.54	54.9	43.41	59.03	45.47	
G47	43.45	42.38	46.24	40.4	45.16	53.33	41.97	56.02	43.45	
G48	41.75	41.21	44.13	39.5	43.23	51.49	40.27	53.96	41.75	
G49	40.09	40.0	42.47	37.71	40.89	50.05	38.61	52.07	40.09	
G50	38.61	38.7	40.31	36.41	38.87	48.26	36.81	50.64	38.61	
G51	36.76	37.17	38.34	34.7	37.08	46.37	35.15	48.93	36.76	
G52	35.01	35.78	36.41	33.04	35.24	44.76	33.53	47.45	35.01	
G53	33.31	34.34	34.57	31.38	33.31	43.36	31.78	45.47	33.31	
G54	31.38	32.9	32.64	29.63	31.65	41.52	30.08	43.99	31.38	
G55	29.58	31.11	30.93	27.88	29.85	39.41	28.33	42.56	29.58	
G56	27.88	29.45	29.22	26.17	28.19	37.57	26.66	40.67	27.88	
G57	26.4	27.52	27.74	24.51	26.44	35.69	25.27	38.87	26.4	
G58	25.05	25.81	25.95	22.8	24.96	33.8	23.7	36.94	25.05	
G59	23.57	24.24	24.2	20.96	22.94	32.01	22.18	35.15	23.57	
G60	22.18	22.53	22.36	19.3	21.37	30.08	20.74	33.49	22.18	
G61	20.47	20.87	20.51	17.42	19.66	28.59	19.3	31.38	20.47	
G62	19.12	19.17	18.45	15.58	17.06	26.53	17.87	29.54	19.12	
G63	17.69	17.51	15.31	13.92	13.78	24.73	16.43	27.83	17.69	
G64	16.34	15.71	12.88	11.9	12.03	22.89	14.36	26.17	16.34	
G65	14.05	13.87	11.58	9.83	10.59	21.05	11.9	24.33	14.05	
G66	11.22	12.21	10.28	7.68	9.38	19.08	9.07	22.62	11.22	
G67	9.11	10.23	9.11	5.97	8.35	17.06	7.99	20.47	9.11	
G68	7.86	7.9	7.99	4.85	7.41	15.13	6.46	18.72	7.86	
G69	6.91	6.37	7.0	3.95	6.28	12.93	5.43	16.88	6.91	
G70	5.93	5.07	5.97	3.14	5.48	10.5	4.58	15.04	5.93	
G71	4.94	4.22	5.25	2.47	4.53	8.93	3.77	12.93	4.94	
G72	4.08	3.5	4.31	1.8	3.91	7.86	2.74	10.77	4.08	
G73	3.28	2.6	3.64	1.08	3.32	6.91	2.06	9.16	3.28	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/22 14:29:26

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: 2024/7/22 14:29:26

Remarks: