

Report No.:

Test Time: 2024/10/27 13:58:47

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H67-15°-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 63 mm

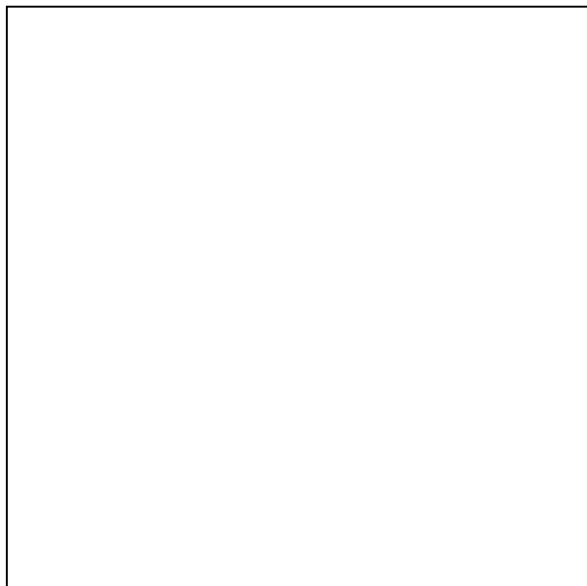
Voltage(V): 220.00 V
Current(A): 0.0530 A
Power(W): 10.82 W
Power Factor: 0.9170
Lamp Luminous Flux: 1140.64

Photometric Results

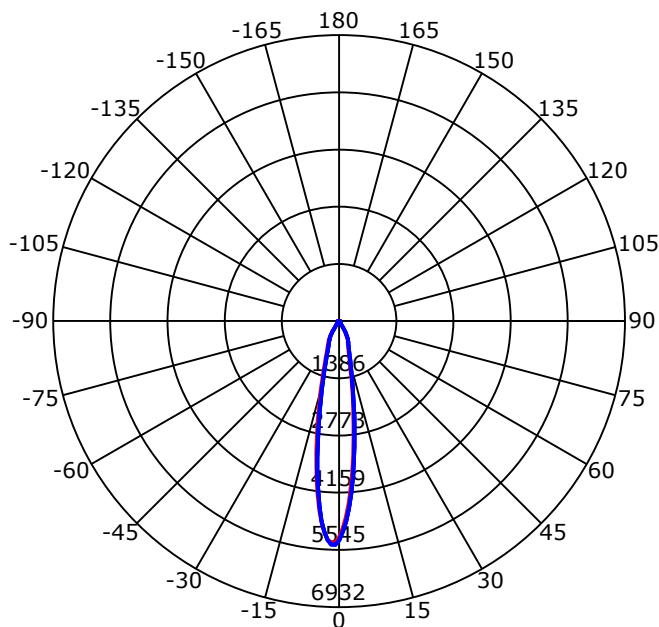
CIE Class: Direct
Luminaire Luminous Flux: 1140.636 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.42 lm/W
Beam Angle(50%) C0-180,C90-270: 18.9,18.7
Field Angle(10%) C0-180,C90-270: 51.1,50.5
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 5545.47 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5234.75 cd
Effective Luminous Flux: 881.12 lm
ERP(ϕ use)(120deg): 1121.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.9 deg,18.7 deg

C0-180 — C90-270 —

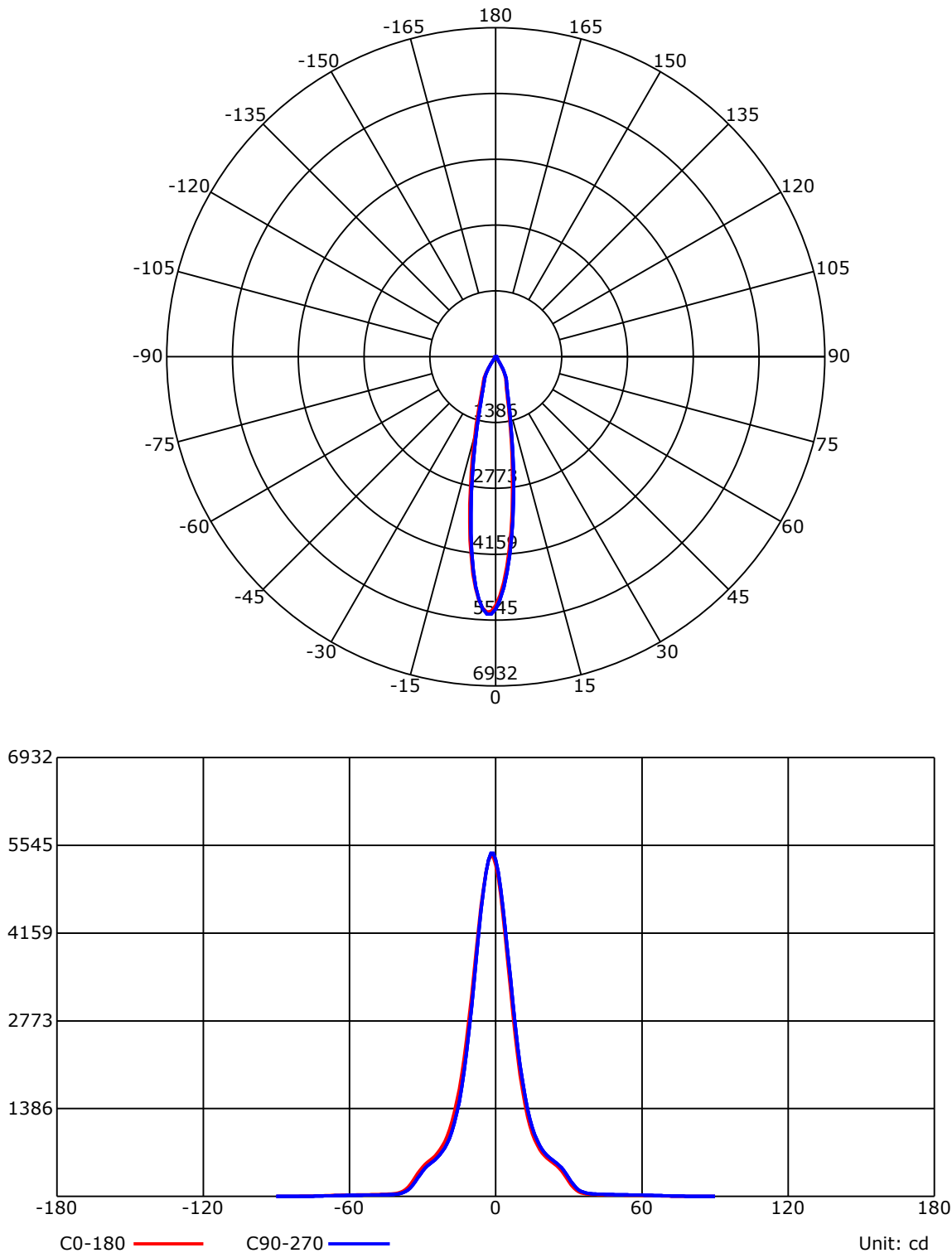
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 13:58:47

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 Intensity Distribution Curve



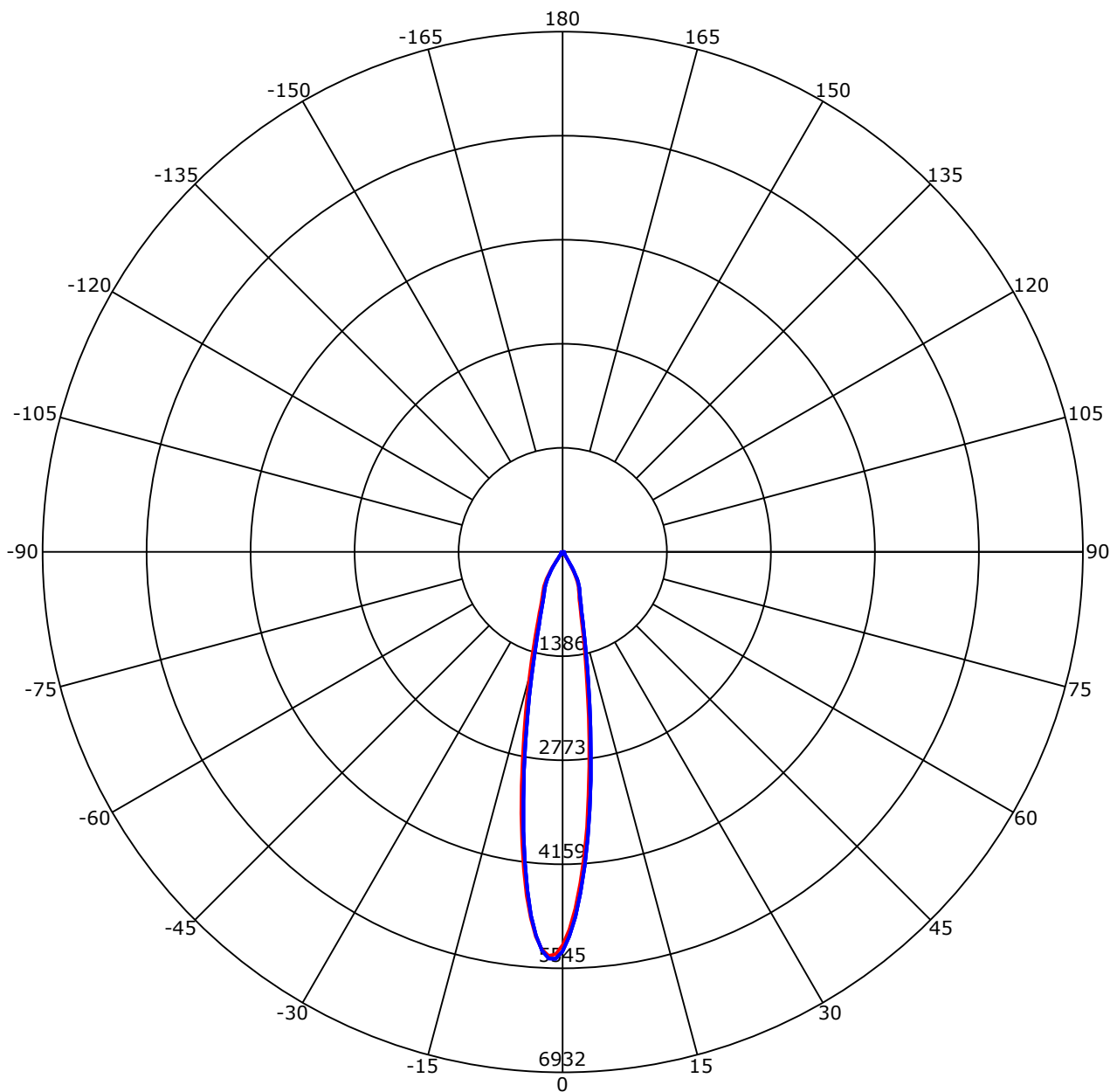
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Luminous Intensity Distribution Curve



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: 2024/10/27 13:58:47

G Range: 0 - 90 Deg
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Humidity: 60
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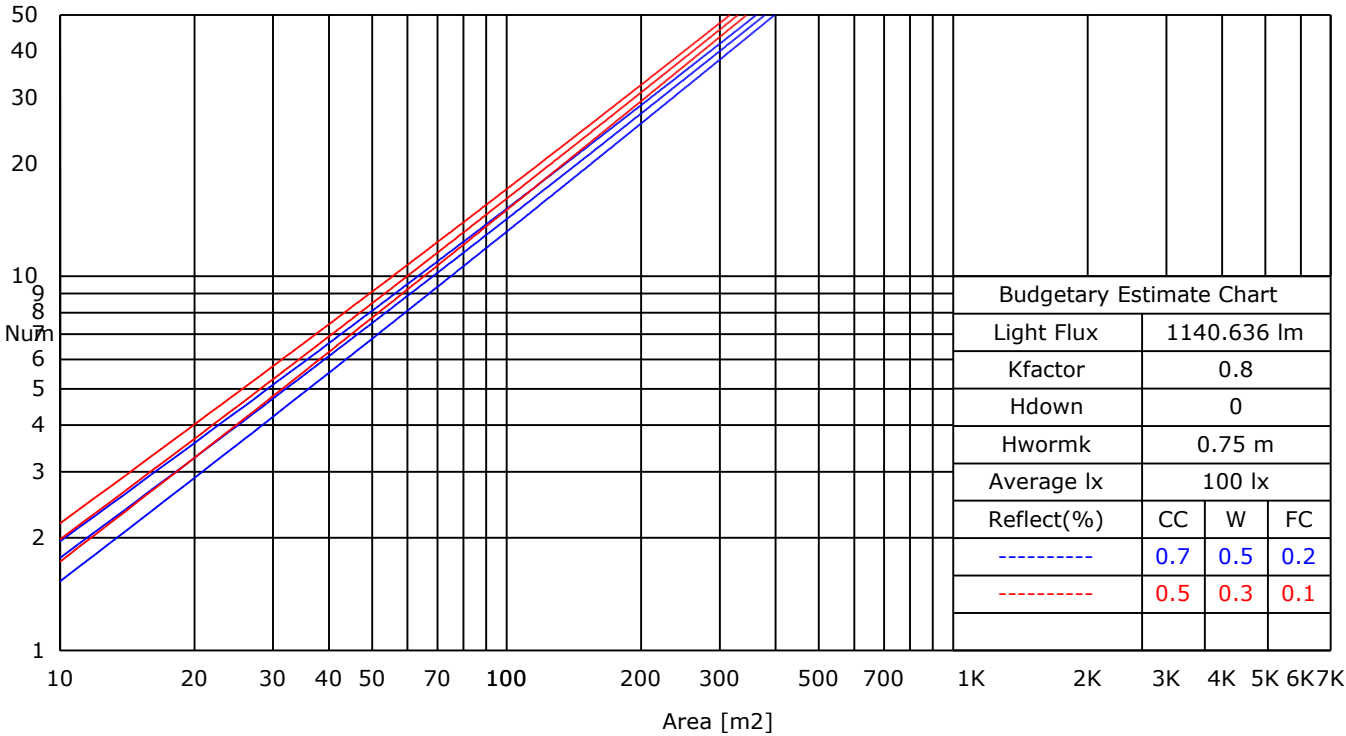
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UTILIZATION FACTORS TABLE

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	0.88	0.84	0.82	0.87	0.84	0.80	0.85	0.81	0.77	0.81	0.77	0.73	0.76	0.72	0.68	0.63
2	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.61
3	0.80	0.78	0.76	0.80	0.77	0.74	0.78	0.74	0.71	0.76	0.71	0.68	0.72	0.68	0.63	0.59
4	0.77	0.75	0.73	0.77	0.74	0.72	0.76	0.72	0.69	0.73	0.69	0.65	0.71	0.66	0.61	0.57
5	0.75	0.73	0.71	0.75	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	0.62	0.67	0.62	0.58	0.54
7	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.66	0.63	0.68	0.63	0.60	0.65	0.60	0.57	0.53
8	0.69	0.67	0.66	0.69	0.66	0.65	0.67	0.64	0.62	0.66	0.62	0.59	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	0.64	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



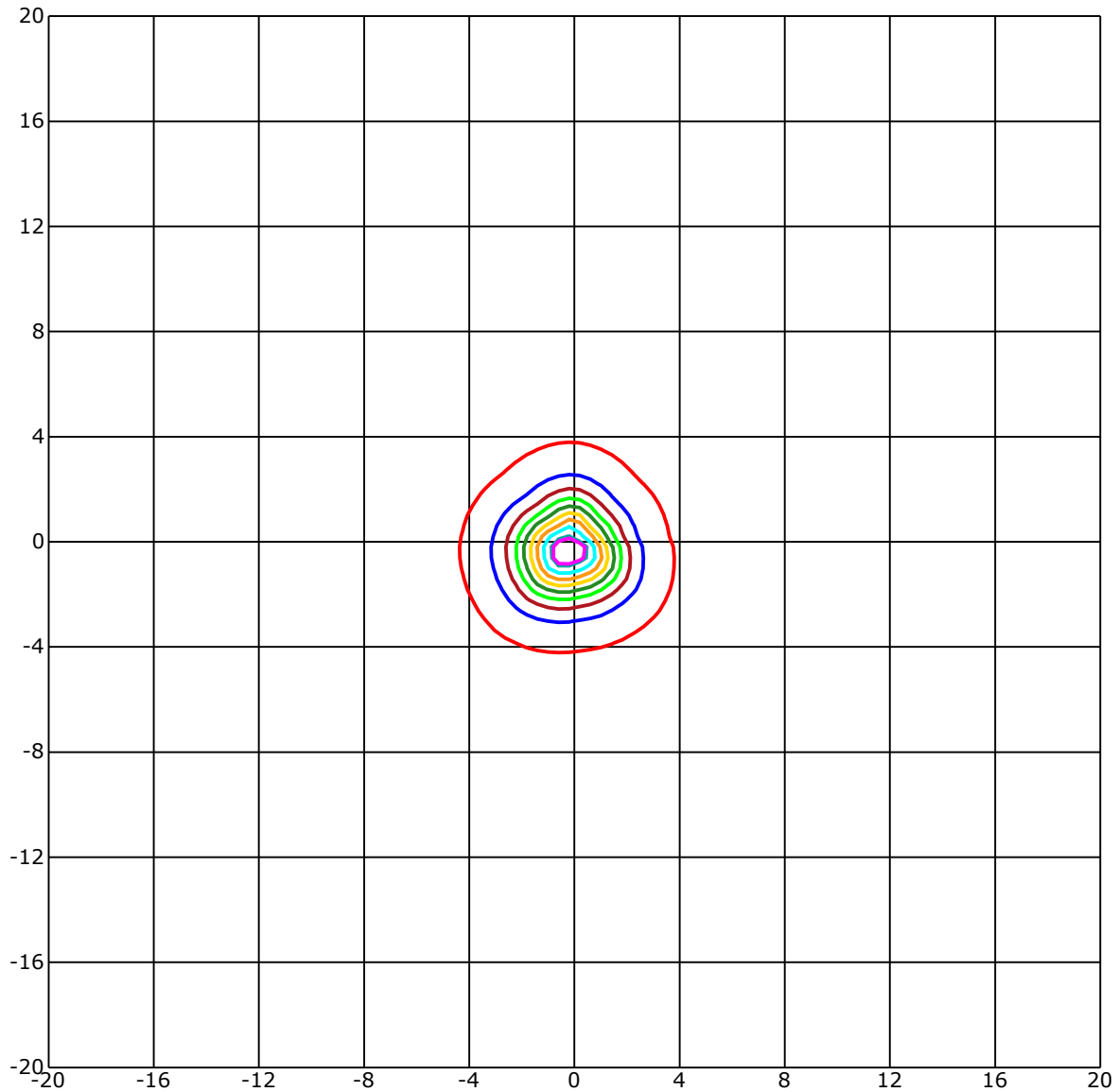
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



50.809(92%Emax)
49.704(90%Emax)
44.182(80%Emax)
38.659(70%Emax)
33.136(60%Emax)

27.614(50%Emax)
22.091(40%Emax)
16.568(30%Emax)
11.045(20%Emax)
5.523(10%Emax)

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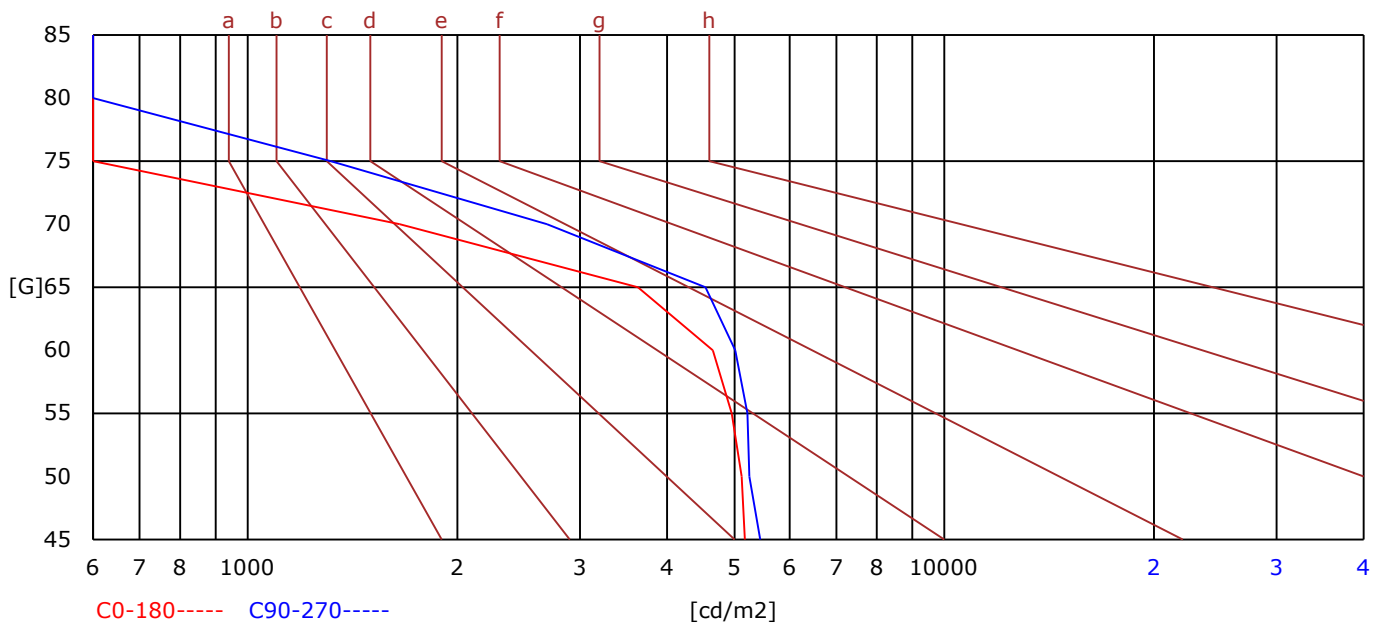
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5175	5118	4952	4652	3635	1653	336	0	0
C90	5442	5253	5218	5014	4544	2691	1316	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



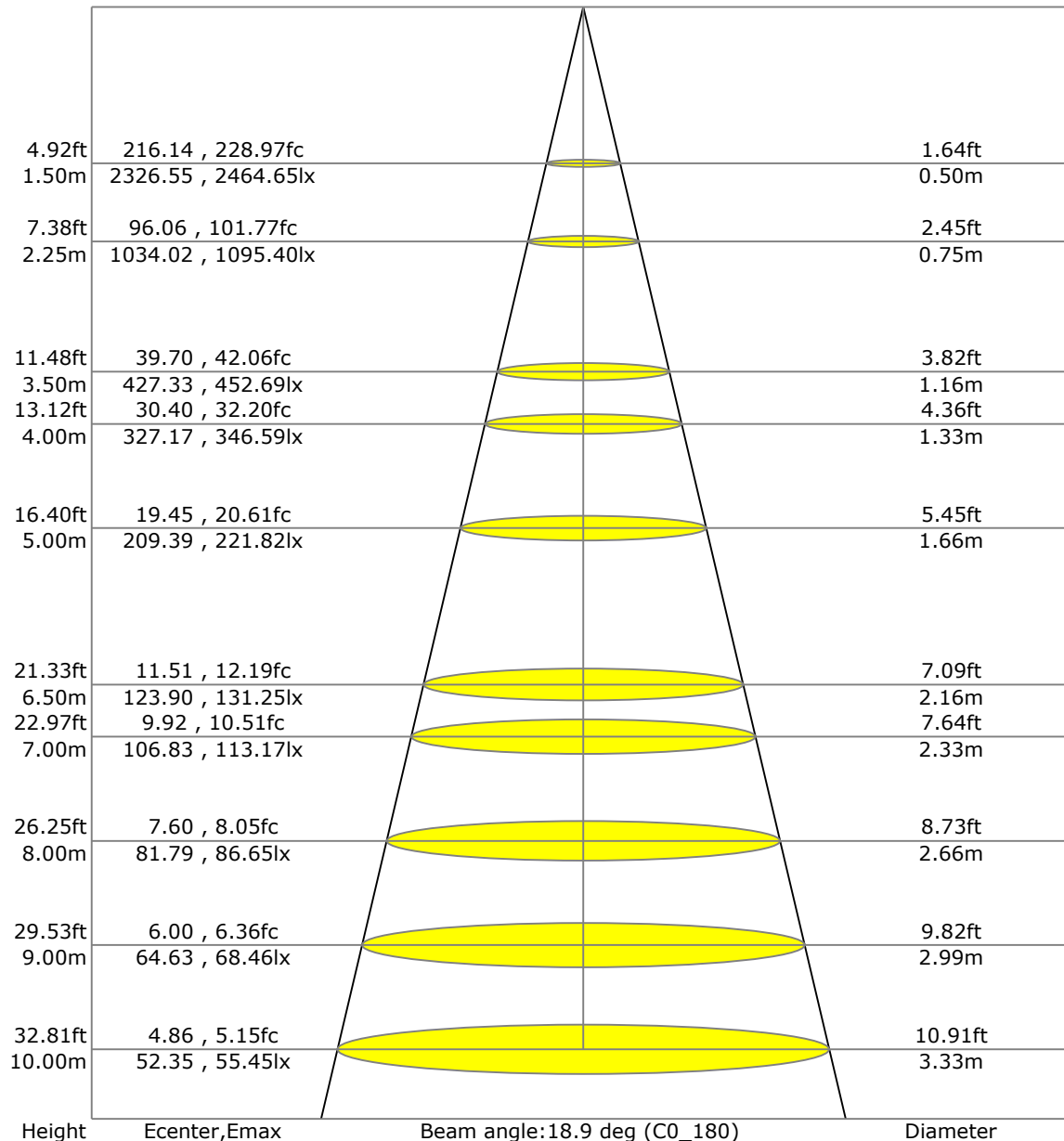
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Temperature: 25
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LX-DISTANCE DIAGRAM



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:

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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	5.98	6.04	6.18	6.23	6.47	6.46	6.52	6.66	6.71	6.95
3H	6.05	6.11	6.26	6.31	6.55	6.49	6.55	6.69	6.74	6.99
4H	6.04	6.11	6.25	6.30	6.55	6.47	6.54	6.68	6.73	6.98
6H	6.03	6.09	6.24	6.29	6.54	6.46	6.52	6.67	6.72	6.97
8H	6.02	6.08	6.24	6.29	6.54	6.45	6.51	6.67	6.71	6.97
12H	6.01	6.07	6.23	6.28	6.54	6.44	6.50	6.66	6.71	6.96
4H 2H	6.81	6.87	7.02	7.06	7.31	7.78	7.84	7.99	8.04	8.29
3H	6.87	6.93	7.09	7.14	7.39	7.80	7.87	8.03	8.07	8.33
4H	6.85	6.92	7.08	7.13	7.39	7.78	7.85	8.01	8.06	8.32
6H	6.83	6.90	7.07	7.12	7.38	7.76	7.82	8.00	8.05	8.31
8H	6.82	6.88	7.07	7.11	7.38	7.75	7.81	7.99	8.04	8.31
12H	6.81	6.87	7.06	7.10	7.37	7.73	7.80	7.98	8.03	8.30
8H 4H	6.78	6.85	7.00	7.05	7.30	7.84	7.90	8.06	8.11	8.36
6H	6.79	6.85	7.05	7.09	7.37	7.82	7.88	8.07	8.12	8.39
8H	6.78	6.84	7.04	7.08	7.36	7.80	7.86	8.06	8.11	8.38
12H	6.76	6.82	7.03	7.07	7.36	7.78	7.84	8.06	8.09	8.38
12H 4H	6.81	6.87	7.06	7.10	7.37	7.85	7.91	8.10	8.14	8.41
6H	6.78	6.84	7.04	7.08	7.36	7.82	7.88	8.08	8.12	8.40

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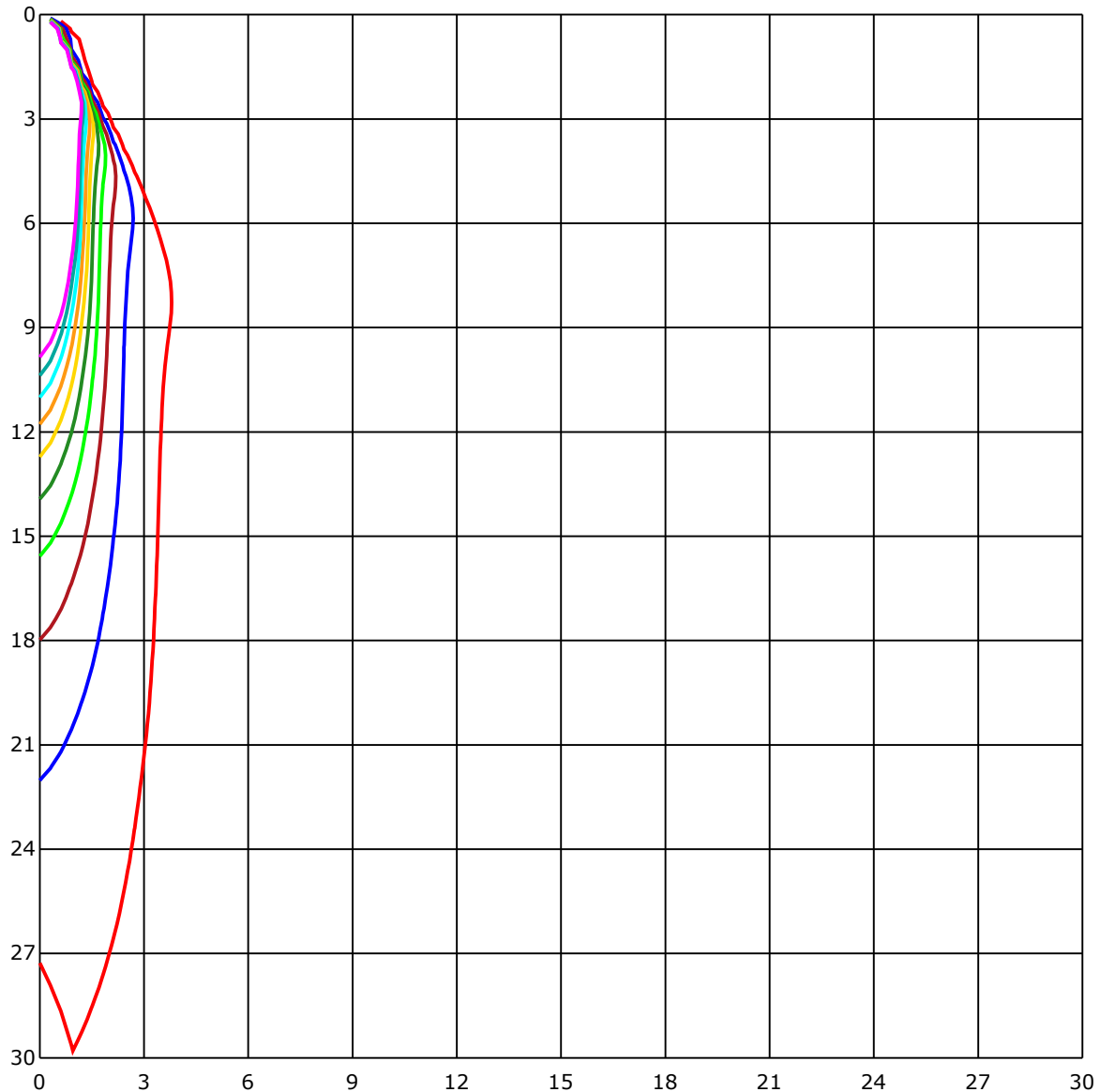
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

53.962	26.981
48.566	21.585
43.169	16.189
37.773	10.792
32.377	5.396

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5234.75	5035.56	5317.76	5199.41	5234.75	5035.56	5317.76	5199.41	5234.75	
G1	5029.53	4712.6	5122.1	5035.7	5360.2	5292.39	5420.44	5276.53	5029.53	
G2	4756.29	4340.34	4864.11	4789.12	5381.2	5470.29	5419.93	5253.48	4756.29	
G3	4416.81	3963.07	4546.67	4492.69	5300.23	5545.47	5314.33	5150.07	4416.81	
G4	4061.16	3554.08	4196.16	4166.1	5134.9	5513.47	5121.45	4946.66	4061.16	
G5	3678.51	3157.75	3832.24	3796.58	4896.25	5374.06	4860.45	4678.0	3678.51	
G6	3269.05	2767.12	3457.25	3411.94	4603.29	5149.79	4522.64	4356.71	3269.05	
G7	2878.1	2414.71	3064.16	3037.82	4256.63	4861.1	4150.2	4009.26	2878.1	
G8	2524.48	2093.51	2702.24	2680.77	3901.9	4513.32	3757.25	3641.5	2524.48	
G9	2203.65	1822.95	2370.79	2355.03	3527.69	4144.96	3354.15	3257.78	2203.65	
G10	1907.82	1587.5	2076.81	2068.7	3157.15	3751.08	2964.5	2886.12	1907.82	
G11	1656.0	1380.66	1812.7	1806.81	2805.24	3358.65	2596.09	2534.59	1656.0	
G12	1442.07	1213.11	1585.97	1588.06	2478.71	2966.82	2265.29	2217.52	1442.07	
G13	1260.27	1074.77	1389.06	1390.87	2185.57	2612.55	1971.22	1935.55	1260.27	
G14	1110.8	954.28	1226.46	1225.81	1928.97	2287.69	1714.06	1692.5	1110.8	
G15	989.67	860.88	1092.02	1094.24	1700.01	2009.2	1490.62	1482.18	989.67	
G16	892.0	783.43	977.79	979.19	1499.8	1757.19	1306.88	1301.96	892.0	
G17	810.61	718.74	886.29	886.76	1331.41	1537.83	1153.42	1150.5	810.61	
G18	740.58	669.67	807.27	807.59	1183.8	1350.8	1024.08	1025.84	740.58	
G19	686.04	625.71	744.43	738.82	1055.2	1200.45	916.67	918.8	686.04	
G20	642.49	592.04	691.0	684.56	953.45	1069.29	833.61	836.25	642.49	
G21	604.47	565.42	650.01	639.71	865.1	960.36	762.33	769.89	604.47	
G22	570.19	536.39	613.79	603.07	793.36	870.57	705.24	713.5	570.19	
G23	540.75	506.84	581.74	568.34	732.46	797.76	653.9	667.77	540.75	
G24	514.08	477.35	553.08	540.93	682.24	733.44	611.24	627.61	514.08	
G25	482.45	438.3	523.49	511.3	639.34	683.44	576.59	595.1	482.45	
G26	446.0	389.28	491.63	480.13	603.86	643.1	545.66	563.28	446.0	
G27	399.99	335.76	451.89	440.62	569.59	605.21	514.22	533.88	399.99	
G28	345.69	276.82	405.05	398.09	539.77	572.7	483.52	500.77	345.69	
G29	288.32	220.19	350.46	342.35	507.31	541.44	445.03	460.0	288.32	
G30	230.26	167.51	291.29	285.68	467.93	510.51	399.25	409.87	230.26	
G31	176.65	123.96	233.13	229.38	419.7	471.74	345.18	354.5	176.65	
G32	131.8	91.59	180.4	176.18	364.66	423.04	289.62	295.55	131.8	
G33	97.2	69.52	136.76	132.03	306.18	369.2	233.23	238.42	97.2	
G34	73.14	55.7	103.74	95.86	246.67	309.65	180.63	185.04	73.14	
G35	57.65	44.85	80.97	74.11	193.48	251.54	134.86	139.41	57.65	
G36	46.79	38.35	66.32	58.29	145.95	196.31	99.94	106.11	46.79	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	39.98	33.95	56.35	47.44	109.4	149.05	74.67	84.5	39.98	
G38	35.25	31.3	49.3	39.79	84.27	112.32	58.29	69.01	35.25	
G39	32.14	29.36	44.01	34.55	67.29	85.89	47.3	58.34	32.14	
G40	30.1	27.78	40.72	31.44	56.21	69.19	39.65	50.5	30.1	
G41	28.57	26.67	38.07	29.36	49.07	57.04	34.5	44.52	28.57	
G42	27.18	25.55	36.13	27.96	43.55	49.21	31.49	40.9	27.18	
G43	26.16	24.67	34.32	26.48	40.3	43.73	29.17	38.31	26.16	
G44	25.14	23.93	32.97	25.51	37.75	40.3	27.64	36.27	25.14	
G45	24.39	23.42	31.67	24.63	35.94	37.94	26.39	34.64	24.39	
G46	23.65	22.82	30.65	23.98	34.23	35.94	25.37	33.11	23.65	
G47	23.05	22.4	29.63	23.19	32.97	34.32	24.39	31.86	23.05	
G48	22.45	21.98	28.99	22.54	31.67	32.88	23.7	30.89	22.45	
G49	21.98	21.43	28.2	22.08	30.52	31.63	23.23	30.05	21.98	
G50	21.38	21.05	27.36	21.61	29.77	30.56	22.63	28.99	21.38	
G51	20.87	20.45	26.67	21.15	29.03	29.63	21.98	28.2	20.87	
G52	20.27	19.8	26.06	20.59	28.1	28.8	21.43	27.55	20.27	
G53	19.71	19.52	25.37	20.27	27.45	28.06	20.96	26.57	19.71	
G54	19.11	18.74	24.76	19.94	26.57	27.22	20.54	26.06	19.11	
G55	18.6	18.18	24.02	19.15	25.92	26.48	19.9	25.23	18.6	
G56	17.9	18.04	23.28	18.64	25.04	25.79	19.34	24.44	17.9	
G57	17.53	17.11	22.49	18.09	24.35	25.14	18.78	23.7	17.53	
G58	16.65	16.28	21.84	17.39	23.65	24.44	18.41	23.14	16.65	
G59	16.0	15.63	21.15	16.7	23.1	23.65	17.62	22.26	16.0	
G60	15.44	14.89	20.31	16.05	22.12	22.72	17.16	21.43	15.44	
G61	14.56	14.14	19.43	15.54	21.43	22.17	16.32	20.54	14.56	
G62	13.82	13.17	18.74	14.89	20.73	21.38	15.68	19.66	13.82	
G63	12.94	12.2	17.81	13.91	19.99	20.5	14.84	18.83	12.94	
G64	11.92	10.99	16.83	13.12	19.06	19.66	14.14	17.99	11.92	
G65	10.76	9.83	15.77	12.29	18.23	19.01	13.31	16.93	10.76	
G66	9.37	8.39	14.56	11.27	17.3	18.04	12.38	15.86	9.37	
G67	8.02	6.86	13.22	9.92	16.28	17.16	11.32	14.65	8.02	
G68	6.35	5.19	11.92	8.86	15.16	16.19	10.39	13.4	6.35	
G69	5.1	4.27	9.97	7.47	14.1	15.12	9.14	12.06	5.1	
G70	4.27	3.62	8.35	5.89	12.8	13.82	7.93	10.57	4.27	
G71	3.62	3.06	7.51	4.68	11.59	12.61	6.17	8.77	3.62	
G72	3.01	2.41	6.77	4.13	9.79	11.18	4.96	7.7	3.01	
G73	2.46	1.81	5.89	3.34	8.58	9.46	4.17	6.86	2.46	

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Test System: Huipu CPM-1600B Goniophotometer
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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: 2024/10/27 13:58:47

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