

Report No.:

Test Time: 2024/7/17 17:43:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-24°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

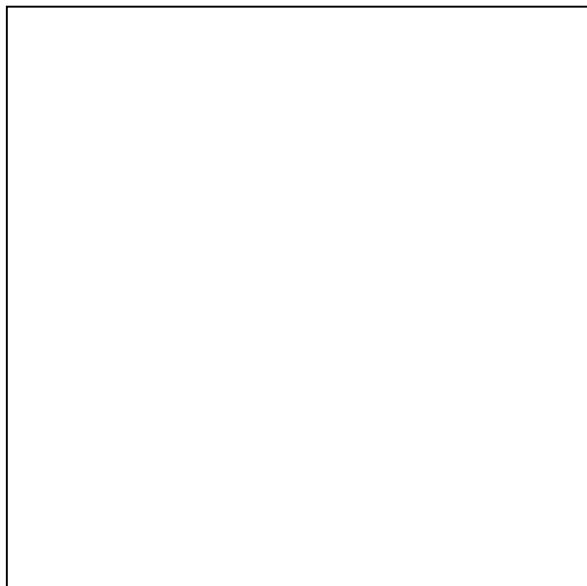
Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.65 W
Power Factor: 0.9180
Lamp Luminous Flux: 1030.98

Photometric Results

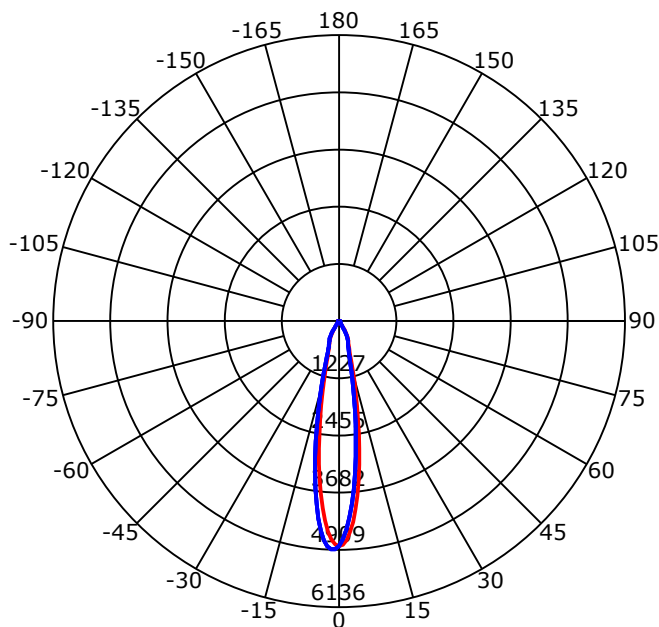
CIE Class: Direct
Luminaire Luminous Flux: 1030.98 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.81 lm/W
Beam Angle(50%) C0-180,C90-270: 20.2,20.0
Field Angle(10%) C0-180,C90-270: 49.3,48.2
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 4909.08 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4828.14 cd
Effective Luminous Flux: 788.28 lm
ERP(ϕ use)(120deg): 1019.46 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.2 deg,20.0 deg

C0-180 — C90-270 —

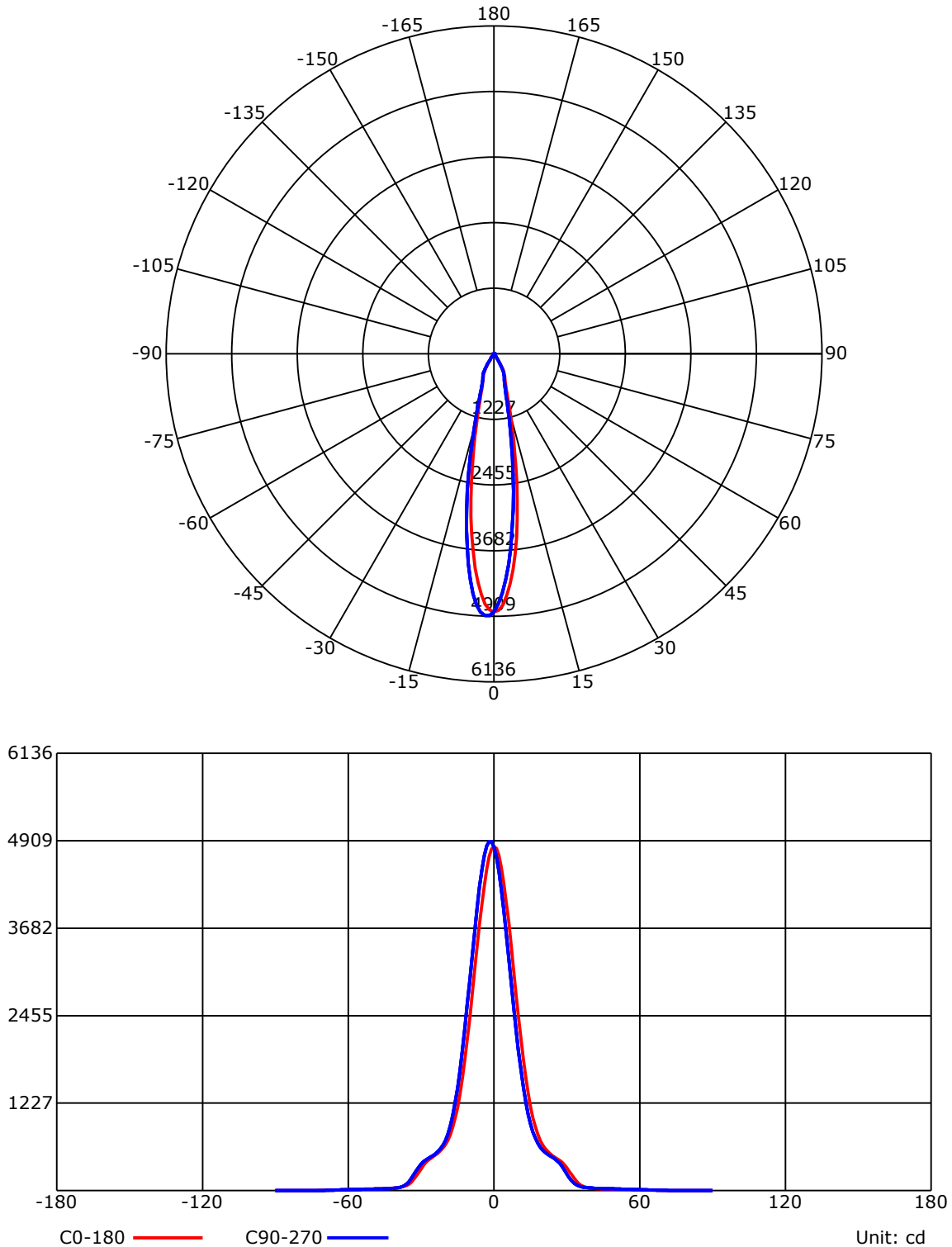
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 17:43:17

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



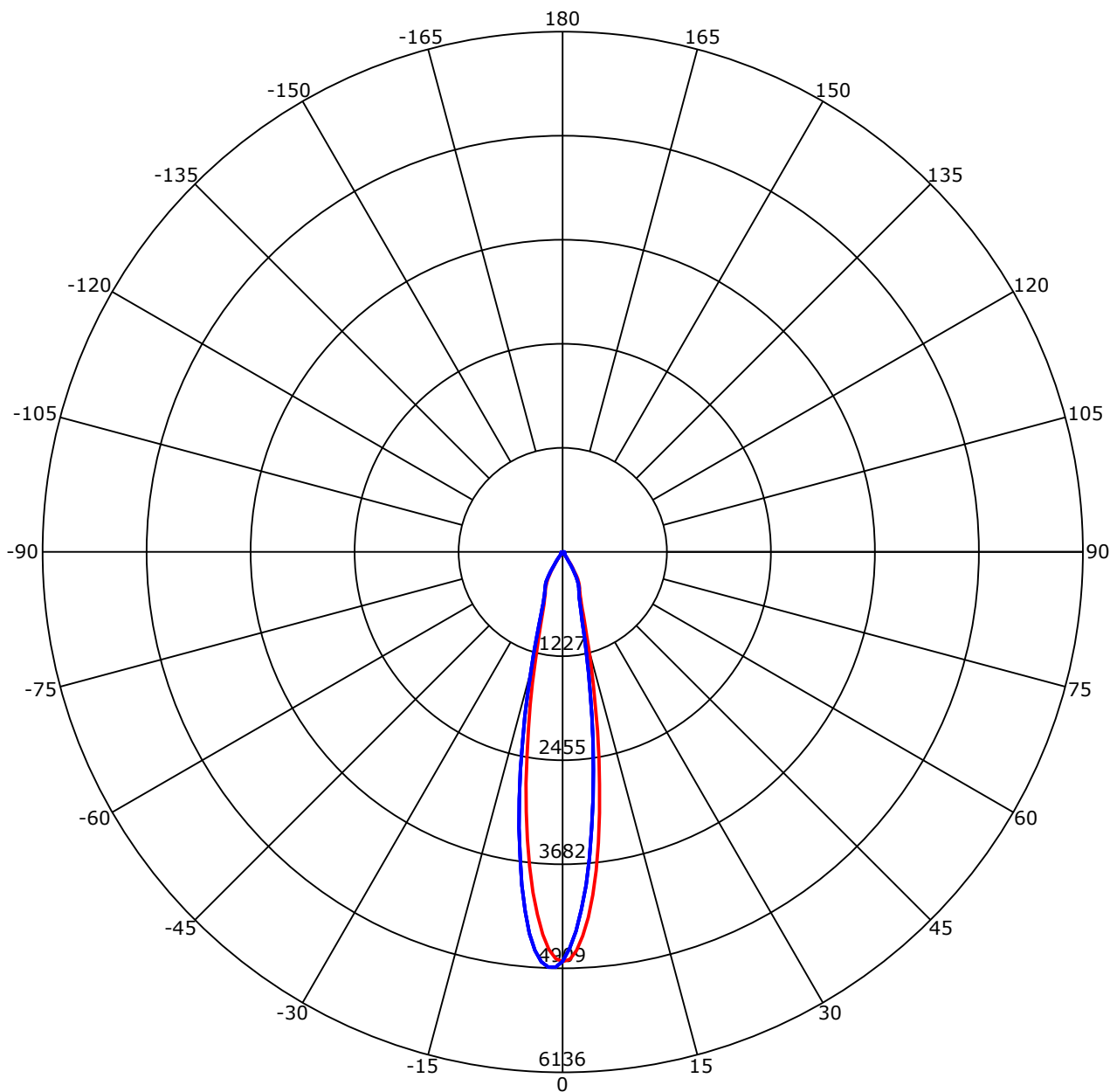
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Luminous Intensity Distribution Curve



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: 2024/7/17 17:43:17

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

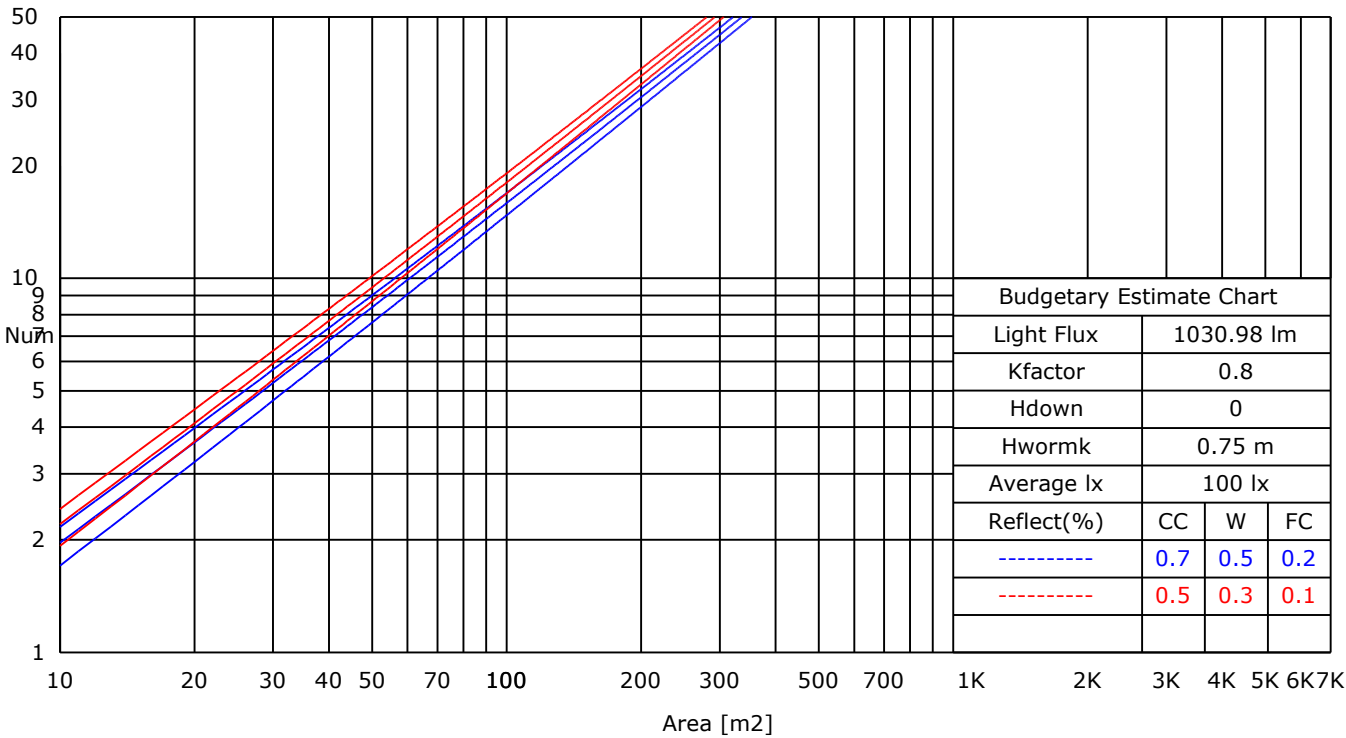
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UTILIZATION FACTORS TABLE

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	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.62
2	0.82	0.79	0.77	0.82	0.79	0.76	0.81	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.79	0.77	0.75	0.79	0.76	0.73	0.78	0.73	0.70	0.75	0.71	0.67	0.72	0.67	0.63	0.58
4	0.76	0.74	0.73	0.76	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.74	0.72	0.71	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.55
6	0.72	0.70	0.69	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.64	0.61	0.67	0.62	0.58	0.54
7	0.70	0.68	0.67	0.70	0.67	0.66	0.69	0.65	0.63	0.67	0.63	0.59	0.65	0.60	0.56	0.53
8	0.68	0.67	0.66	0.68	0.66	0.64	0.67	0.64	0.61	0.65	0.61	0.58	0.64	0.59	0.55	0.52
9	0.67	0.65	0.64	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51
10	0.65	0.64	0.63	0.65	0.63	0.62	0.64	0.61	0.59	0.62	0.58	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



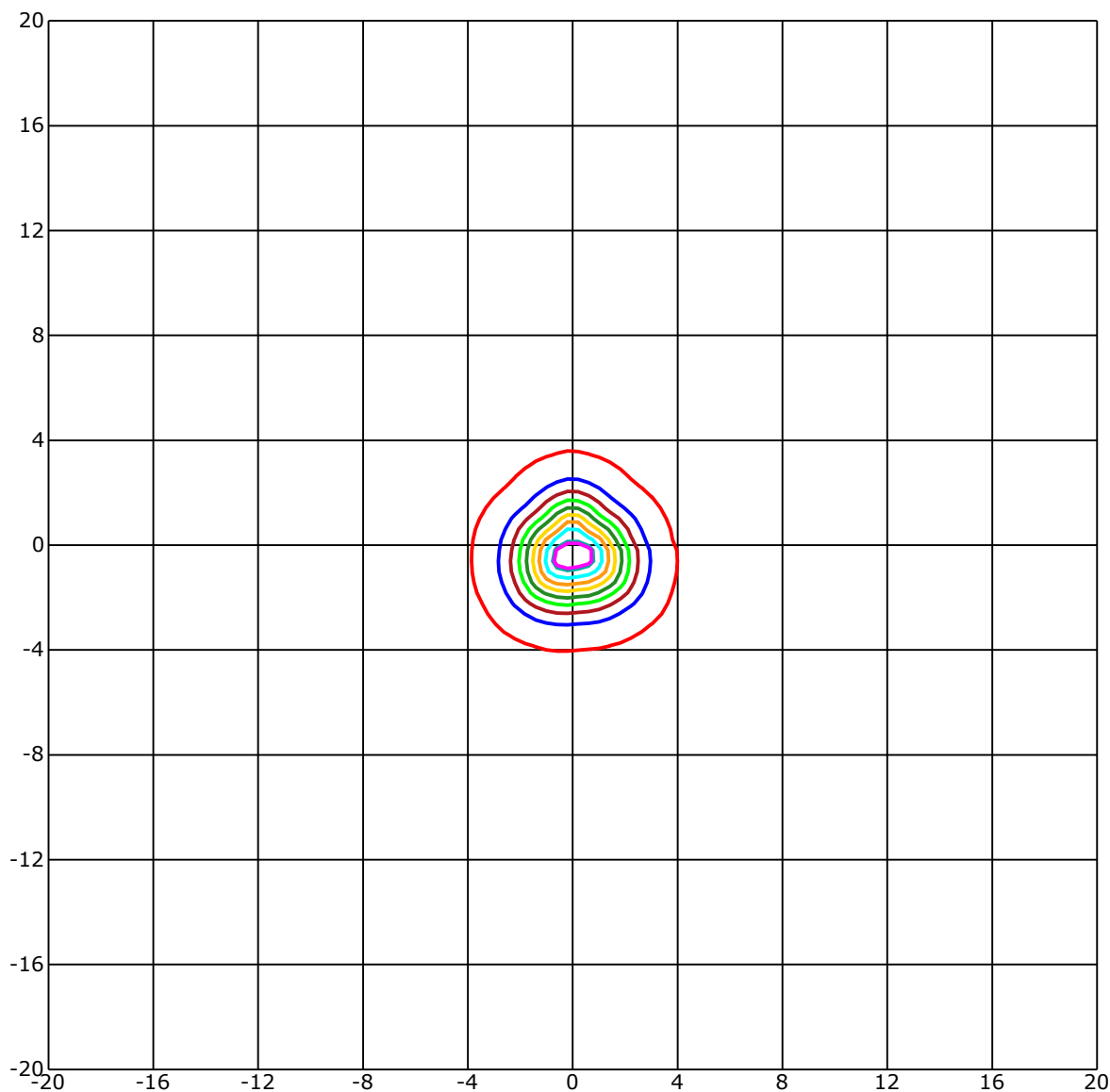
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ISOLX DIAGRAM



45.017(92%Emax)	24.466(50%Emax)
44.038(90%Emax)	19.572(40%Emax)
39.145(80%Emax)	14.679(30%Emax)
34.252(70%Emax)	9.786(20%Emax)
29.359(60%Emax)	4.893(10%Emax)

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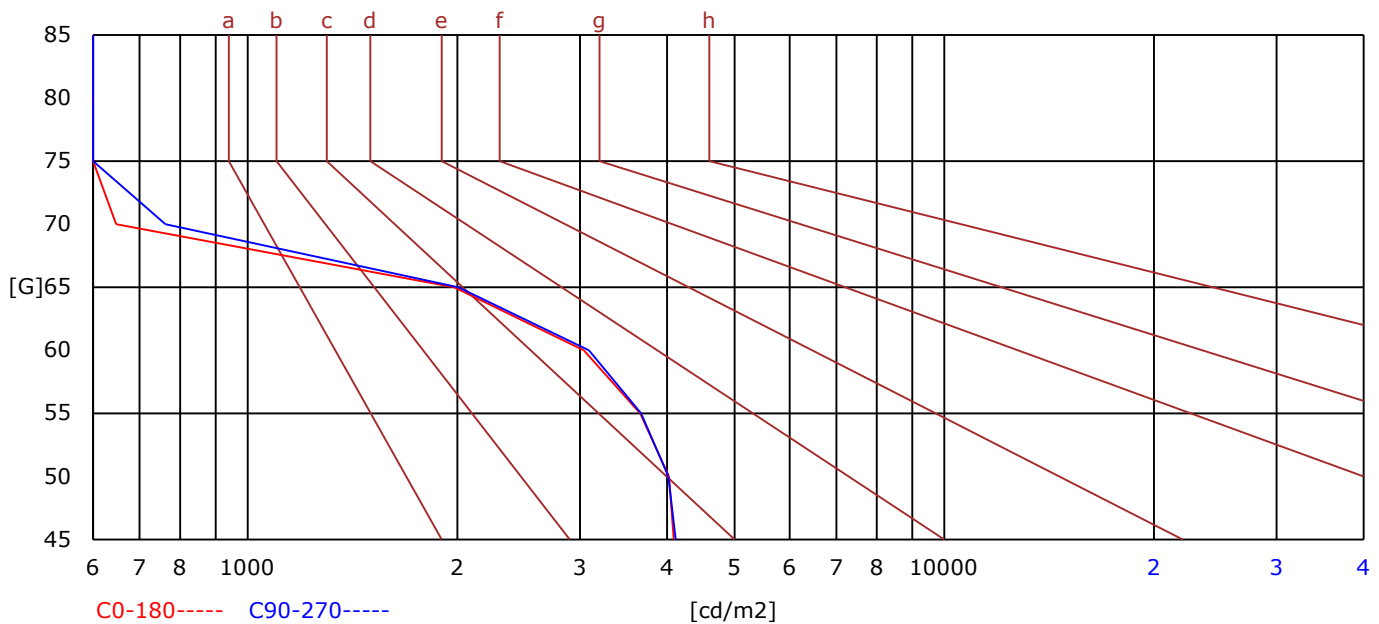
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4091	4026	3662	3037	1980	648	0	0	0
C90	4115	4018	3672	3092	2006	762	0	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



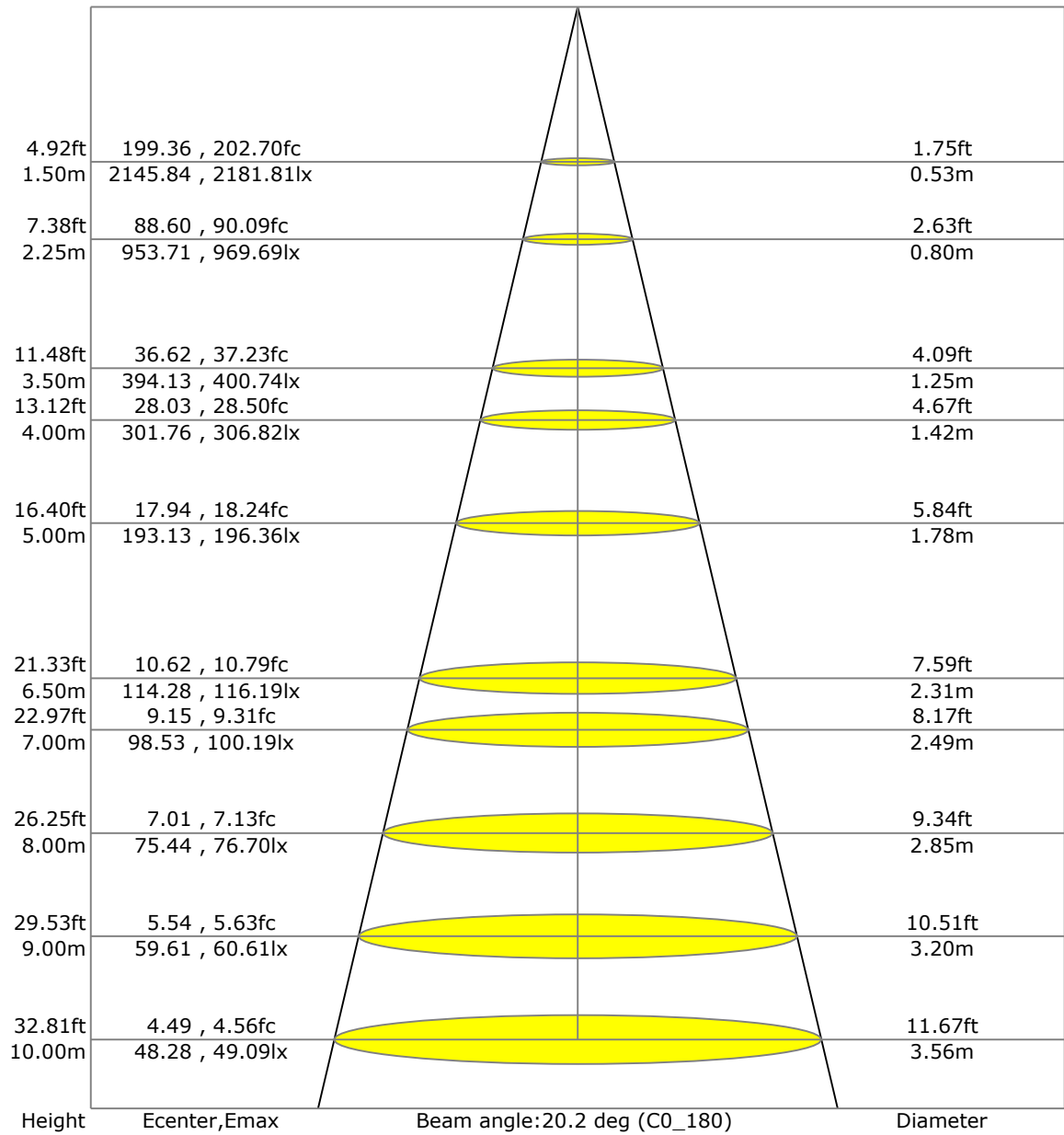
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LX-DISTANCE DIAGRAM



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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	5.07	5.13	5.27	5.31	5.56	5.36	5.42	5.56	5.60	5.85
	3H	5.07	5.14	5.28	5.33	5.58	5.35	5.42	5.56	5.61	5.86
	4H	5.06	5.12	5.27	5.32	5.57	5.34	5.40	5.55	5.60	5.85
	6H	5.04	5.11	5.26	5.31	5.56	5.32	5.39	5.54	5.59	5.84
	8H	5.03	5.10	5.25	5.30	5.56	5.31	5.38	5.53	5.58	5.84
	12H	5.03	5.09	5.25	5.30	5.55	5.30	5.37	5.53	5.58	5.83
4H	2H	5.43	5.50	5.65	5.69	5.94	5.84	5.91	6.05	6.10	6.35
	3H	5.43	5.50	5.66	5.71	5.96	5.83	5.90	6.05	6.10	6.36
	4H	5.41	5.48	5.64	5.69	5.95	5.81	5.88	6.04	6.09	6.35
	6H	5.39	5.46	5.63	5.68	5.94	5.79	5.85	6.03	6.07	6.34
	8H	5.38	5.44	5.62	5.67	5.94	5.78	5.84	6.02	6.07	6.33
	12H	5.37	5.43	5.62	5.66	5.93	5.76	5.83	6.01	6.06	6.33
8H	4H	5.41	5.47	5.63	5.68	5.93	5.84	5.91	6.06	6.11	6.36
	6H	5.35	5.41	5.61	5.65	5.93	5.78	5.84	6.04	6.08	6.35
	8H	5.34	5.40	5.60	5.64	5.92	5.76	5.82	6.03	6.07	6.35
	12H	5.32	5.38	5.59	5.63	5.91	5.75	5.80	6.02	6.06	6.34
12H	4H	5.37	5.43	5.62	5.66	5.93	5.80	5.86	6.05	6.09	6.36
	6H	5.34	5.40	5.60	5.64	5.92	5.77	5.83	6.03	6.07	6.35

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ZONAL LUMINOUS FLUX TABLE

[illegible]

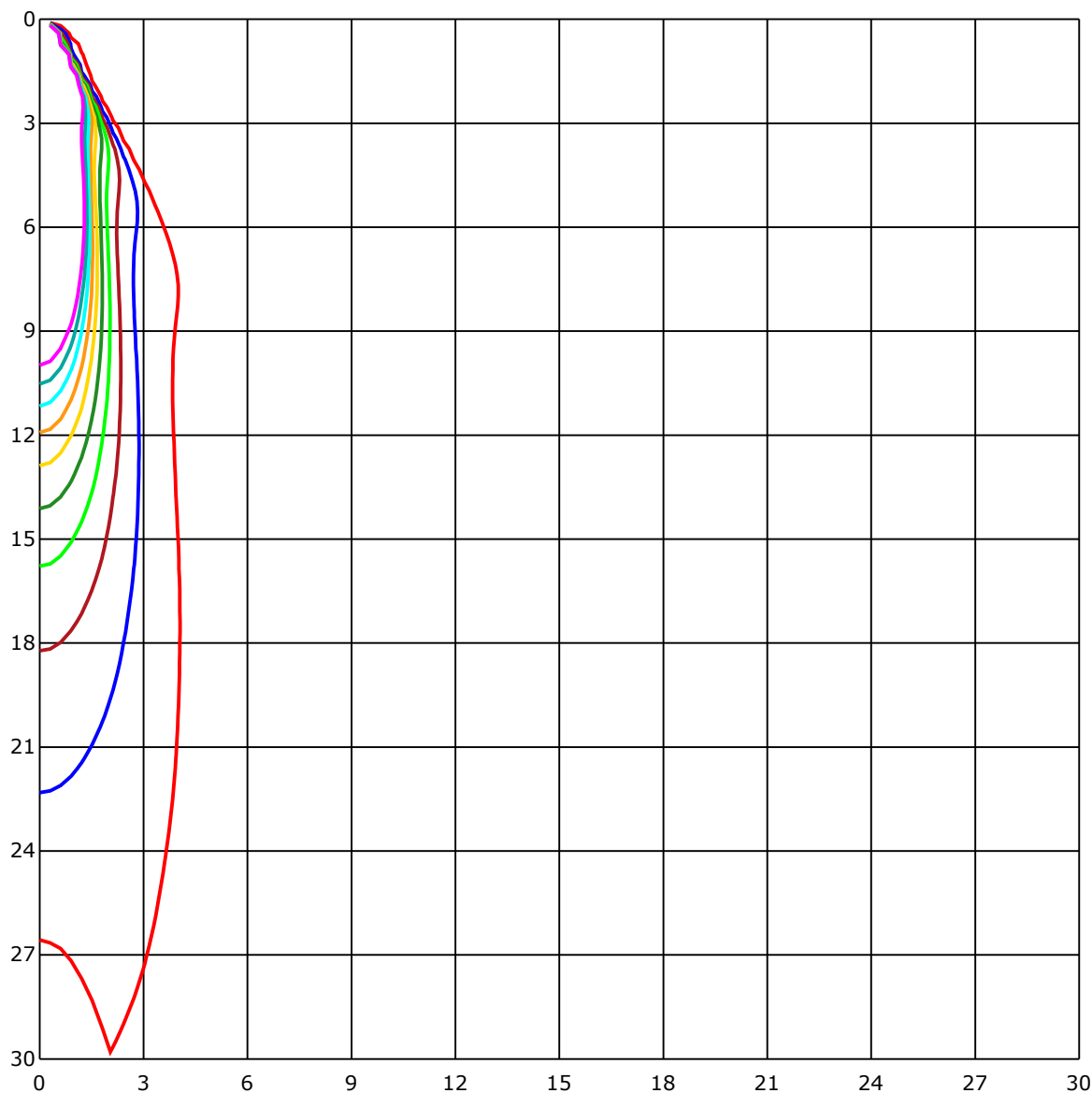
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

48.477	24.239
43.629	19.391
38.782	14.543
33.934	9.695
29.086	4.848

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4828.14	4663.89	4825.5	4631.97	4828.14	4663.89	4825.5	4631.97	4828.14	
G1	4802.69	4442.05	4674.35	4421.35	4794.66	4819.93	4895.34	4771.94	4802.69	
G2	4700.7	4186.17	4473.87	4170.64	4690.11	4892.11	4899.88	4849.33	4700.7	
G3	4533.53	3886.35	4221.32	3886.8	4514.45	4909.08	4838.2	4852.47	4533.53	
G4	4318.73	3552.82	3939.23	3550.4	4287.35	4858.27	4709.28	4785.0	4318.73	
G5	4059.45	3212.91	3624.24	3220.72	4030.18	4735.4	4512.61	4652.35	4059.45	
G6	3778.71	2859.49	3265.93	2875.47	3729.1	4535.19	4256.96	4458.21	3778.71	
G7	3455.86	2519.5	2931.32	2545.44	3412.36	4293.19	3955.93	4211.27	3455.86	
G8	3109.04	2209.35	2597.07	2228.74	3095.39	4020.48	3623.57	3938.51	3109.04	
G9	2774.79	1913.66	2277.67	1942.26	2761.99	3692.61	3295.69	3623.39	2774.79	
G10	2458.98	1644.81	1975.88	1677.49	2424.37	3366.08	2958.3	3298.02	2458.98	
G11	2145.29	1409.46	1702.77	1438.37	2118.18	3030.48	2618.79	2980.29	2145.29	
G12	1855.8	1207.14	1461.39	1221.46	1841.3	2681.68	2283.46	2645.59	1855.8	
G13	1607.33	1032.52	1254.41	1054.92	1584.08	2348.82	1981.8	2332.44	1607.33	
G14	1381.71	896.45	1077.9	913.74	1362.1	2044.02	1694.87	2034.5	1381.71	
G15	1186.31	787.01	939.28	801.2	1170.82	1762.97	1447.88	1754.93	1186.31	
G16	1025.69	704.59	825.39	713.17	1014.51	1514.77	1232.19	1511.99	1025.69	
G17	895.87	634.12	734.76	646.78	885.99	1289.69	1053.25	1301.36	895.87	
G18	790.83	585.59	664.15	594.57	785.22	1102.72	908.84	1123.15	790.83	
G19	706.66	547.97	610.19	553.22	705.99	950.73	793.7	978.24	706.66	
G20	643.18	516.1	567.1	519.69	645.07	830.33	704.32	858.21	643.18	
G21	594.03	489.75	538.32	493.61	600.18	738.17	641.03	763.53	594.03	
G22	552.33	467.8	510.94	471.52	559.69	669.4	591.78	692.43	552.33	
G23	519.87	447.73	488.09	450.83	528.31	614.45	552.51	633.76	519.87	
G24	492.44	425.83	467.13	426.14	502.95	572.84	519.51	587.97	492.44	
G25	469.64	400.55	444.37	398.08	478.89	539.22	495.09	550.89	469.64	
G26	448.05	370.25	416.53	362.31	454.24	512.82	474.76	522.56	448.05	
G27	424.97	325.77	383.05	319.35	427.67	491.14	454.65	495.81	424.97	
G28	396.15	276.34	338.52	269.03	397.14	472.51	433.01	474.58	396.15	
G29	361.86	223.82	287.97	217.45	355.8	450.7	408.32	448.99	361.86	
G30	319.03	174.62	231.77	166.59	307.05	424.75	375.46	422.41	319.03	
G31	268.17	130.94	180.01	126.32	255.96	390.32	331.78	389.06	268.17	
G32	218.26	94.85	135.12	92.02	206.67	346.73	279.22	347.13	218.26	
G33	171.3	68.95	101.68	68.86	160.57	295.29	228.22	297.26	171.3	
G34	129.33	53.64	77.88	54.54	121.38	242.36	176.01	245.5	129.33	
G35	94.94	43.68	62.89	44.4	91.84	191.5	128.83	195.09	94.94	
G36	71.46	37.39	53.28	37.62	72.59	144.41	92.74	148.23	71.46	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	56.02	32.81	46.15	33.04	59.93	106.93	67.56	111.96	56.02	
G38	45.29	30.26	41.48	30.21	51.13	81.61	52.48	85.56	45.29	
G39	38.07	28.19	38.47	28.51	44.4	65.27	43.32	68.01	38.07	
G40	33.04	27.07	36.54	27.2	39.91	54.81	36.5	56.79	33.04	
G41	29.85	26.17	34.34	26.17	36.76	47.58	32.59	48.48	29.85	
G42	27.47	25.14	32.5	25.32	34.57	42.2	29.76	42.65	27.47	
G43	25.72	24.42	31.06	24.64	32.5	38.83	27.92	38.7	25.72	
G44	24.6	23.97	29.85	23.97	31.06	36.81	26.26	36.18	24.6	
G45	23.48	23.43	28.68	23.57	29.67	35.01	25.18	34.39	23.48	
G46	22.76	22.85	27.88	22.98	28.55	33.53	24.15	32.77	22.76	
G47	21.91	22.36	27.07	22.53	27.52	32.23	23.3	31.6	21.91	
G48	21.32	21.91	25.95	22.27	26.53	31.47	22.49	30.48	21.32	
G49	20.56	21.37	25.14	21.55	25.59	30.44	21.77	29.67	20.56	
G50	20.11	20.96	24.06	20.92	24.73	29.54	21.1	28.64	20.11	
G51	19.35	20.16	23.25	20.16	23.88	28.86	20.78	28.06	19.35	
G52	18.76	19.48	22.22	19.44	22.98	28.15	19.66	27.43	18.76	
G53	17.91	18.72	21.1	18.76	22.04	27.25	19.08	26.75	17.91	
G54	17.15	17.91	20.29	17.96	21.1	26.35	18.45	25.86	17.15	
G55	16.61	17.01	19.3	17.06	20.34	25.45	17.6	25.05	16.61	
G56	15.71	16.3	18.36	16.38	19.3	24.69	16.61	24.38	15.71	
G57	14.86	15.13	17.51	15.44	18.4	23.57	15.85	23.48	14.86	
G58	13.96	14.19	16.34	14.36	17.51	22.89	14.9	22.45	13.96	
G59	13.11	13.24	15.17	13.47	16.43	21.77	14.1	21.55	13.11	
G60	12.25	12.3	14.19	12.52	15.53	20.78	13.33	20.51	12.25	
G61	11.09	11.13	13.15	11.49	14.36	19.66	12.34	19.66	11.09	
G62	10.28	10.06	11.76	10.37	13.15	18.63	11.49	18.4	10.28	
G63	9.11	8.89	10.28	9.29	11.94	17.46	10.37	17.46	9.11	
G64	7.72	7.86	8.89	8.13	10.19	16.25	9.2	16.21	7.72	
G65	5.88	6.78	7.72	6.87	8.57	14.99	7.86	15.13	5.88	
G66	4.8	5.39	6.73	5.66	7.72	13.83	6.06	13.96	4.8	
G67	4.13	4.08	5.84	4.4	6.69	12.7	4.98	12.84	4.13	
G68	3.28	3.19	5.21	3.37	6.02	11.49	4.13	11.49	3.28	
G69	2.6	2.47	4.4	2.69	5.07	10.06	3.37	10.23	2.6	
G70	2.06	1.8	3.59	2.11	4.35	8.8	2.74	8.84	2.06	
G71	1.44	1.08	2.96	1.57	3.68	7.5	2.15	7.63	1.44	
G72	0.94	0.72	2.42	0.99	3.1	6.28	1.57	6.24	0.94	
G73	0.4	0.18	2.06	0.49	2.47	5.52	1.12	5.43	0.4	

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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: