

Report No.:

Test Time: 2024/10/27 13:49:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H88-15°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

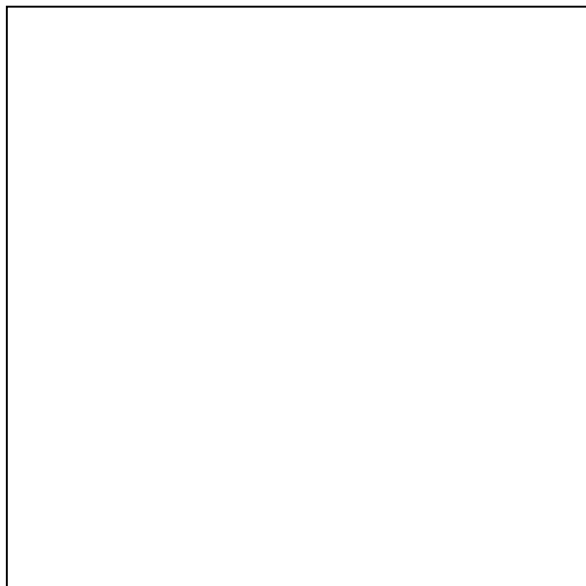
Voltage(V): 220.10 V
Current(A): 0.0690 A
Power(W): 14.52 W
Power Factor: 0.9450
Lamp Luminous Flux: 1447.07

Photometric Results

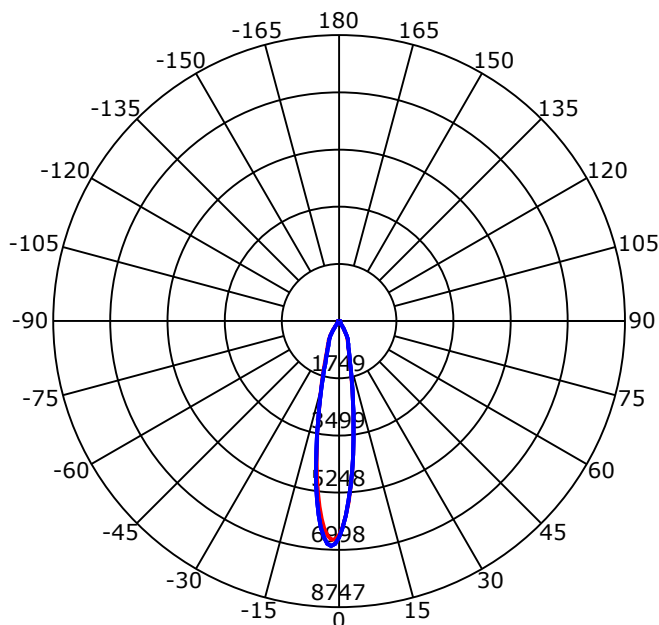
CIE Class: Direct
Luminaire Luminous Flux: 1447.073 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.66 lm/W
Beam Angle(50%) C0-180,C90-270: 18.9,18.6
Field Angle(10%) C0-180,C90-270: 51.9,50.4
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 6997.92 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6538.57 cd
Effective Luminous Flux: 1114.31 lm
ERP(ϕ use)(120deg): 1422.31 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.9 deg,18.6 deg

C0-180 — C90-270

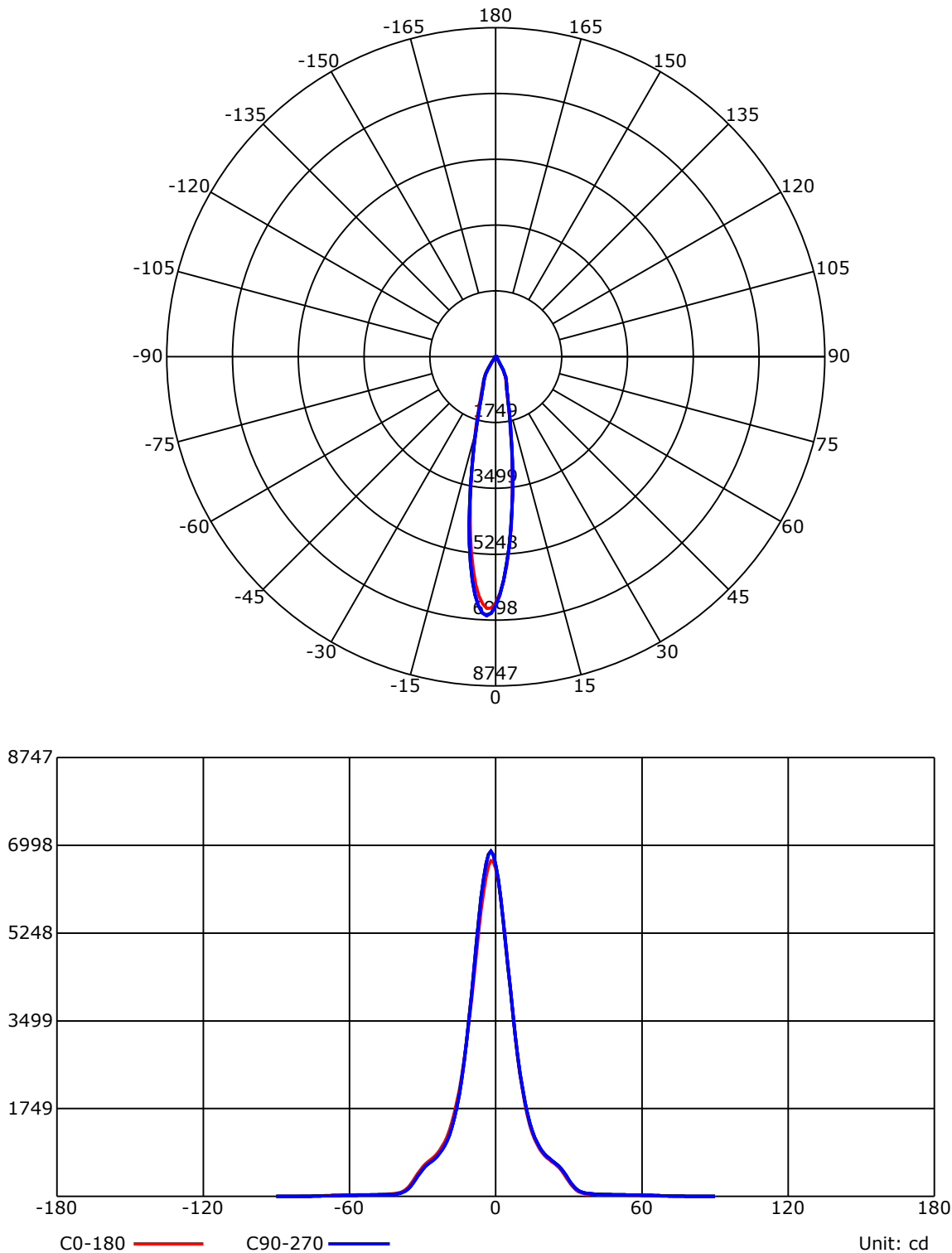
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 13:49:24

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



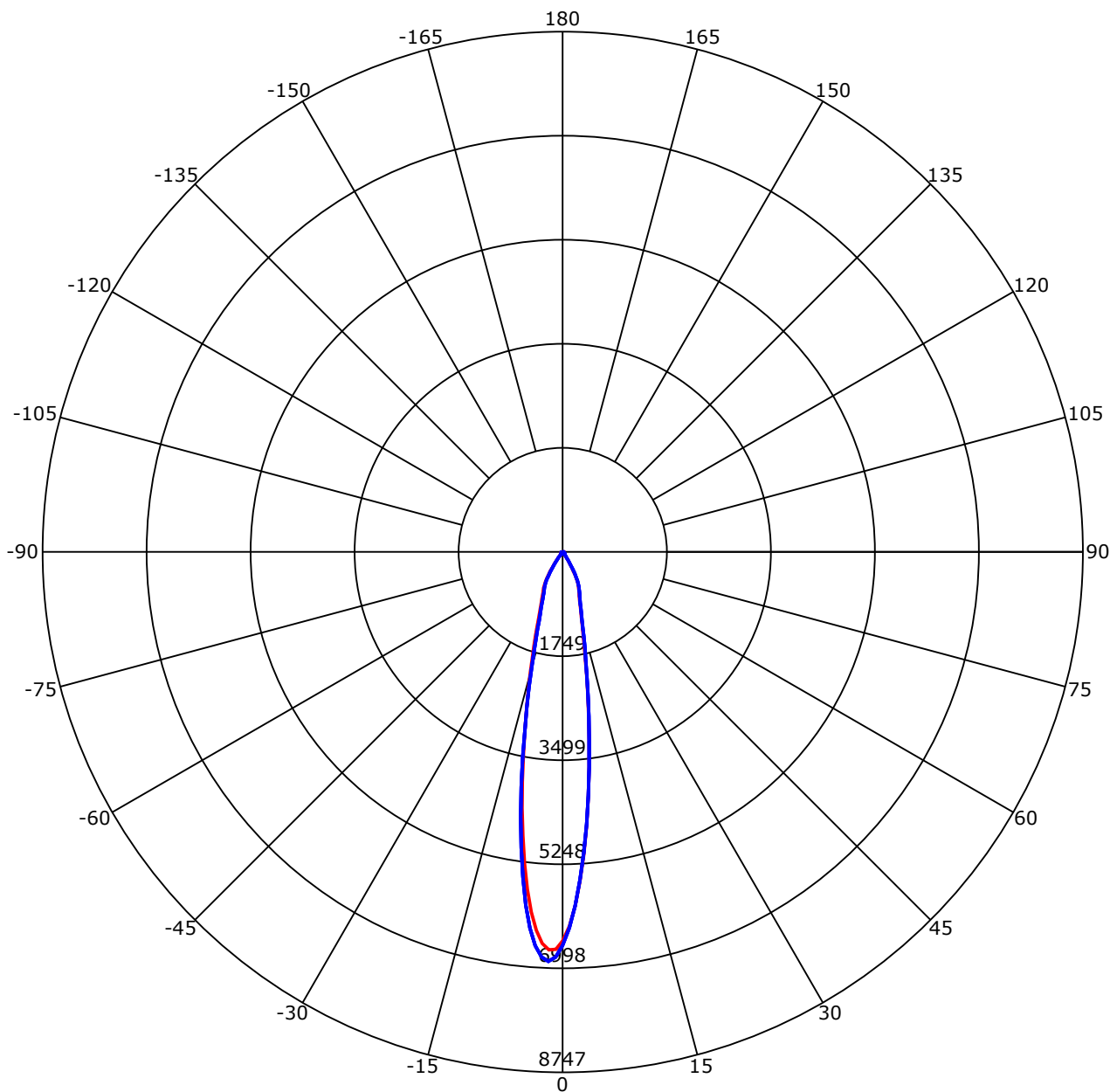
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/10/27 13:49:24

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

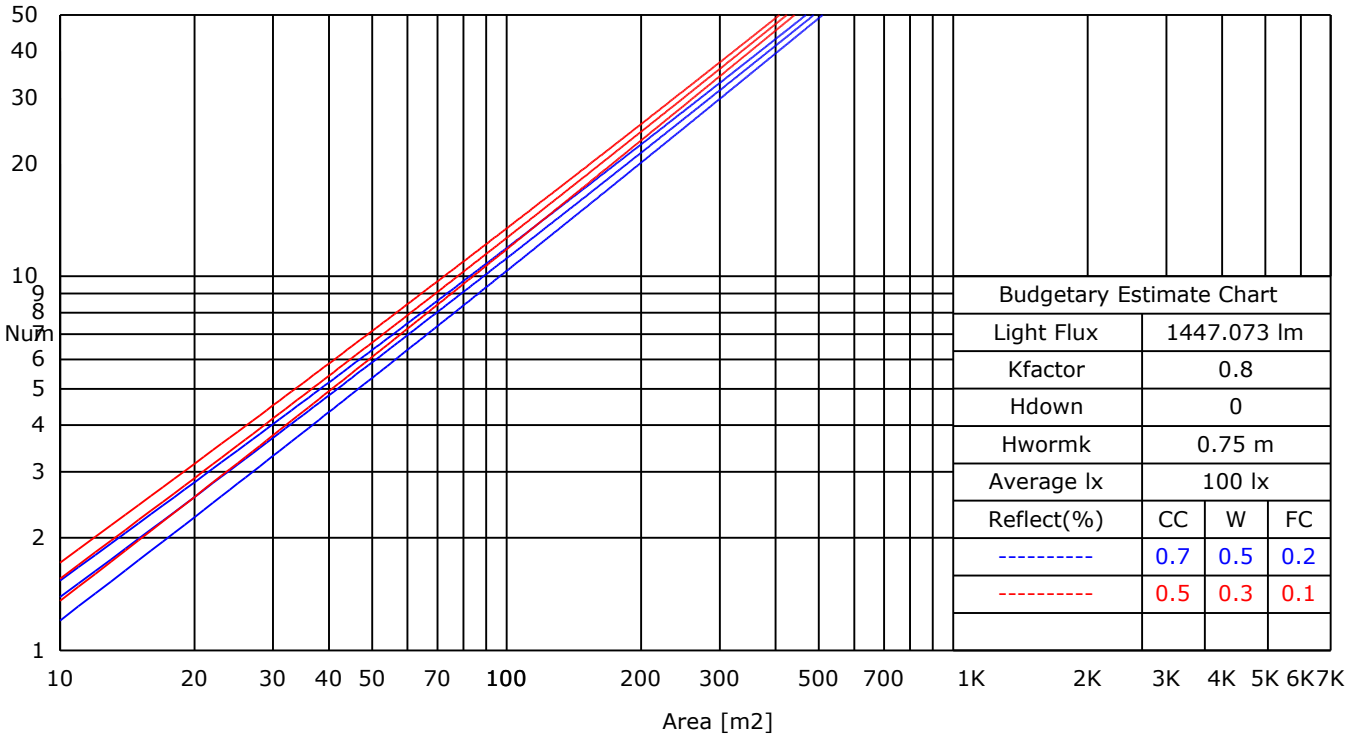
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UTILIZATION FACTORS TABLE

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	COEFFICIENTS 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	0.85	0.82	0.88	0.84	0.81	0.85	0.81	0.78	0.82	0.77	0.74	0.77	0.72	0.68	0.63
2	0.84	0.81	0.79	0.84	0.80	0.77	0.82	0.78	0.74	0.79	0.74	0.71	0.75	0.70	0.66	0.61
3	0.80	0.78	0.76	0.80	0.77	0.75	0.79	0.75	0.71	0.76	0.72	0.68	0.73	0.68	0.64	0.59
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.75	0.73	0.72	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.64	0.69	0.64	0.60	0.56
6	0.73	0.71	0.70	0.73	0.70	0.68	0.71	0.68	0.65	0.70	0.65	0.62	0.67	0.62	0.58	0.55
7	0.71	0.69	0.68	0.71	0.68	0.67	0.69	0.66	0.63	0.68	0.63	0.60	0.66	0.61	0.57	0.53
8	0.69	0.68	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
9	0.68	0.66	0.65	0.67	0.65	0.64	0.66	0.63	0.61	0.64	0.60	0.57	0.63	0.58	0.54	0.51
10	0.66	0.65	0.64	0.66	0.64	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.57	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



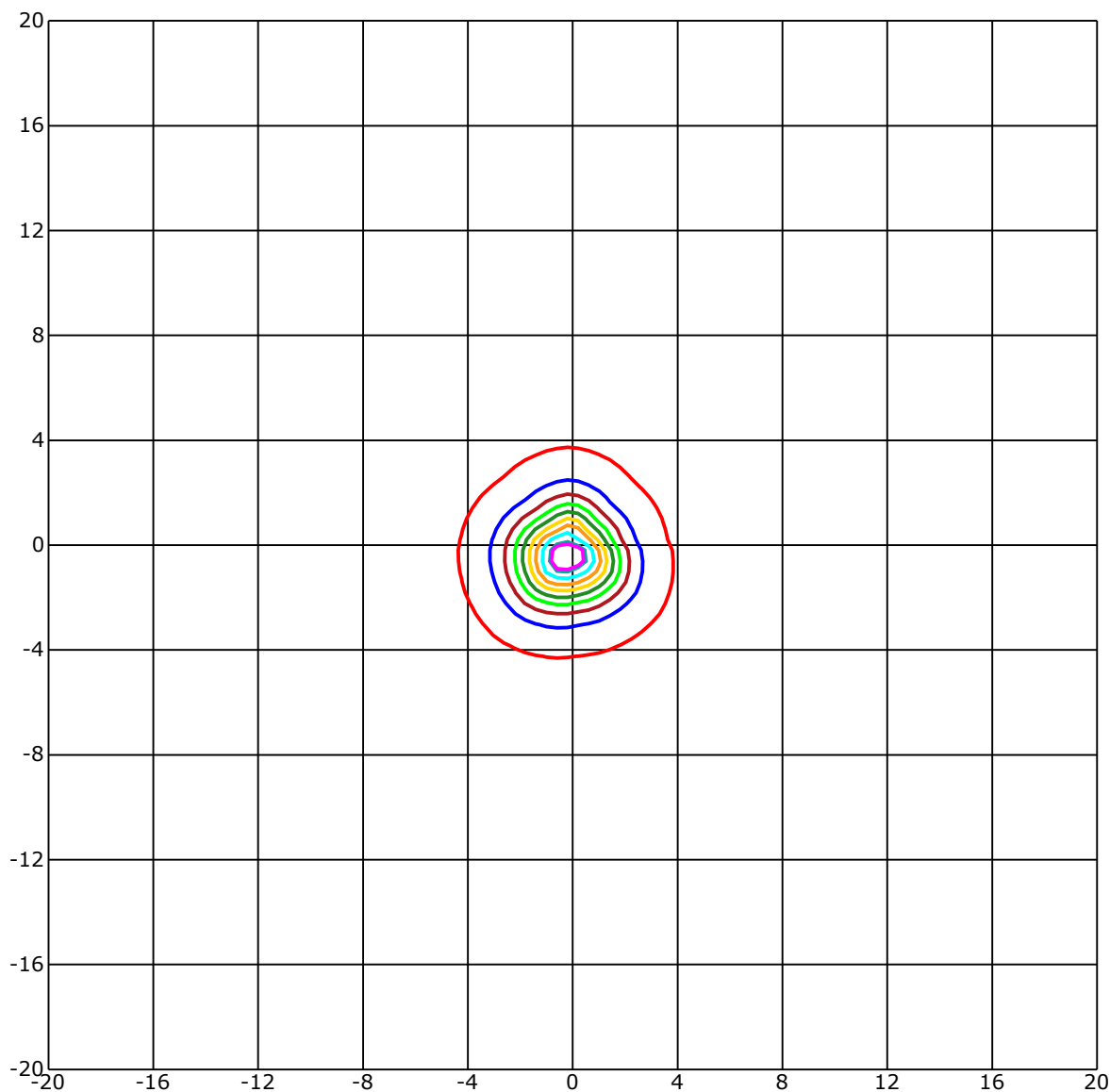
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Operators: QC01
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ISOLX DIAGRAM



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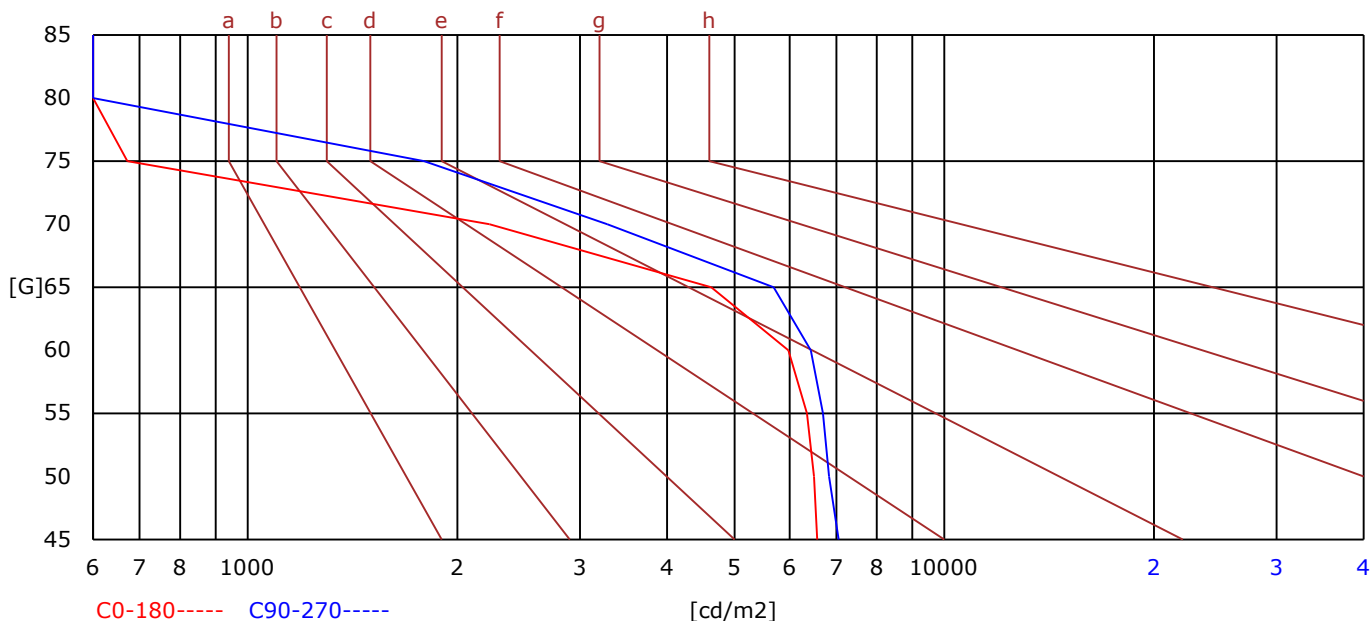
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6569	6505	6355	5971	4629	2225	672	0	0
C90	7050	6832	6696	6435	5693	3284	1792	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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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	6.12	6.18	6.31	6.36	6.61	6.50	6.56	6.70	6.74	6.99
3H	6.18	6.24	6.39	6.44	6.68	6.53	6.59	6.74	6.78	7.03
4H	6.17	6.24	6.39	6.43	6.68	6.52	6.58	6.73	6.78	7.02
6H	6.16	6.22	6.38	6.42	6.68	6.50	6.56	6.72	6.76	7.02
8H	6.15	6.21	6.37	6.42	6.67	6.49	6.55	6.71	6.76	7.01
12H	6.14	6.20	6.36	6.41	6.67	6.48	6.55	6.70	6.75	7.01
4H 2H	7.01	7.07	7.22	7.27	7.52	7.78	7.84	7.99	8.04	8.29
3H	7.07	7.13	7.29	7.34	7.60	7.81	7.87	8.03	8.08	8.33
4H	7.06	7.12	7.29	7.34	7.60	7.79	7.85	8.02	8.07	8.33
6H	7.04	7.10	7.28	7.32	7.59	7.77	7.83	8.01	8.05	8.32
8H	7.03	7.09	7.27	7.31	7.58	7.76	7.82	8.00	8.04	8.31
12H	7.01	7.07	7.26	7.31	7.58	7.74	7.80	7.99	8.04	8.31
8H 4H	6.99	7.05	7.21	7.26	7.51	7.84	7.90	8.06	8.11	8.36
6H	7.00	7.06	7.26	7.30	7.58	7.83	7.89	8.08	8.13	8.40
8H	6.99	7.04	7.25	7.29	7.57	7.81	7.87	8.07	8.12	8.39
12H	6.97	7.03	7.24	7.28	7.56	7.79	7.85	8.07	8.11	8.39
12H 4H	7.01	7.08	7.26	7.31	7.58	7.86	7.93	8.11	8.16	8.43
6H	6.99	7.04	7.25	7.29	7.57	7.84	7.89	8.10	8.14	8.42

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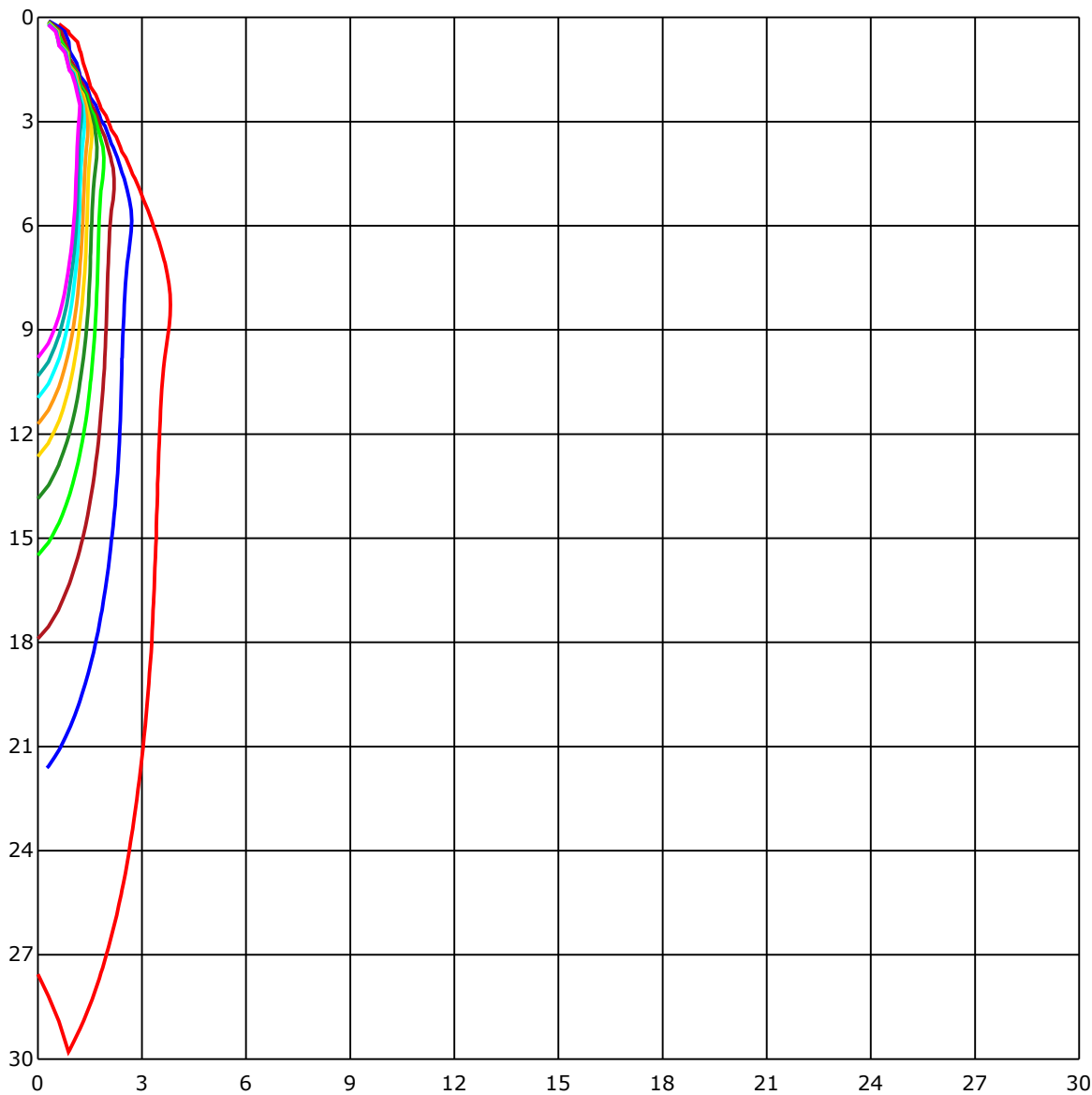
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

68.117
61.305
54.494
47.682
40.87

34.058
27.247
20.435
13.623
6.812

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Test System: Huipu CPM-1600B Goniophotometer
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6538.57	6248.3	6611.79	6433.94	6538.57	6248.3	6611.79	6433.94	6538.57	
G1	6291.24	5817.14	6323.43	6189.54	6677.74	6595.61	6808.61	6566.53	6291.24	
G2	5955.2	5325.69	5948.99	5861.94	6692.3	6856.71	6881.94	6581.56	5955.2	
G3	5545.24	4827.85	5519.45	5478.36	6587.45	6997.92	6819.56	6484.4	5545.24	
G4	5094.93	4322.07	5058.24	5042.52	6371.98	6996.02	6633.92	6276.12	5094.93	
G5	4617.58	3821.95	4591.28	4578.53	6076.61	6867.33	6345.6	5962.53	4617.58	
G6	4124.55	3346.96	4115.88	4102.89	5702.68	6614.95	5964.76	5587.44	4124.55	
G7	3628.93	2912.0	3648.18	3649.43	5278.16	6271.02	5508.28	5161.94	3628.93	
G8	3188.17	2524.72	3196.43	3207.14	4815.05	5851.09	5025.78	4713.85	3188.17	
G9	2774.87	2190.34	2797.92	2823.75	4356.94	5398.73	4511.24	4241.05	2774.87	
G10	2418.98	1915.8	2448.98	2474.17	3911.5	4911.18	4008.94	3774.13	2418.98	
G11	2099.49	1665.88	2139.61	2168.92	3465.18	4404.52	3522.87	3327.72	2099.49	
G12	1828.52	1471.33	1875.17	1898.27	3071.95	3919.57	3074.18	2915.67	1828.52	
G13	1602.11	1301.55	1652.29	1673.25	2714.44	3453.91	2676.27	2545.31	1602.11	
G14	1410.72	1167.8	1463.58	1482.23	2400.15	3031.51	2332.67	2224.94	1410.72	
G15	1258.37	1053.39	1305.4	1320.56	2114.47	2658.23	2025.8	1950.12	1258.37	
G16	1136.59	961.19	1176.84	1190.24	1873.92	2334.48	1765.12	1716.66	1136.59	
G17	1030.57	887.59	1069.99	1081.54	1664.16	2042.03	1555.36	1515.99	1030.57	
G18	943.75	827.07	980.25	984.43	1481.35	1794.34	1374.26	1342.54	943.75	
G19	872.71	776.48	906.0	908.37	1322.32	1582.07	1224.38	1206.24	872.71	
G20	816.82	738.96	846.18	843.21	1193.35	1413.87	1107.18	1088.35	816.82	
G21	768.64	702.83	799.57	793.26	1085.39	1262.31	1011.65	999.68	768.64	
G22	728.75	666.84	755.93	746.19	999.17	1138.26	928.59	927.2	728.75	
G23	689.84	628.72	717.35	708.12	921.86	1040.08	861.16	863.01	689.84	
G24	655.39	590.0	680.48	671.76	857.68	953.72	801.29	809.82	655.39	
G25	616.99	533.23	641.43	635.12	805.46	883.05	753.84	768.03	616.99	
G26	570.29	468.12	597.05	591.62	760.48	829.99	712.29	727.69	570.29	
G27	511.76	398.0	543.06	538.61	719.11	781.39	674.03	689.06	511.76	
G28	442.01	324.96	477.44	479.39	682.15	738.82	633.54	648.48	442.01	
G29	367.48	255.11	407.79	407.0	638.92	696.71	591.57	603.86	367.48	
G30	295.32	191.35	330.94	336.18	589.3	657.43	537.41	543.11	295.32	
G31	226.32	141.45	260.08	264.34	525.07	613.14	472.62	474.15	226.32	
G32	169.23	104.25	198.54	201.32	456.06	557.9	402.87	400.32	169.23	
G33	124.71	81.48	149.15	149.52	380.7	490.98	331.54	326.16	124.71	
G34	93.54	65.62	114.13	110.1	306.64	419.61	262.03	256.69	93.54	
G35	73.51	54.21	91.36	86.91	239.39	343.46	199.37	193.71	73.51	
G36	60.52	46.89	75.92	68.96	180.31	272.6	147.66	145.53	60.52	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	51.62	42.02	65.48	57.83	135.19	208.0	109.49	113.11	51.62	
G38	45.26	39.1	58.11	48.42	104.21	156.84	83.52	91.41	45.26	
G39	41.27	36.82	52.92	43.32	83.38	117.52	66.83	76.52	41.27	
G40	38.82	35.34	49.07	39.84	69.75	93.49	55.05	65.25	38.82	
G41	36.68	33.62	45.87	37.38	60.75	75.59	47.07	57.69	36.68	
G42	35.11	32.42	43.59	35.62	54.54	63.91	41.78	52.54	35.11	
G43	33.58	31.35	41.74	34.04	50.32	56.67	38.82	49.02	33.58	
G44	32.56	30.56	40.16	32.7	46.89	51.76	36.54	45.82	32.56	
G45	31.54	29.73	38.86	31.91	44.57	48.05	34.97	43.69	31.54	
G46	30.65	29.12	37.52	30.93	42.57	45.22	33.48	41.65	30.65	
G47	29.87	28.52	36.45	30.1	41.04	43.18	31.95	40.07	29.87	
G48	29.36	28.2	35.62	29.22	39.42	41.6	31.03	38.72	29.36	
G49	28.61	27.36	34.78	28.66	38.17	39.74	30.24	37.56	28.61	
G50	27.87	26.76	33.85	28.1	37.33	38.63	29.45	36.73	27.87	
G51	27.13	26.11	32.97	27.36	36.08	37.29	28.75	35.71	27.13	
G52	26.62	25.41	32.23	26.67	35.2	36.59	27.92	34.78	26.62	
G53	25.69	24.9	31.58	25.97	34.18	35.29	27.22	33.85	25.69	
G54	25.04	24.02	30.42	25.32	33.44	34.36	26.62	32.83	25.04	
G55	24.21	23.33	29.68	24.58	32.46	33.58	26.16	31.91	24.21	
G56	23.61	22.68	28.71	23.74	31.58	32.51	25.27	30.98	23.61	
G57	22.63	21.75	27.87	23.1	30.52	31.63	24.76	30.05	22.63	
G58	21.84	20.82	27.04	22.17	29.63	30.84	23.98	29.17	21.84	
G59	21.05	19.99	26.16	21.38	28.75	29.82	23.37	28.24	21.05	
G60	20.31	19.11	25.18	20.59	27.83	29.12	22.49	27.18	20.31	
G61	19.2	18.13	24.16	19.57	26.85	28.01	21.8	26.48	19.2	
G62	18.18	16.93	23.1	18.6	26.02	27.08	20.87	25.18	18.18	
G63	16.83	15.49	21.8	17.95	24.81	26.11	20.03	24.3	16.83	
G64	15.68	14.05	20.54	16.56	23.84	25.09	19.11	23.05	15.68	
G65	14.28	12.52	19.11	15.4	22.63	24.02	18.13	21.94	14.28	
G66	12.75	10.62	17.72	14.01	21.52	23.0	16.88	20.59	12.75	
G67	10.85	8.3	15.91	12.66	20.41	21.89	15.81	19.25	10.85	
G68	8.77	6.72	13.82	11.13	19.01	20.68	14.47	17.62	8.77	
G69	7.0	5.75	11.78	9.14	17.62	19.39	13.03	15.91	7.0	
G70	6.12	4.87	10.2	7.19	16.05	18.27	11.41	13.91	6.12	
G71	5.19	3.99	9.28	6.26	14.33	16.51	9.46	11.87	5.19	
G72	4.45	3.29	8.21	5.38	12.15	14.98	7.42	10.39	4.45	
G73	3.57	2.6	7.33	4.45	10.53	12.71	6.31	9.28	3.57	

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Remarks:

[illegible]

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