

Report No.:

Test Time: 2024/10/26 14:59:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

Voltage(V): 219.90 V
Current(A): 0.0940 A
Power(W): 20.24 W
Power Factor: 0.9720
Lamp Luminous Flux: 2088.67

Photometric Results

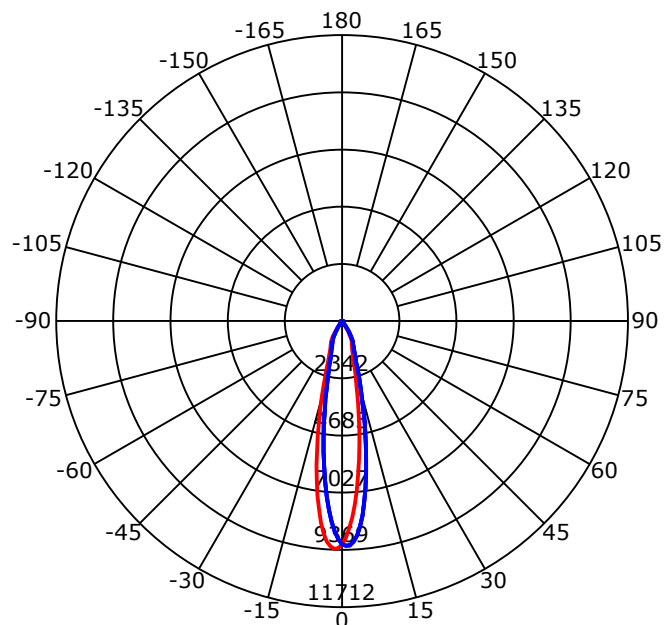
CIE Class: Direct
Luminaire Luminous Flux: 2088.667 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.20 lm/W
Beam Angle(50%) C0-180,C90-270: 21.0,21.3
Field Angle(10%) C0-180,C90-270: 53.0,52.9
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 9369.27 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9147.45 cd
Effective Luminous Flux: 1686.97 lm
ERP(ϕ use)(120deg): 2074.16 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.0 deg,21.3 deg

C0-180 — C90-270 —

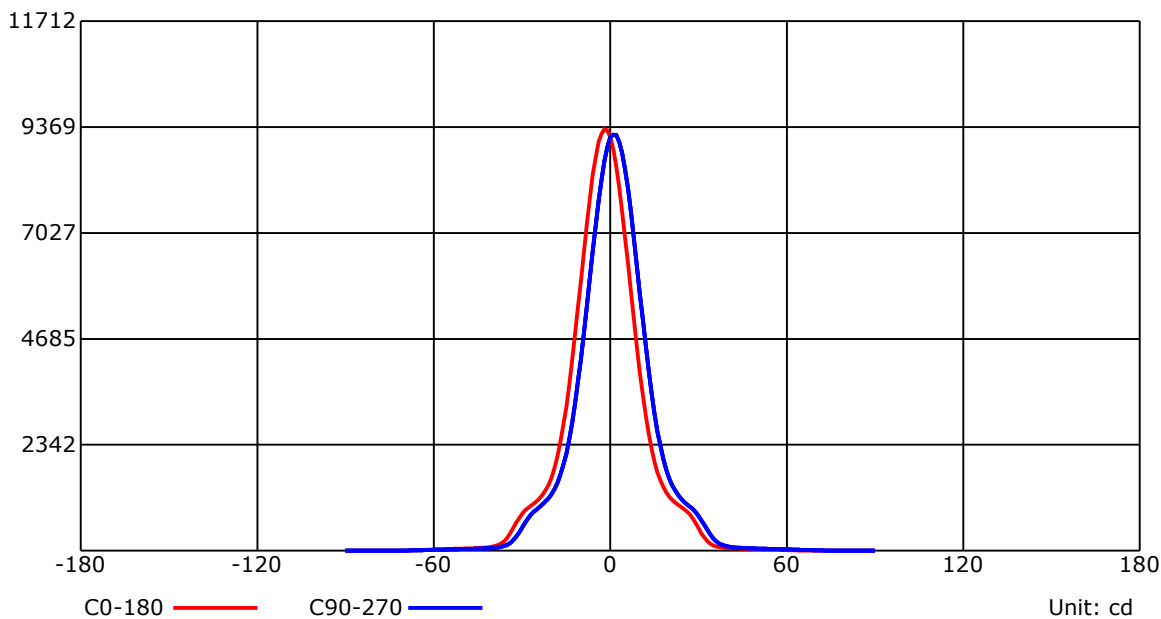
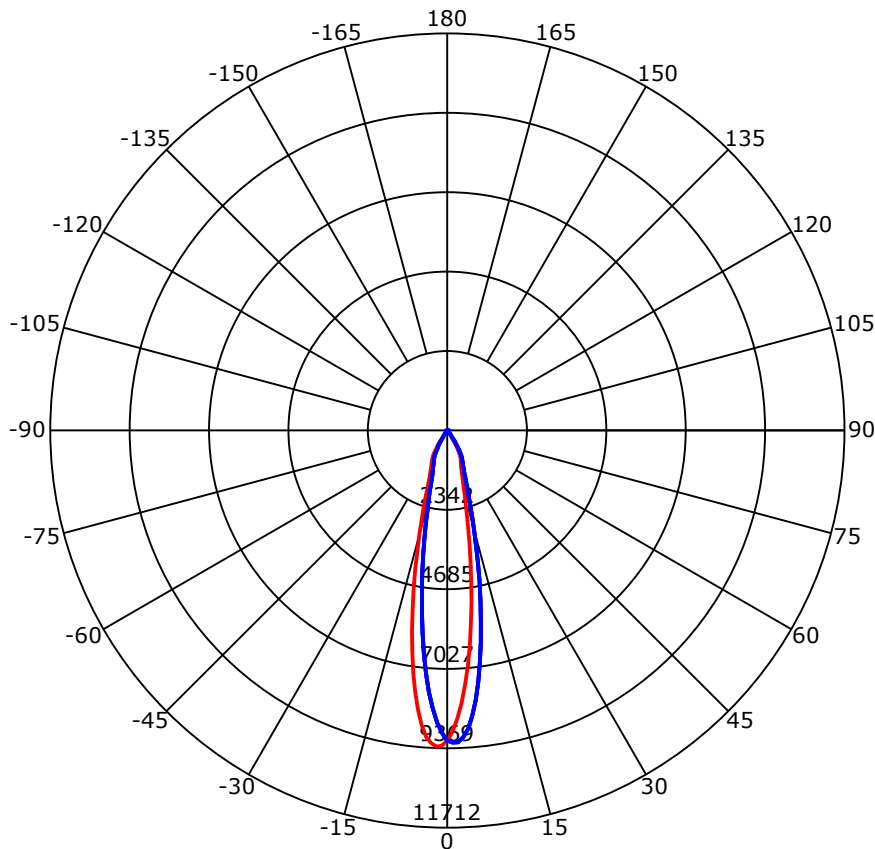
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 14:59:28

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



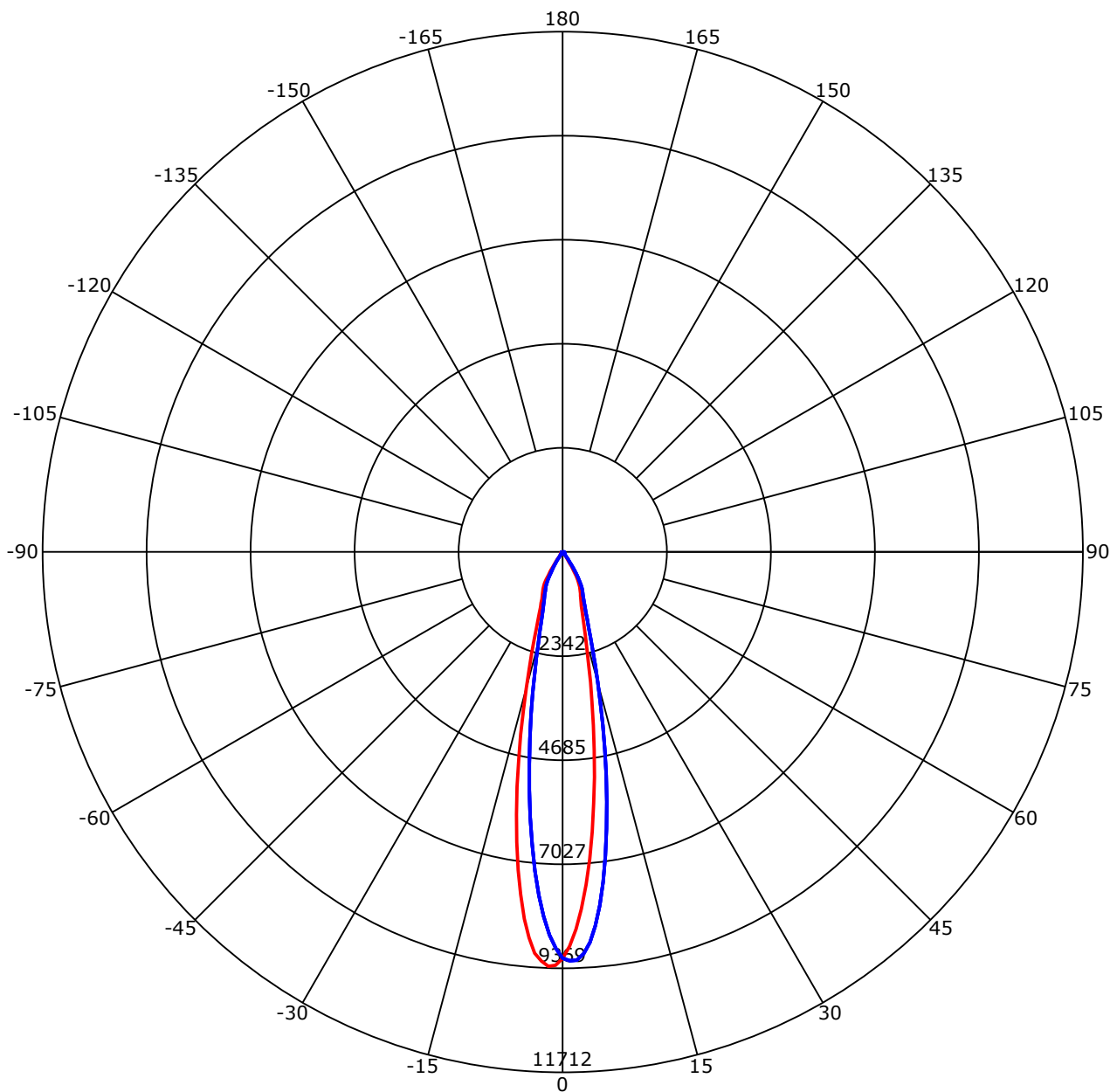
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

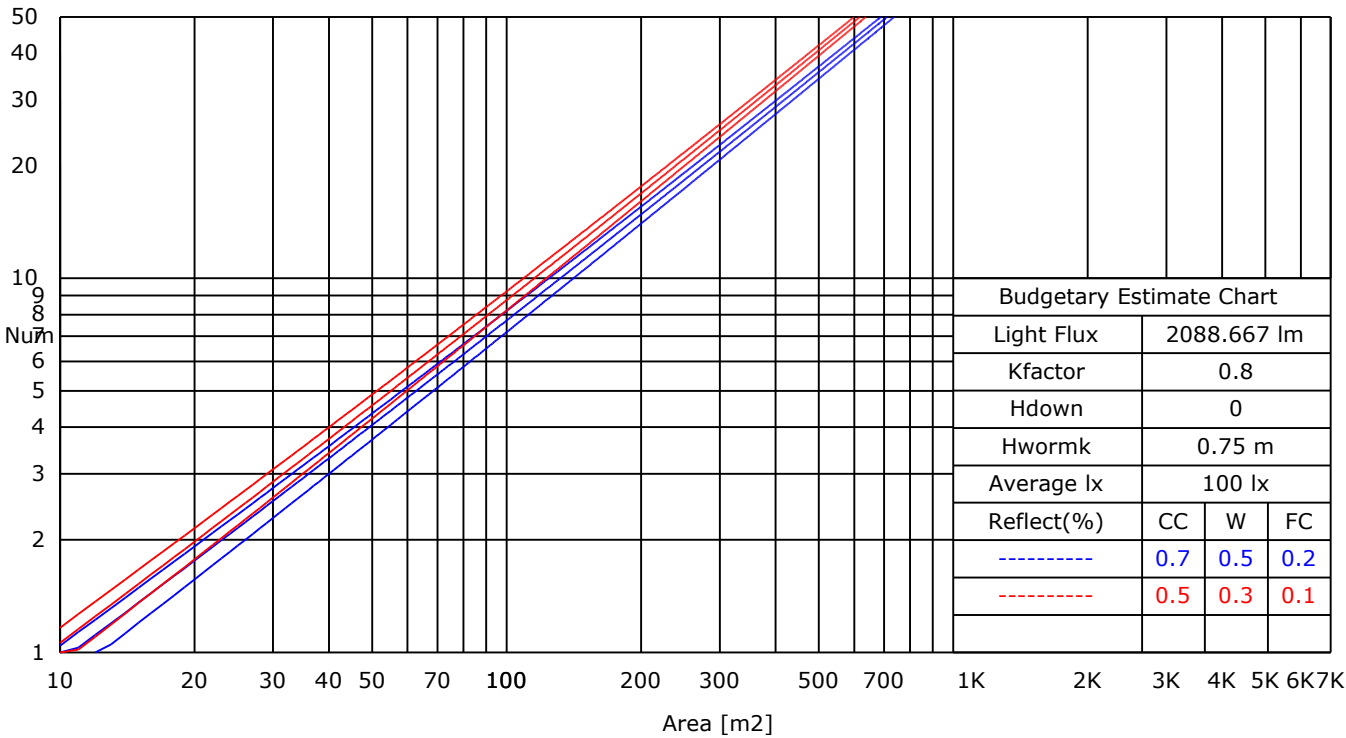
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



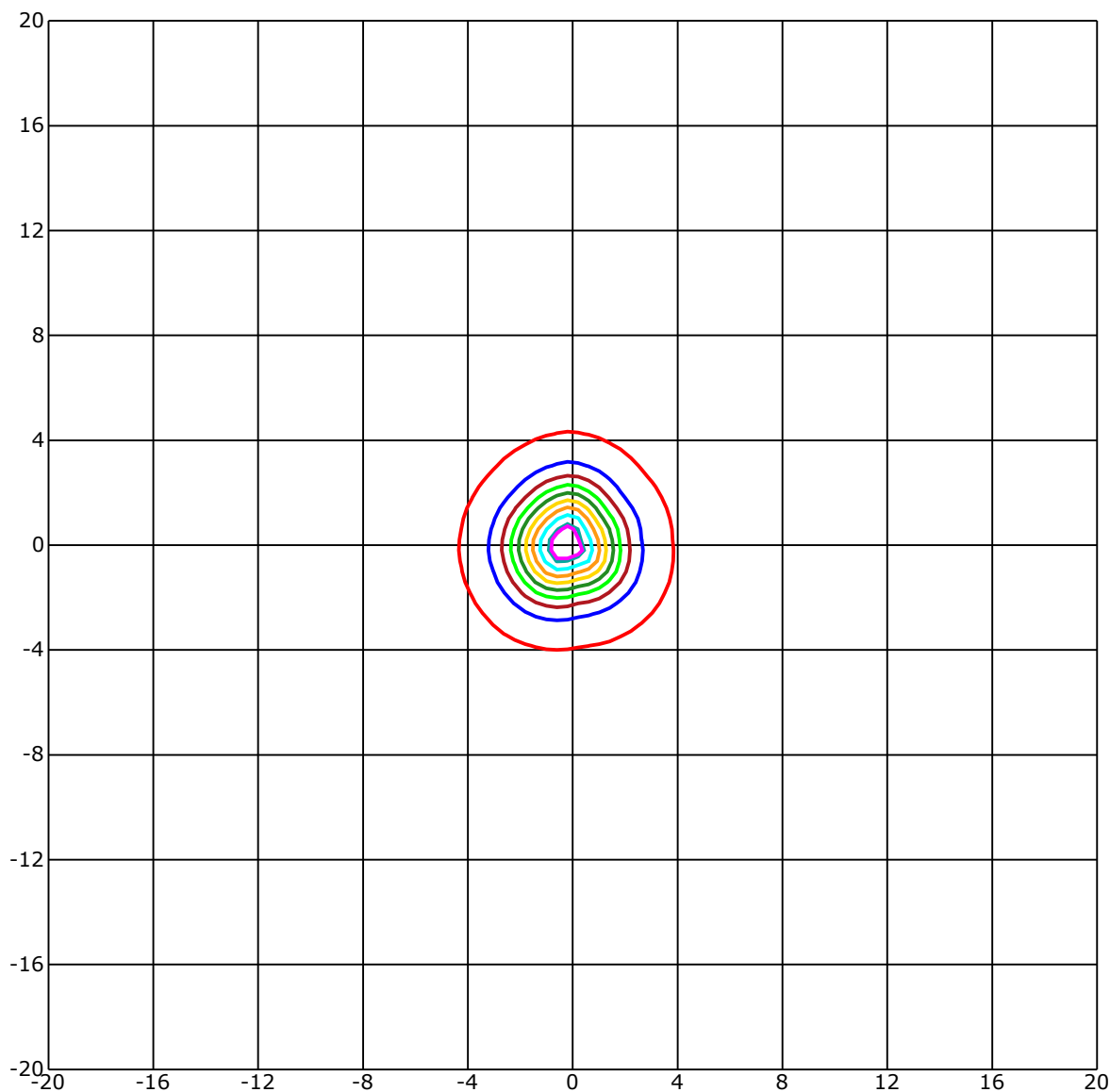
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ISOLX DIAGRAM



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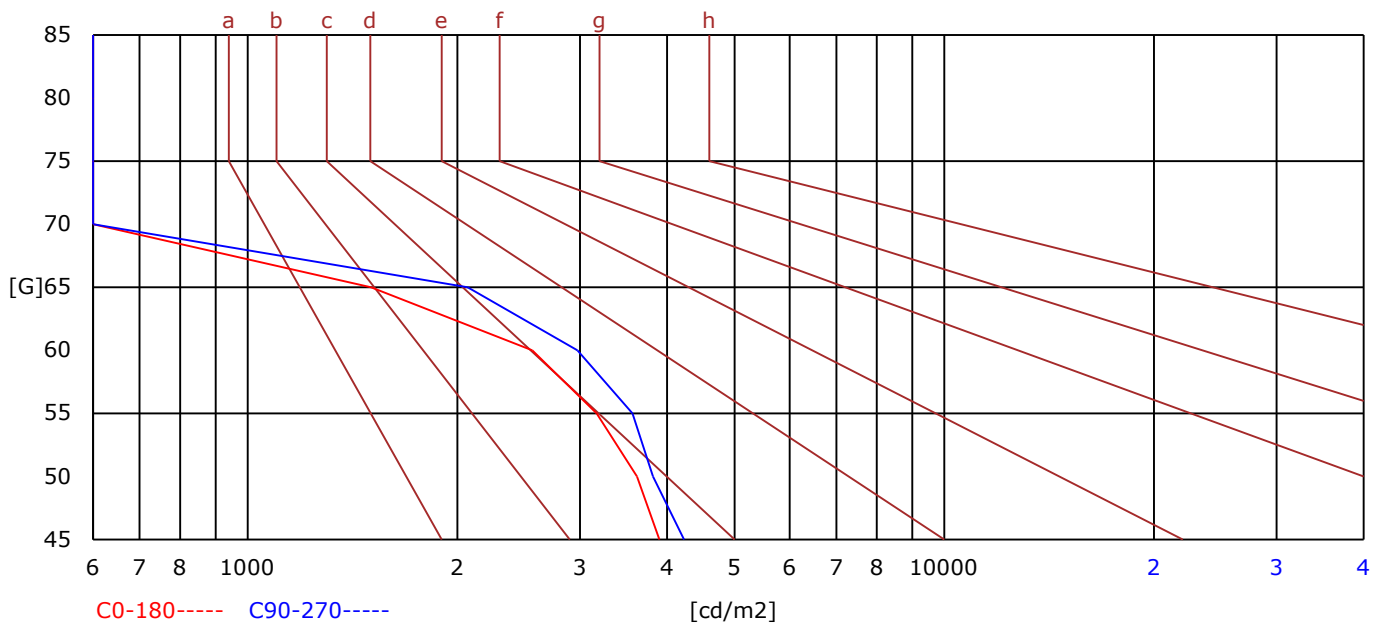
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3900	3623	3171	2563	1503	16	0	0	0
C90	4231	3818	3569	2975	2069	326	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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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	2.83	2.89	3.03	3.08	3.32	3.36	3.42	3.56	3.61	3.85
	3H	2.84	2.90	3.05	3.09	3.34	3.34	3.40	3.54	3.59	3.84
	4H	2.83	2.89	3.04	3.08	3.33	3.32	3.39	3.53	3.58	3.83
	6H	2.81	2.87	3.03	3.07	3.33	3.31	3.37	3.52	3.57	3.82
	8H	2.80	2.86	3.02	3.07	3.32	3.30	3.36	3.52	3.57	3.82
	12H	2.79	2.86	3.01	3.06	3.32	3.29	3.35	3.51	3.56	3.81
4H	2H	2.87	2.93	3.08	3.13	3.38	3.85	3.91	4.06	4.11	4.36
	3H	2.87	2.93	3.09	3.14	3.39	3.82	3.89	4.04	4.09	4.35
	4H	2.85	2.91	3.08	3.12	3.38	3.80	3.87	4.03	4.08	4.34
	6H	2.82	2.89	3.06	3.11	3.37	3.78	3.84	4.02	4.06	4.33
	8H	2.81	2.87	3.06	3.10	3.37	3.77	3.83	4.01	4.06	4.32
	12H	2.80	2.86	3.05	3.09	3.36	3.75	3.82	4.00	4.05	4.32
8H	4H	2.84	2.91	3.06	3.11	3.37	3.83	3.89	4.05	4.09	4.35
	6H	2.78	2.84	3.04	3.08	3.36	3.74	3.80	4.00	4.04	4.31
	8H	2.77	2.83	3.03	3.07	3.35	3.72	3.78	3.99	4.03	4.31
	12H	2.75	2.81	3.02	3.06	3.35	3.71	3.76	3.98	4.02	4.30
12H	4H	2.80	2.86	3.05	3.09	3.36	3.75	3.82	4.00	4.05	4.32
	6H	2.77	2.83	3.03	3.07	3.35	3.72	3.78	3.99	4.03	4.31

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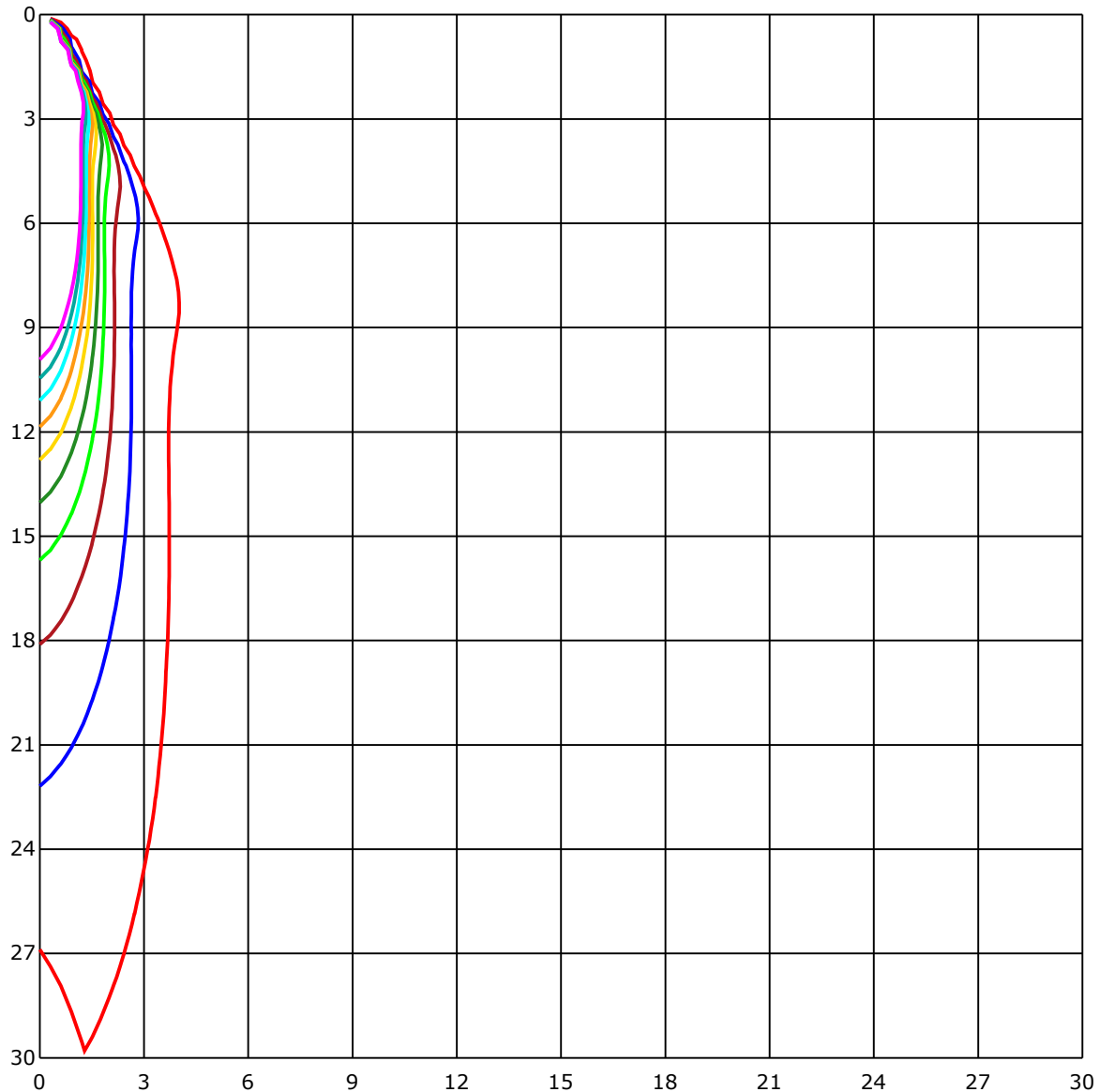
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

92.96	46.48
83.664	37.184
74.368	27.888
65.072	18.592
55.776	9.296

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9147.45	9039.91	9142.44	9311.16	9147.45	9039.91	9142.44	9311.16	9147.45	
G1	8872.03	8802.56	9202.46	9369.27	9301.61	9131.22	8921.0	9164.24	8872.03	
G2	8493.97	8487.48	9193.92	9280.09	9329.43	9132.89	8627.95	8890.53	8493.97	
G3	8043.84	8066.71	9046.82	9068.57	9220.5	9013.33	8209.5	8504.54	8043.84	
G4	7506.67	7600.9	8805.43	8759.01	9053.45	8784.38	7747.31	8026.36	7506.67	
G5	6943.24	7044.62	8447.36	8348.72	8714.02	8440.91	7206.99	7499.06	6943.24	
G6	6328.81	6461.03	7996.96	7845.58	8298.96	8014.67	6603.22	6937.73	6328.81	
G7	5705.56	5853.78	7477.82	7291.62	7765.08	7488.63	6010.85	6326.49	5705.56	
G8	5119.97	5266.89	6906.61	6683.49	7226.88	6939.4	5405.92	5701.06	5119.97	
G9	4518.38	4676.47	6313.6	6074.39	6609.89	6346.8	4825.16	5092.0	4518.38	
G10	3962.37	4127.47	5709.27	5458.19	5995.27	5752.12	4264.42	4505.11	3962.37	
G11	3443.1	3617.71	5113.94	4861.7	5377.68	5134.21	3730.12	3951.85	3443.1	
G12	2998.35	3163.73	4546.99	4273.51	4781.14	4543.79	3242.25	3436.47	2998.35	
G13	2599.94	2733.41	4004.53	3735.97	4206.45	3993.49	2818.69	2977.81	2599.94	
G14	2257.4	2375.57	3498.38	3236.77	3660.47	3494.21	2457.1	2584.96	2257.4	
G15	1976.78	2082.57	3045.98	2796.9	3174.72	3039.49	2139.1	2260.51	1976.78	
G16	1737.94	1832.88	2652.2	2423.34	2760.21	2642.05	1884.12	1978.54	1737.94	
G17	1553.92	1628.73	2317.32	2107.47	2392.45	2290.1	1673.85	1752.92	1553.92	
G18	1410.76	1470.03	2029.51	1839.74	2082.75	2007.71	1495.91	1571.04	1410.76	
G19	1290.18	1336.37	1791.93	1633.09	1825.41	1771.75	1361.05	1424.21	1290.18	
G20	1201.56	1234.9	1601.92	1470.54	1622.65	1578.69	1252.57	1306.74	1201.56	
G21	1127.91	1153.98	1450.37	1342.4	1463.07	1434.23	1163.44	1213.76	1127.91	
G22	1063.96	1085.57	1329.74	1233.98	1341.29	1319.49	1094.57	1139.32	1063.96	
G23	1016.47	1029.13	1235.78	1151.75	1241.67	1218.21	1031.08	1081.44	1016.47	
G24	970.19	981.41	1157.32	1084.04	1160.05	1140.48	968.94	1025.61	970.19	
G25	923.16	926.13	1086.04	1026.67	1098.84	1075.69	915.7	976.63	923.16	
G26	870.9	874.51	1027.6	970.1	1041.93	1022.64	863.2	926.13	870.9	
G27	802.07	807.45	973.34	920.06	992.68	969.08	797.99	872.33	802.07	
G28	712.43	726.71	919.31	865.01	945.01	917.88	713.31	798.78	712.43	
G29	610.73	624.18	852.67	794.14	890.79	855.59	618.8	705.57	610.73	
G30	495.99	517.65	766.04	700.84	817.84	777.36	511.48	599.97	495.99	
G31	380.24	410.71	666.7	596.95	723.47	680.8	403.43	488.8	380.24	
G32	282.99	313.55	561.75	485.93	617.08	575.85	309.47	373.65	282.99	
G33	204.57	230.81	453.28	373.33	503.0	471.0	232.48	281.46	204.57	
G34	149.42	170.85	355.1	279.74	391.74	367.44	169.97	209.16	149.42	
G35	114.22	129.67	271.02	205.63	292.17	276.91	130.18	158.88	114.22	
G36	94.0	106.57	204.47	152.11	215.14	208.65	104.76	125.96	94.0	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	79.02	87.05	159.9	118.72	162.13	158.75	86.03	105.23	79.02	
G38	69.33	74.34	128.65	96.42	129.34	128.6	71.98	91.27	69.33	
G39	62.05	65.85	107.69	81.34	108.43	106.29	63.81	80.0	62.05	
G40	57.97	59.41	91.87	70.54	93.68	91.59	57.04	72.72	57.97	
G41	54.21	54.86	81.39	64.09	82.09	79.67	53.8	68.31	54.21	
G42	50.87	52.45	72.95	57.51	75.59	72.95	51.15	64.6	50.87	
G43	48.69	49.76	66.97	55.09	69.01	67.25	48.37	61.08	48.69	
G44	45.08	47.91	62.33	50.97	65.62	64.14	45.08	57.6	45.08	
G45	43.18	45.91	59.41	49.81	60.85	60.06	43.87	56.76	43.18	
G46	41.14	43.78	56.35	46.52	57.09	57.41	41.09	53.29	41.14	
G47	40.21	42.99	53.43	44.61	53.94	55.47	40.12	51.34	40.21	
G48	37.56	41.46	50.83	43.5	51.57	53.61	38.49	49.99	37.56	
G49	36.96	39.37	48.69	43.13	48.93	50.87	37.84	48.14	36.96	
G50	34.97	38.77	46.24	40.86	47.26	49.58	34.83	46.52	34.97	
G51	33.3	36.64	45.68	39.37	44.61	48.23	34.32	45.4	33.3	
G52	31.07	35.76	42.67	38.12	43.69	47.21	32.0	43.27	31.07	
G53	29.08	33.48	41.6	37.7	41.6	44.85	31.35	41.6	29.08	
G54	27.92	33.02	40.21	34.83	39.61	44.66	29.17	39.7	27.92	
G55	25.65	30.28	38.12	34.09	37.15	41.32	27.87	38.49	25.65	
G56	24.02	29.36	36.22	31.72	35.71	40.39	26.3	36.54	24.02	
G57	20.96	27.32	34.18	30.61	33.72	39.0	25.88	34.64	20.96	
G58	19.62	25.18	32.0	28.94	30.28	36.64	23.19	32.97	19.62	
G59	17.72	23.37	30.24	27.36	28.85	34.36	22.12	30.52	17.72	
G60	14.93	21.33	28.75	24.76	25.97	32.0	20.87	28.29	14.93	
G61	12.15	18.92	27.04	23.14	23.84	30.56	19.57	26.76	12.15	
G62	10.34	17.53	25.18	20.45	21.89	28.57	16.6	24.25	10.34	
G63	6.59	15.07	22.63	19.34	19.34	26.81	15.58	21.8	6.59	
G64	3.62	13.45	20.78	16.83	17.72	23.84	11.87	19.34	3.62	
G65	1.3	10.57	19.34	14.56	13.68	21.47	10.34	17.81	1.3	
G66	0.0	8.63	16.56	12.38	10.06	20.5	8.67	14.79	0.0	
G67	0.0	5.89	14.52	9.88	6.63	17.16	7.51	12.38	0.0	
G68	0.0	4.13	12.66	7.0	5.33	15.63	6.26	9.65	0.0	
G69	0.0	1.34	11.27	5.24	3.15	11.83	4.41	7.05	0.0	
G70	0.0	0.09	10.25	1.86	1.99	9.32	3.2	4.13	0.0	
G71	0.0	0.0	8.86	1.07	0.05	6.45	2.04	2.64	0.0	
G72	0.0	0.0	6.08	0.0	0.0	5.47	0.88	0.0	0.0	
G73	0.0	0.0	5.05	0.0	0.0	2.04	0.0	0.0	0.0	

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