

Report No.:

Test Time: 2024/5/23 14:40:19

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H74-38°-10.6W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.63 W
Power Factor: 0.9180
Lamp Luminous Flux: 1150.74

Photometric Results

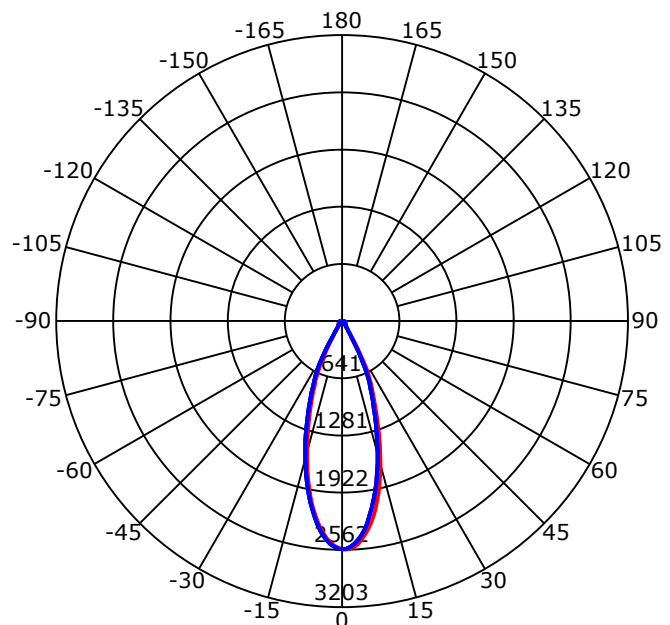
CIE Class: Direct
Luminaire Luminous Flux: 1150.741 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.25 lm/W
Beam Angle(50%) C0-180,C90-270: 36.0,35.8
Field Angle(10%) C0-180,C90-270: 60.4,60.5
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2562.32 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2557.92 cd
Effective Luminous Flux: 966.18 lm
ERP(ϕ use)(120deg): 1102.58 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.0 deg,35.8 deg

C0-180 — C90-270

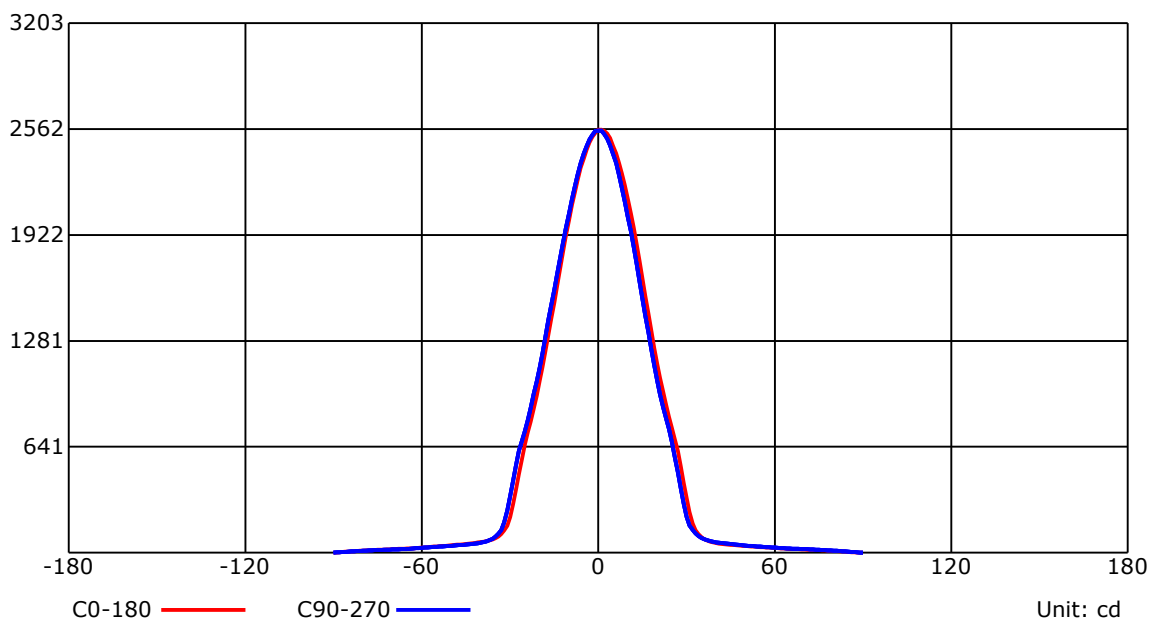
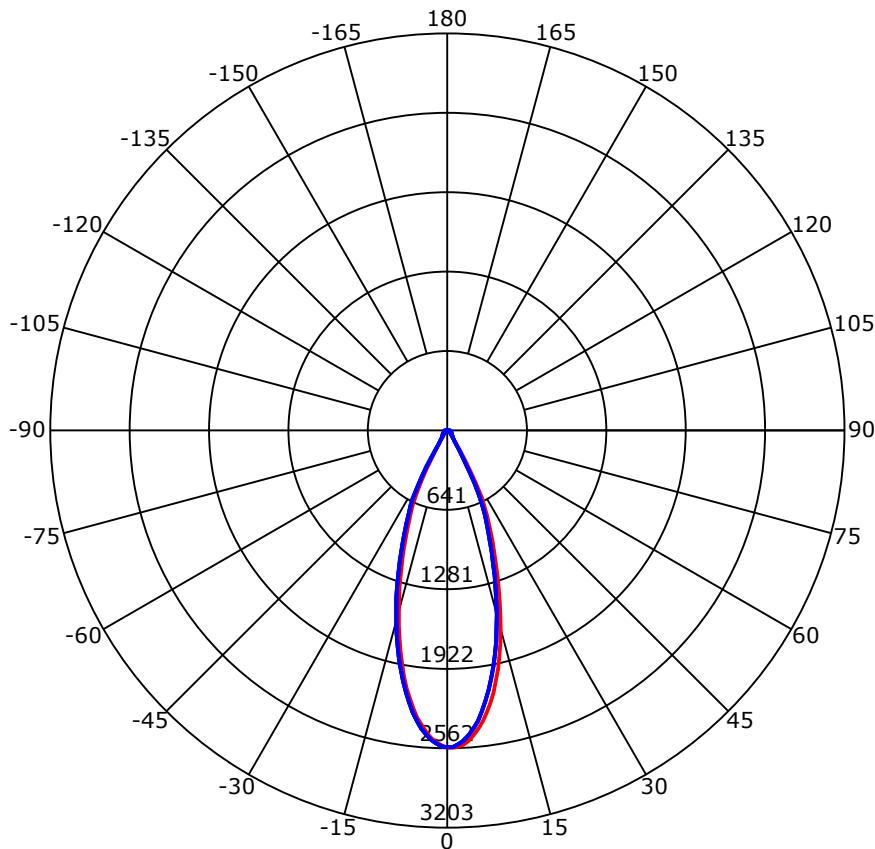
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:40:19

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



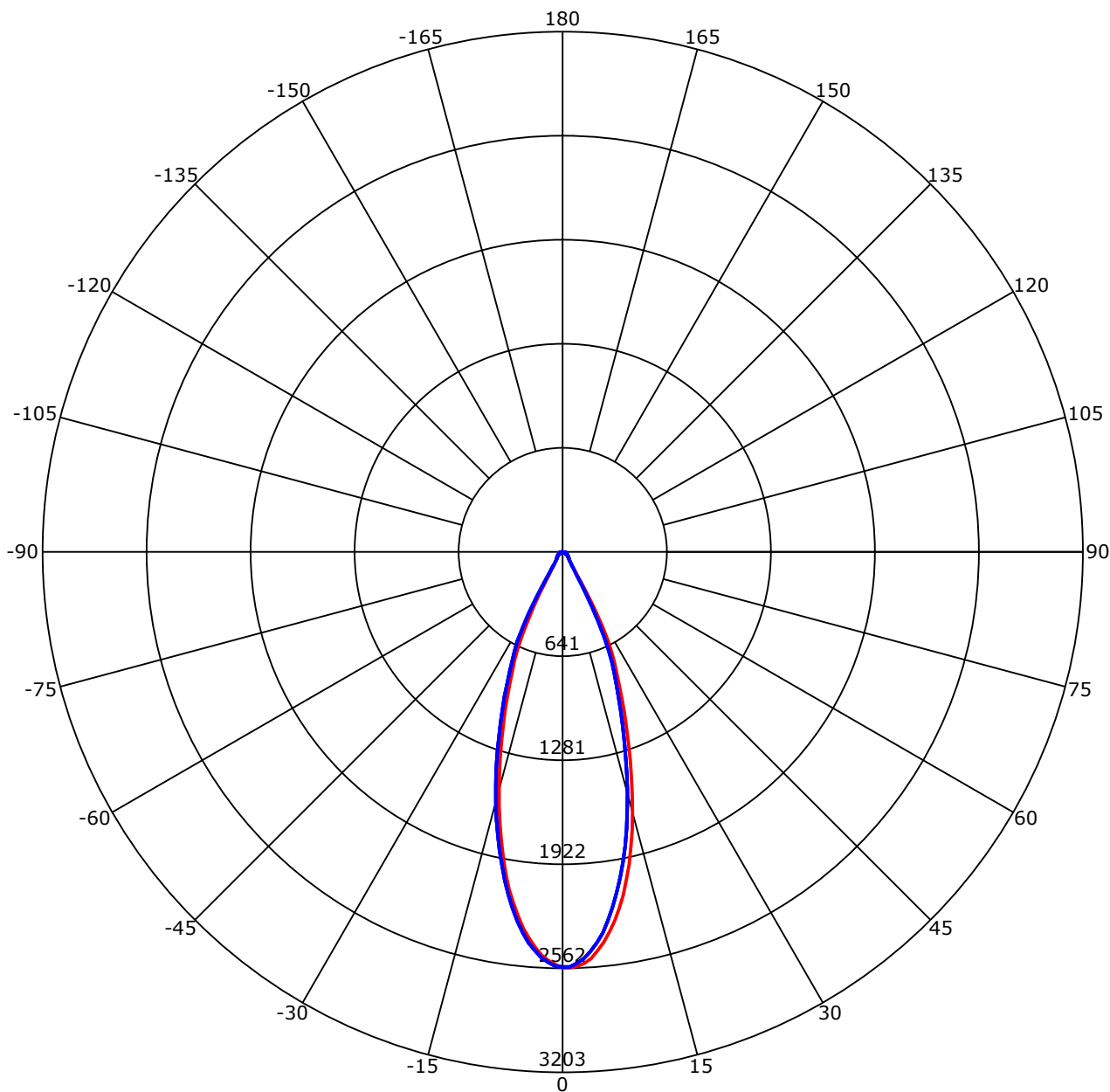
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/5/23 14:40:19

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

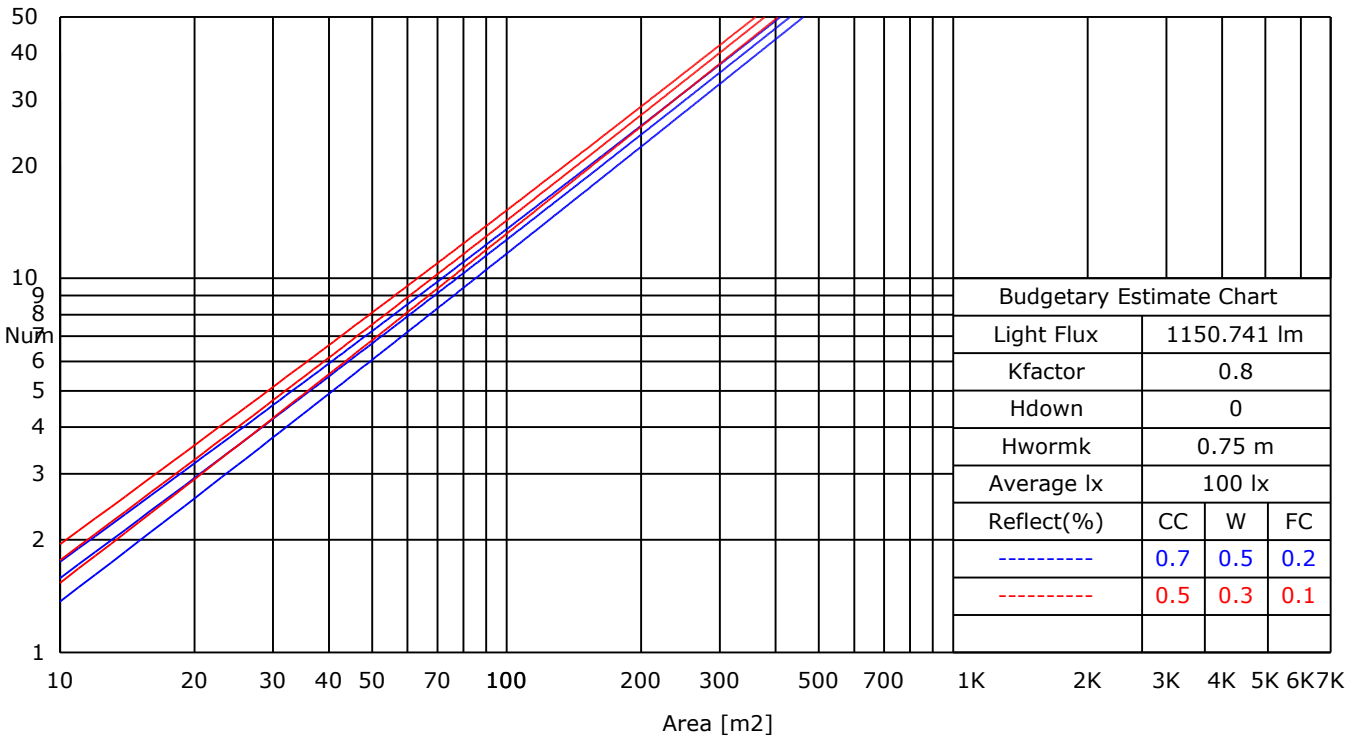
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.80	0.75
2	0.94	0.92	0.90	0.93	0.91	0.89	0.91	0.87	0.85	0.87	0.83	0.81	0.82	0.78	0.75	0.70
3	0.90	0.88	0.86	0.89	0.86	0.85	0.87	0.83	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.68
4	0.86	0.84	0.83	0.86	0.83	0.81	0.83	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
5	0.83	0.82	0.81	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
6	0.81	0.79	0.78	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.77	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.70	0.65	0.62	0.58
9	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



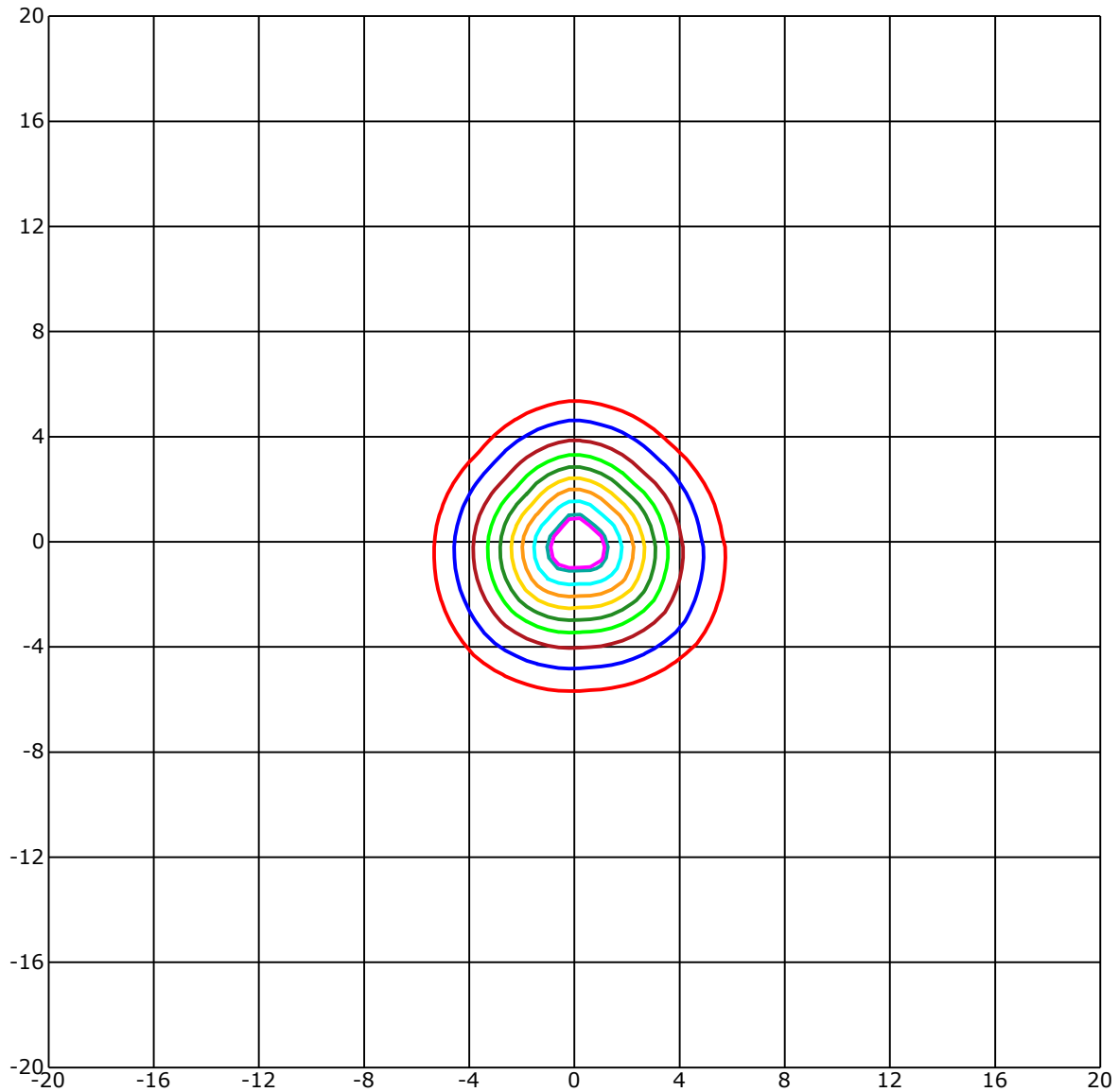
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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ISOLX DIAGRAM



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

23.533(92%Emax)	12.79(50%Emax)
23.021(90%Emax)	10.232(40%Emax)
20.463(80%Emax)	7.674(30%Emax)
17.905(70%Emax)	5.116(20%Emax)
15.348(60%Emax)	2.558(10%Emax)

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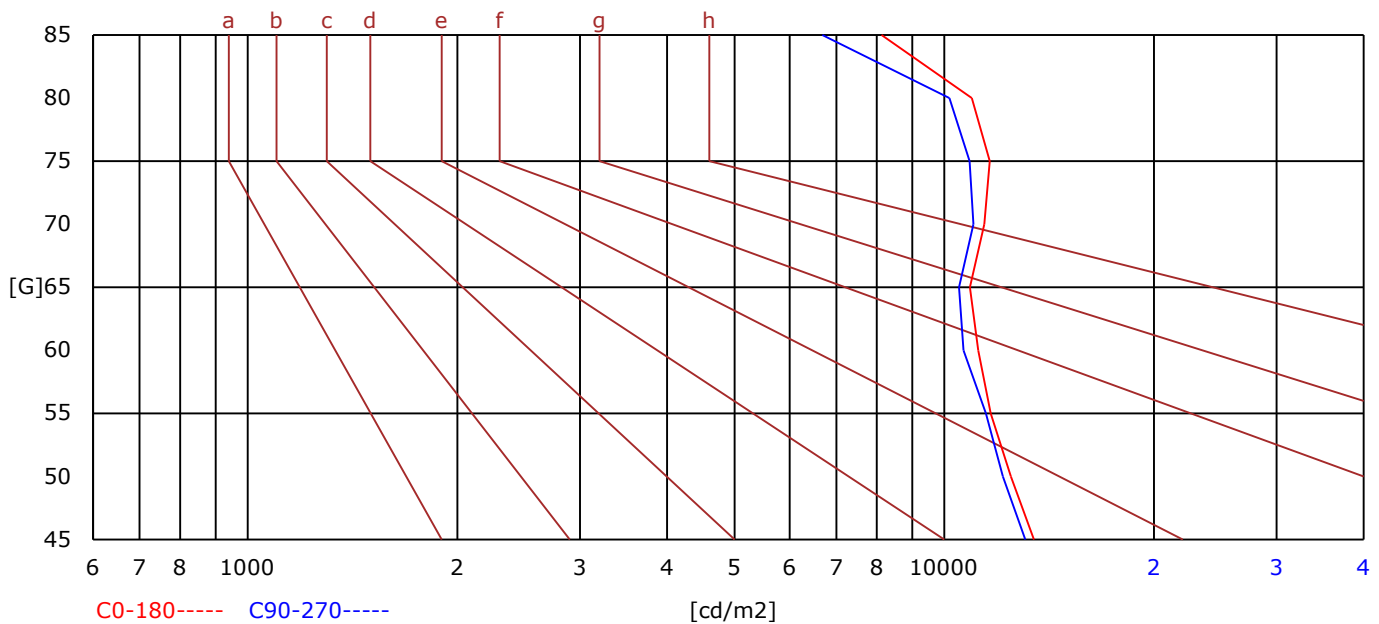
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13455	12460	11662	11184	10888	11411	11628	10958	8131
C90	13070	12143	11475	10659	10498	11013	10878	10175	6683
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	10.99	11.05	11.19	11.23	11.48	11.11	11.16	11.31	11.35	11.59
	3H	11.18	11.24	11.39	11.43	11.68	11.28	11.34	11.49	11.53	11.78
	4H	11.23	11.28	11.44	11.48	11.73	11.32	11.37	11.53	11.57	11.82
	6H	11.23	11.29	11.45	11.49	11.74	11.32	11.37	11.53	11.57	11.83
	8H	11.22	11.28	11.44	11.48	11.73	11.31	11.36	11.53	11.57	11.82
	12H	11.21	11.27	11.43	11.47	11.73	11.30	11.36	11.52	11.56	11.82
4H	2H	13.40	13.45	13.61	13.65	13.90	13.66	13.72	13.87	13.92	14.16
	3H	13.80	13.85	14.02	14.06	14.32	14.04	14.09	14.26	14.30	14.55
	4H	13.91	13.97	14.14	14.18	14.44	14.14	14.19	14.37	14.40	14.66
	6H	13.96	14.01	14.20	14.23	14.50	14.17	14.23	14.41	14.45	14.71
	8H	13.96	14.01	14.20	14.24	14.51	14.17	14.23	14.42	14.45	14.72
	12H	13.95	14.00	14.20	14.24	14.51	14.16	14.21	14.41	14.45	14.72
8H	4H	14.20	14.26	14.42	14.46	14.71	14.55	14.61	14.77	14.81	15.06
	6H	15.06	15.11	15.31	15.35	15.62	15.37	15.42	15.62	15.65	15.93
	8H	15.08	15.13	15.34	15.37	15.65	15.38	15.43	15.64	15.67	15.95
	12H	15.08	15.13	15.35	15.38	15.66	15.38	15.42	15.65	15.68	15.96
12H	4H	15.14	15.19	15.39	15.42	15.69	15.54	15.59	15.79	15.82	16.09
	6H	15.28	15.33	15.55	15.58	15.85	15.68	15.73	15.94	15.97	16.25

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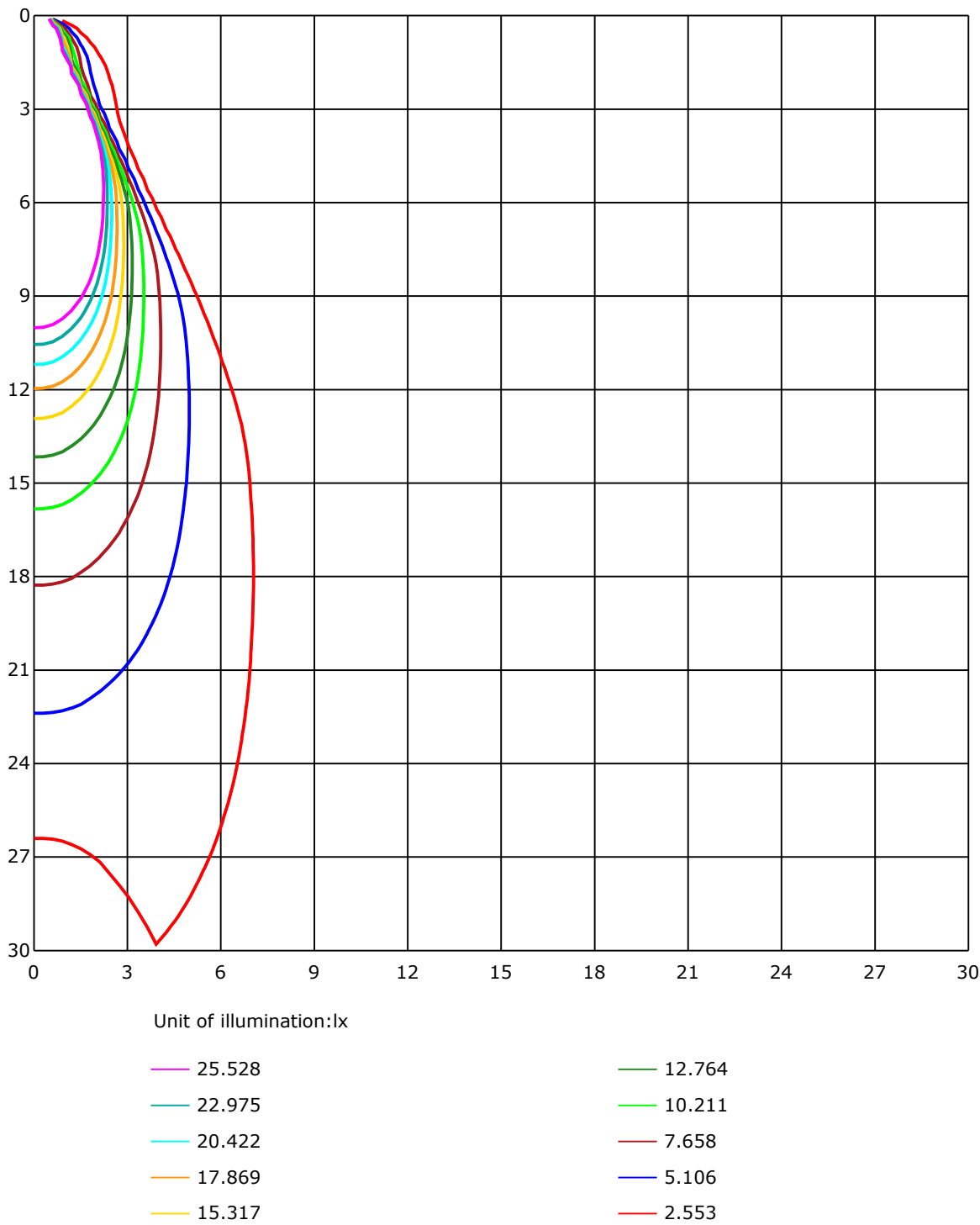
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Remarks:

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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2557.92	2553.84	2552.94	2544.37	2557.92	2553.84	2552.94	2544.37	2557.92	
G1	2558.51	2539.38	2553.66	2508.0	2539.38	2555.5	2550.56	2553.3	2558.51	
G2	2551.1	2514.74	2531.53	2473.93	2515.5	2547.46	2526.95	2562.32	2551.1	
G3	2534.58	2466.98	2503.83	2429.99	2483.99	2529.15	2500.46	2548.14	2534.58	
G4	2508.59	2421.5	2463.61	2373.74	2439.41	2496.24	2459.21	2531.26	2508.59	
G5	2462.31	2360.86	2413.42	2300.84	2384.92	2455.53	2414.36	2499.66	2462.31	
G6	2415.58	2295.9	2356.64	2227.71	2327.19	2408.8	2354.8	2467.02	2415.58	
G7	2357.85	2225.29	2284.5	2140.67	2257.02	2350.71	2290.11	2420.02	2357.85	
G8	2293.48	2142.24	2204.37	2048.6	2179.9	2279.25	2215.77	2373.33	2293.48	
G9	2222.91	2059.15	2123.16	1951.19	2104.04	2208.45	2138.02	2307.71	2222.91	
G10	2143.72	1960.17	2033.65	1856.7	2012.6	2130.26	2052.6	2230.58	2143.72	
G11	2053.72	1862.62	1944.32	1753.67	1916.89	2045.86	1963.76	2152.52	2053.72	
G12	1966.41	1763.23	1847.85	1652.67	1818.36	1953.39	1875.19	2077.02	1966.41	
G13	1866.71	1655.81	1747.07	1545.02	1718.84	1866.35	1782.58	1986.25	1866.71	
G14	1765.88	1544.17	1641.31	1440.34	1617.48	1767.23	1689.21	1890.63	1765.88	
G15	1660.66	1441.06	1536.81	1340.77	1512.7	1672.87	1593.06	1791.29	1660.66	
G16	1552.7	1333.28	1432.8	1240.54	1412.91	1570.34	1495.06	1696.35	1552.7	
G17	1445.5	1230.84	1330.27	1142.99	1315.91	1471.54	1406.05	1594.13	1445.5	
G18	1343.42	1135.09	1229.0	1054.69	1218.99	1373.9	1305.27	1496.36	1343.42	
G19	1238.47	1044.01	1133.56	965.49	1124.36	1278.29	1206.82	1400.84	1238.47	
G20	1144.11	961.99	1043.11	881.15	1038.84	1183.17	1118.39	1299.07	1144.11	
G21	1056.94	885.19	957.41	805.33	949.42	1093.03	1036.06	1209.11	1056.94	
G22	972.36	812.64	878.05	737.14	866.24	1010.88	956.74	1119.56	972.36	
G23	894.3	747.69	811.84	670.93	792.04	924.37	876.39	1038.71	894.3	
G24	820.9	682.69	747.15	590.08	729.37	845.82	802.45	960.6	820.9	
G25	754.83	604.17	670.88	494.06	654.41	776.24	736.42	887.25	754.83	
G26	688.39	506.76	580.34	398.17	568.17	716.09	678.24	819.33	688.39	
G27	614.95	412.27	484.09	308.44	473.54	657.28	615.17	758.46	614.95	
G28	521.04	319.44	387.49	227.14	379.99	576.03	527.73	698.58	521.04	
G29	423.31	237.47	296.59	165.06	292.1	486.38	434.94	620.69	423.31	
G30	332.72	171.84	217.27	129.37	214.98	392.65	342.6	526.56	332.72	
G31	246.04	132.61	165.87	108.68	163.22	302.6	255.42	428.61	246.04	
G32	177.09	111.37	137.77	92.88	134.09	225.03	183.47	331.42	177.09	
G33	135.25	94.81	117.57	81.52	113.21	168.92	136.87	245.05	135.25	
G34	112.4	81.97	101.41	73.13	98.13	137.36	113.84	180.05	112.4	
G35	94.45	73.4	90.41	67.16	88.03	116.18	97.77	141.99	94.45	
G36	81.88	66.75	82.28	61.77	80.85	100.1	84.39	119.41	81.88	

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	73.4	61.32	75.46	58.31	74.61	89.15	75.19	102.66	73.4	
G38	67.16	58.04	70.39	55.71	70.16	81.07	68.77	90.68	67.16	
G39	62.04	55.57	66.71	53.55	66.89	75.19	63.92	82.28	62.04	
G40	58.67	53.19	63.43	51.26	64.06	70.57	60.29	75.82	58.67	
G41	55.71	51.04	60.87	49.33	61.54	67.29	57.37	71.42	55.71	
G42	53.6	49.24	58.22	47.76	59.17	64.69	54.99	67.78	53.6	
G43	51.31	47.45	56.25	45.74	57.01	61.95	52.97	64.6	51.31	
G44	49.6	45.34	54.14	44.08	55.26	59.48	51.0	62.26	49.6	
G45	47.9	43.99	52.43	42.74	53.24	57.5	49.47	59.21	47.9	
G46	46.06	42.38	50.28	41.52	51.76	55.53	47.85	57.32	46.06	
G47	44.85	40.94	48.57	39.86	49.83	53.82	46.1	55.35	44.85	
G48	43.27	39.73	46.55	38.61	48.3	52.03	44.58	53.46	43.27	
G49	41.79	38.16	44.85	37.21	46.37	50.55	43.14	51.8	41.79	
G50	40.45	37.03	43.32	36.09	44.71	48.8	41.84	50.05	40.45	
G51	39.19	35.51	41.84	34.83	43.18	46.91	40.58	48.44	39.19	
G52	37.71	34.16	40.54	33.8	41.88	45.29	39.32	46.42	37.71	
G53	36.45	33.04	39.19	32.55	40.36	43.81	37.71	45.25	36.45	
G54	35.1	31.83	37.62	31.47	39.14	42.29	36.68	43.5	35.1	
G55	33.94	30.93	36.5	30.44	37.71	41.3	35.55	42.11	33.94	
G56	32.99	29.81	35.19	29.31	36.5	39.86	34.48	40.72	32.99	
G57	31.83	28.91	34.07	28.37	35.28	38.78	33.35	39.41	31.83	
G58	30.88	27.74	32.86	27.2	33.8	37.3	32.14	38.16	30.88	
G59	29.72	26.8	31.56	25.77	32.41	35.96	30.84	36.85	29.72	
G60	28.64	25.86	30.79	24.64	31.06	34.66	29.67	35.69	28.64	
G61	27.47	24.69	29.36	22.98	29.54	32.99	28.24	34.25	27.47	
G62	26.26	23.25	27.65	22.36	27.65	31.24	26.71	32.72	26.26	
G63	25.0	22.53	26.8	21.55	26.35	29.58	25.14	31.42	25.0	
G64	23.48	21.86	25.99	21.1	25.77	27.38	23.21	29.81	23.48	
G65	22.58	21.28	25.41	20.51	24.96	26.57	22.58	27.7	22.58	
G66	22.18	20.56	24.55	19.98	24.33	25.77	21.86	26.71	22.18	
G67	21.55	20.07	23.97	19.21	23.52	25.18	21.28	25.99	21.55	
G68	20.87	19.48	23.25	18.58	22.8	24.47	20.51	25.45	20.87	
G69	20.25	18.76	22.45	18.09	22.18	23.88	20.16	24.55	20.25	
G70	19.71	18.05	21.55	17.42	21.37	22.89	19.39	23.88	19.71	
G71	18.85	17.42	20.87	16.52	20.6	22.31	18.85	23.03	18.85	
G72	18.23	16.65	19.98	15.71	19.98	21.32	18.14	22.36	18.23	
G73	17.55	15.8	19.08	14.86	18.85	20.92	17.46	21.77	17.55	

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C Interval: 45.0 Deg

Test Speed: High

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Humidity: 60

Test Distance: 6.7 m

Remarks:

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