

Report No.:

Test Time: 2024/12/28 11:07:33

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H122-15°-25W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 75 mm

Voltage(V): 219.80 V
Current(A): 0.1140 A
Power(W): 24.25 W
Power Factor: 0.9630
Lamp Luminous Flux: 2005.91

Photometric Results

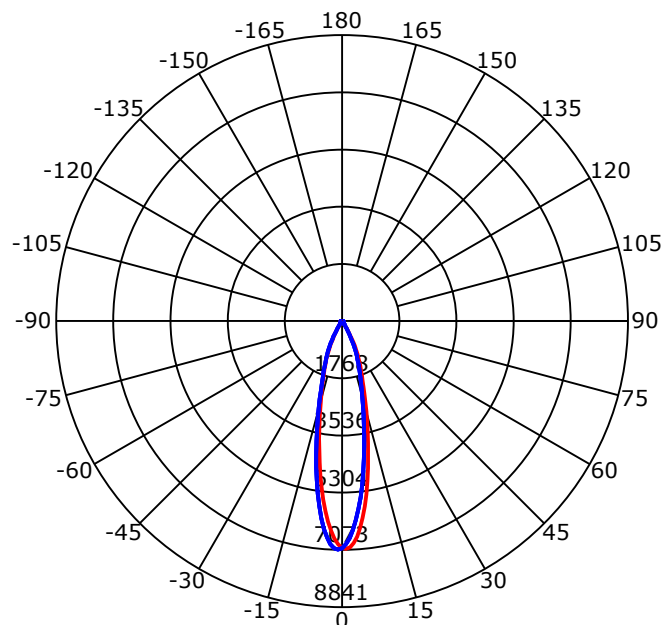
CIE Class: Direct
Luminaire Luminous Flux: 2005.914 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.72 lm/W
Beam Angle(50%) C0-180,C90-270: 24.5,23.9
Field Angle(10%) C0-180,C90-270: 54.9,54.2
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 7072.56 cd
Max.Intensity Angle: C=315 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7012.02 cd
Effective Luminous Flux: 1650.08 lm
ERP(ϕ use)(120deg): 1939.12 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.5 deg,23.9 deg

C0-180 — C90-270 —

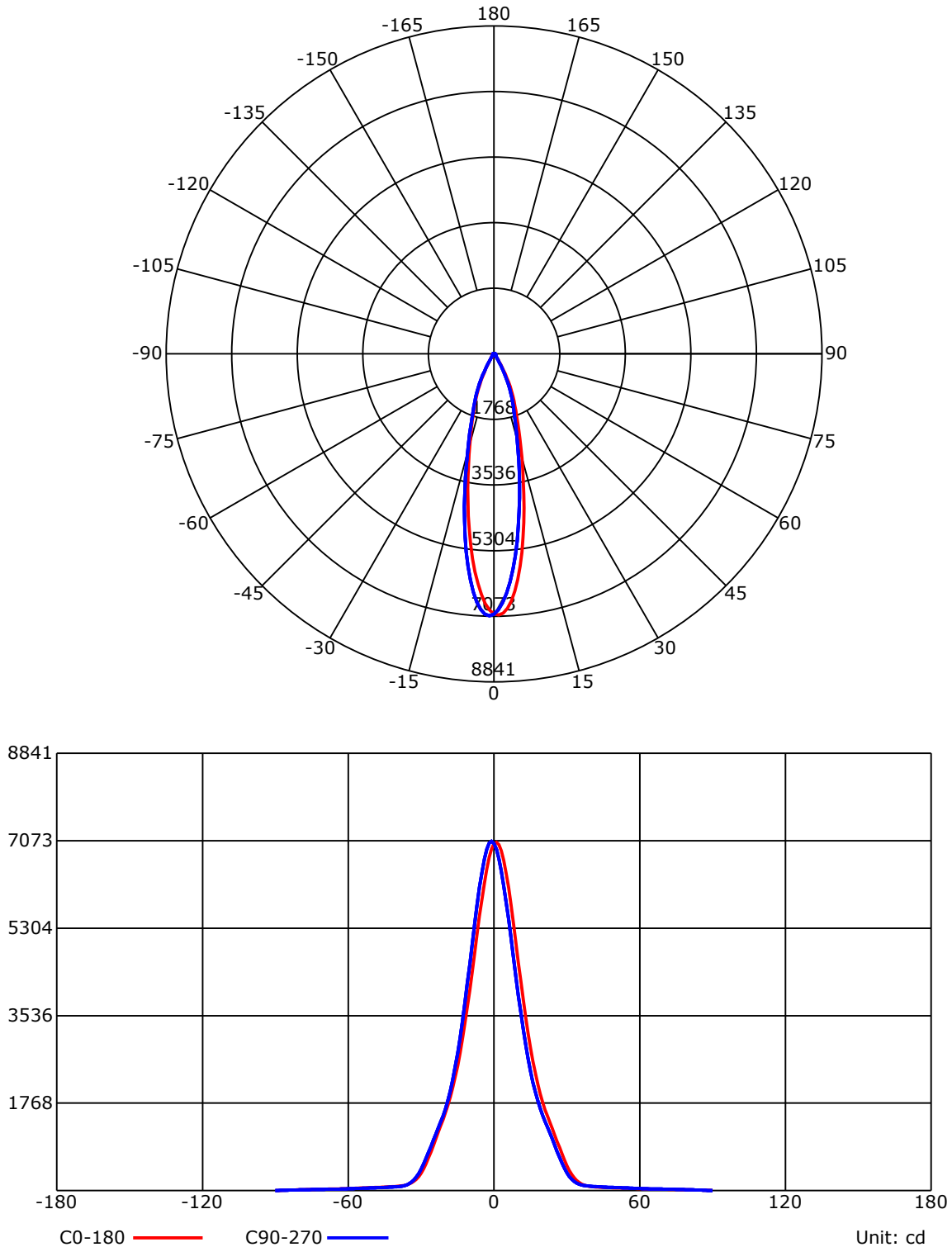
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/28 11:07:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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Luminous Intensity Distribution Curve



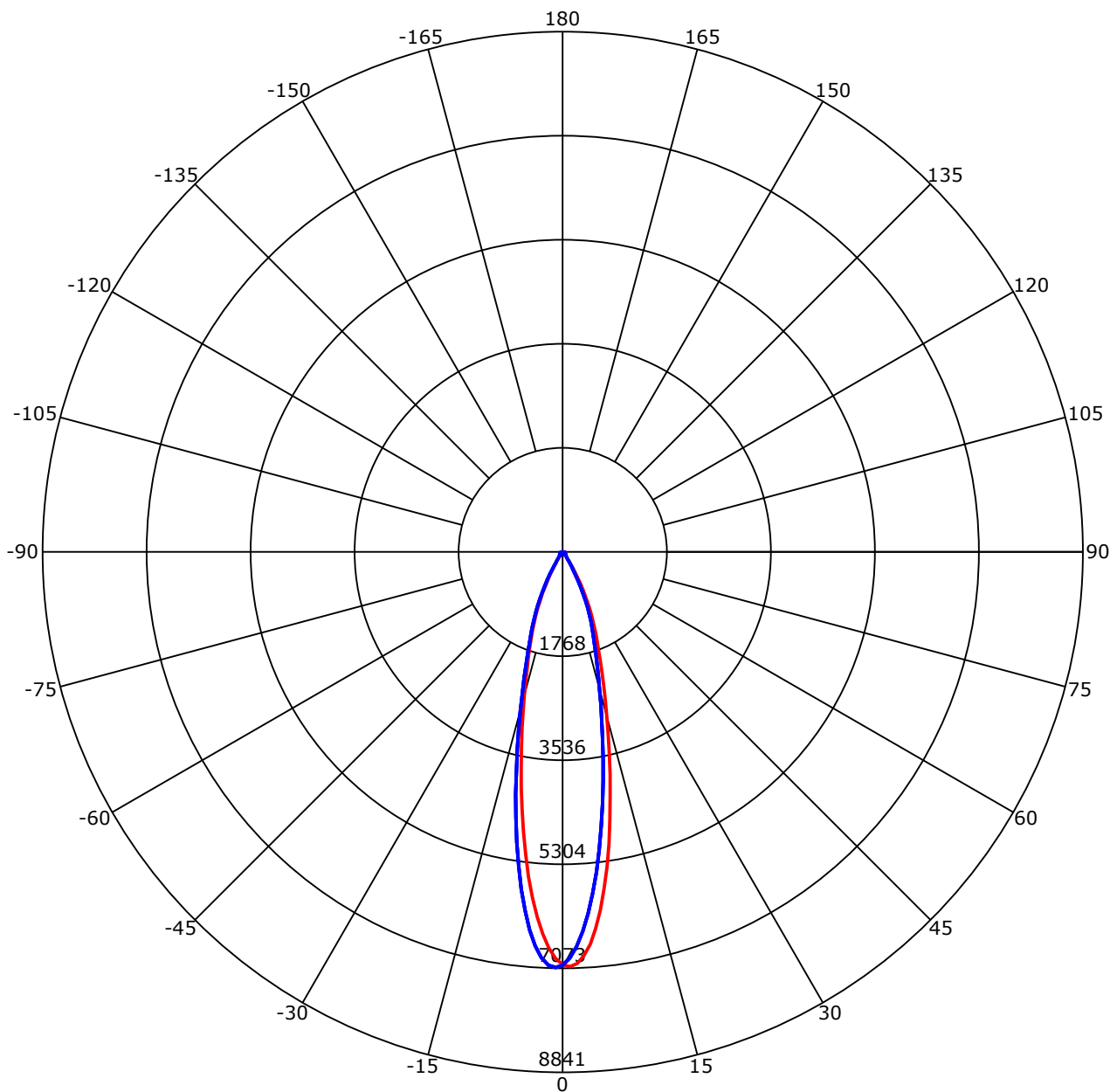
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Luminous Intensity Distribution Curve



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: 2024/12/28 11:07:33

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Humidity: 60
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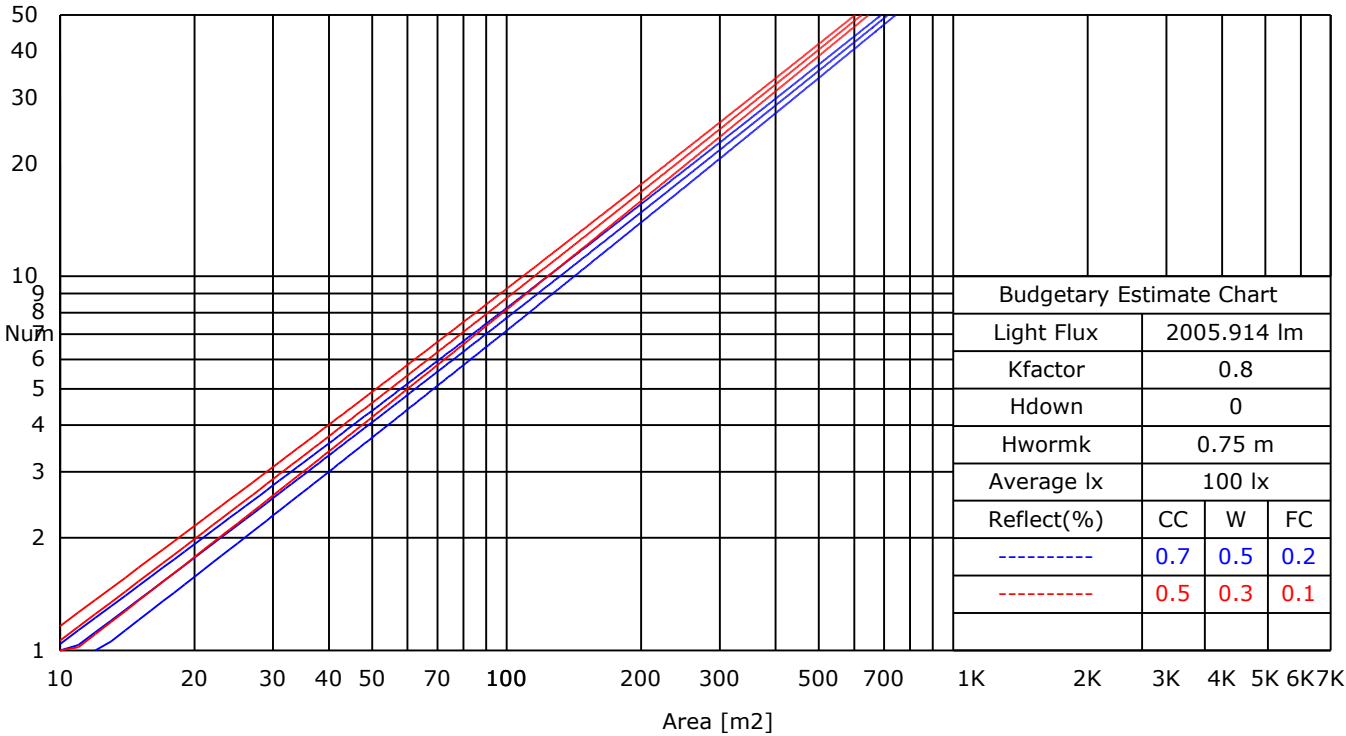
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.87	0.91	0.88	0.85	0.89	0.85	0.82	0.85	0.81	0.78	0.79	0.76	0.72	0.67
2	0.88	0.85	0.83	0.87	0.84	0.81	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.64
3	0.84	0.82	0.80	0.83	0.80	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
4	0.81	0.79	0.77	0.81	0.78	0.76	0.79	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.61
5	0.78	0.76	0.75	0.78	0.75	0.74	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.67	0.63	0.59
6	0.76	0.74	0.73	0.76	0.73	0.72	0.74	0.71	0.68	0.72	0.68	0.65	0.70	0.65	0.61	0.57
7	0.74	0.73	0.72	0.74	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
8	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
9	0.71	0.70	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.57	0.54
10	0.70	0.68	0.67	0.69	0.67	0.66	0.67	0.65	0.63	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



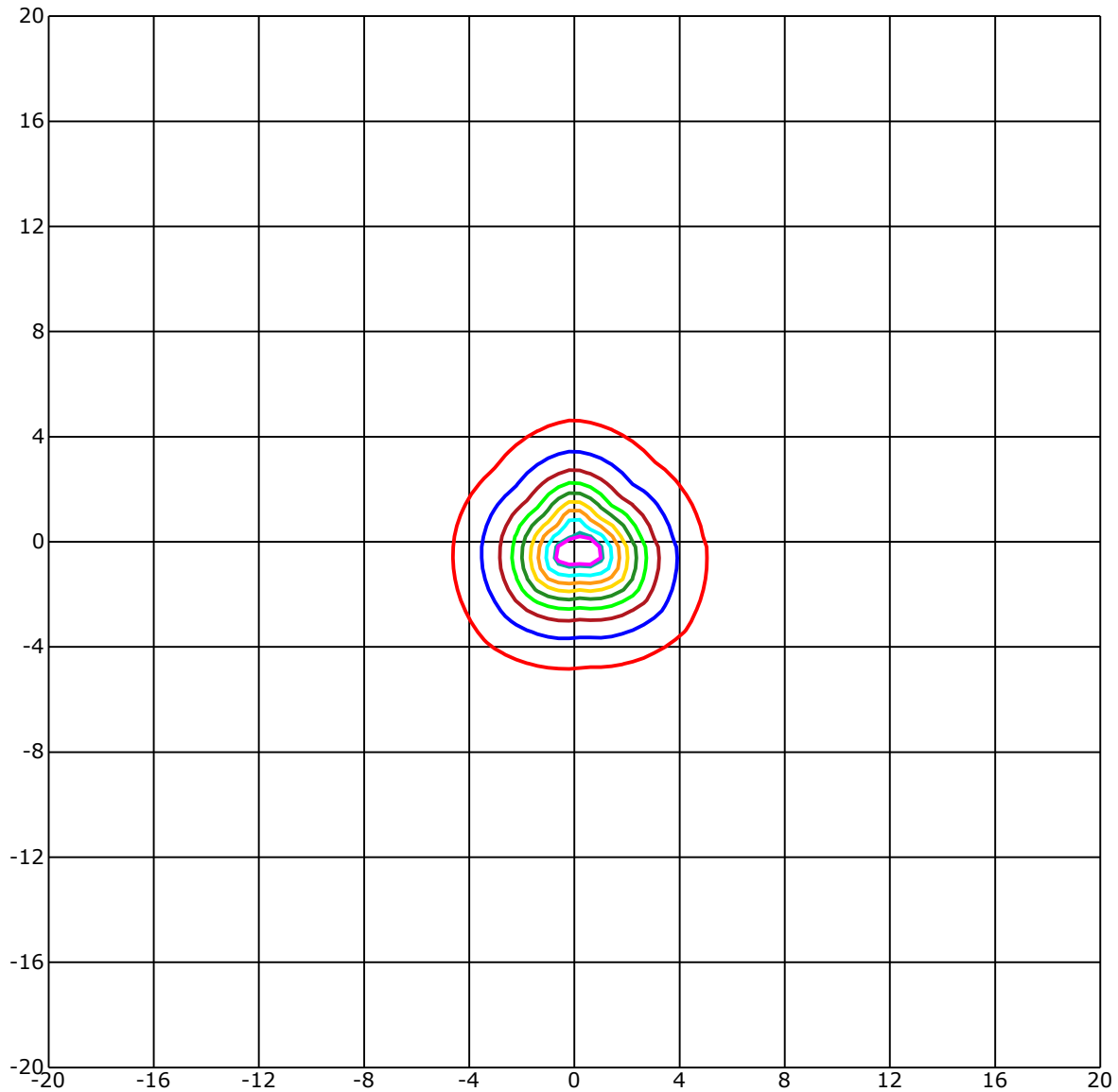
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Operators: QC01
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G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



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

64.927(92%Emax)	35.286(50%Emax)
63.516(90%Emax)	28.229(40%Emax)
56.458(80%Emax)	21.172(30%Emax)
49.401(70%Emax)	14.115(20%Emax)
42.344(60%Emax)	7.057(10%Emax)

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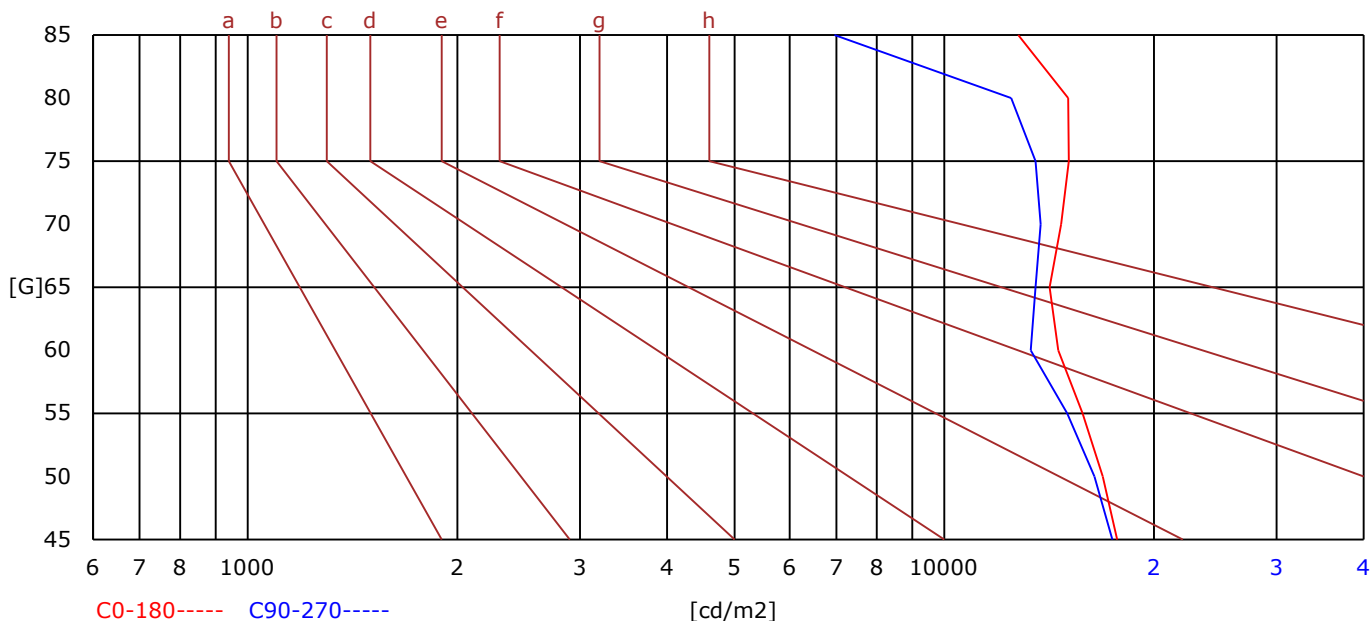
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17700	16889	15790	14574	14161	14708	15095	15057	12775
C90	17433	16425	15010	13301	13526	13748	13520	12480	6958
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



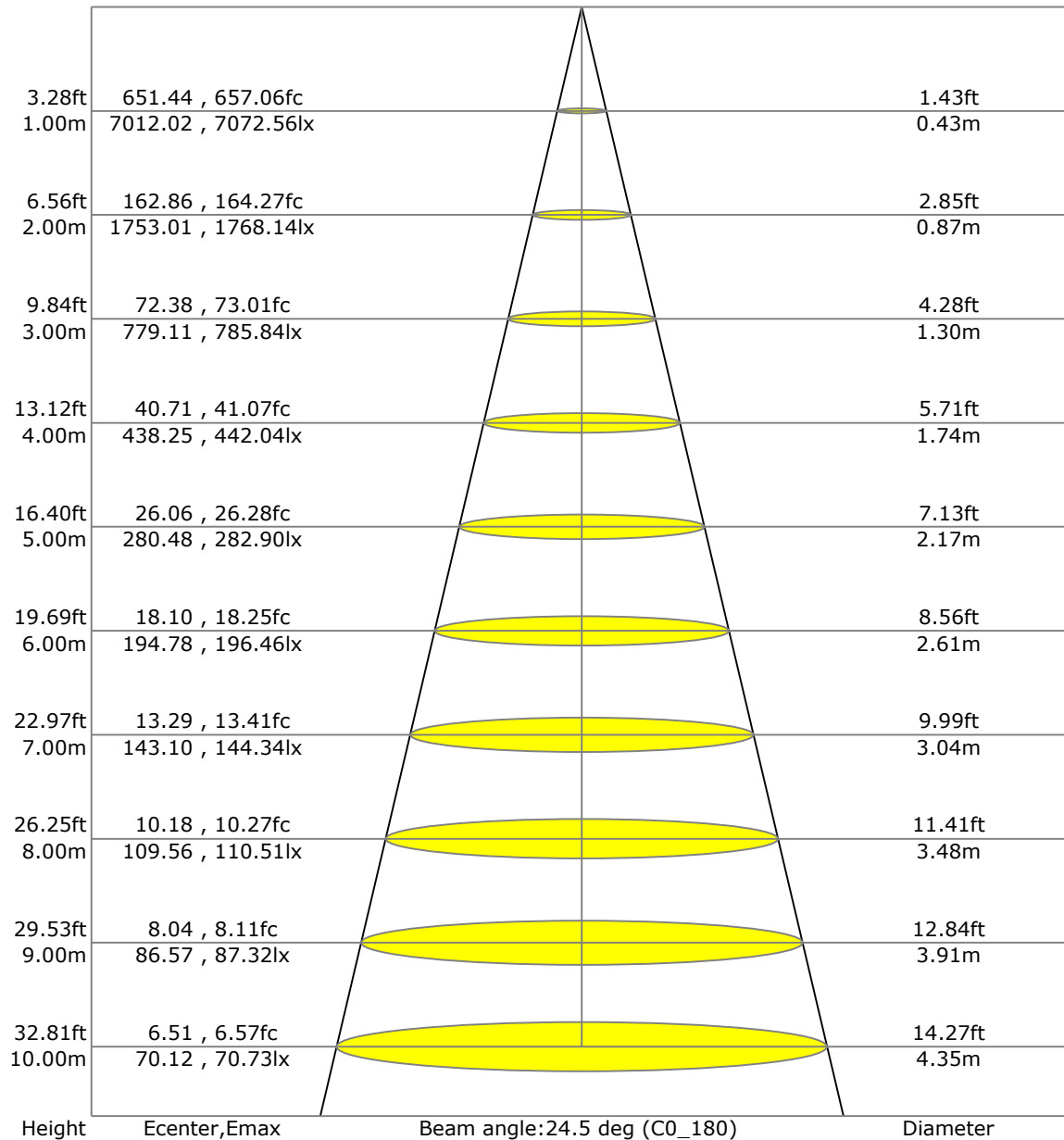
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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: 6.78 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	9.36	9.42	9.56	9.61	9.85	9.55	9.60	9.75	9.79	10.04
	3H	9.56	9.61	9.76	9.81	10.05	9.71	9.77	9.92	9.96	10.21
	4H	9.60	9.66	9.81	9.86	10.11	9.75	9.81	9.96	10.00	10.25
	6H	9.61	9.67	9.82	9.87	10.12	9.75	9.81	9.96	10.01	10.26
	8H	9.60	9.66	9.82	9.86	10.11	9.74	9.80	9.96	10.00	10.26
	12H	9.59	9.65	9.81	9.85	10.11	9.73	9.79	9.95	10.00	10.25
4H	2H	11.77	11.83	11.98	12.03	12.28	12.14	12.20	12.35	12.40	12.65
	3H	12.16	12.22	12.39	12.43	12.69	12.50	12.56	12.72	12.76	13.02
	4H	12.28	12.34	12.51	12.55	12.81	12.59	12.65	12.82	12.86	13.12
	6H	12.33	12.39	12.57	12.61	12.88	12.63	12.69	12.87	12.91	13.18
	8H	12.34	12.40	12.58	12.62	12.89	12.64	12.69	12.88	12.92	13.19
	12H	12.33	12.39	12.58	12.62	12.89	12.63	12.68	12.88	12.92	13.19
8H	4H	12.69	12.75	12.91	12.96	13.21	13.12	13.18	13.34	13.39	13.64
	6H	13.58	13.64	13.84	13.88	14.15	13.95	14.00	14.20	14.24	14.52
	8H	13.61	13.67	13.88	13.91	14.19	13.97	14.03	14.23	14.27	14.55
	12H	13.62	13.67	13.89	13.93	14.21	13.98	14.03	14.25	14.28	14.57
12H	4H	13.80	13.85	14.05	14.09	14.36	14.19	14.25	14.44	14.48	14.75
	6H	13.97	14.03	14.24	14.27	14.55	14.35	14.41	14.62	14.65	14.93

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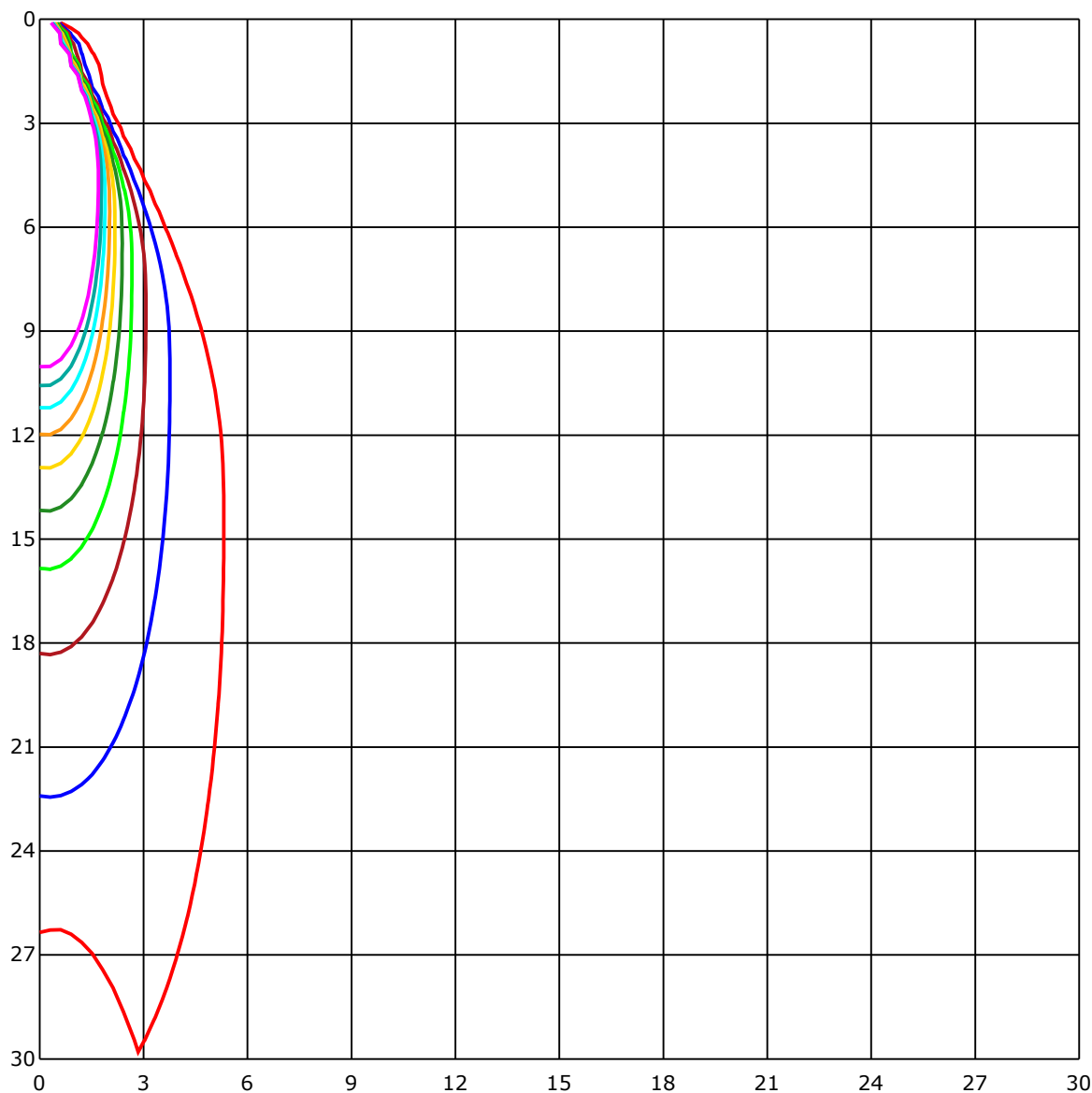
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Humidity: 60
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SPACE ISOLX DIAGRAM



69.828

62.845

55.862

48.88

41.897

34.914

27.931

20.948

13.966

6.983

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7012.02	6822.54	7020.11	6655.44	7012.02	6822.54	7020.11	6655.44	7012.02	
G1	7043.1	6607.54	6895.63	6391.26	6908.73	6969.13	7060.52	6862.94	7043.1	
G2	6994.28	6332.33	6705.64	6084.19	6734.14	7033.72	7022.78	7003.33	6994.28	
G3	6869.29	6010.92	6455.07	5738.24	6498.65	7013.17	6901.01	7072.56	6869.29	
G4	6678.98	5644.37	6160.69	5365.71	6214.33	6910.98	6706.15	7067.87	6678.98	
G5	6423.07	5250.51	5830.82	4977.18	5894.48	6732.72	6444.22	6984.3	6423.07	
G6	6117.11	4835.78	5474.47	4582.08	5548.71	6489.13	6126.03	6831.87	6117.11	
G7	5769.59	4431.81	5092.89	4196.27	5178.8	6192.04	5771.88	6611.54	5769.59	
G8	5399.86	4041.17	4703.21	3825.58	4798.46	5844.42	5391.04	6337.3	5399.86	
G9	5012.58	3669.57	4318.04	3489.97	4420.0	5470.84	4988.68	6021.63	5012.58	
G10	4620.61	3316.39	3950.62	3154.72	4059.24	5083.19	4582.08	5684.59	4620.61	
G11	4233.28	2990.7	3593.44	2855.83	3702.53	4689.6	4184.14	5322.5	4233.28	
G12	3864.33	2694.21	3261.73	2583.79	3378.36	4292.94	3789.54	4950.48	3864.33	
G13	3513.23	2427.82	2954.62	2340.16	3067.2	3907.45	3425.8	4570.04	3513.23	
G14	3188.23	2195.73	2672.56	2117.4	2782.88	3550.14	3086.18	4204.41	3188.23	
G15	2896.61	1990.16	2420.37	1924.97	2518.89	3203.4	2779.89	3854.63	2896.61	
G16	2626.27	1803.85	2192.42	1749.24	2291.07	2889.85	2496.5	3511.76	2626.27	
G17	2373.99	1643.0	1990.16	1594.64	2078.69	2606.0	2243.3	3193.15	2373.99	
G18	2153.94	1504.32	1819.11	1452.19	1893.99	2355.24	2018.47	2894.4	2153.94	
G19	1957.89	1386.27	1661.16	1320.67	1728.46	2120.52	1827.52	2624.61	1957.89	
G20	1790.79	1277.32	1523.72	1188.51	1581.54	1922.08	1660.79	2377.72	1790.79	
G21	1638.27	1169.07	1401.16	1060.31	1439.0	1748.36	1516.73	2155.09	1638.27	
G22	1501.56	1058.65	1281.51	931.18	1305.37	1597.36	1383.28	1957.24	1501.56	
G23	1373.81	939.5	1163.92	805.69	1175.09	1467.4	1261.37	1785.46	1373.81	
G24	1250.02	817.87	1041.18	681.76	1041.92	1346.14	1141.07	1632.48	1250.02	
G25	1120.16	696.61	914.45	568.49	909.48	1223.54	1020.41	1488.14	1120.16	
G26	992.64	580.63	788.27	465.57	781.1	1105.91	895.14	1351.66	992.64	
G27	865.68	472.88	666.4	374.41	656.24	984.41	772.22	1216.19	865.68	
G28	739.17	376.99	551.9	297.74	543.21	863.65	654.73	1081.91	739.17	
G29	618.28	296.04	448.97	236.65	441.71	740.87	542.11	953.25	618.28	
G30	505.79	231.18	360.02	188.56	354.65	623.24	437.3	820.12	505.79	
G31	407.28	181.67	286.61	152.94	283.99	510.02	348.03	697.11	407.28	
G32	323.89	146.59	228.51	125.91	228.46	409.85	274.11	579.48	323.89	
G33	257.1	120.94	185.34	106.97	186.4	323.02	215.5	474.99	257.1	
G34	204.79	102.97	152.8	93.91	155.28	254.66	171.46	384.2	204.79	
G35	165.81	90.24	130.32	84.49	132.53	203.13	138.64	310.61	165.81	
G36	136.62	82.15	113.91	78.24	115.79	165.12	114.83	250.11	136.62	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	115.24	76.81	103.02	73.87	104.44	137.95	99.2	202.95	115.24	
G38	99.8	73.04	95.52	70.79	96.53	119.33	88.49	167.83	99.8	
G39	88.99	69.87	90.05	68.03	90.83	107.29	82.05	142.09	88.99	
G40	81.73	67.34	85.69	65.73	86.7	99.2	77.46	123.47	81.73	
G41	76.54	65.0	82.56	63.9	83.2	93.18	73.69	110.32	76.54	
G42	72.4	63.16	79.34	61.78	80.08	88.49	70.75	101.08	72.4	
G43	69.46	61.14	76.86	60.13	77.27	84.81	68.49	94.65	69.46	
G44	66.93	59.48	74.28	58.52	74.79	81.5	66.24	89.27	66.93	
G45	64.72	57.87	72.22	57.0	72.54	78.7	64.17	85.41	64.72	
G46	62.79	56.4	70.06	55.21	70.24	76.26	62.2	81.92	62.79	
G47	60.91	54.66	67.99	53.46	68.22	73.96	60.63	79.02	60.91	
G48	59.25	53.23	65.83	51.85	66.38	71.66	58.84	76.08	59.25	
G49	57.41	51.71	64.17	50.52	64.22	69.37	57.23	73.73	57.41	
G50	55.76	50.2	62.43	48.82	62.24	67.3	55.35	71.25	55.76	
G51	54.1	48.63	60.31	46.84	60.63	65.32	53.69	69.27	54.1	
G52	52.68	46.8	58.47	45.1	58.56	63.57	52.13	67.02	52.68	
G53	51.07	45.0	56.73	43.44	56.59	61.51	50.43	65.14	51.07	
G54	49.37	43.39	54.66	41.51	54.61	59.67	48.77	63.3	49.37	
G55	47.39	41.88	52.91	39.81	52.31	57.6	46.66	61.14	47.39	
G56	45.78	40.27	50.89	38.06	50.43	55.76	44.91	59.16	45.78	
G57	44.04	38.75	49.09	36.45	47.81	53.74	43.16	57.18	44.04	
G58	42.47	37.14	46.52	34.57	45.92	51.67	41.28	55.16	42.47	
G59	40.91	35.63	44.77	32.73	43.95	49.65	39.67	53.51	40.91	
G60	39.12	33.69	42.93	30.75	42.11	47.3	37.65	51.12	39.12	
G61	37.42	31.49	40.77	29.7	39.72	45.19	35.95	49.19	37.42	
G62	35.76	30.11	38.48	28.91	37.83	43.21	34.02	46.7	35.76	
G63	34.06	29.19	37.23	28.18	36.64	41.19	31.95	45.0	34.06	
G64	32.04	28.41	36.09	27.35	35.72	38.8	30.39	42.98	32.04	
G65	30.43	27.67	35.12	26.43	34.75	37.28	29.37	40.87	30.43	
G66	29.79	26.89	34.06	25.51	33.79	36.18	28.45	38.43	29.79	
G67	29.01	25.93	33.14	24.64	32.78	35.07	27.81	37.19	29.01	
G68	28.13	25.14	32.09	23.77	31.58	34.06	26.89	36.04	28.13	
G69	27.17	24.36	31.17	22.8	30.61	33.01	26.11	35.26	27.17	
G70	26.39	23.26	30.2	21.74	29.56	32.27	25.24	34.06	26.39	
G71	25.56	22.25	28.96	20.64	28.59	31.12	24.32	33.19	25.56	
G72	24.73	21.42	27.95	19.54	27.4	30.06	23.49	32.13	24.73	
G73	23.67	20.18	26.75	18.57	26.39	28.87	22.62	31.17	23.67	

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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