

Report No.:

Test Time: 2025/6/19 17:21:23

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042.(C)-15°-7W
Lamp Type:
Luminous Width: 32 mm
Luminous Length: 32 mm
Luminous Height: 46 mm

Voltage(V): 219.80 V
Current(A): 0.0360 A
Power(W): 7.36 W
Power Factor: 0.9100
Lamp Luminous Flux: 500.60

Photometric Results

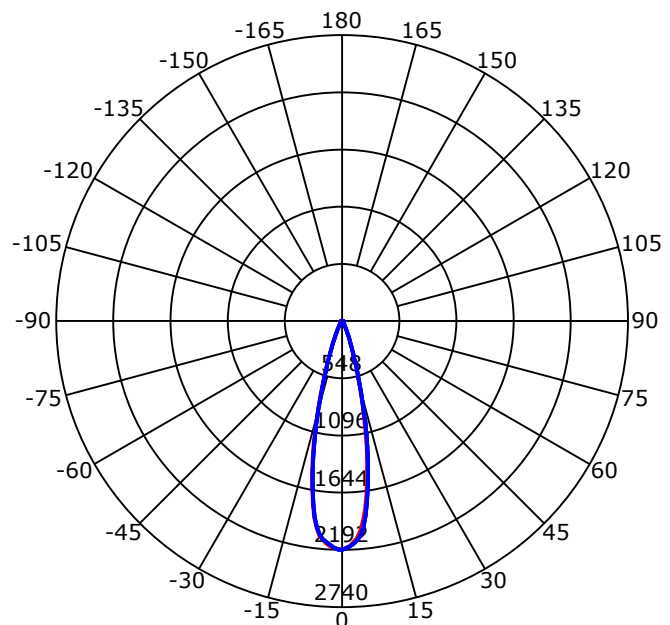
CIE Class: Direct
Luminaire Luminous Flux: 500.6004 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.01 lm/W
Beam Angle(50%) C0-180,C90-270: 25.7,25.8
Field Angle(10%) C0-180,C90-270: 43.5,43.7
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 2191.68 cd
Max.Intensity Angle: C=270 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2187.15 cd
Effective Luminous Flux: 417.35 lm
ERP(ϕ use)(120deg): 496.51 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.7 deg,25.8 deg

C0-180 — C90-270

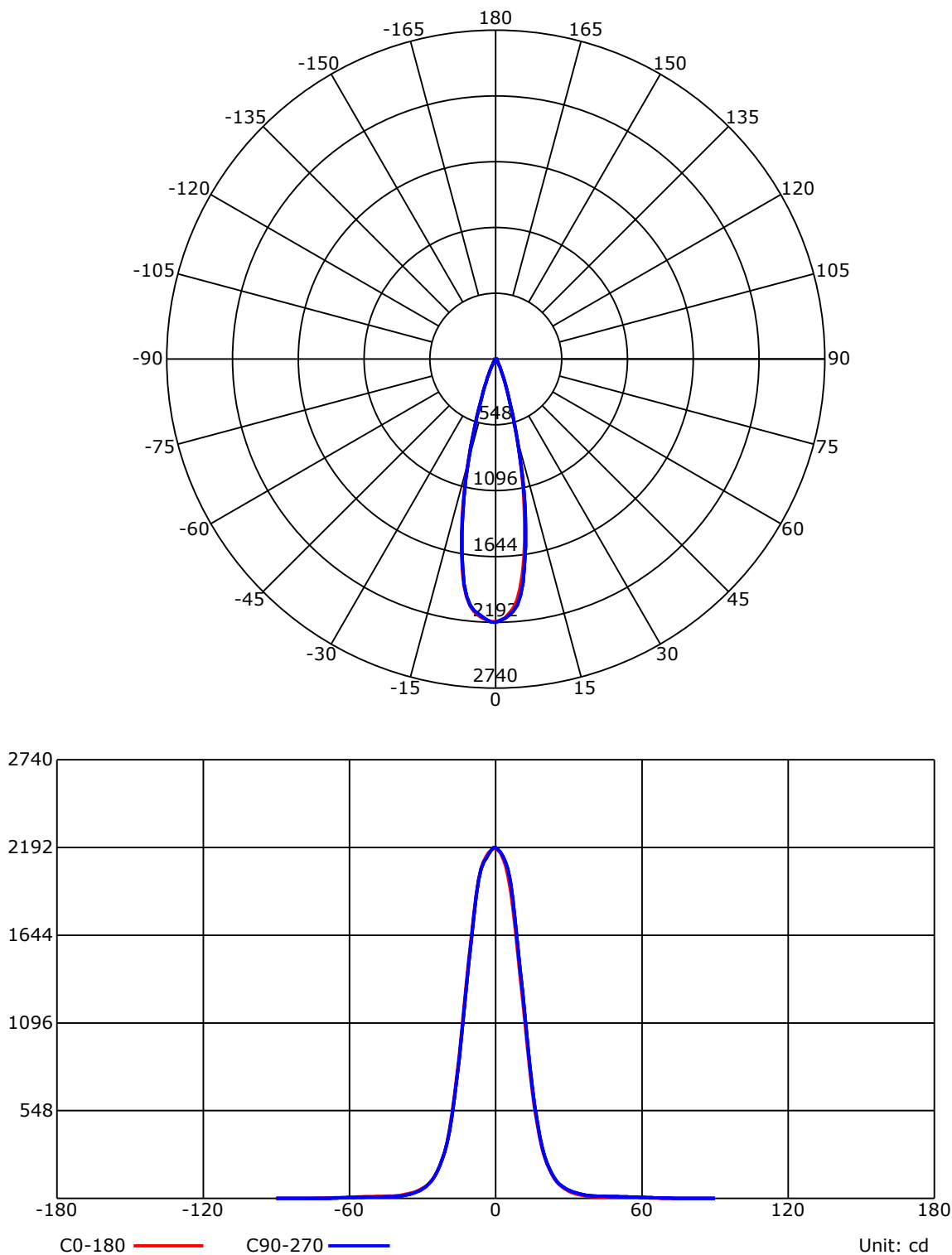
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:21:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



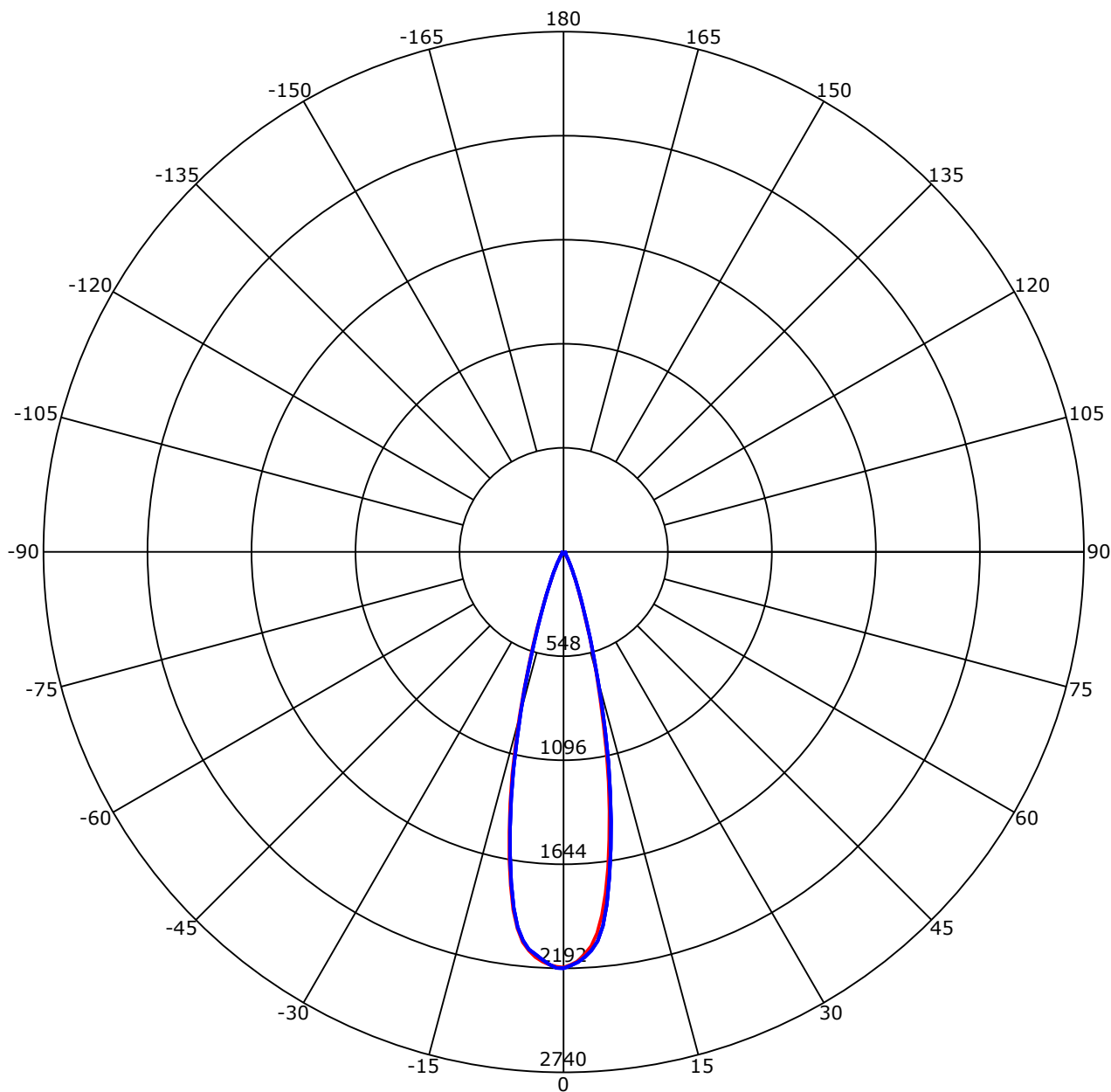
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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Luminous 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: 2025/6/19 17:21:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

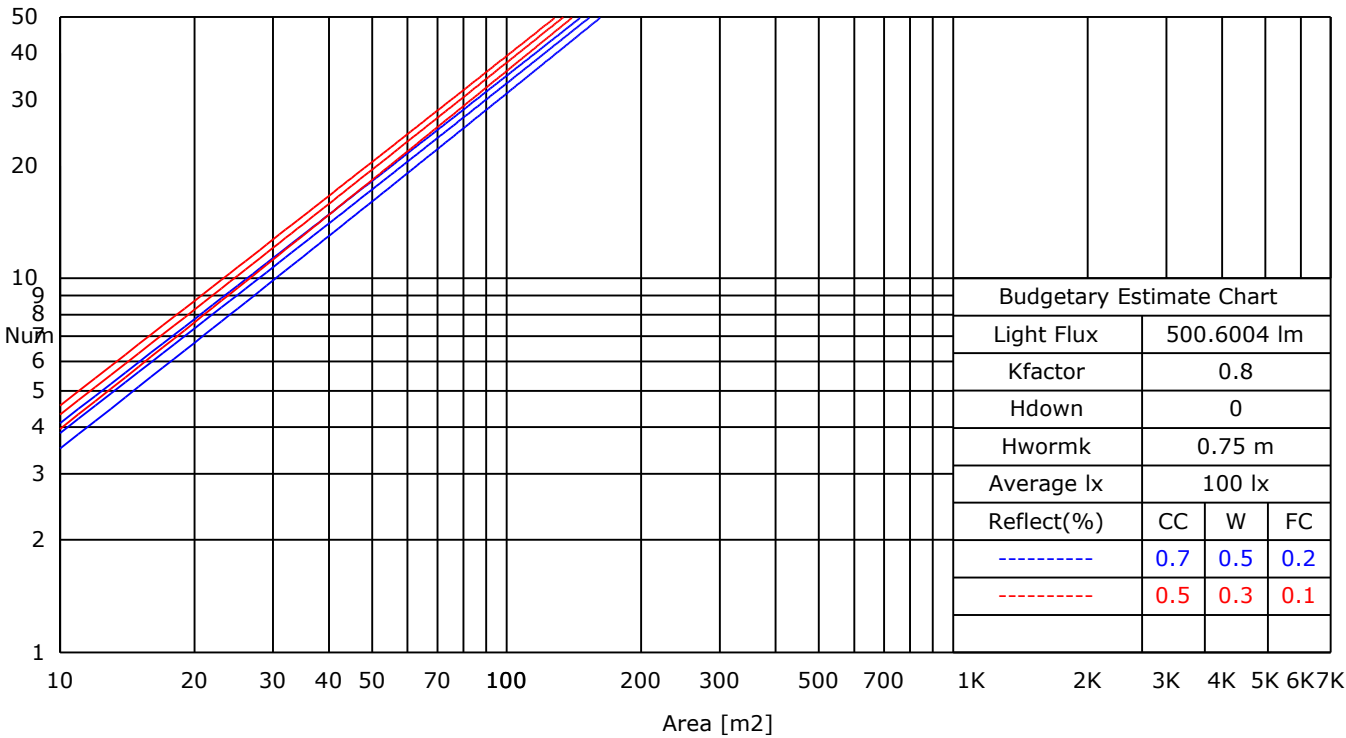
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



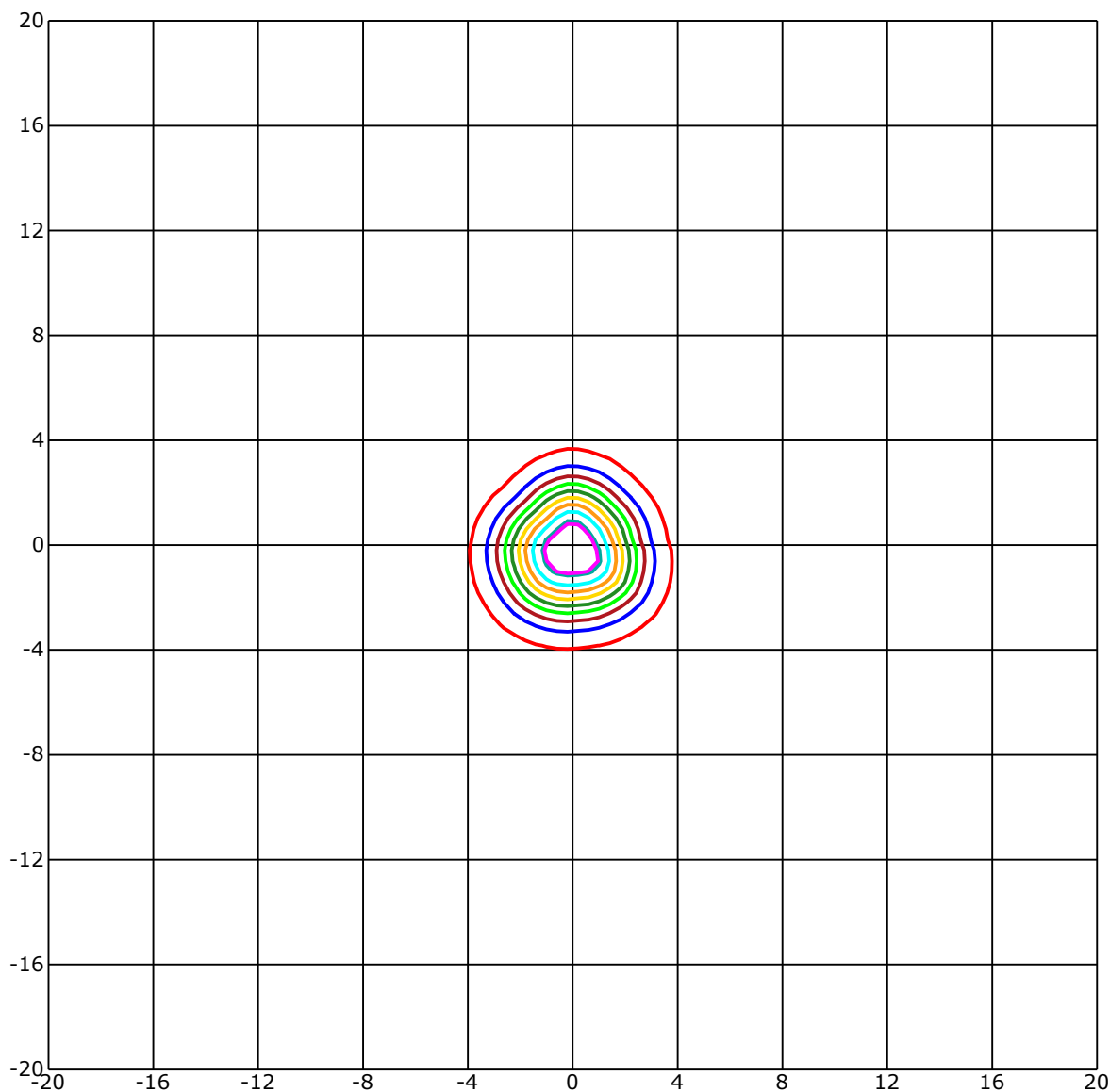
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ISOLX DIAGRAM



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Operators: QC01
Test Date: 2025/6/19 17:21:23

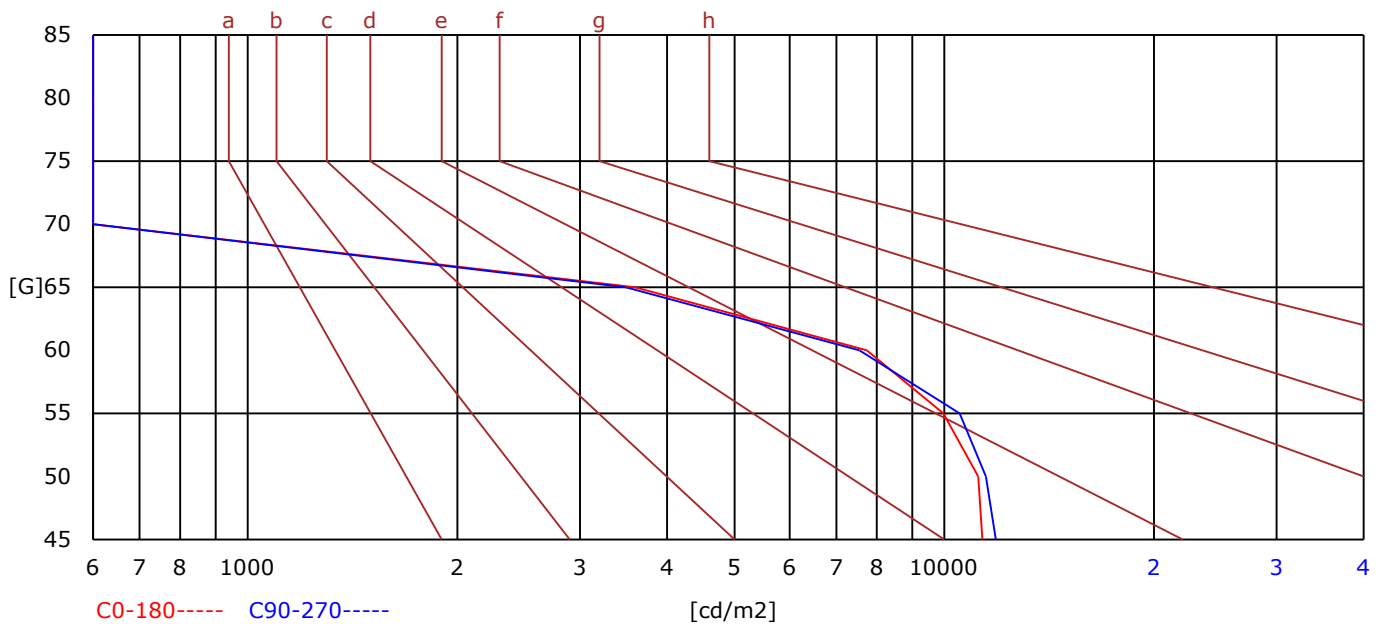
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11342	11186	9964	7743	3599	0	0	0	0
C90	11863	11473	10527	7559	3490	0	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



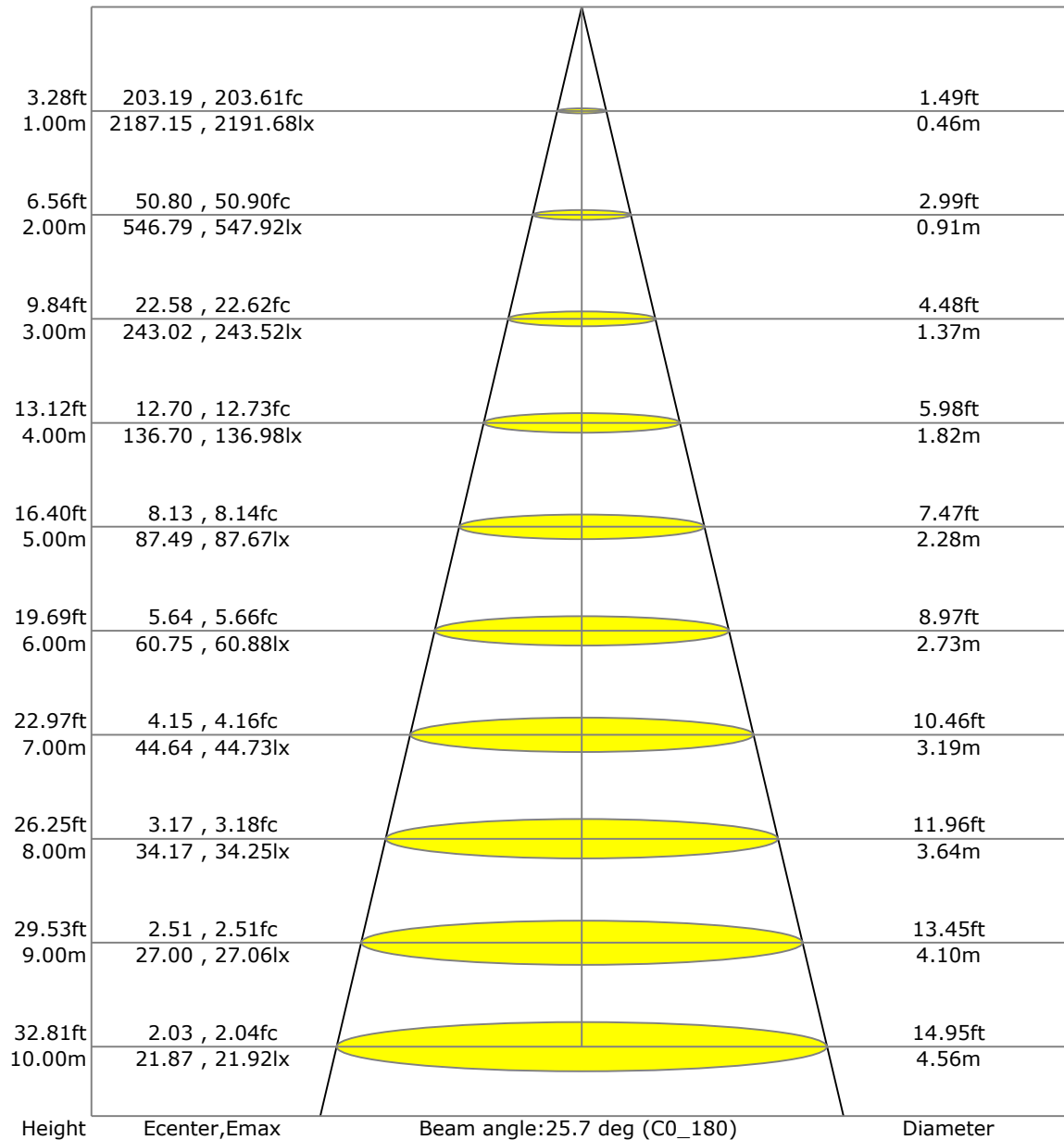
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	9.92	9.98	10.12	10.17	10.41	10.72	10.78	10.92	10.96	11.21
3H	9.93	10.00	10.14	10.19	10.44	10.70	10.76	10.91	10.96	11.20
4H	9.92	9.99	10.13	10.18	10.43	10.69	10.75	10.90	10.95	11.20
6H	9.91	9.97	10.12	10.17	10.42	10.67	10.74	10.89	10.94	11.19
8H	9.90	9.96	10.12	10.17	10.42	10.66	10.73	10.88	10.93	11.19
12H	9.89	9.96	10.11	10.16	10.42	10.66	10.72	10.88	10.93	11.18
4H 2H	10.10	10.16	10.31	10.36	10.61	11.32	11.39	11.54	11.59	11.83
3H	10.10	10.17	10.32	10.37	10.63	11.30	11.37	11.52	11.57	11.83
4H	10.08	10.15	10.31	10.36	10.62	11.28	11.35	11.51	11.56	11.82
6H	10.06	10.13	10.30	10.35	10.62	11.26	11.33	11.50	11.55	11.81
8H	10.05	10.12	10.30	10.34	10.61	11.25	11.31	11.49	11.54	11.81
12H	10.04	10.10	10.29	10.34	10.61	11.24	11.30	11.49	11.53	11.80
8H 4H	10.08	10.14	10.30	10.35	10.60	11.31	11.37	11.53	11.58	11.83
6H	10.02	10.09	10.28	10.33	10.60	11.23	11.29	11.48	11.53	11.80
8H	10.01	10.07	10.27	10.32	10.60	11.21	11.27	11.48	11.52	11.80
12H	9.99	10.05	10.27	10.31	10.59	11.19	11.26	11.47	11.51	11.79
12H 4H	10.04	10.10	10.29	10.34	10.61	11.24	11.30	11.49	11.54	11.81
6H	10.01	10.07	10.27	10.32	10.60	11.21	11.27	11.48	11.52	11.80

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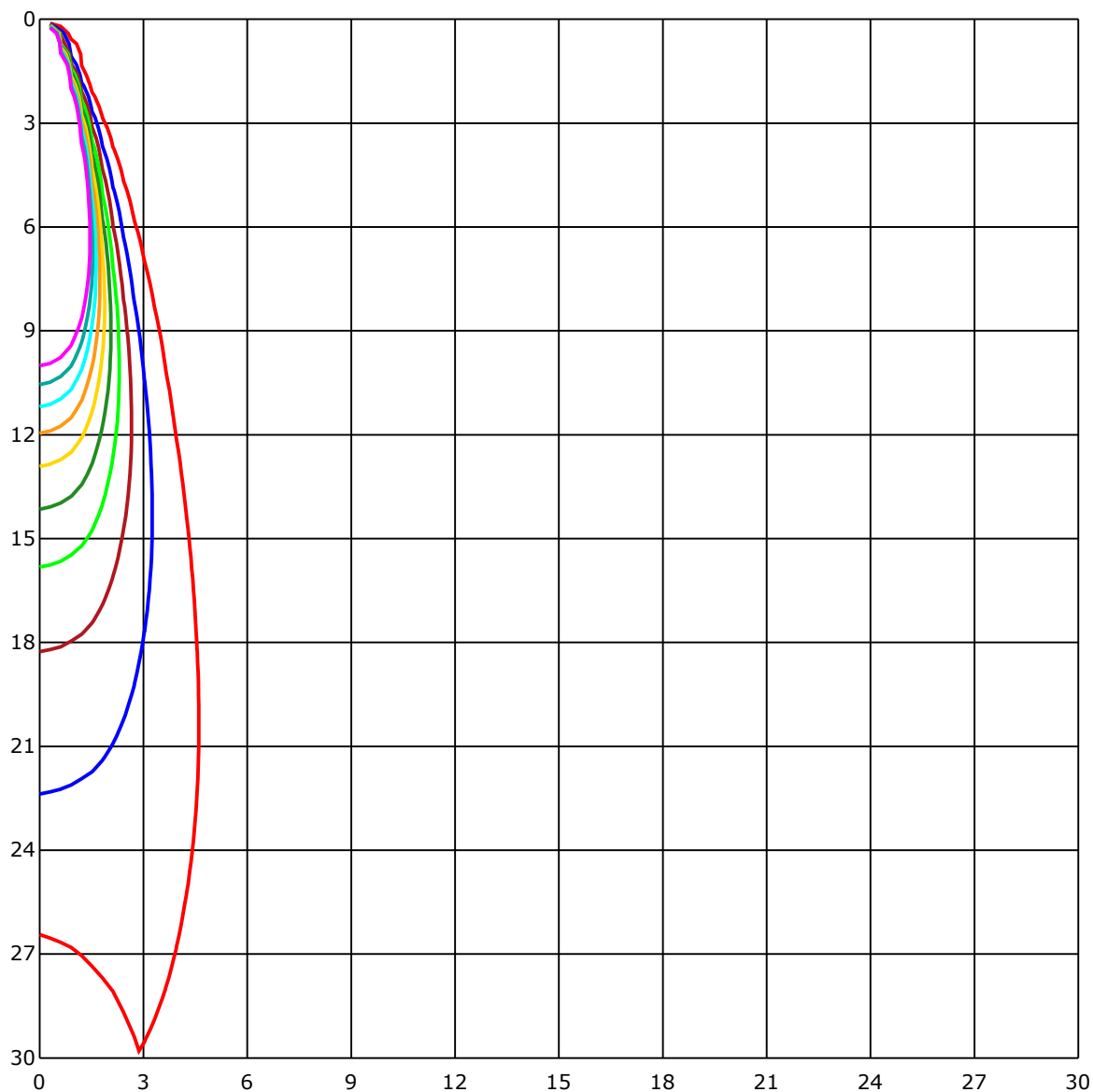
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Remarks:

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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

21.852

19.667

17.482

15.296

13.111

10.926

8.741

6.556

4.37

2.185

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Temperature: 25

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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	2187.15	2180.07	2191.68	2170.49	2187.15	2180.07	2191.68	2170.49	2187.15	
G1	2173.04	2159.78	2177.71	2151.09	2182.86	2188.38	2189.79	2188.62	2173.04	
G2	2155.15	2132.5	2160.11	2126.55	2174.36	2187.34	2171.67	2189.79	2155.15	
G3	2119.0	2090.59	2135.85	2098.23	2159.73	2174.46	2148.69	2184.51	2119.0	
G4	2079.26	2036.59	2102.76	2046.88	2137.22	2156.1	2122.63	2157.28	2079.26	
G5	2013.66	1958.67	2056.98	1974.2	2107.25	2129.48	2099.93	2136.18	2013.66	
G6	1922.42	1854.65	1978.16	1855.69	2066.61	2100.22	2055.28	2106.07	1922.42	
G7	1808.54	1720.85	1868.67	1725.57	1997.42	2051.18	1990.06	2062.55	1808.54	
G8	1677.8	1580.11	1727.83	1579.68	1903.97	1984.39	1891.65	1983.07	1677.8	
G9	1532.86	1430.11	1581.95	1438.75	1782.25	1886.22	1762.85	1876.83	1532.86	
G10	1385.42	1283.76	1437.05	1289.04	1648.02	1766.34	1621.54	1747.8	1385.42	
G11	1235.52	1131.88	1287.77	1133.76	1501.15	1622.91	1474.53	1608.33	1235.52	
G12	1084.44	979.38	1133.67	979.1	1355.31	1481.04	1324.77	1461.69	1084.44	
G13	934.55	830.95	978.06	828.97	1206.92	1332.37	1173.27	1317.69	934.55	
G14	796.16	696.67	829.96	692.61	1050.98	1180.91	1022.24	1163.83	796.16	
G15	667.08	580.43	698.99	574.76	899.71	1030.17	872.95	1011.15	667.08	
G16	555.74	479.95	581.94	470.79	761.0	883.05	738.11	866.02	555.74	
G17	458.57	391.55	480.23	382.39	638.72	745.66	617.57	731.32	458.57	
G18	375.88	319.29	393.01	310.93	530.12	625.45	508.83	613.84	375.88	
G19	308.62	263.69	322.92	255.81	434.12	517.23	418.16	509.16	308.62	
G20	258.31	219.14	267.8	211.25	354.02	426.61	346.99	419.86	258.31	
G21	216.02	182.65	223.57	175.43	292.34	351.52	290.36	350.25	216.02	
G22	179.3	151.6	186.29	144.71	243.68	292.34	242.54	294.51	179.3	
G23	148.91	125.83	154.85	119.13	202.76	243.96	203.04	248.02	148.91	
G24	123.47	104.73	129.32	98.22	169.34	204.46	168.68	208.23	123.47	
G25	102.7	87.83	108.51	82.03	141.02	170.95	140.65	174.77	102.7	
G26	86.75	74.05	92.03	68.91	117.95	143.38	117.57	146.64	86.75	
G27	73.34	62.77	78.87	58.85	99.73	120.64	98.45	123.56	73.34	
G28	62.25	53.62	68.11	50.31	85.66	102.89	82.92	104.82	62.25	
G29	52.86	45.26	59.09	42.57	74.0	88.26	70.18	89.49	52.86	
G30	44.22	38.7	51.4	36.67	64.75	75.99	59.42	76.65	44.22	
G31	37.14	32.71	44.7	31.91	56.26	65.75	50.69	65.79	37.14	
G32	32.05	27.94	38.98	27.66	48.61	57.34	43.04	57.01	32.05	
G33	27.47	23.93	34.41	24.02	42.67	49.98	37.0	49.89	27.47	
G34	23.55	20.63	30.63	20.81	37.66	43.52	31.81	42.85	23.55	
G35	19.96	17.46	27.09	18.27	33.56	38.28	27.23	37.19	19.96	
G36	16.9	14.96	23.55	15.48	29.83	33.65	23.46	32.61	16.9	

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C Interval: 45.0 Deg

Test Speed: High

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	14.3	12.55	20.81	13.26	26.34	29.4	19.92	28.6	14.3	
G38	12.41	11.0	18.5	11.47	23.22	25.72	16.57	24.83	12.41	
G39	10.9	9.86	16.85	10.48	20.63	22.51	14.11	21.85	10.9	
G40	10.1	9.34	15.29	9.72	18.5	19.92	12.22	19.3	10.1	
G41	9.63	8.87	14.73	9.39	16.85	18.12	11.28	17.65	9.63	
G42	9.44	8.92	14.25	9.16	15.95	16.99	10.62	16.47	9.44	
G43	9.2	8.54	13.83	9.06	15.24	16.0	10.34	15.91	9.2	
G44	9.01	8.54	13.5	8.73	14.73	15.48	9.91	15.15	9.01	
G45	8.87	8.21	13.07	8.59	14.25	14.96	9.96	14.87	8.87	
G46	8.54	8.12	12.55	8.35	13.92	14.58	9.68	14.49	8.54	
G47	8.31	7.93	12.41	8.26	13.64	14.25	9.49	14.11	8.31	
G48	8.21	7.79	12.08	8.02	13.36	13.83	9.3	13.69	8.21	
G49	8.02	7.55	11.7	7.83	12.98	13.45	9.06	13.22	8.02	
G50	7.83	7.36	11.33	7.55	12.65	13.31	8.87	12.93	7.83	
G51	7.74	7.13	11.04	7.41	12.37	12.84	8.59	12.6	7.74	
G52	7.41	6.84	10.62	7.13	11.99	12.65	8.35	12.22	7.41	
G53	7.03	6.65	10.24	6.8	11.56	12.18	8.31	11.75	7.03	
G54	6.75	6.23	9.86	6.65	11.23	11.85	7.79	11.42	6.75	
G55	6.37	5.85	9.53	6.18	10.76	11.37	7.55	11.0	6.37	
G56	5.99	5.47	8.97	5.81	10.29	10.86	7.17	10.48	5.99	
G57	5.66	5.05	8.5	5.29	9.68	10.34	6.75	10.1	5.66	
G58	5.24	4.67	7.98	4.86	9.3	9.82	6.18	9.53	5.24	
G59	4.63	4.29	7.5	4.44	8.73	9.25	5.76	9.16	4.63	
G60	4.11	3.96	6.99	3.87	8.12	8.68	5.19	8.5	4.11	
G61	3.82	3.35	6.56	3.4	7.46	7.98	4.81	7.83	3.82	
G62	3.3	2.88	6.04	2.88	6.99	7.41	4.15	7.32	3.3	
G63	2.74	2.45	5.47	2.5	6.37	6.84	3.54	6.75	2.74	
G64	2.41	2.12	4.77	1.98	5.81	6.23	3.11	6.18	2.41	
G65	1.79	1.56	4.44	1.51	5.14	5.66	2.5	5.62	1.79	
G66	1.37	1.23	3.87	0.99	4.63	5.0	1.98	5.0	1.37	
G67	0.99	0.8	3.4	0.8	4.15	4.34	1.51	4.44	0.99	
G68	0.61	0.42	2.88	0.47	3.54	3.82	0.99	4.01	0.61	
G69	0.19	0.05	2.55	0.05	3.11	3.35	0.57	3.49	0.19	
G70	0.0	0.0	2.03	0.0	2.74	2.83	0.24	2.88	0.0	
G71	0.0	0.0	1.7	0.0	2.22	2.5	0.05	2.36	0.0	
G72	0.0	0.0	1.32	0.0	1.94	2.08	0.0	2.03	0.0	
G73	0.0	0.0	1.04	0.0	1.6	1.65	0.0	1.7	0.0	

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