

Report No.:

Test Time: 2025/6/19 17:38:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042.(B)-24°-7W
Lamp Type:
Luminous Width: 38 mm
Luminous Length: 38 mm
Luminous Height: 34 mm

Voltage(V): 219.80 V
Current(A): 0.0360 A
Power(W): 7.35 W
Power Factor: 0.9100
Lamp Luminous Flux: 504.41

Photometric Results

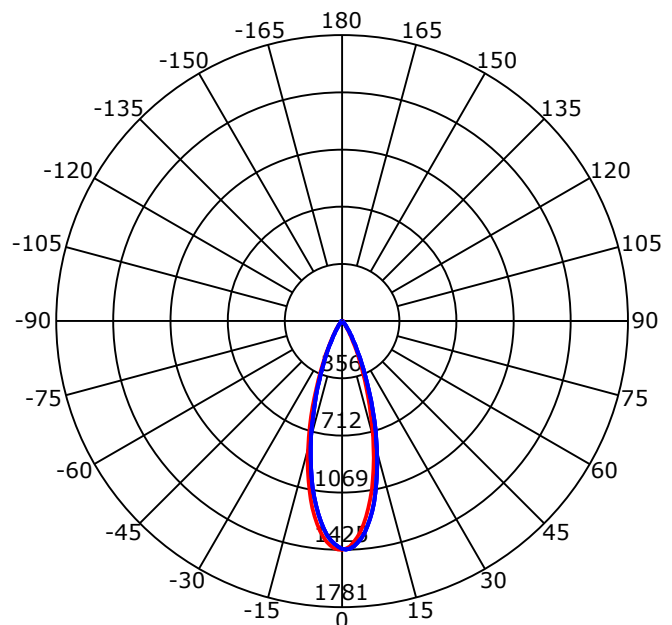
CIE Class: Direct
Luminaire Luminous Flux: 504.4066 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.59 lm/W
Beam Angle(50%) C0-180,C90-270: 32.2,32.5
Field Angle(10%) C0-180,C90-270: 57.4,58.5
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 1424.73 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1424.73 cd
Effective Luminous Flux: 445.22 lm
ERP(ϕ use)(120deg): 504.09 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 32.2 deg,32.5 deg

C0-180 — C90-270 —

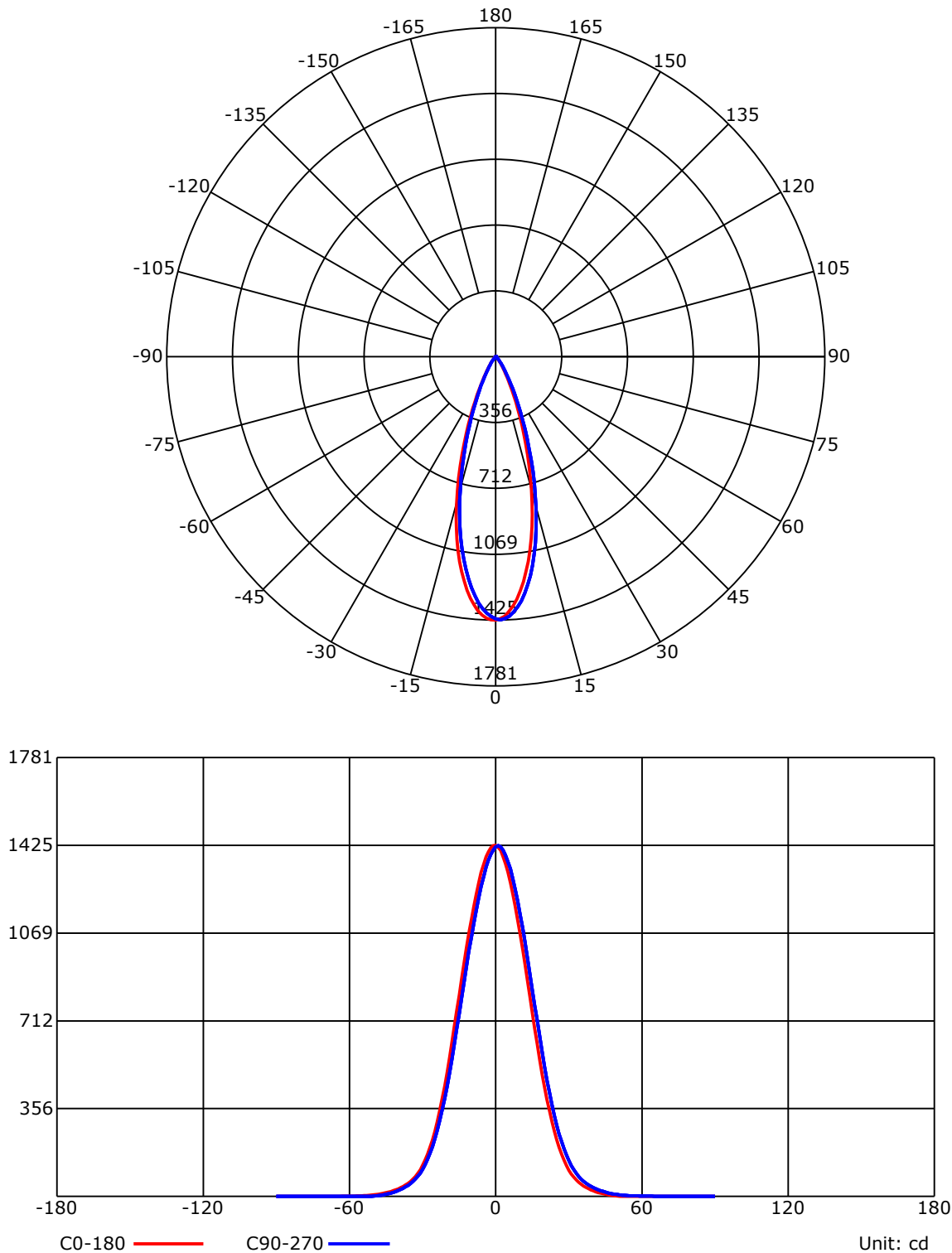
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:38:25

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

Report No.:

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Luminous Intensity Distribution Curve



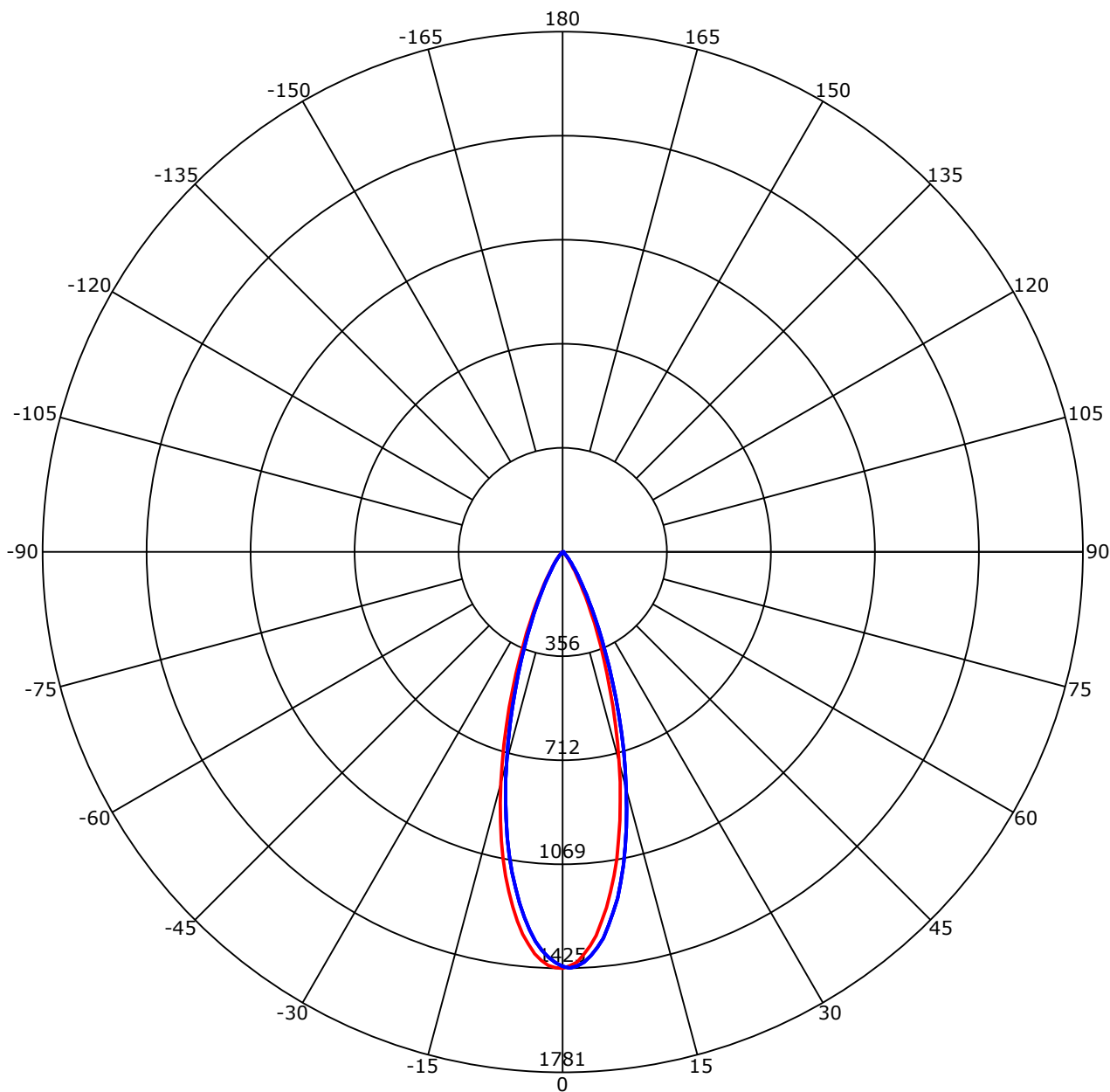
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Luminous Intensity Distribution Curve



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: 2025/6/19 17:38:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

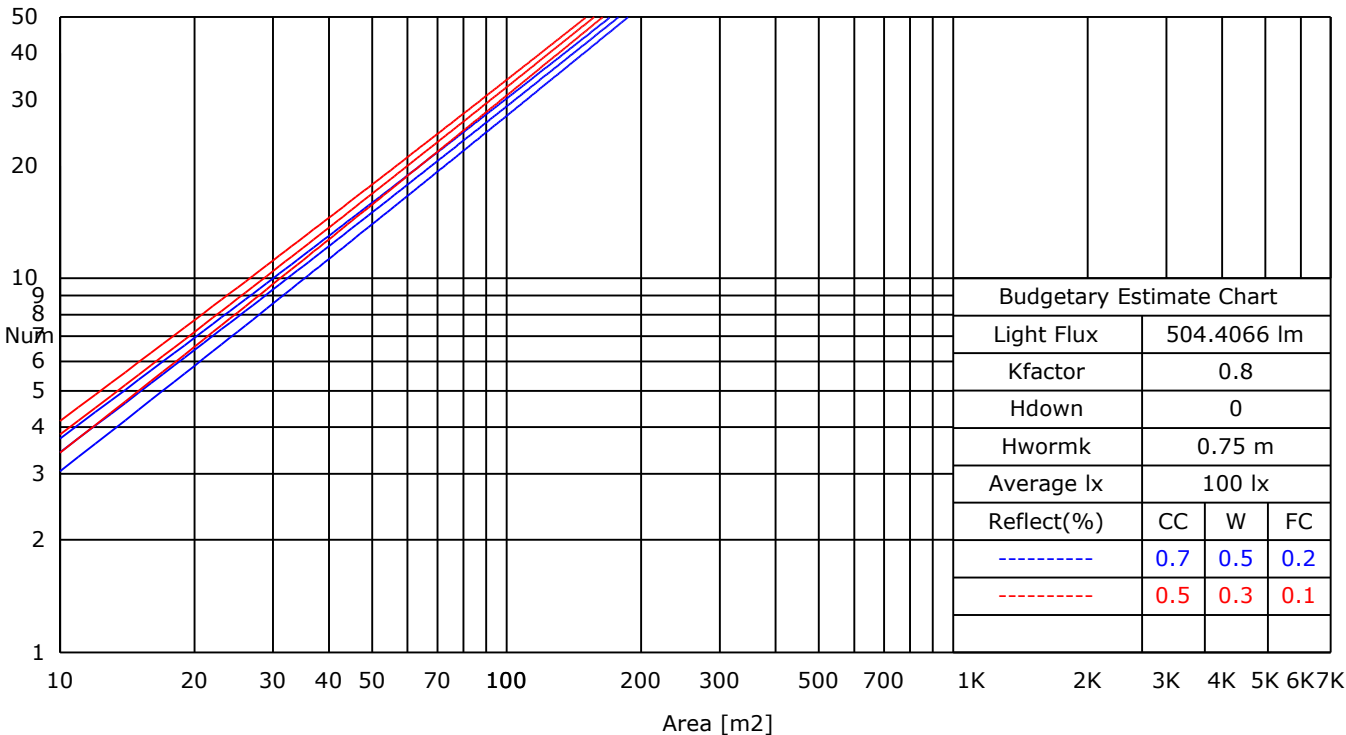
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



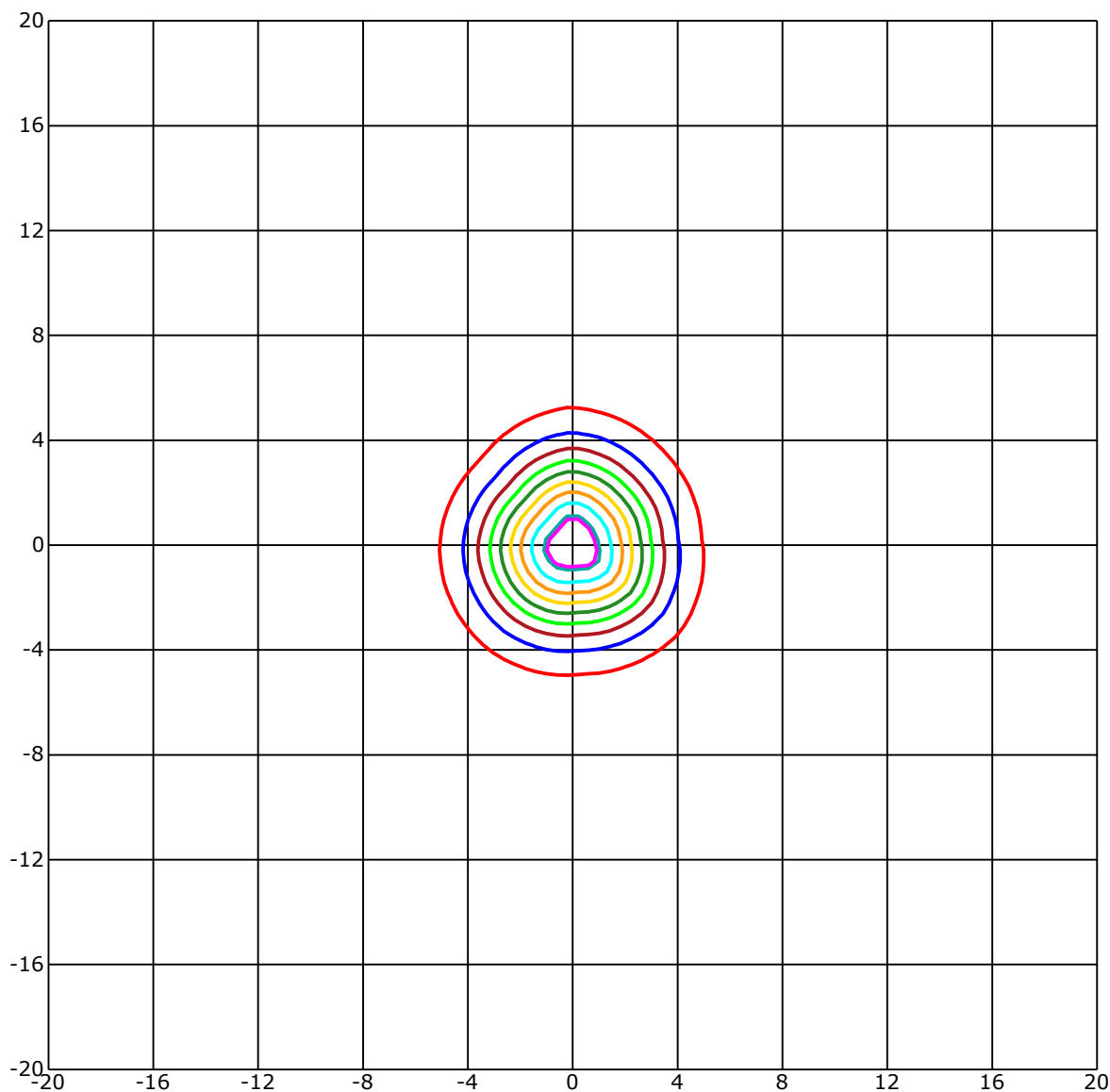
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

13.108(92%Emax)	7.124(50%Emax)
12.823(90%Emax)	5.699(40%Emax)
11.398(80%Emax)	4.274(30%Emax)
9.973(70%Emax)	2.849(20%Emax)
8.548(60%Emax)	1.425(10%Emax)

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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:38:25

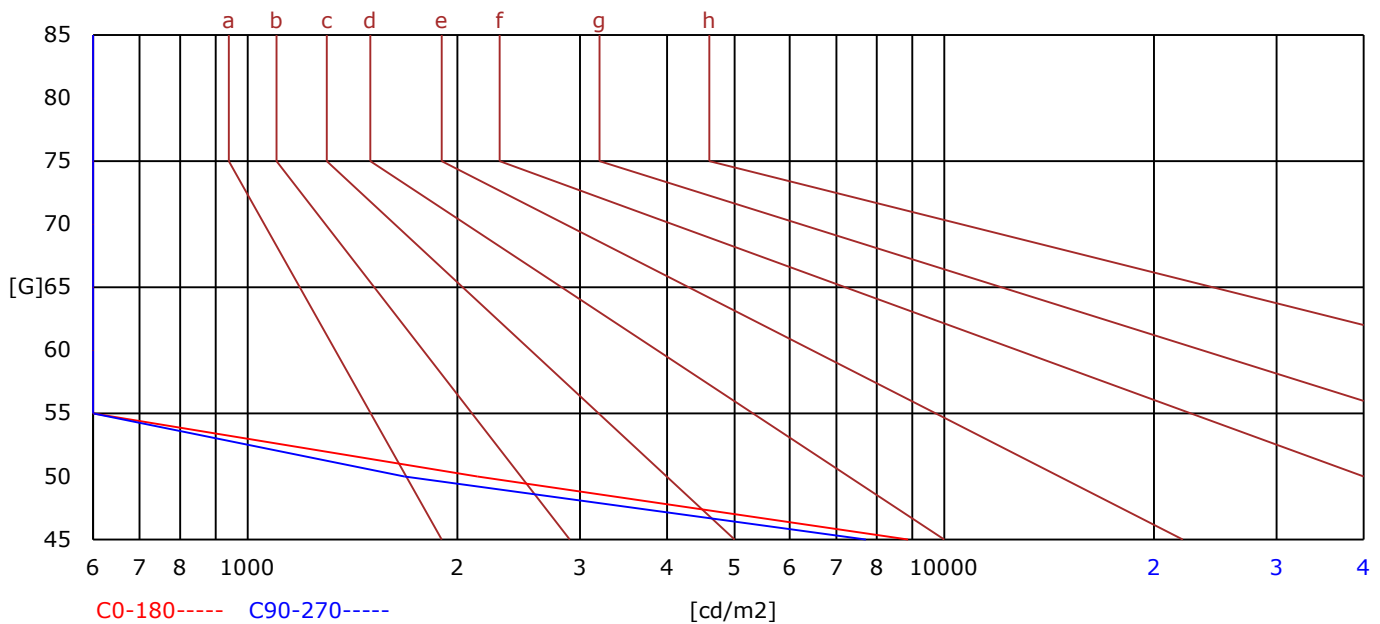
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8875	2136	0	0	0	0	0	0	0
C90	7719	1678	0	0	0	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



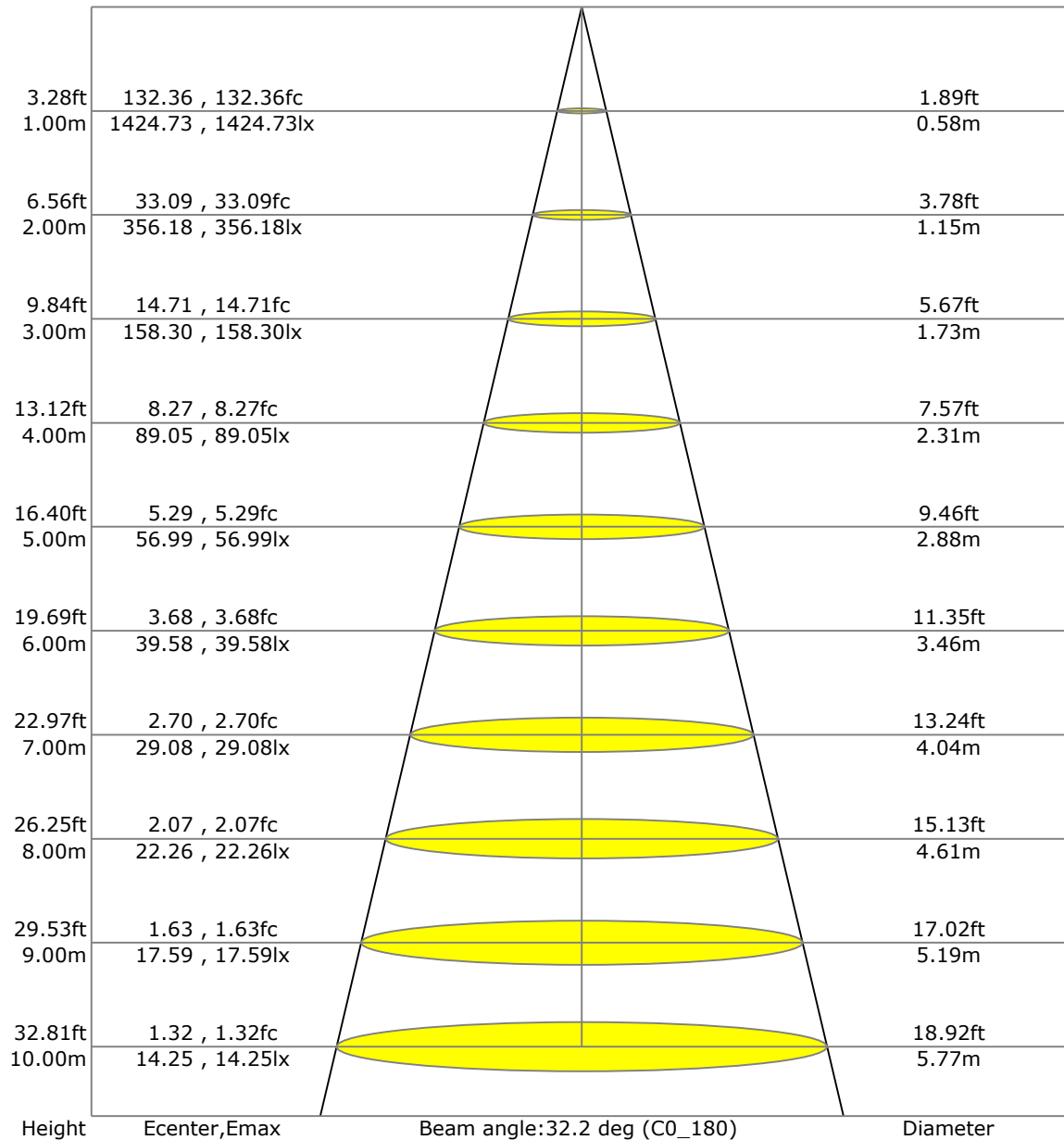
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/19 17:38:25

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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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	11.46	11.51	11.66	11.70	11.94	11.62	11.67	11.82	11.86	12.10
3H	11.43	11.49	11.64	11.68	11.93	11.60	11.65	11.80	11.84	12.09
4H	11.42	11.48	11.63	11.67	11.92	11.58	11.64	11.80	11.84	12.08
6H	11.41	11.46	11.62	11.66	11.91	11.57	11.63	11.79	11.83	12.08
8H	11.40	11.45	11.62	11.66	11.91	11.56	11.62	11.78	11.82	12.07
12H	11.39	11.45	11.61	11.65	11.91	11.55	11.61	11.78	11.81	12.07
4H 2H	11.42	11.47	11.63	11.67	11.92	11.59	11.64	11.80	11.84	12.09
3H	11.39	11.45	11.61	11.65	11.91	11.56	11.61	11.78	11.82	12.08
4H	11.37	11.43	11.60	11.64	11.90	11.54	11.60	11.77	11.81	12.07
6H	11.35	11.41	11.59	11.63	11.89	11.52	11.57	11.76	11.80	12.06
8H	11.34	11.39	11.58	11.62	11.89	11.51	11.56	11.75	11.79	12.05
12H	11.33	11.38	11.58	11.61	11.88	11.50	11.55	11.74	11.78	12.05
8H 4H	11.40	11.45	11.62	11.66	11.91	11.57	11.62	11.79	11.83	12.08
6H	11.31	11.36	11.57	11.60	11.88	11.48	11.53	11.74	11.77	12.05
8H	11.30	11.35	11.56	11.59	11.87	11.47	11.52	11.73	11.76	12.04
12H	11.28	11.33	11.55	11.59	11.87	11.45	11.50	11.72	11.75	12.04
12H 4H	11.33	11.38	11.58	11.61	11.88	11.50	11.55	11.74	11.78	12.05
6H	11.30	11.35	11.56	11.59	11.87	11.47	11.52	11.73	11.76	12.04

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Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

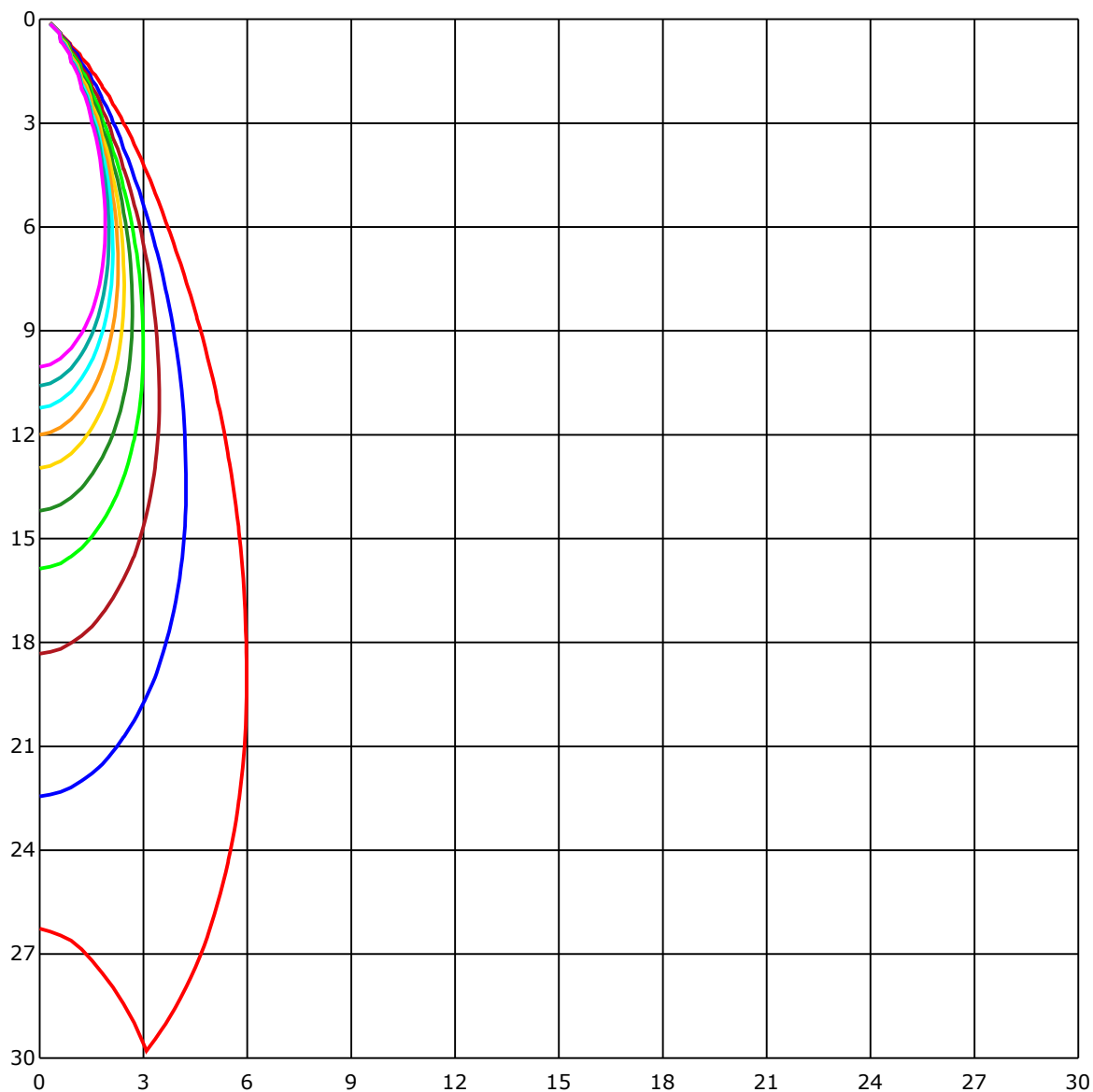
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SPACE ISOLX DIAGRAM



14.141	7.071
12.727	5.656
11.313	4.242
9.899	2.828
8.485	1.414

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1424.73	1418.31	1417.98	1420.44	1424.73	1418.31	1417.98	1420.44	1424.73	
G1	1416.47	1413.78	1423.65	1408.83	1423.32	1415.91	1405.95	1421.81	1416.47	
G2	1404.82	1402.13	1418.13	1389.52	1415.58	1407.36	1388.58	1417.51	1404.82	
G3	1378.91	1378.15	1405.71	1367.15	1399.39	1390.66	1365.5	1408.03	1378.91	
G4	1350.87	1353.14	1384.57	1334.16	1378.34	1371.07	1336.47	1387.59	1350.87	
G5	1317.41	1317.79	1359.22	1295.56	1347.85	1339.21	1298.15	1362.01	1317.41	
G6	1272.15	1277.67	1328.83	1252.65	1314.86	1304.33	1256.76	1330.34	1272.15	
G7	1225.66	1232.59	1287.72	1203.14	1272.19	1265.21	1211.03	1294.66	1225.66	
G8	1175.91	1182.71	1244.54	1150.85	1227.21	1219.05	1161.47	1251.8	1175.91	
G9	1121.54	1128.9	1199.51	1094.92	1177.85	1170.72	1109.69	1207.01	1121.54	
G10	1066.51	1073.35	1146.37	1036.82	1125.98	1117.72	1053.39	1154.53	1066.51	
G11	1002.65	1012.7	1089.49	975.51	1068.92	1058.34	996.14	1100.63	1002.65	
G12	940.21	950.69	1030.97	911.84	1010.11	999.25	932.37	1041.97	940.21	
G13	875.74	886.74	967.73	848.84	947.71	938.7	869.18	983.11	875.74	
G14	811.69	821.08	903.77	782.19	885.51	876.49	807.16	921.43	811.69	
G15	746.09	756.33	838.59	719.94	817.92	812.26	742.64	859.08	746.09	
G16	682.28	693.51	775.02	654.24	752.84	750.62	678.31	793.43	682.28	
G17	617.71	630.17	713.76	591.71	689.07	683.55	616.11	728.72	617.71	
G18	555.18	568.58	651.18	529.6	625.12	621.49	555.18	665.1	555.18	
G19	496.75	510.39	588.97	472.39	561.78	559.47	498.73	601.81	496.75	
G20	444.45	456.21	528.98	418.68	502.22	501.33	445.4	543.09	444.45	
G21	394.75	406.03	474.23	369.32	446.86	447.99	396.27	486.51	394.75	
G22	348.36	360.49	422.22	324.01	395.27	397.54	349.45	433.08	348.36	
G23	304.94	318.01	373.94	283.32	347.75	350.81	307.16	384.61	304.94	
G24	266.0	279.12	329.58	246.42	303.85	309.14	267.94	338.5	266.0	
G25	230.37	243.44	290.4	213.24	264.4	269.45	233.91	297.2	230.37	
G26	199.5	211.35	253.82	183.69	229.9	234.47	202.05	260.24	199.5	
G27	170.85	182.42	221.64	158.06	198.18	202.81	173.92	226.59	170.85	
G28	146.4	157.64	193.13	135.64	170.95	174.82	149.66	196.48	146.4	
G29	125.17	134.94	168.02	116.43	147.3	150.18	128.61	170.19	125.17	
G30	106.24	115.35	145.37	98.92	126.91	128.71	109.83	146.5	106.24	
G31	90.29	98.36	125.5	84.39	108.27	110.16	94.06	126.3	90.29	
G32	77.73	84.2	108.03	72.12	92.98	94.68	81.04	109.17	77.73	
G33	66.64	71.74	93.59	62.21	80.28	82.17	70.23	94.77	66.64	
G34	57.82	61.88	81.18	53.62	69.9	71.31	60.55	82.31	57.82	
G35	49.32	53.1	70.65	46.16	60.65	62.11	52.39	71.98	49.32	
G36	42.29	45.55	61.83	39.79	53.33	54.18	44.65	62.87	42.29	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	36.39	38.7	53.9	34.45	46.11	47.1	38.56	55.08	36.39	
G38	31.2	33.32	46.82	29.31	40.45	41.2	32.94	47.86	31.2	
G39	26.57	28.27	41.01	25.2	35.3	36.06	28.08	41.82	26.57	
G40	22.51	24.02	35.68	21.43	30.96	31.29	23.69	36.44	22.51	
G41	18.93	20.2	31.39	18.03	27.23	26.86	19.87	31.62	18.93	
G42	15.86	16.85	27.19	14.91	23.5	23.22	16.38	27.37	15.86	
G43	12.88	13.78	23.27	12.22	20.01	19.92	13.45	23.55	12.88	
G44	10.52	11.47	20.25	9.82	17.42	17.04	10.67	20.06	10.52	
G45	8.5	9.06	17.23	7.88	14.87	14.49	8.68	17.09	8.5	
G46	6.61	7.27	14.58	6.18	12.74	12.32	6.7	14.49	6.61	
G47	5.1	5.66	12.51	4.91	10.71	10.34	5.0	12.46	5.1	
G48	3.68	4.39	10.48	3.49	9.3	8.92	3.59	10.43	3.68	
G49	2.55	3.02	8.87	2.5	7.88	7.5	2.6	8.87	2.55	
G50	1.6	1.98	7.41	1.56	6.65	6.32	1.46	7.41	1.6	
G51	0.71	1.04	6.18	0.76	5.62	5.24	0.66	6.28	0.71	
G52	0.09	0.38	5.05	0.09	4.72	4.34	0.0	5.05	0.09	
G53	0.0	0.0	4.2	0.0	3.87	3.78	0.0	4.25	0.0	
G54	0.0	0.0	3.35	0.0	3.3	3.26	0.0	3.45	0.0	
G55	0.0	0.0	2.97	0.0	2.78	2.88	0.0	3.11	0.0	
G56	0.0	0.0	2.69	0.0	2.45	2.64	0.0	2.88	0.0	
G57	0.0	0.0	2.41	0.0	2.17	2.31	0.0	2.5	0.0	
G58	0.0	0.0	2.03	0.0	1.89	2.12	0.0	2.22	0.0	
G59	0.0	0.0	1.84	0.0	1.65	1.79	0.0	2.12	0.0	
G60	0.0	0.0	1.65	0.0	1.42	1.7	0.0	1.7	0.0	
G61	0.0	0.0	1.6	0.0	1.18	1.42	0.0	1.56	0.0	
G62	0.0	0.0	1.37	0.0	1.27	1.04	0.0	1.27	0.0	
G63	0.0	0.0	1.04	0.0	0.85	0.8	0.0	1.13	0.0	
G64	0.0	0.0	0.9	0.0	0.71	0.61	0.0	0.9	0.0	
G65	0.0	0.0	0.66	0.0	0.52	0.47	0.0	0.71	0.0	
G66	0.0	0.0	0.47	0.0	0.24	0.38	0.0	0.42	0.0	
G67	0.0	0.0	0.24	0.0	0.14	0.19	0.0	0.42	0.0	
G68	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.14	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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: 6.87 m

Remarks:

Remarks: