

Report No.:

Test Time: 2025/1/7 16:41:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H113-15°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.39 W
Power Factor: 0.9520
Lamp Luminous Flux: 1131.87

Photometric Results

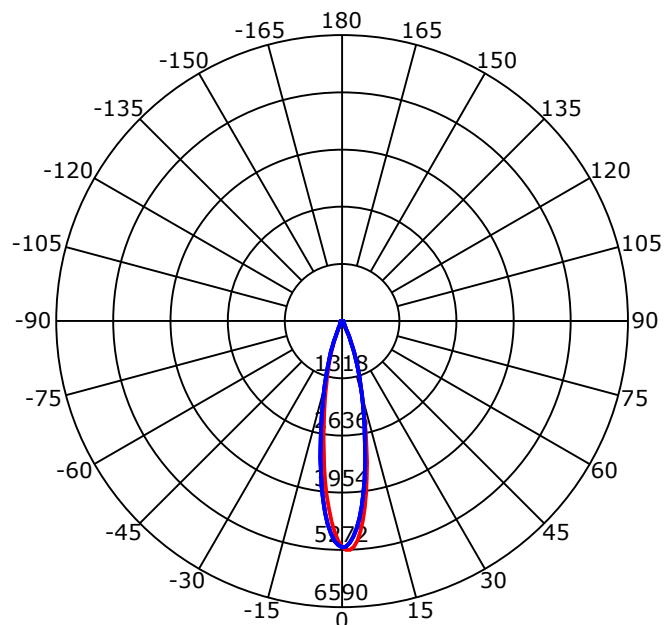
CIE Class: Direct
Luminaire Luminous Flux: 1131.869 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 73.56 lm/W
Beam Angle(50%) C0-180,C90-270: 21.2,22.4
Field Angle(10%) C0-180,C90-270: 44.3,45.0
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 5271.84 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5197.46 cd
Effective Luminous Flux: 894.49 lm
ERP(ϕ use)(120deg): 1108.41 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.2 deg,22.4 deg

C0-180 — C90-270 —

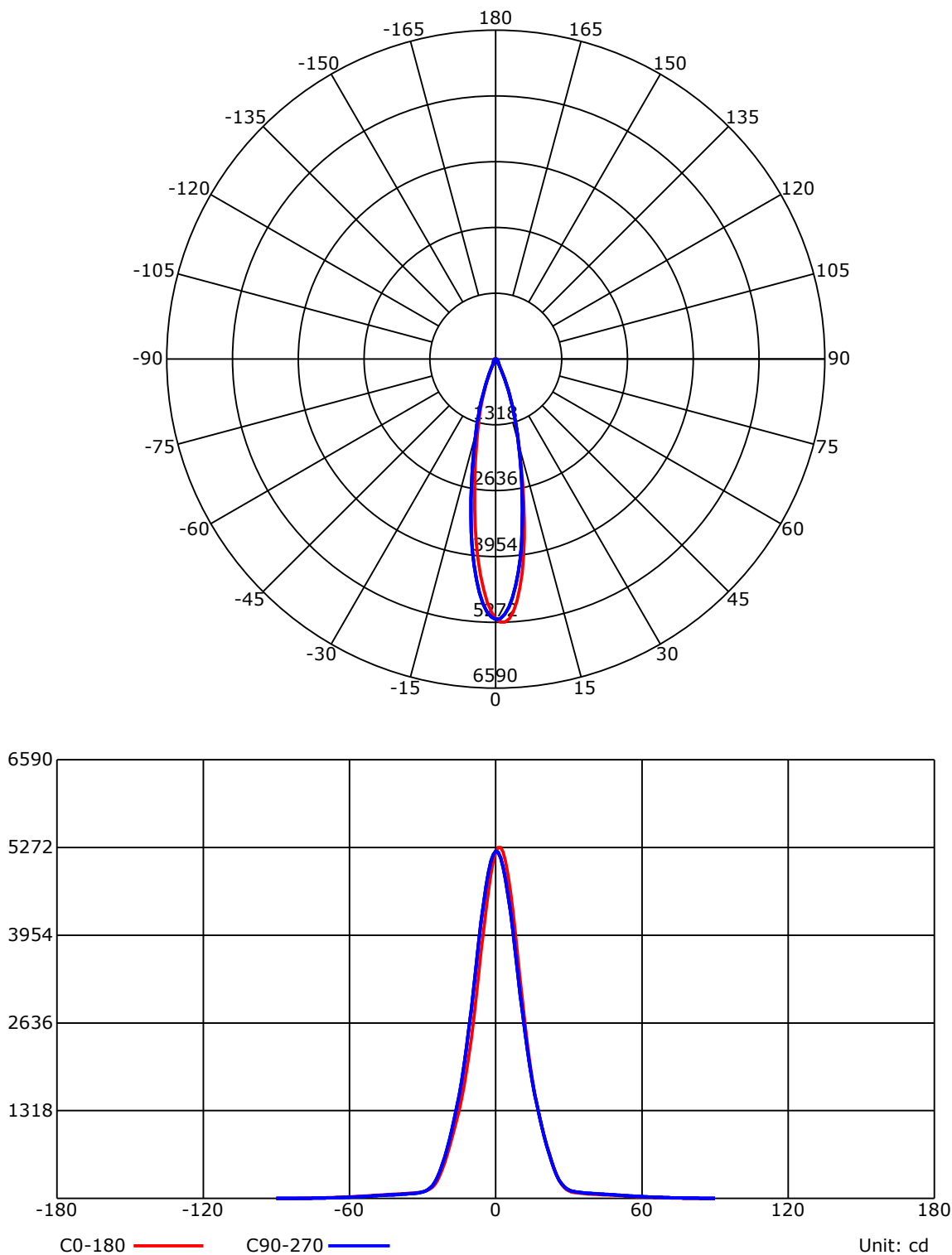
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:41:42

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

Report No.:

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Luminous Intensity Distribution Curve



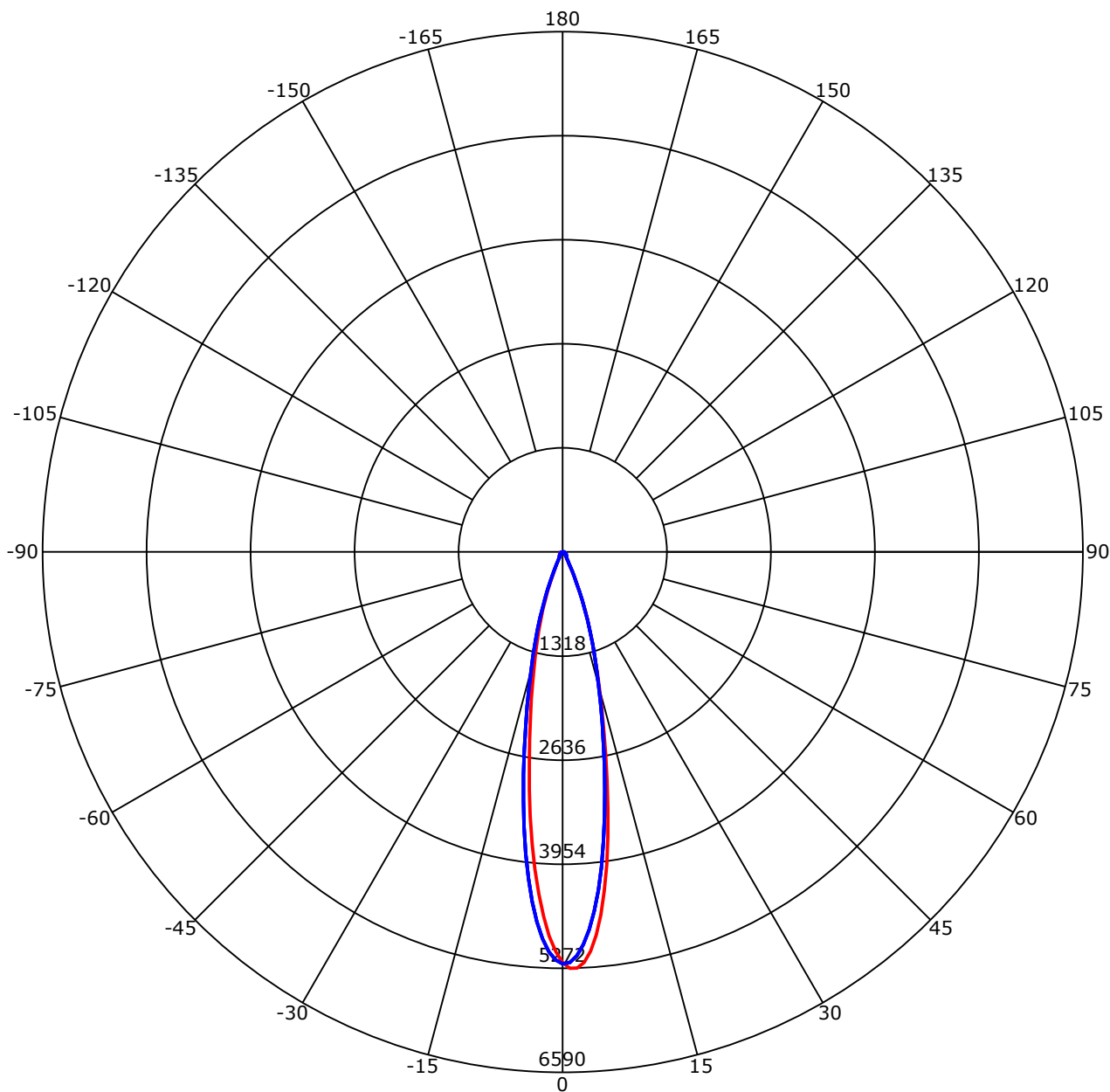
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Luminous Intensity Distribution Curve



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: 2025/1/7 16:41:42

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

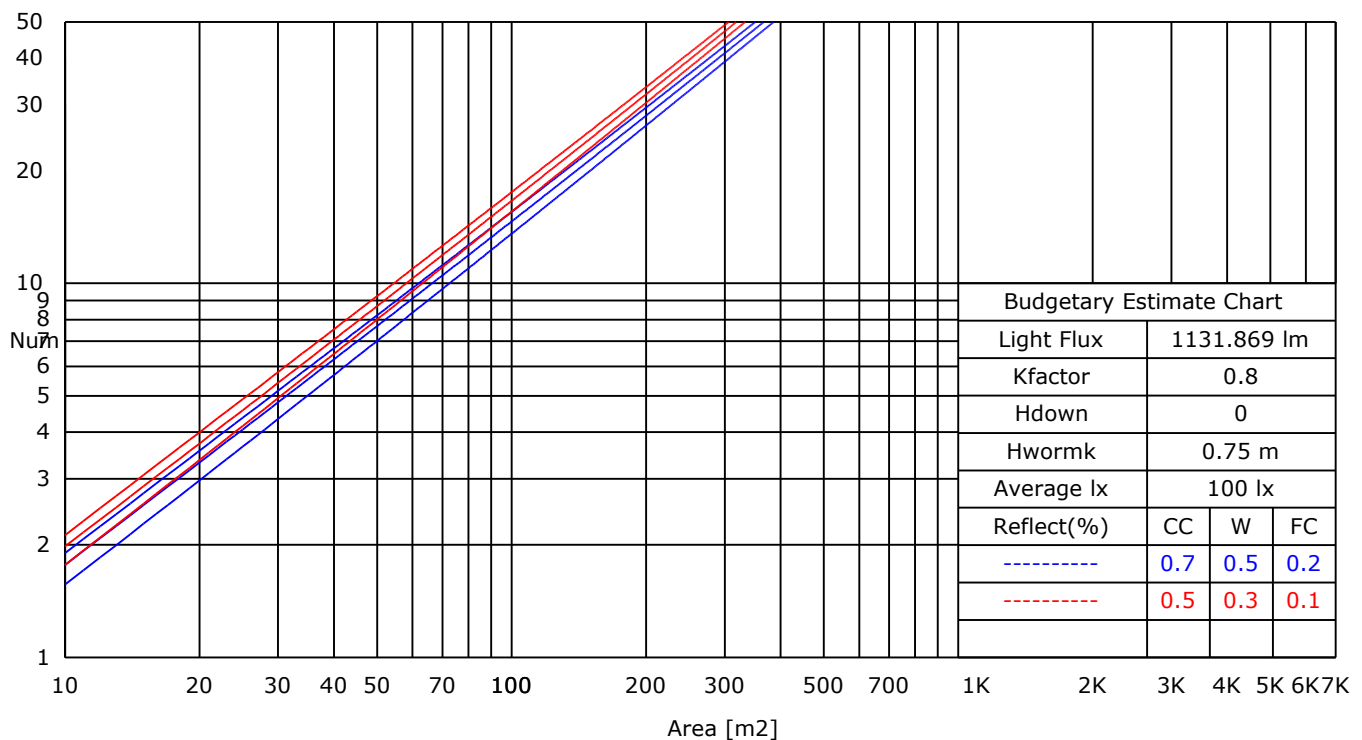
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UTILIZATION FACTORS TABLE

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	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.79	0.75	0.80	0.75	0.71	0.75	0.70	0.66	0.61
2	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.75	0.72	0.77	0.72	0.68	0.73	0.68	0.64	0.59
3	0.78	0.76	0.74	0.78	0.75	0.72	0.77	0.73	0.69	0.74	0.70	0.66	0.71	0.66	0.62	0.57
4	0.76	0.73	0.72	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.64	0.69	0.64	0.60	0.56
5	0.73	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	0.58	0.55
6	0.71	0.69	0.68	0.71	0.68	0.67	0.70	0.66	0.64	0.68	0.64	0.60	0.66	0.61	0.57	0.53
7	0.70	0.68	0.67	0.69	0.67	0.65	0.68	0.65	0.62	0.67	0.62	0.59	0.65	0.60	0.56	0.52
8	0.68	0.67	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.51
9	0.67	0.65	0.64	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51
10	0.66	0.64	0.63	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



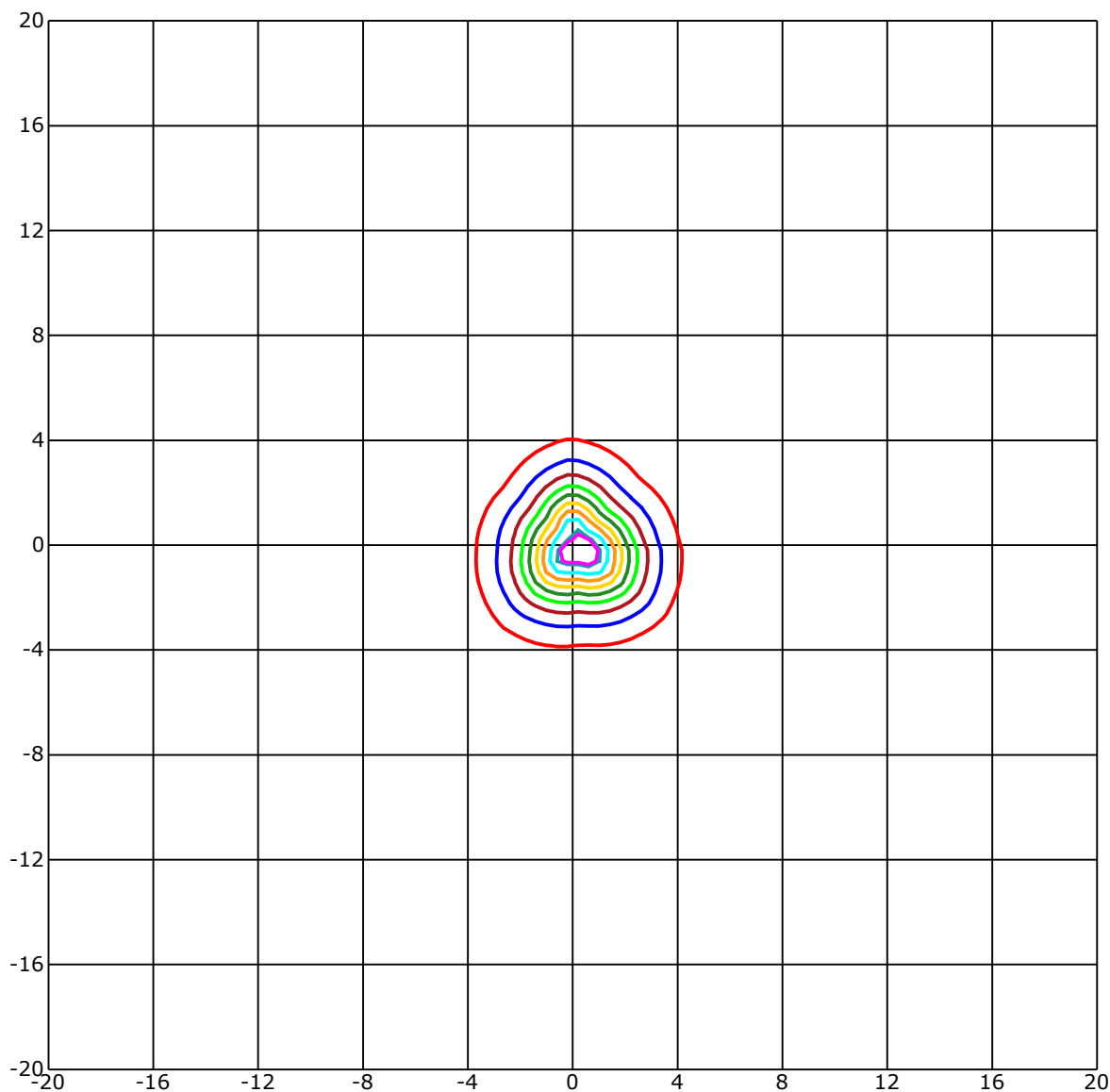
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

48.469(92%Emax)	26.342(50%Emax)
47.415(90%Emax)	21.073(40%Emax)
42.147(80%Emax)	15.805(30%Emax)
36.878(70%Emax)	10.537(20%Emax)
31.61(60%Emax)	5.268(10%Emax)

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Test Date: 2025/1/7 16:41:42

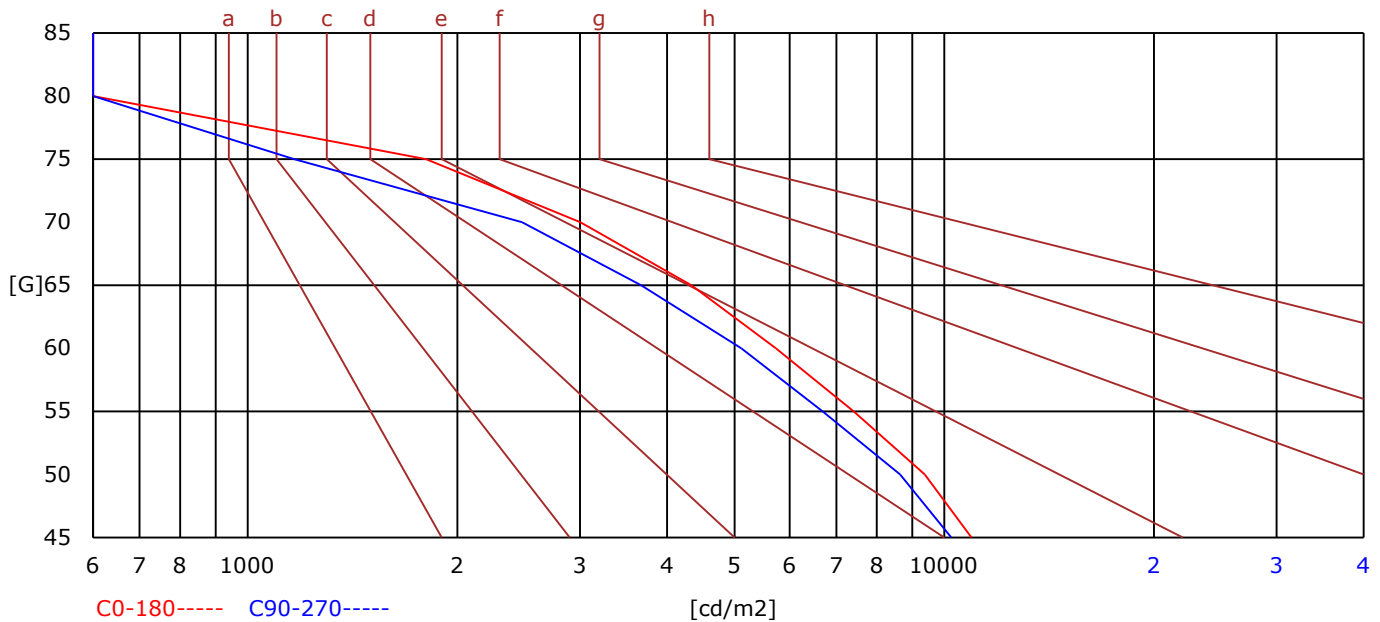
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10940	9375	7413	5732	4334	3003	1804	455	0
C90	10239	8638	6687	5114	3671	2478	1166	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



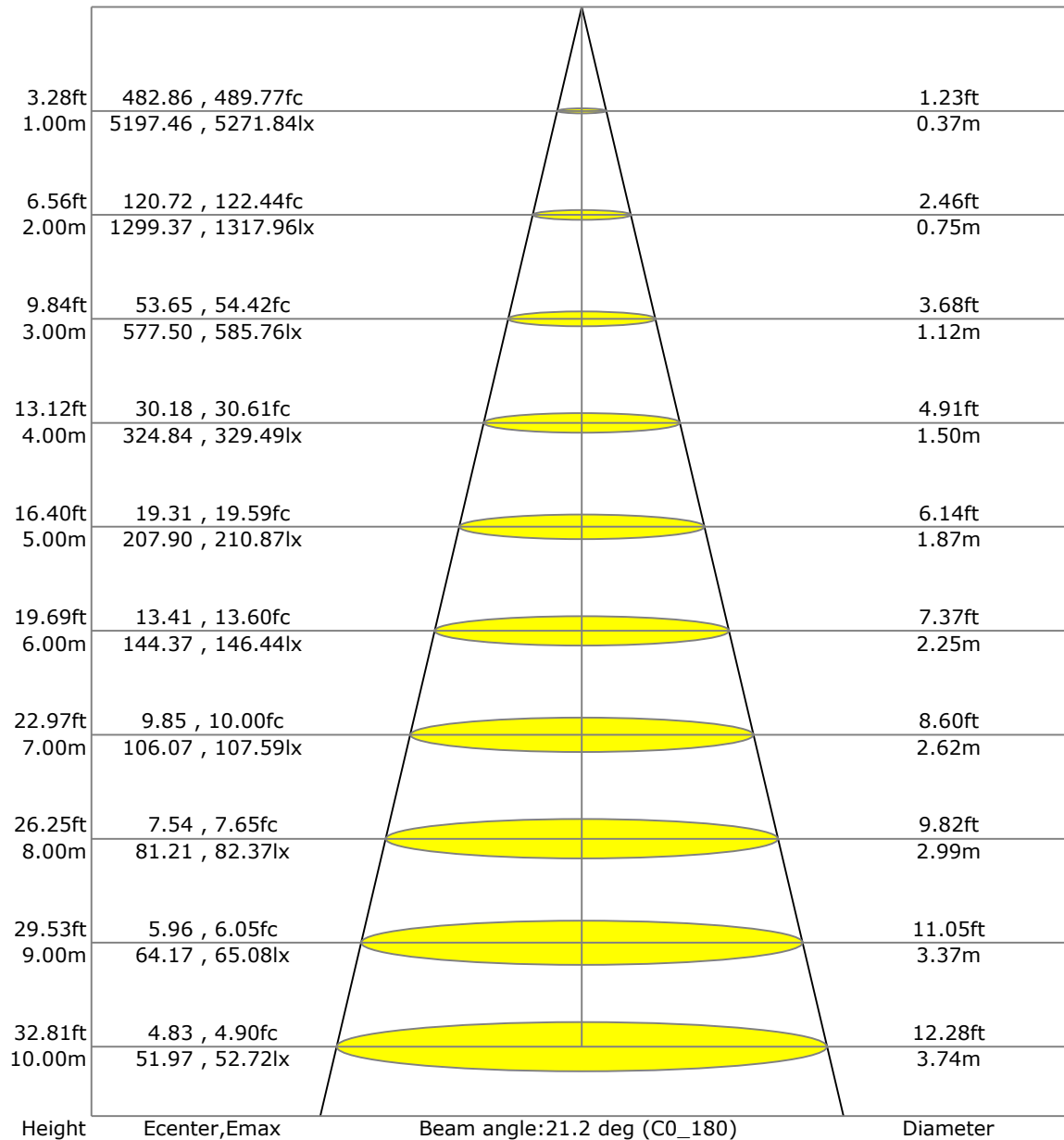
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Remarks:

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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: 2025/1/7 16:41:42

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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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	9.28	9.34	9.48	9.53	9.77	9.62	9.68	9.82	9.87	10.12
3H	9.33	9.39	9.53	9.58	9.83	9.65	9.71	9.85	9.90	10.15
4H	9.32	9.39	9.54	9.59	9.83	9.64	9.70	9.85	9.90	10.15
6H	9.31	9.38	9.53	9.58	9.83	9.62	9.69	9.84	9.89	10.14
8H	9.30	9.37	9.52	9.57	9.82	9.61	9.68	9.83	9.88	10.14
12H	9.29	9.36	9.52	9.56	9.82	9.61	9.67	9.83	9.88	10.13
4H 2H	10.02	10.09	10.23	10.28	10.53	10.69	10.75	10.90	10.95	11.20
3H	10.09	10.16	10.32	10.37	10.62	10.74	10.81	10.96	11.01	11.27
4H	10.09	10.16	10.32	10.37	10.63	10.73	10.80	10.96	11.01	11.27
6H	10.08	10.14	10.32	10.36	10.63	10.71	10.77	10.95	11.00	11.26
8H	10.07	10.13	10.31	10.36	10.63	10.70	10.76	10.94	10.99	11.26
12H	10.05	10.12	10.30	10.35	10.62	10.68	10.75	10.93	10.98	11.25
8H 4H	10.04	10.11	10.26	10.31	10.56	10.89	10.96	11.11	11.16	11.41
6H	10.09	10.15	10.35	10.39	10.66	10.94	11.00	11.20	11.24	11.52
8H	10.08	10.14	10.34	10.38	10.66	10.92	10.98	11.19	11.23	11.51
12H	10.06	10.12	10.33	10.37	10.66	10.91	10.97	11.18	11.22	11.50
12H 4H	10.10	10.16	10.35	10.39	10.66	11.04	11.11	11.29	11.34	11.61
6H	10.07	10.13	10.34	10.38	10.66	11.03	11.09	11.29	11.33	11.61

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G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.78 m

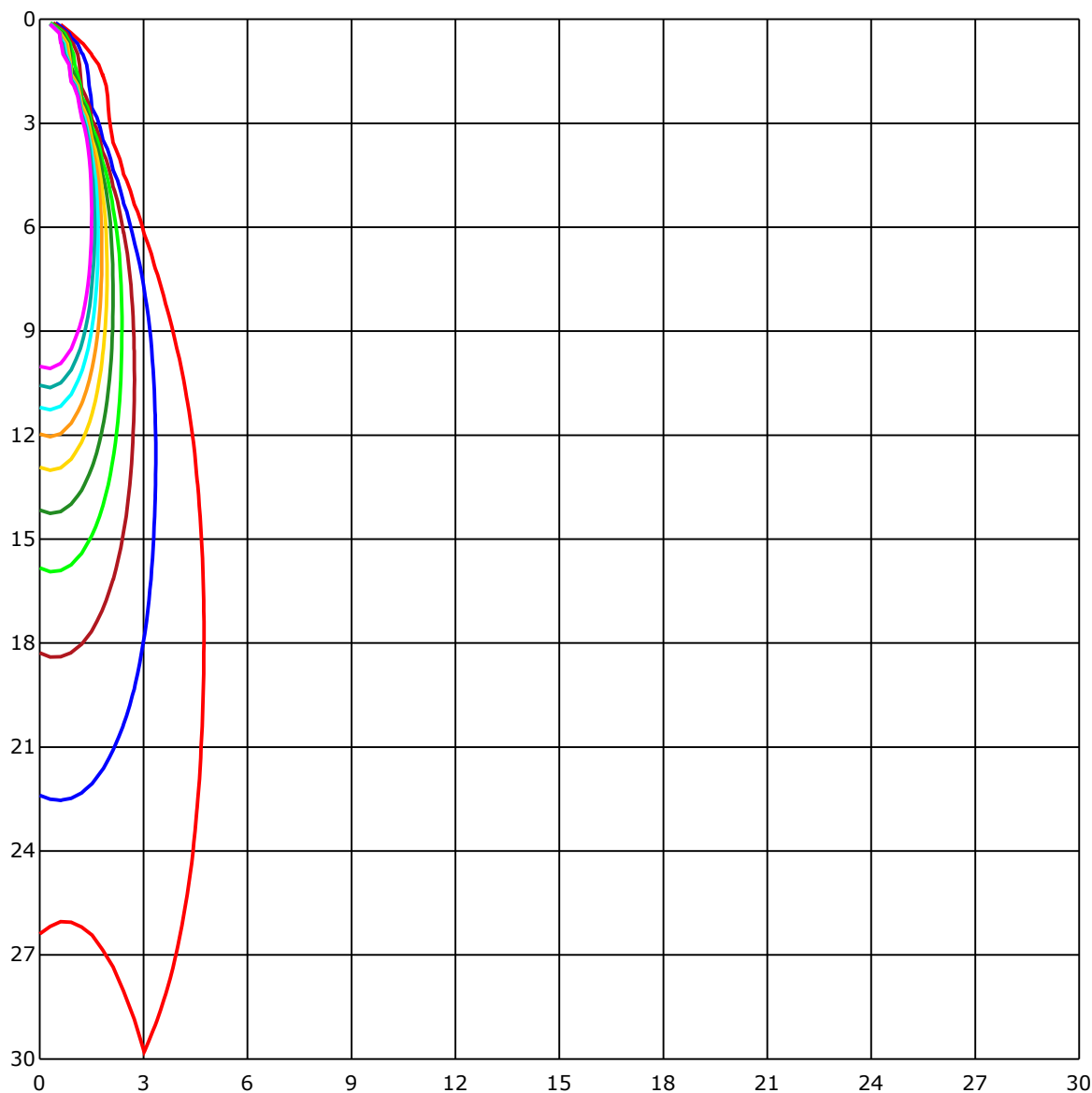
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

51.843	25.921
46.659	20.737
41.474	15.553
36.29	10.369
31.106	5.184

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Humidity: 60
Test Distance: 6.78 m
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5197.46	5149.1	5215.16	4997.18	5197.46	5149.1	5215.16	4997.18	5197.46	
G1	5270.74	5026.92	5197.97	4795.84	5064.34	5197.51	5165.29	5146.9	5270.74	
G2	5271.84	4845.76	5115.64	4548.8	4868.47	5185.97	5065.99	5237.0	5271.84	
G3	5204.13	4611.92	4976.86	4272.17	4620.47	5101.76	4903.13	5271.29	5204.13	
G4	5068.25	4332.48	4795.79	3969.05	4339.33	4958.8	4693.93	5236.17	5068.25	
G5	4871.82	4021.68	4565.72	3650.67	4038.19	4754.83	4441.42	5141.01	4871.82	
G6	4615.87	3693.7	4306.41	3326.46	3713.37	4509.91	4159.18	4988.81	4615.87	
G7	4324.52	3338.32	4019.39	3000.82	3371.51	4220.18	3849.58	4787.47	4324.52	
G8	3999.99	2990.7	3704.5	2693.15	3037.96	3908.69	3511.8	4542.37	3999.99	
G9	3647.46	2663.69	3393.02	2407.09	2714.34	3586.41	3185.61	4256.12	3647.46	
G10	3299.57	2360.43	3070.74	2146.27	2417.29	3249.87	2856.8	3949.38	3299.57	
G11	2944.32	2084.02	2768.49	1907.97	2145.81	2925.52	2553.41	3622.31	2944.32	
G12	2615.01	1834.88	2486.43	1684.6	1907.97	2609.17	2263.9	3289.91	2615.01	
G13	2307.75	1618.27	2226.11	1492.82	1691.13	2321.73	2004.36	2960.14	2307.75	
G14	2038.1	1428.1	1982.48	1319.02	1504.68	2055.94	1766.98	2660.1	2038.1	
G15	1795.62	1259.67	1760.31	1155.78	1330.37	1823.8	1559.02	2373.95	1795.62	
G16	1581.91	1105.95	1563.48	1006.52	1176.1	1616.62	1367.97	2116.85	1581.91	
G17	1390.13	966.12	1382.36	865.45	1035.48	1433.57	1194.9	1874.64	1390.13	
G18	1216.69	835.71	1215.91	735.77	902.59	1265.88	1032.31	1662.86	1216.69	
G19	1061.59	713.94	1061.96	612.99	772.73	1111.79	882.09	1459.87	1061.59	
G20	924.52	597.73	914.4	502.16	650.22	968.05	744.41	1277.14	924.52	
G21	792.63	489.15	780.5	405.44	534.15	832.67	618.41	1108.11	792.63	
G22	670.27	389.35	656.06	321.41	429.12	702.9	503.17	953.84	670.27	
G23	550.61	304.72	538.84	251.81	338.79	579.8	401.21	806.7	550.61	
G24	441.34	234.21	435.23	197.57	265.15	467.59	314.84	669.99	441.34	
G25	346.46	182.31	347.52	157.58	209.94	368.62	246.25	545.87	346.46	
G26	268.59	145.63	275.44	128.9	169.49	289.51	194.08	438.86	268.59	
G27	209.43	120.44	220.1	109.08	140.8	228.23	156.52	350.74	209.43	
G28	165.99	103.34	178.5	95.84	121.82	182.82	129.13	279.07	165.99	
G29	134.27	92.63	149.35	87.11	108.99	151.1	109.59	224.28	134.27	
G30	112.44	85.91	128.16	81.09	100.72	129.26	96.35	182.13	112.44	
G31	98.33	81.27	113.77	76.49	94.42	114.55	88.31	151.83	98.33	
G32	89.59	77.41	104.16	73.04	89.68	104.58	81.87	130.55	89.59	
G33	83.71	74.33	97.59	70.29	85.73	97.87	77.5	115.98	83.71	
G34	79.07	71.48	92.3	67.67	82.42	92.53	73.87	105.96	79.07	
G35	75.16	69.04	88.26	65.37	79.43	88.12	70.88	98.42	75.16	
G36	72.12	66.56	84.31	63.3	76.81	84.35	67.71	92.53	72.12	

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: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	69.18	64.49	81.27	61.46	74.28	81.27	65.32	87.94	69.18	
G38	66.79	62.52	78.28	59.48	71.89	78.19	62.88	84.21	66.79	
G39	64.36	60.77	75.85	57.6	69.78	75.39	60.77	80.35	64.36	
G40	62.61	58.75	73.27	55.85	67.85	72.86	58.61	77.23	62.61	
G41	60.45	57.0	71.25	54.06	65.46	70.56	56.82	74.47	60.45	
G42	58.66	55.07	68.81	52.27	63.39	68.13	54.84	71.99	58.66	
G43	56.95	53.32	66.7	50.43	61.18	66.1	53.05	69.55	56.95	
G44	54.84	51.25	64.22	48.59	59.12	63.76	51.12	67.07	54.84	
G45	53.0	49.51	62.38	46.34	56.91	61.83	49.32	65.05	53.0	
G46	51.35	47.16	59.9	44.5	54.84	59.48	47.12	62.65	51.35	
G47	49.46	44.96	57.92	42.34	52.59	57.37	45.23	60.72	49.46	
G48	47.16	42.75	55.44	40.18	50.47	55.25	43.35	58.7	47.16	
G49	45.1	40.77	53.32	37.92	47.67	53.37	41.6	56.27	45.1	
G50	43.3	38.57	50.66	35.53	45.32	51.07	39.3	54.24	43.3	
G51	41.28	36.13	48.04	33.05	42.52	49.14	37.33	51.9	41.28	
G52	39.35	33.69	45.23	30.8	40.27	46.2	34.61	49.88	39.35	
G53	36.68	31.35	42.84	28.55	37.56	43.49	32.36	47.12	36.68	
G54	34.34	29.24	40.13	26.66	35.49	40.82	30.02	44.36	34.34	
G55	31.76	27.21	37.65	24.55	33.14	38.61	28.13	41.74	31.76	
G56	29.6	25.1	35.26	22.62	30.98	35.99	26.06	39.21	29.6	
G57	27.54	23.21	33.05	20.92	28.91	33.79	24.13	36.77	27.54	
G58	25.65	21.61	31.07	19.4	27.31	31.53	22.25	34.75	25.65	
G59	23.63	19.9	29.14	17.79	25.33	29.51	20.55	32.32	23.63	
G60	21.97	18.34	27.17	16.36	23.77	27.67	18.98	30.39	21.97	
G61	20.27	17.15	25.6	14.94	22.11	25.83	17.56	28.32	20.27	
G62	18.66	15.45	23.72	13.65	20.69	24.09	16.04	26.48	18.66	
G63	17.05	14.3	22.11	12.27	19.17	22.48	14.8	24.73	17.05	
G64	15.63	12.83	20.5	11.12	17.79	21.01	13.38	23.17	15.63	
G65	14.25	11.72	18.98	9.93	16.41	19.54	12.04	21.51	14.25	
G66	13.01	10.53	17.65	8.96	15.22	18.07	10.89	20.0	13.01	
G67	11.72	9.52	16.46	7.86	14.02	16.82	9.79	18.53	11.72	
G68	10.62	8.37	15.12	6.94	12.96	15.49	8.73	17.28	10.62	
G69	9.56	7.49	14.16	6.21	11.77	14.3	7.81	15.91	9.56	
G70	8.55	6.57	12.83	5.42	10.89	13.19	6.99	14.8	8.55	
G71	7.58	5.84	11.81	4.55	9.93	12.27	6.16	13.56	7.58	
G72	6.76	5.01	10.76	3.82	9.1	11.17	5.33	12.55	6.76	
G73	5.93	4.18	9.84	3.13	8.18	10.25	4.64	11.45	5.93	

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Remarks:

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