

Report No.:

Test Time: 2025/4/17 16:57:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP138CT095H122-38°-15W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 95 mm

Voltage(V): 219.90 V
Current(A): 0.0690 A
Power(W): 14.54 W
Power Factor: 0.9470
Lamp Luminous Flux: 1167.77

Photometric Results

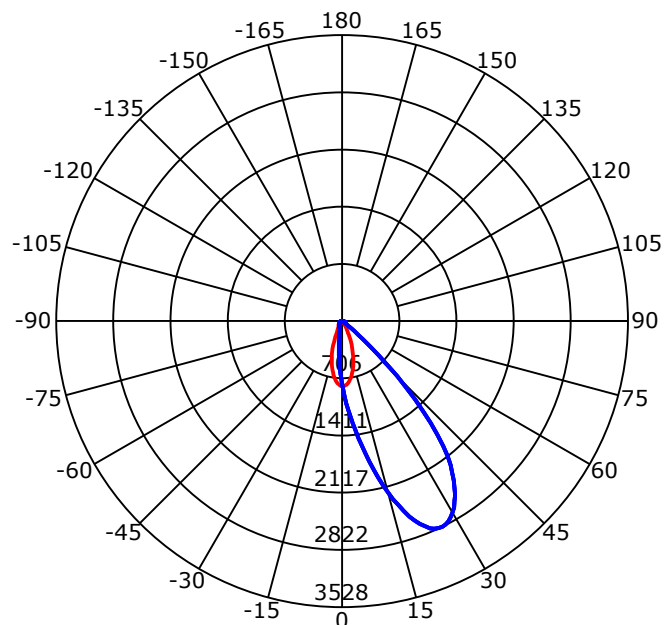
CIE Class: Direct
Luminaire Luminous Flux: 1167.771 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 80.33 lm/W
Beam Angle(50%) C0-180,C90-270: 36.9,34.9
Field Angle(10%) C0-180,C90-270: 66.7,57.6
S/MH C0-180,C90-270: 0.611,1.739

Max. Intensity: 2822.14 cd
Max.Intensity Angle: C=90 Gamma=26
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 803.01 cd
Effective Luminous Flux: 976.52 lm
ERP(ϕ use)(120deg): 1133.20 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.9 deg,34.9 deg

C0-180 — C90-270 —

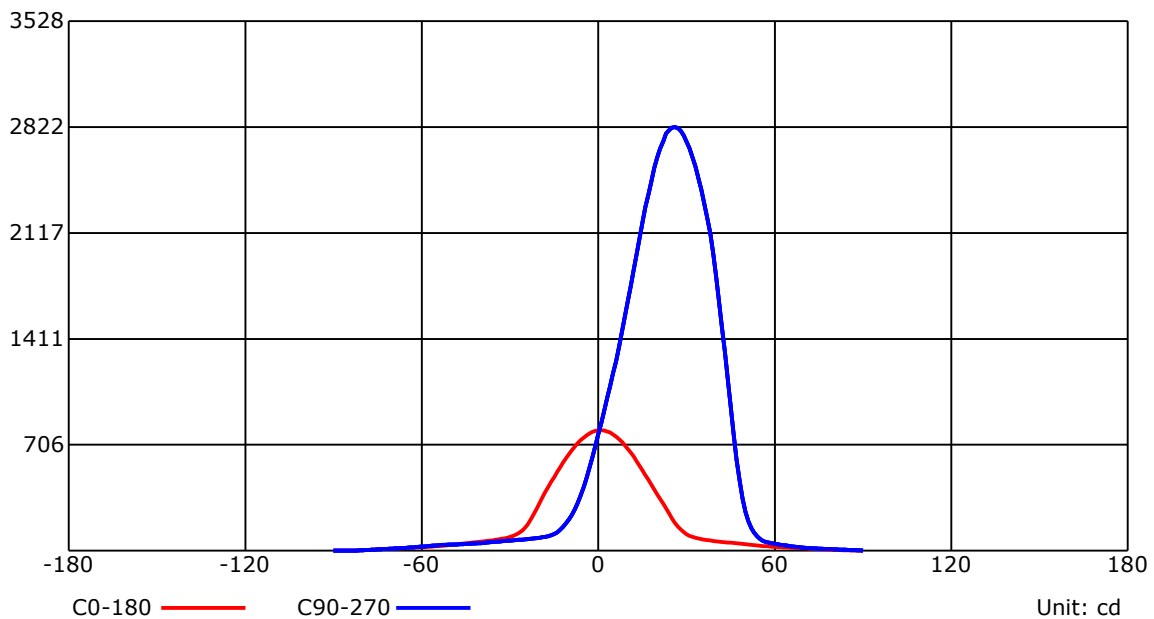
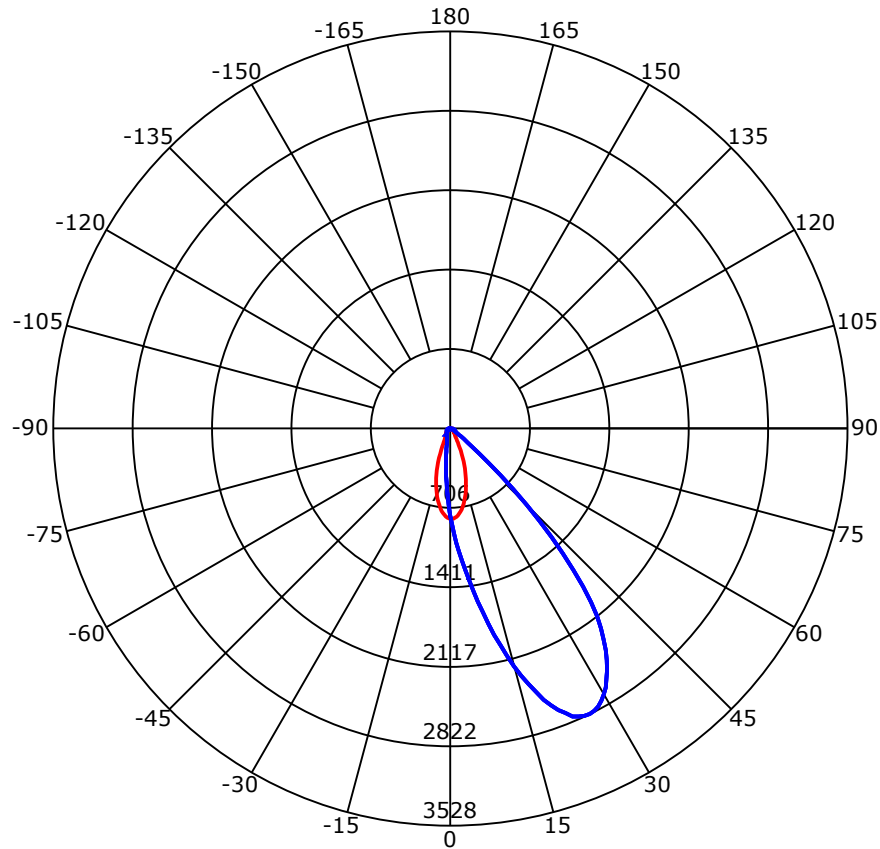
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:57:01

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



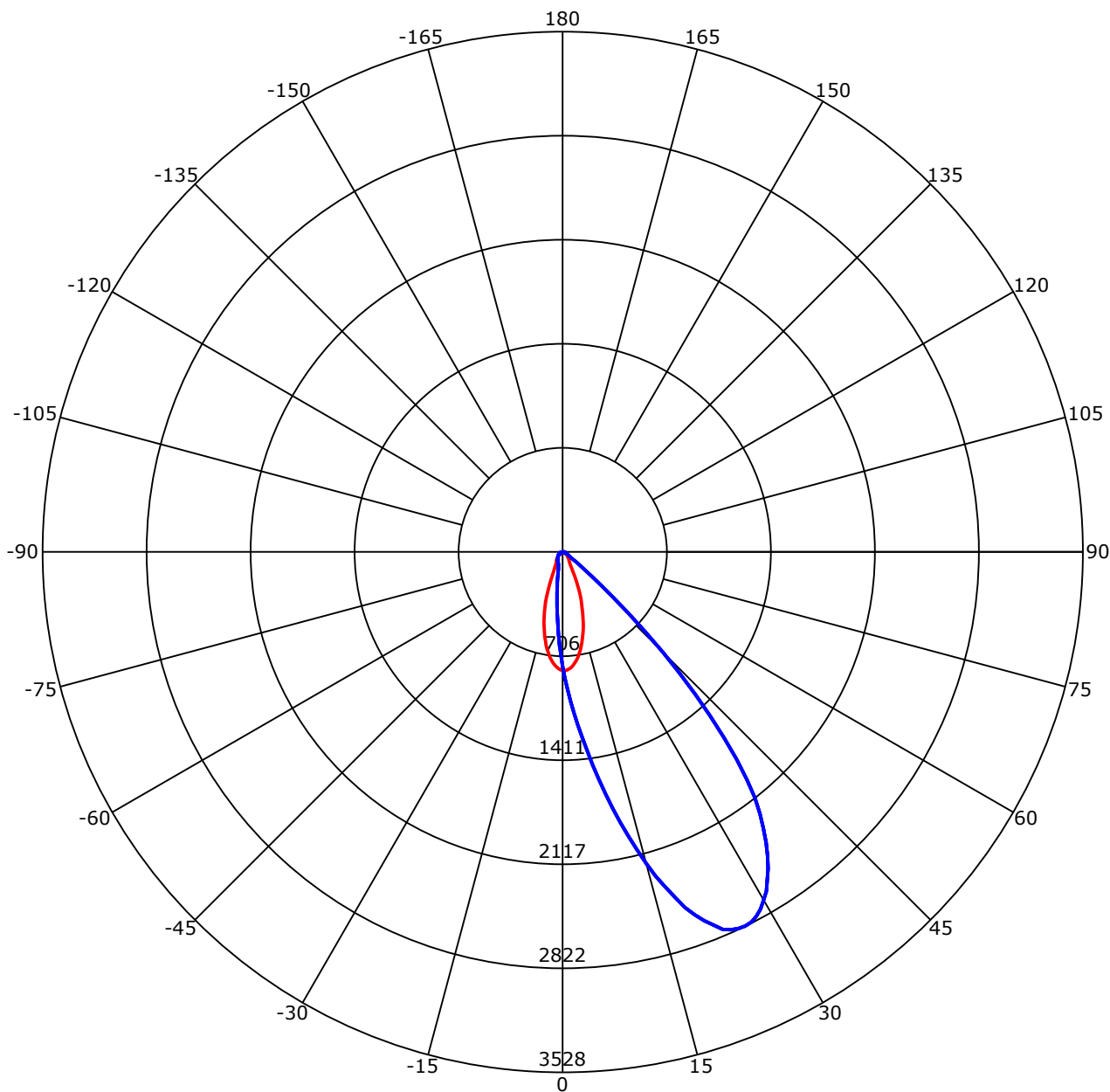
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Temperature: 25
Operators: QC01
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Luminous Intensity Distribution Curve



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: 2025/4/17 16:57:01

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

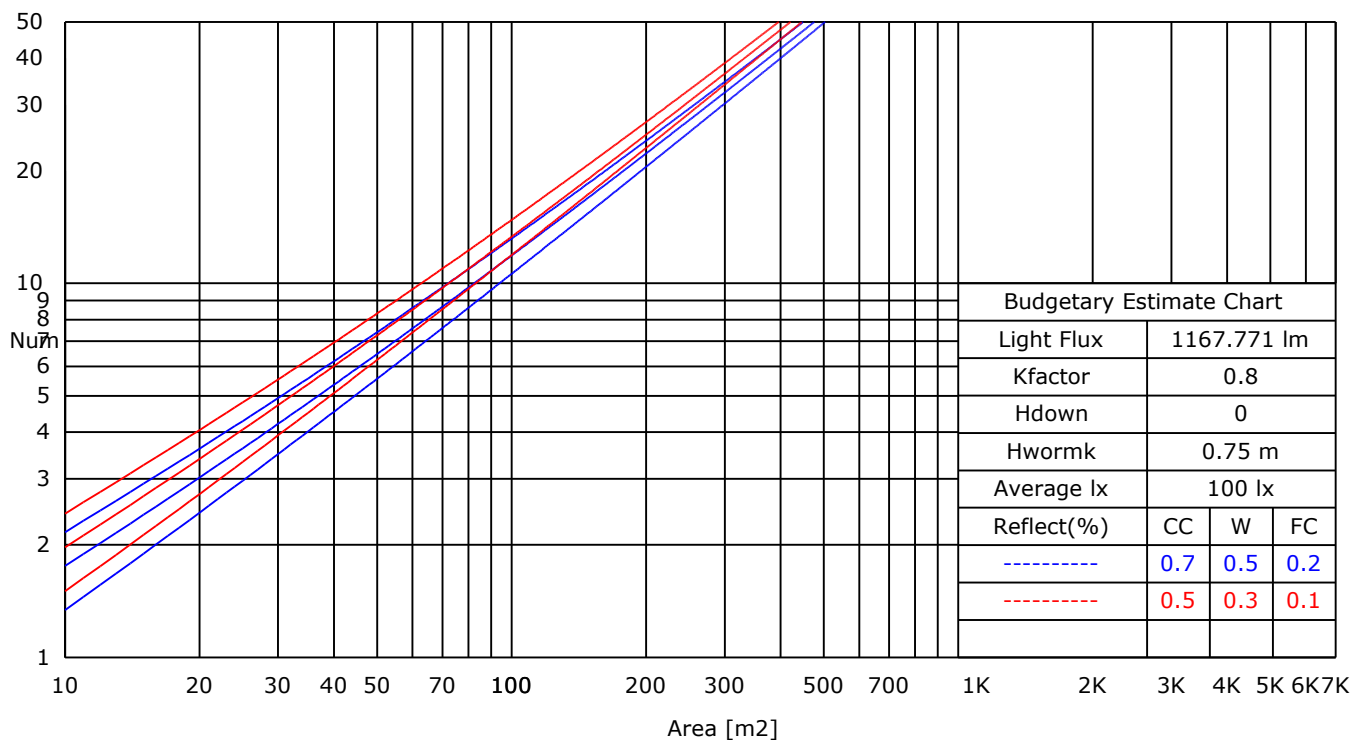
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.01	1.00	0.98	0.96	0.95	0.91	0.89	0.88	0.83
2	1.02	1.01	1.00	1.01	0.99	0.98	0.98	0.95	0.93	0.93	0.91	0.88	0.88	0.85	0.82	0.78
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
4	0.91	0.90	0.88	0.90	0.88	0.86	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.73	0.69
5	0.86	0.85	0.84	0.86	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
6	0.82	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
7	0.78	0.77	0.76	0.77	0.75	0.74	0.76	0.72	0.70	0.73	0.70	0.67	0.71	0.66	0.63	0.59
8	0.75	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
9	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.67	0.64	0.61	0.65	0.61	0.57	0.54
10	0.68	0.67	0.66	0.68	0.66	0.64	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.52

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



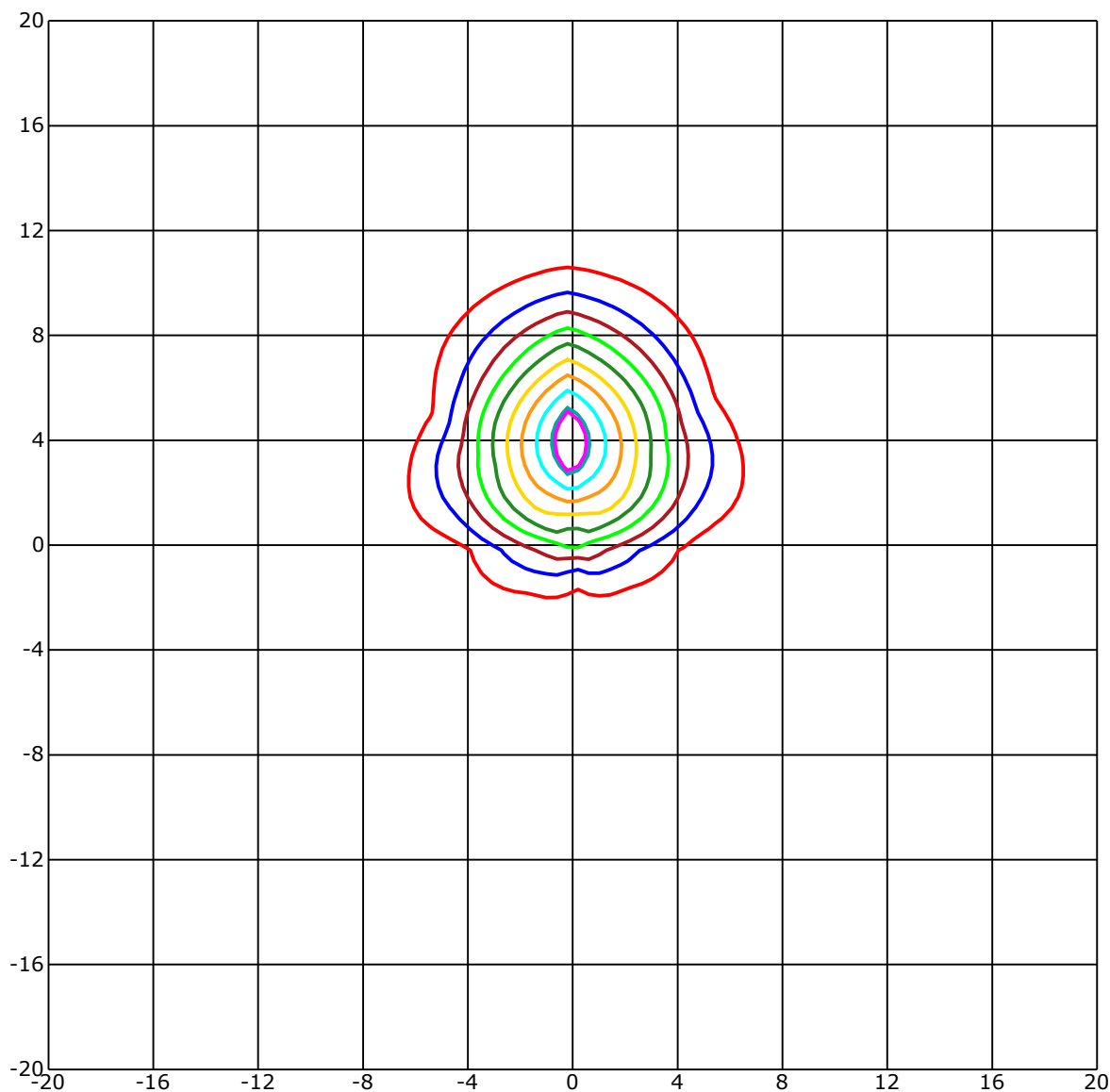
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

20.049(92%Emax)	10.896(50%Emax)
19.613(90%Emax)	8.717(40%Emax)
17.434(80%Emax)	6.538(30%Emax)
15.255(70%Emax)	4.358(20%Emax)
13.075(60%Emax)	2.179(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/4/17 16:57:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

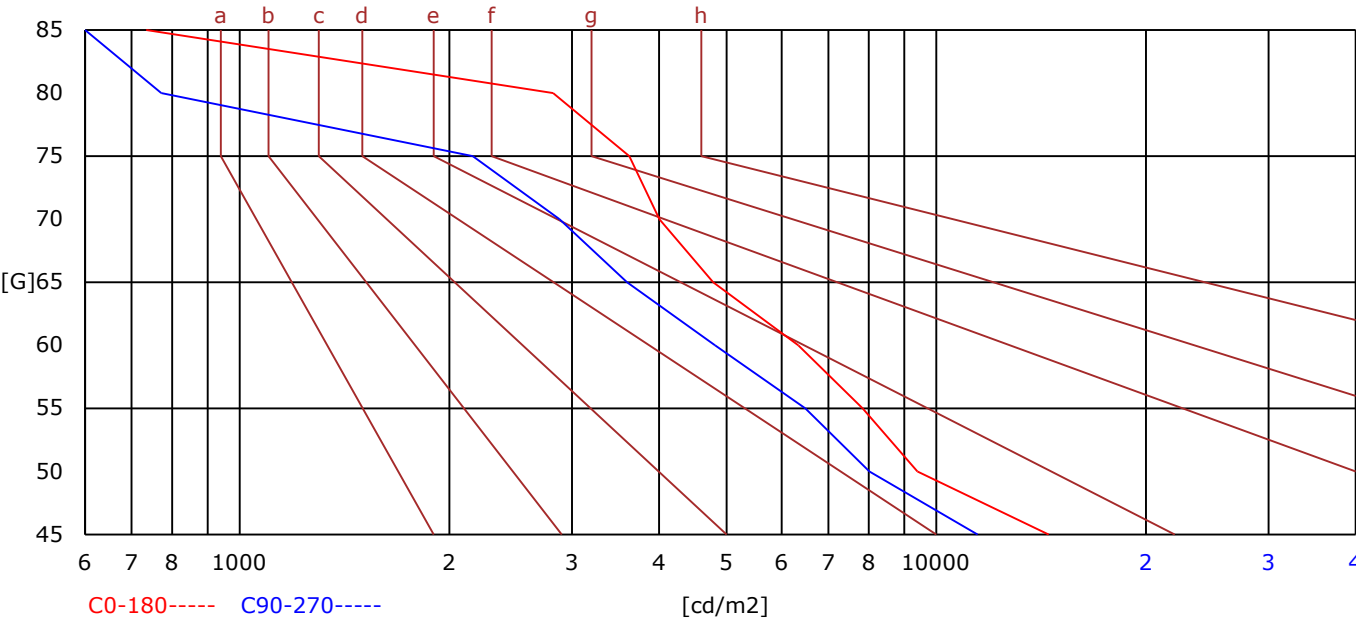
Remarks:

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BRIGHT LIMIT DIAGRAM

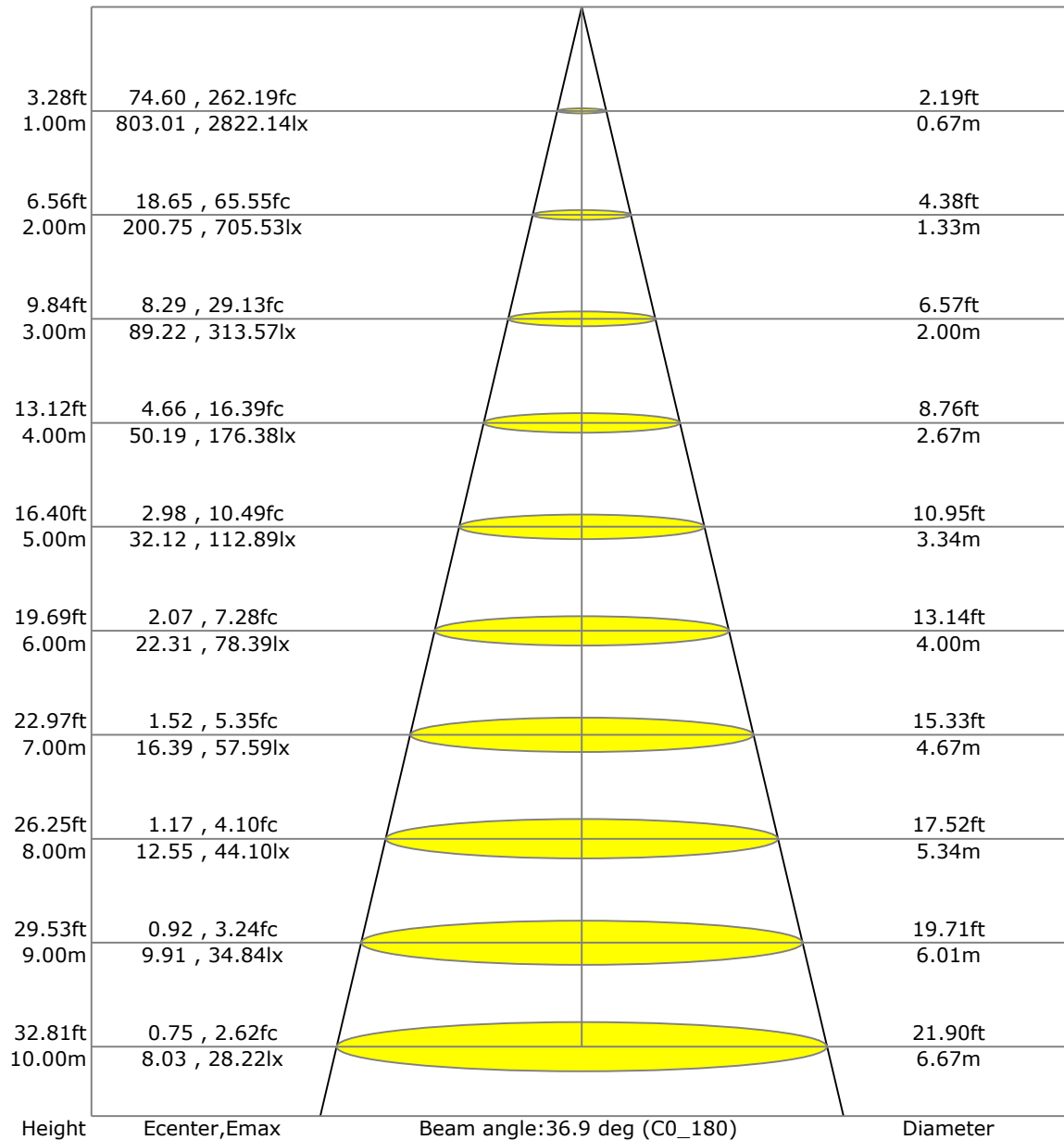
C/G	45	50	55	60	65	70	75	80	85
C0	14495	9400	7842	6340	4784	4004	3625	2819	735
C90	11462	8013	6491	4813	3598	2879	2161	772	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
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
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 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	18.55	18.60	18.75	18.79	19.03	19.54	19.59	19.74	19.78	20.02
3H	18.52	18.58	18.73	18.77	19.01	19.51	19.56	19.71	19.76	20.00
4H	18.50	18.56	18.71	18.75	19.00	19.49	19.54	19.70	19.74	19.99
6H	18.48	18.54	18.70	18.74	18.99	19.47	19.52	19.69	19.72	19.98
8H	18.47	18.53	18.69	18.73	18.98	19.46	19.51	19.68	19.71	19.97
12H	18.46	18.51	18.68	18.72	18.97	19.45	19.50	19.67	19.71	19.96
4H 2H	18.61	18.67	18.82	18.86	19.11	19.63	19.68	19.84	19.88	20.12
3H	18.59	18.65	18.82	18.85	19.11	19.60	19.65	19.82	19.86	20.11
4H	18.58	18.63	18.80	18.84	19.10	19.58	19.63	19.81	19.84	20.10
6H	18.55	18.60	18.79	18.82	19.09	19.55	19.60	19.79	19.82	20.09
8H	18.54	18.59	18.78	18.81	19.08	19.54	19.59	19.78	19.81	20.08
12H	18.52	18.57	18.77	18.80	19.07	19.53	19.57	19.77	19.80	20.07
8H 4H	18.62	18.67	18.83	18.87	19.12	19.65	19.70	19.87	19.90	20.16
6H	18.56	18.60	18.81	18.84	19.11	19.59	19.63	19.84	19.87	20.14
8H	18.54	18.58	18.80	18.83	19.11	19.57	19.61	19.83	19.86	20.13
12H	18.53	18.56	18.80	18.82	19.10	19.55	19.59	19.82	19.84	20.12
12H 4H	18.58	18.62	18.82	18.85	19.12	19.63	19.67	19.87	19.90	20.17
6H	18.55	18.59	18.81	18.83	19.11	19.60	19.64	19.86	19.89	20.16

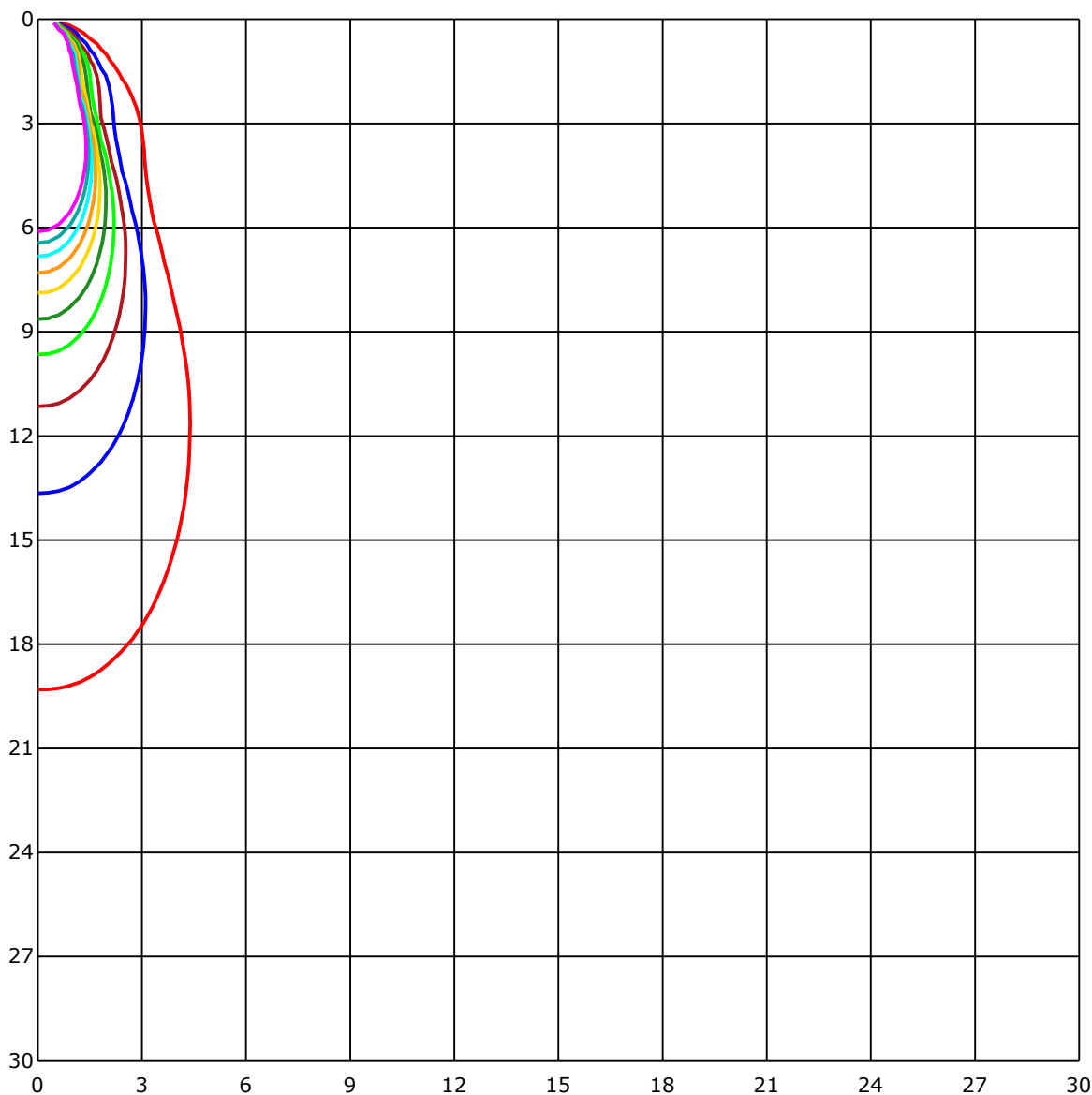
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

21.548

19.393

17.239

15.084

12.929

10.774

8.619

6.464

4.31

2.155

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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	803.01	893.67	774.45	928.98	803.01	893.67	774.45	928.98	803.01	
G1	802.54	946.77	854.59	978.58	798.62	839.16	697.85	877.39	802.54	
G2	800.65	1001.94	935.21	1024.6	792.44	783.99	623.8	824.11	800.65	
G3	794.98	1049.75	1017.57	1069.86	781.53	725.89	554.52	770.02	794.98	
G4	787.06	1098.6	1095.11	1111.58	769.07	669.87	487.54	714.04	787.06	
G5	775.54	1146.37	1180.63	1154.72	753.88	614.13	424.91	660.66	775.54	
G6	760.53	1193.47	1263.89	1194.03	737.17	559.14	368.42	605.77	760.53	
G7	743.26	1234.2	1357.15	1230.99	717.3	505.53	318.96	551.73	743.26	
G8	724.99	1277.24	1456.5	1263.79	693.89	454.79	276.15	500.15	724.99	
G9	702.95	1310.33	1558.25	1294.56	669.72	406.13	239.57	451.96	702.95	
G10	679.59	1347.38	1657.79	1322.74	643.95	362.0	209.08	404.86	679.59	
G11	653.96	1376.69	1765.97	1346.81	615.16	321.03	182.79	363.09	653.96	
G12	626.96	1405.19	1873.76	1365.17	586.94	284.13	159.15	323.68	626.96	
G13	596.57	1426.72	1976.28	1380.46	555.84	251.37	138.19	288.37	596.57	
G14	566.65	1448.8	2080.68	1392.26	524.45	222.96	122.52	257.55	566.65	
G15	535.31	1457.72	2185.41	1402.22	491.7	196.01	111.1	230.13	535.31	
G16	504.58	1468.86	2286.97	1404.11	458.52	171.18	103.17	206.01	504.58	
G17	472.91	1466.83	2374.52	1400.71	425.72	151.12	97.46	182.46	472.91	
G18	439.83	1466.88	2460.71	1394.01	392.3	134.56	92.69	161.22	439.83	
G19	407.26	1456.26	2549.34	1380.37	357.37	122.05	89.49	143.9	407.26	
G20	376.21	1442.24	2617.12	1362.72	319.1	113.08	86.37	130.12	376.21	
G21	345.15	1422.61	2678.24	1343.98	279.08	106.48	84.01	119.88	345.15	
G22	315.04	1400.62	2727.13	1318.49	241.08	101.43	81.75	111.86	315.04	
G23	282.9	1373.48	2779.85	1291.35	206.44	97.08	79.72	105.77	282.9	
G24	249.81	1340.44	2801.75	1258.27	176.37	93.59	77.87	100.95	249.81	
G25	216.63	1305.66	2817.14	1224.38	151.83	90.52	75.99	97.23	216.63	
G26	186.9	1270.07	2822.14	1183.65	132.72	88.16	74.15	93.69	186.9	
G27	161.56	1226.55	2815.34	1143.06	117.85	85.38	72.54	90.9	161.56	
G28	141.12	1181.24	2797.08	1097.33	106.57	83.11	70.8	88.21	141.12	
G29	123.28	1135.89	2766.16	1043.81	98.26	80.85	69.24	86.23	123.28	
G30	109.45	1091.43	2724.77	975.94	91.85	79.01	67.35	83.63	109.45	
G31	98.83	1036.59	2681.49	904.67	86.65	76.46	65.84	81.37	98.83	
G32	91.37	975.23	2618.01	817.12	82.45	74.67	64.09	79.24	91.37	
G33	85.33	901.22	2557.93	725.23	78.72	72.59	62.68	77.59	85.33	
G34	80.85	818.44	2481.94	626.82	75.33	70.98	60.84	75.47	80.85	
G35	76.84	727.78	2405.58	525.16	72.26	68.72	59.28	73.77	76.84	
G36	73.63	626.21	2314.91	425.53	69.62	67.02	57.34	71.83	73.63	

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:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	70.37	523.32	2222.97	337.36	67.02	64.99	55.41	70.18	70.37	
G38	67.87	424.06	2116.55	262.46	64.75	63.2	52.95	68.06	67.87	
G39	65.41	332.08	1984.21	204.32	62.35	61.17	51.4	66.41	65.41	
G40	63.06	254.53	1832.99	159.76	60.32	59.47	50.26	64.38	63.06	
G41	60.79	193.6	1667.14	127.1	58.15	57.44	48.9	62.63	60.79	
G42	58.71	149.94	1495.48	103.55	56.07	55.41	47.48	60.46	58.71	
G43	56.87	119.36	1320.15	87.08	53.8	52.86	46.49	58.67	56.87	
G44	54.8	97.98	1137.68	74.85	51.63	50.88	45.59	56.21	54.8	
G45	52.95	83.02	958.85	65.65	49.27	49.18	44.98	53.99	52.95	
G46	51.07	72.31	777.29	58.15	47.43	47.72	43.8	52.2	51.07	
G47	48.71	63.86	608.65	52.53	45.26	46.25	42.9	50.69	48.71	
G48	46.96	57.72	462.91	47.62	43.14	44.98	42.1	48.94	46.96	
G49	44.88	52.81	346.47	44.37	41.16	43.75	41.44	47.81	44.88	
G50	43.0	48.94	259.58	41.72	38.98	42.57	40.78	46.35	43.0	
G51	40.97	45.73	197.66	39.27	36.53	41.34	40.16	45.26	40.97	
G52	38.94	43.28	152.3	36.86	34.6	40.12	39.32	44.18	38.94	
G53	36.77	40.87	119.17	34.64	32.85	38.98	38.32	43.0	36.77	
G54	34.22	38.8	94.49	32.33	31.29	37.99	36.77	41.82	34.22	
G55	32.14	36.44	76.93	30.16	29.88	37.0	35.35	40.78	32.14	
G56	30.82	34.41	65.18	28.03	28.37	36.06	33.79	39.74	30.82	
G57	29.45	32.28	58.0	25.86	26.95	34.97	32.28	38.98	29.45	
G58	27.99	30.25	53.0	23.74	25.86	33.89	30.49	37.95	27.99	
G59	26.62	27.85	48.94	21.66	24.64	32.52	28.84	36.86	26.62	
G60	25.49	25.68	45.4	19.49	23.32	31.29	27.37	35.59	25.49	
G61	24.31	23.36	42.38	17.7	22.23	30.02	26.01	34.5	24.31	
G62	22.98	21.24	39.41	16.09	21.33	28.65	24.4	33.09	22.98	
G63	21.95	19.3	36.72	14.77	20.29	27.23	22.94	32.0	21.95	
G64	20.96	17.84	33.93	13.45	19.59	25.96	21.52	30.39	20.96	
G65	20.01	16.38	31.15	12.32	18.5	24.54	20.25	29.07	20.01	
G66	19.26	15.2	28.37	11.14	17.51	23.36	18.6	27.56	19.26	
G67	18.5	13.97	25.68	10.24	16.47	21.76	17.42	26.15	18.5	
G68	17.6	12.93	23.5	9.34	15.53	20.44	16.09	24.68	17.6	
G69	16.61	11.85	21.76	8.73	14.44	19.21	14.82	23.27	16.61	
G70	15.67	11.09	20.2	7.98	13.5	17.98	13.59	21.76	15.67	
G71	14.73	10.15	18.64	7.5	12.46	16.47	12.41	20.48	14.73	
G72	13.78	9.63	17.09	6.7	11.52	15.34	11.42	19.21	13.78	
G73	12.79	8.92	15.81	5.99	10.29	14.16	10.29	17.89	12.79	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

