

Report No.:

Test Time: 2024/7/2 18:22:32

LUMINAIRE PHOTOMETRIC TEST REPORT

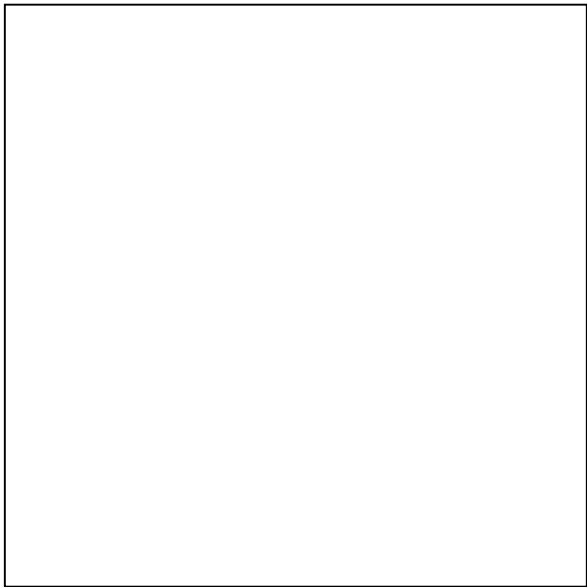
Luminaire Property

Manufacturer: InBright	Voltage(V): 220.00 V
Luminaire Type: IBSP101CT055-36°-8.9W	Current(A): 0.0430 A
Lamp Type:	Power(W): 8.90 W
Luminous Width: 50 mm	Power Factor: 0.9370
Luminous Length: 50 mm	Lamp Luminous Flux: 949.97
Luminous Height: 50 mm	

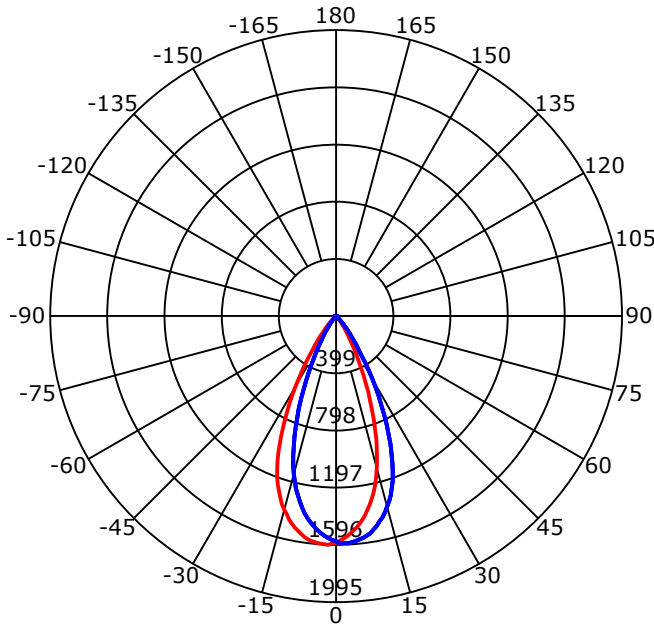
Photometric Results

CIE Class: Direct	Max. Intensity: 1596.06 cd
Luminaire Luminous Flux: 949.965 lm	Max.Intensity Angle: C=180 Gamma=2
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 106.74 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 46.0,46.0	Center Intensity: 1583.63 cd
Field Angle(10%) C0-180,C90-270: 70.7,70.6	Effective Luminous Flux: 876.57 lm
S/MH C0-180,C90-270: 0.768,0.768	ERP(φuse)(120deg): 940.85 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.0 deg,46.0 deg

C0-180 — C90-270 —

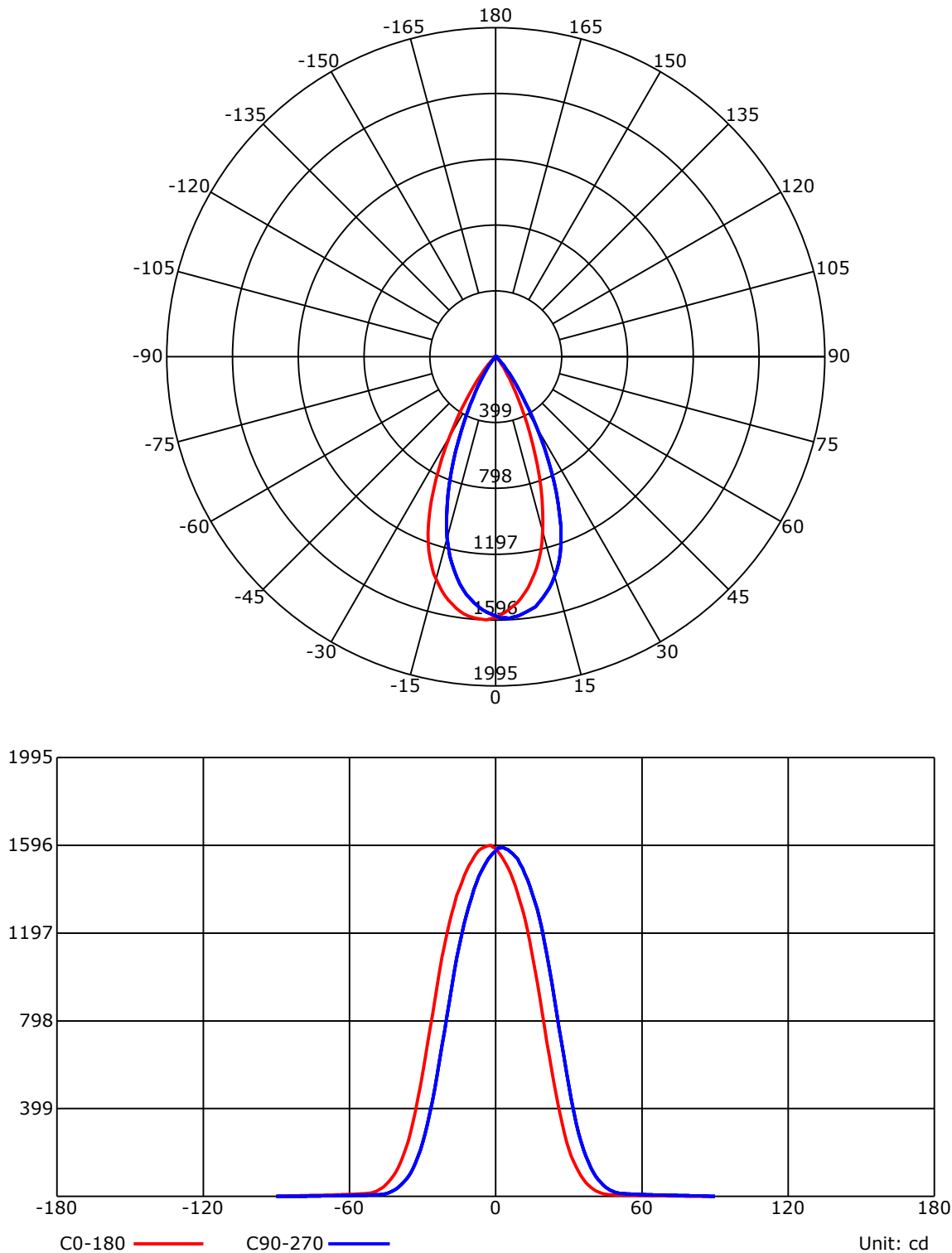
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/2 18:22:32

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



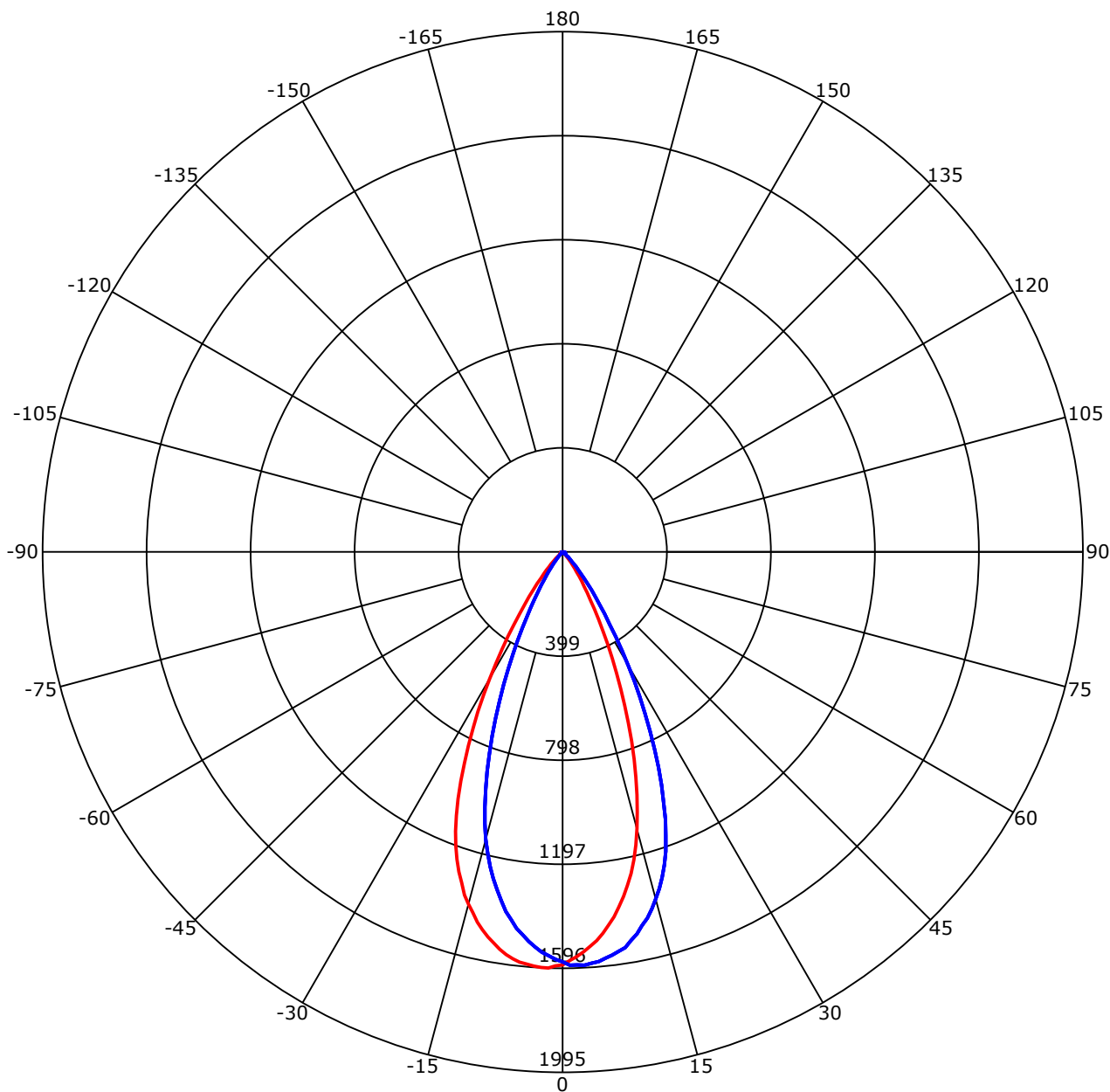
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/2 18:22:32

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/7/2 18:22:32

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

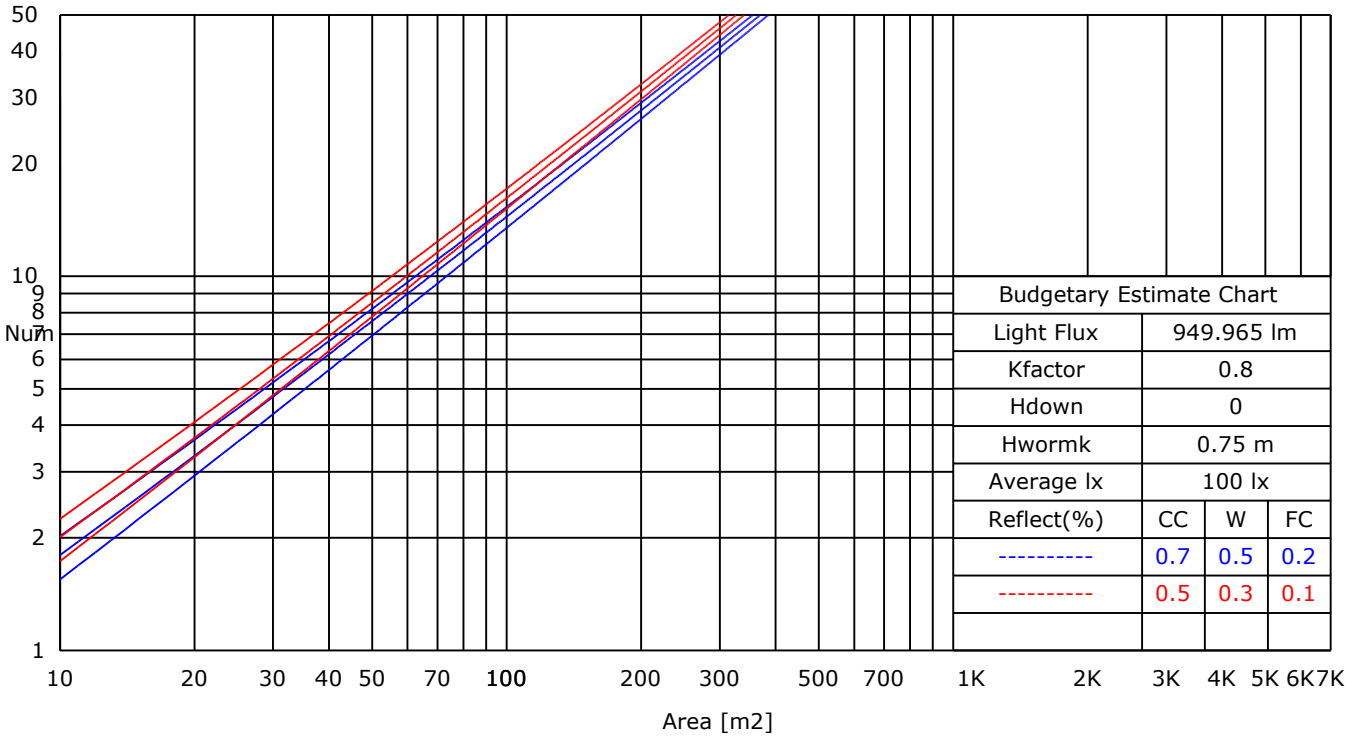
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UTILIZATION FACTORS TABLE

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	1.03	1.01	0.99	1.02	0.99	0.97	0.98	0.96	0.94	0.93	0.91	0.89	0.87	0.85	0.82	0.77
2	0.99	0.97	0.96	0.98	0.95	0.94	0.95	0.92	0.90	0.90	0.88	0.85	0.85	0.82	0.79	0.75
3	0.95	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.86	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.91	0.90	0.91	0.89	0.88	0.88	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
6	0.87	0.85	0.85	0.86	0.84	0.83	0.83	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
7	0.85	0.83	0.82	0.84	0.82	0.80	0.81	0.78	0.77	0.78	0.75	0.73	0.75	0.71	0.68	0.65
8	0.82	0.81	0.80	0.81	0.80	0.78	0.79	0.76	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
9	0.80	0.79	0.78	0.79	0.78	0.77	0.77	0.75	0.73	0.75	0.71	0.69	0.72	0.68	0.65	0.62
10	0.79	0.77	0.77	0.78	0.76	0.75	0.75	0.73	0.71	0.73	0.70	0.67	0.70	0.66	0.64	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



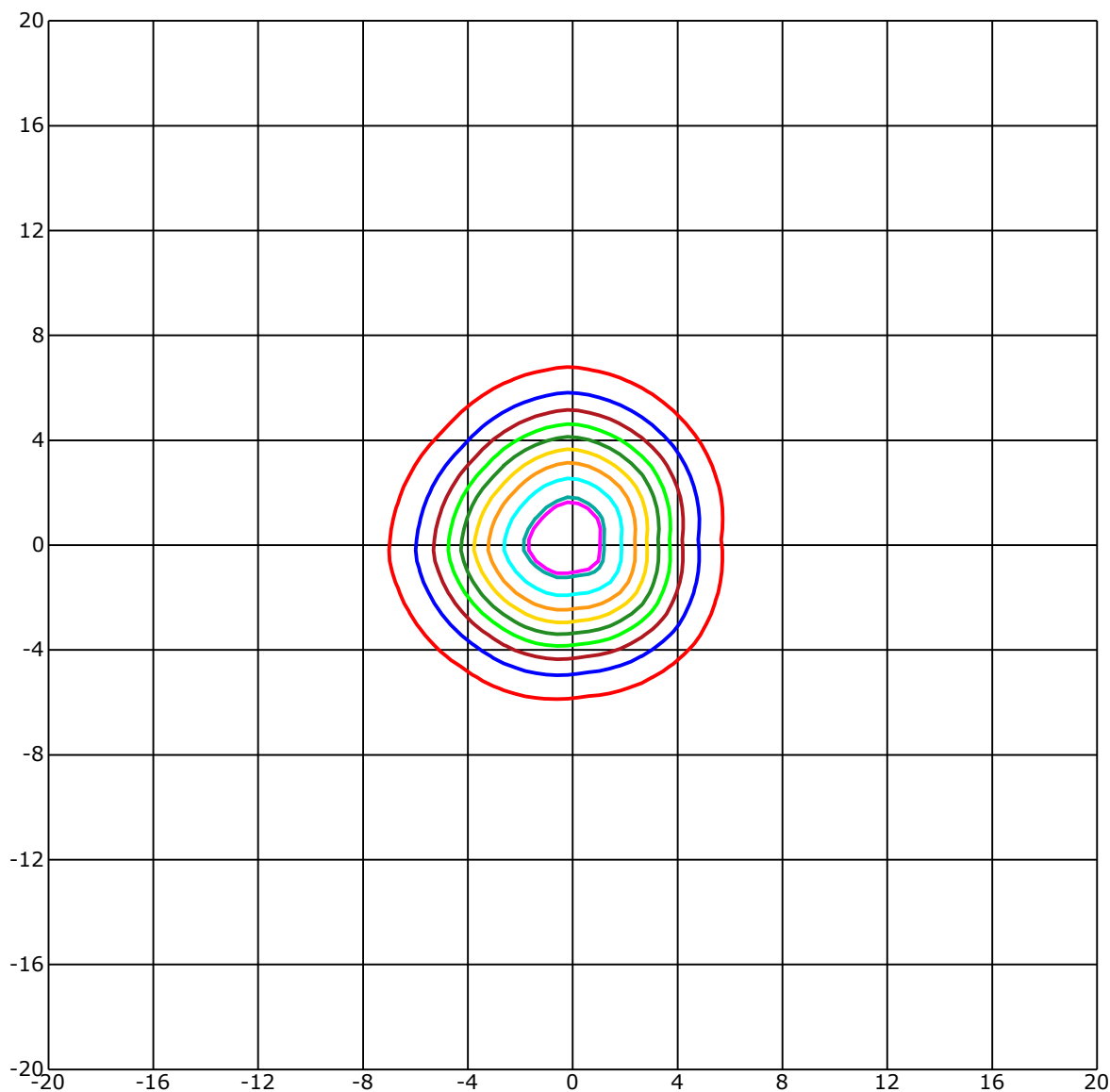
C Range: 0 - 360 Deg
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

14.657(92%Emax)	7.966(50%Emax)
14.338(90%Emax)	6.373(40%Emax)
12.745(80%Emax)	4.779(30%Emax)
11.152(70%Emax)	3.186(20%Emax)
9.559(60%Emax)	1.593(10%Emax)

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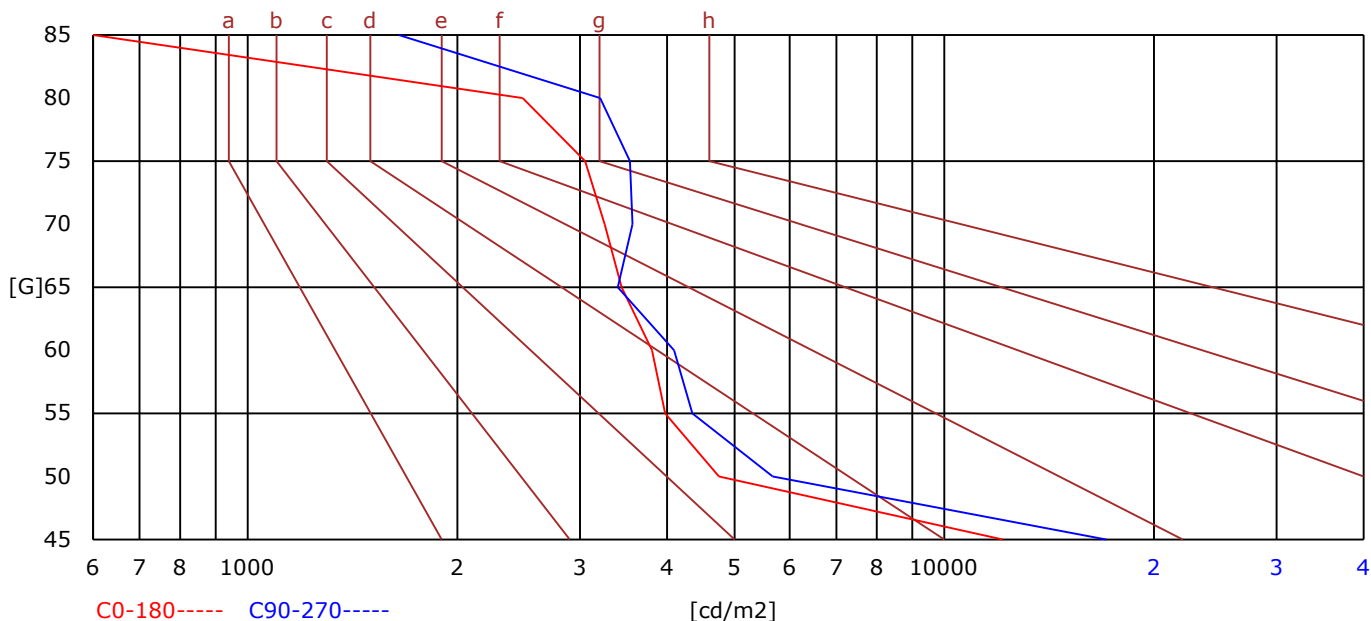
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12138	4749	3976	3807	3441	3255	3053	2482	0
C90	17090	5671	4351	4094	3399	3570	3538	3206	1648
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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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	13.55	13.59	13.75	13.78	14.02	13.66	13.71	13.86	13.90	14.14
	3H	13.53	13.58	13.74	13.77	14.02	13.64	13.69	13.85	13.89	14.13
	4H	13.52	13.57	13.73	13.77	14.02	13.63	13.68	13.84	13.88	14.12
	6H	13.51	13.56	13.72	13.76	14.01	13.61	13.66	13.83	13.86	14.12
	8H	13.50	13.55	13.72	13.75	14.00	13.60	13.66	13.82	13.86	14.11
	12H	13.49	13.54	13.71	13.75	14.00	13.60	13.65	13.82	13.85	14.11
4H	2H	13.58	13.63	13.79	13.83	14.08	13.86	13.91	14.07	14.10	14.35
	3H	13.58	13.63	13.80	13.83	14.09	13.85	13.90	14.07	14.11	14.36
	4H	13.57	13.62	13.79	13.83	14.09	13.83	13.88	14.06	14.10	14.36
	6H	13.55	13.60	13.79	13.82	14.08	13.81	13.86	14.05	14.08	14.35
	8H	13.54	13.59	13.78	13.81	14.08	13.80	13.85	14.04	14.08	14.34
	12H	13.53	13.57	13.78	13.81	14.08	13.79	13.84	14.04	14.07	14.34
8H	4H	13.57	13.62	13.79	13.82	14.08	13.96	14.01	14.18	14.22	14.47
	6H	13.53	13.58	13.79	13.82	14.09	13.96	14.00	14.21	14.24	14.51
	8H	13.52	13.56	13.78	13.81	14.09	13.94	13.99	14.20	14.23	14.51
	12H	13.51	13.55	13.78	13.80	14.08	13.93	13.97	14.19	14.22	14.50
12H	4H	13.54	13.58	13.79	13.82	14.09	14.03	14.08	14.28	14.31	14.58
	6H	13.52	13.56	13.78	13.81	14.08	14.02	14.06	14.28	14.31	14.58

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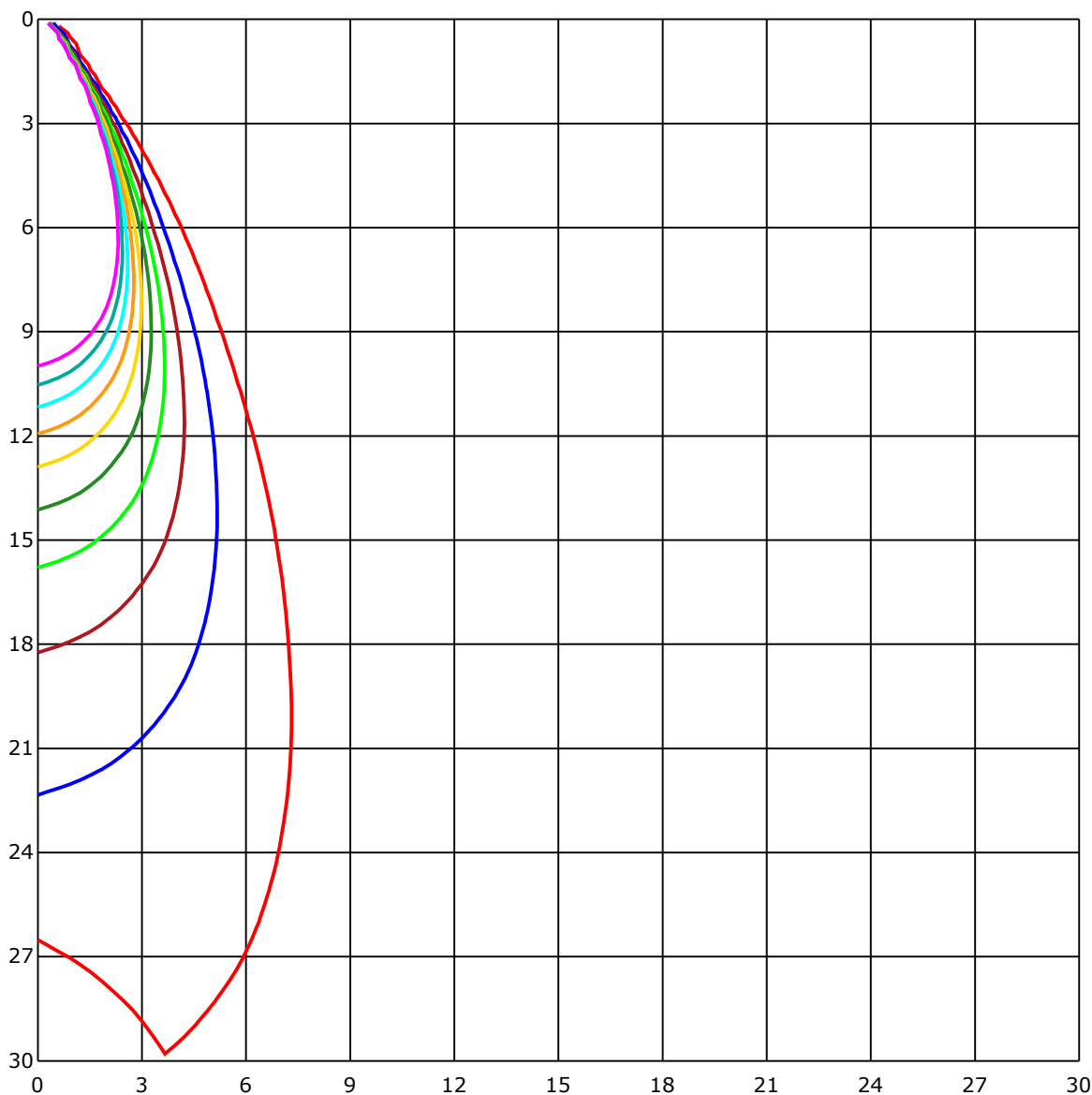
G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



15.869	7.935
14.282	6.348
12.695	4.761
11.108	3.174
9.522	1.587

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1583.63	1582.87	1570.84	1589.87	1583.63	1582.87	1570.84	1589.87	1583.63	
G1	1566.57	1582.82	1584.44	1591.26	1586.5	1578.92	1561.72	1578.96	1566.57	
G2	1551.98	1578.33	1583.85	1587.85	1596.06	1572.95	1549.02	1574.11	1551.98	
G3	1534.65	1577.21	1586.82	1591.49	1594.63	1569.22	1536.18	1560.15	1534.65	
G4	1515.13	1560.96	1580.98	1579.63	1591.62	1559.48	1518.09	1543.27	1515.13	
G5	1495.47	1550.14	1576.36	1572.95	1586.1	1542.69	1498.56	1524.64	1495.47	
G6	1470.51	1533.8	1565.85	1562.17	1580.67	1525.68	1475.22	1505.75	1470.51	
G7	1441.33	1515.26	1557.46	1544.67	1571.73	1509.88	1453.45	1486.22	1441.33	
G8	1412.33	1499.1	1545.25	1528.15	1558.81	1481.77	1423.42	1466.42	1412.33	
G9	1377.81	1475.76	1535.15	1505.43	1542.11	1457.13	1395.36	1437.15	1377.81	
G10	1340.95	1449.23	1512.08	1488.33	1522.09	1428.22	1357.79	1404.43	1340.95	
G11	1301.27	1421.94	1491.02	1465.25	1503.86	1400.39	1319.59	1368.65	1301.27	
G12	1259.57	1390.2	1463.82	1441.28	1480.52	1364.61	1279.81	1328.52	1259.57	
G13	1211.22	1355.32	1440.7	1410.71	1455.87	1331.39	1238.83	1288.52	1211.22	
G14	1157.26	1318.29	1410.26	1378.39	1424.58	1294.63	1189.59	1245.25	1157.26	
G15	1098.55	1279.28	1377.14	1340.33	1397.25	1252.88	1140.21	1197.17	1098.55	
G16	1038.44	1234.57	1342.97	1300.19	1367.93	1206.73	1083.6	1141.15	1038.44	
G17	973.3	1187.57	1305.04	1254.9	1326.14	1158.84	1021.92	1081.0	973.3	
G18	908.44	1133.83	1260.47	1211.27	1288.79	1098.86	955.62	1023.18	908.44	
G19	840.43	1074.62	1213.42	1157.4	1245.29	1042.12	889.72	957.1	840.43	
G20	772.33	1012.0	1156.05	1101.65	1198.56	976.4	824.18	891.74	772.33	
G21	701.05	944.67	1100.03	1040.55	1146.31	913.96	754.83	820.95	701.05	
G22	634.39	881.46	1033.05	976.54	1090.02	844.38	688.12	753.7	634.39	
G23	570.15	812.42	971.11	912.97	1027.71	779.02	622.18	685.56	570.15	
G24	508.47	745.53	902.92	839.44	961.23	709.26	556.64	619.08	508.47	
G25	450.92	678.92	834.73	773.41	892.82	642.87	492.94	556.64	450.92	
G26	395.48	612.03	765.06	706.43	825.71	576.57	434.18	498.46	395.48	
G27	342.11	546.76	696.69	635.1	757.92	516.68	380.35	438.08	342.11	
G28	293.27	482.12	632.28	567.99	692.7	455.63	329.18	381.12	293.27	
G29	250.17	423.13	566.47	503.44	625.18	400.24	284.87	330.48	250.17	
G30	214.48	367.33	503.8	445.26	561.04	348.62	245.23	284.2	214.48	
G31	182.57	317.37	441.67	387.85	499.36	304.4	209.41	243.26	182.57	
G32	155.68	273.16	382.6	334.52	440.1	264.31	177.81	210.53	155.68	
G33	132.87	233.65	330.53	288.06	383.94	227.91	149.62	181.18	132.87	
G34	111.96	200.48	285.77	248.11	335.19	194.24	126.37	154.47	111.96	
G35	93.42	171.57	248.51	211.12	289.59	165.06	105.58	130.0	93.42	
G36	77.21	145.31	213.9	179.16	249.27	139.11	88.48	110.79	77.21	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	63.25	122.59	183.65	151.95	214.35	118.69	74.16	94.0	63.25	
G38	51.58	101.68	155.41	128.03	183.78	99.93	61.59	79.55	51.58	
G39	41.43	83.09	130.81	107.24	155.63	84.71	51.0	66.66	41.43	
G40	32.95	67.74	109.94	89.06	131.66	70.7	41.3	55.71	32.95	
G41	26.17	55.8	92.56	72.95	110.79	58.72	33.49	45.83	26.17	
G42	20.6	44.53	77.48	59.84	93.82	48.89	26.53	37.75	20.6	
G43	15.76	35.24	63.79	48.62	78.42	39.91	20.92	30.93	15.76	
G44	11.9	27.65	52.3	38.38	65.23	32.72	16.34	25.68	11.9	
G45	9.47	21.46	42.87	30.21	54.18	26.8	12.66	20.83	9.47	
G46	8.35	16.38	34.92	23.61	44.31	21.5	9.97	17.51	8.35	
G47	7.54	12.43	28.24	18.09	36.18	18.0	8.75	15.17	7.54	
G48	7.0	9.7	22.67	13.78	29.63	15.58	7.72	14.01	7.0	
G49	6.55	8.62	18.4	10.64	23.79	14.23	7.18	12.79	6.55	
G50	6.19	7.63	15.76	9.11	19.3	13.06	6.64	11.99	6.19	
G51	6.02	7.23	14.14	8.04	16.47	12.39	6.55	11.4	6.02	
G52	5.7	6.6	13.15	7.36	14.72	11.81	6.02	10.82	5.7	
G53	5.39	6.42	12.34	6.87	13.56	11.13	5.75	10.37	5.39	
G54	5.16	6.02	11.76	6.78	12.75	10.5	5.48	9.92	5.16	
G55	5.07	5.7	10.95	6.24	11.99	10.15	5.3	9.29	5.07	
G56	4.94	5.3	10.28	5.93	11.49	9.83	4.98	9.07	4.94	
G57	4.62	5.34	9.88	5.79	10.95	9.25	4.8	8.71	4.62	
G58	4.49	5.07	9.52	5.43	10.46	8.8	4.58	8.44	4.49	
G59	4.17	4.89	9.16	5.12	9.97	8.44	4.31	7.95	4.17	
G60	3.95	4.76	8.8	5.12	9.56	8.3	4.08	7.72	3.95	
G61	3.91	4.62	8.39	4.85	9.11	7.81	3.91	7.23	3.91	
G62	3.59	4.13	8.13	4.62	8.89	7.18	3.68	6.96	3.59	
G63	3.32	3.95	7.86	4.26	8.48	6.96	3.59	6.69	3.32	
G64	3.23	3.91	7.32	4.0	7.86	6.69	3.32	6.46	3.23	
G65	2.87	3.64	6.96	3.59	7.45	6.46	3.37	6.11	2.87	
G66	2.87	3.5	6.51	3.55	7.18	6.11	3.1	5.7	2.87	
G67	2.65	3.37	6.28	3.41	6.82	5.97	2.96	5.43	2.65	
G68	2.6	3.05	5.97	3.23	6.51	5.61	2.65	5.34	2.6	
G69	2.24	3.01	5.93	3.19	6.11	5.52	2.47	4.98	2.24	
G70	2.15	2.78	5.52	3.05	6.02	5.21	2.24	4.71	2.15	
G71	1.98	2.74	5.43	2.78	5.7	4.89	2.15	4.53	1.98	
G72	1.8	2.33	5.07	2.65	5.48	4.58	1.98	4.26	1.8	
G73	1.62	2.33	4.94	2.6	5.25	4.44	1.8	3.91	1.62	

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