

Report No.:

Test Time: 2024/7/3 9:27:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT055-15°-8.8W
Lamp Type:
Luminous Width: 50 mm
Luminous Length: 50 mm
Luminous Height: 50 mm

Voltage(V): 220.00 V
Current(A): 0.0420 A
Power(W): 8.83 W
Power Factor: 0.9360
Lamp Luminous Flux: 892.77

Photometric Results

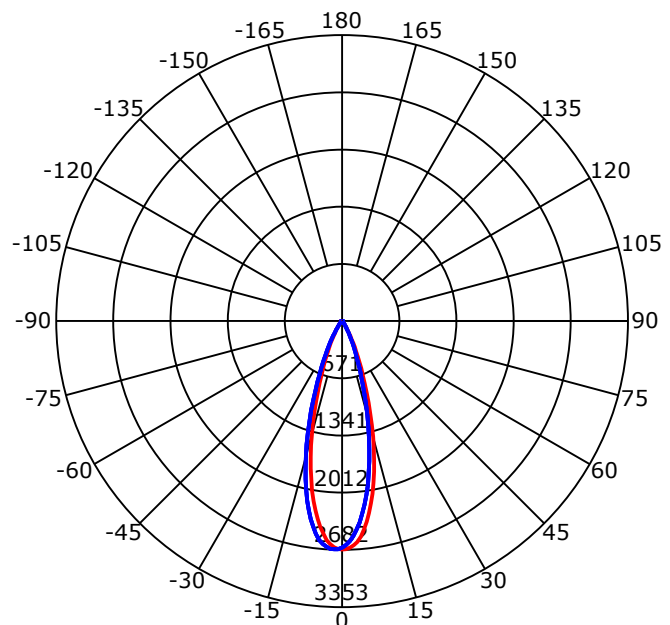
CIE Class: Direct
Luminaire Luminous Flux: 892.7703 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.11 lm/W
Beam Angle(50%) C0-180,C90-270: 30.7,30.8
Field Angle(10%) C0-180,C90-270: 55.1,55.1
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 2682.45 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2680.16 cd
Effective Luminous Flux: 772.16 lm
ERP(ϕ use)(120deg): 881.80 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 30.7 deg,30.8 deg

C0-180 — C90-270 —

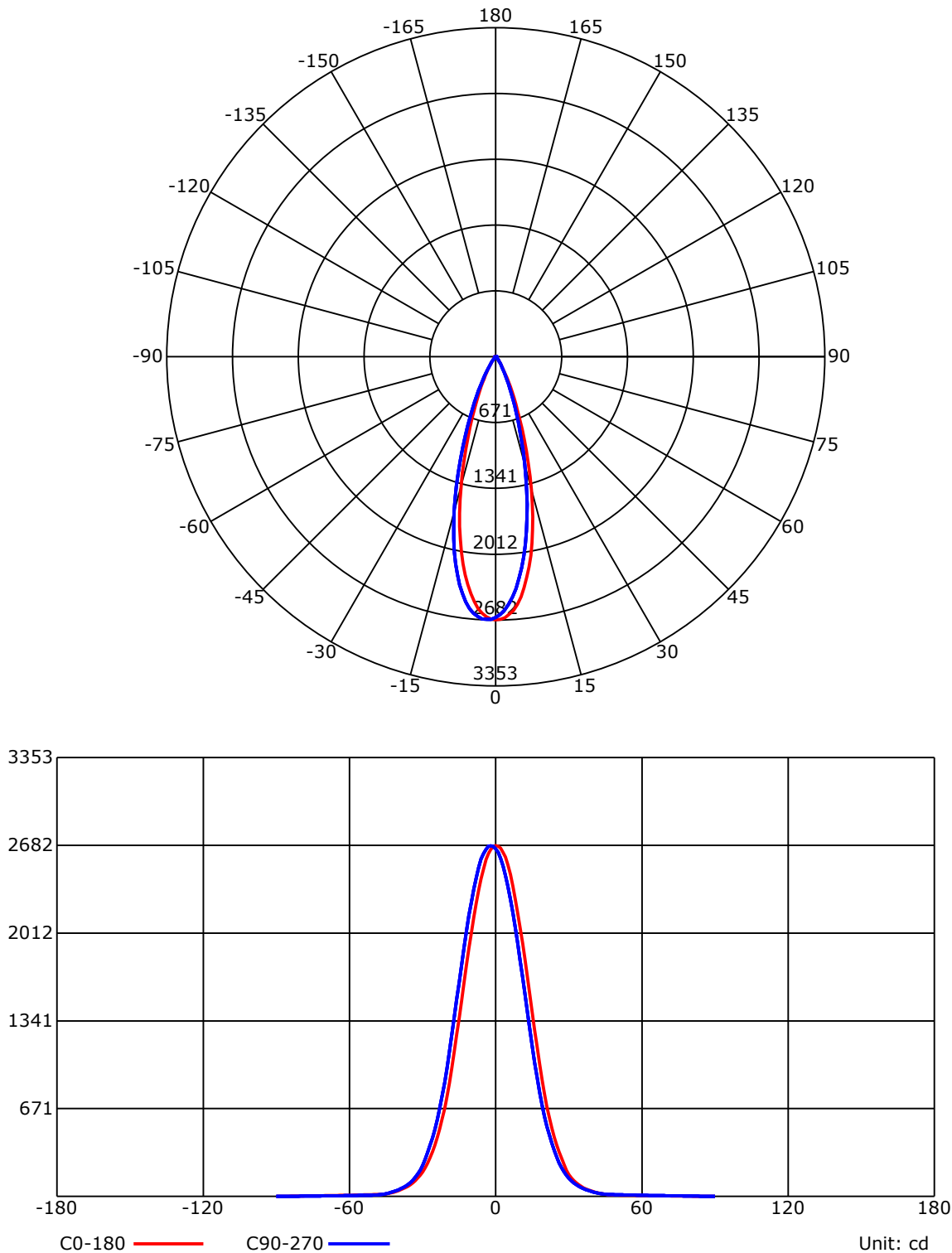
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 9:27:42

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



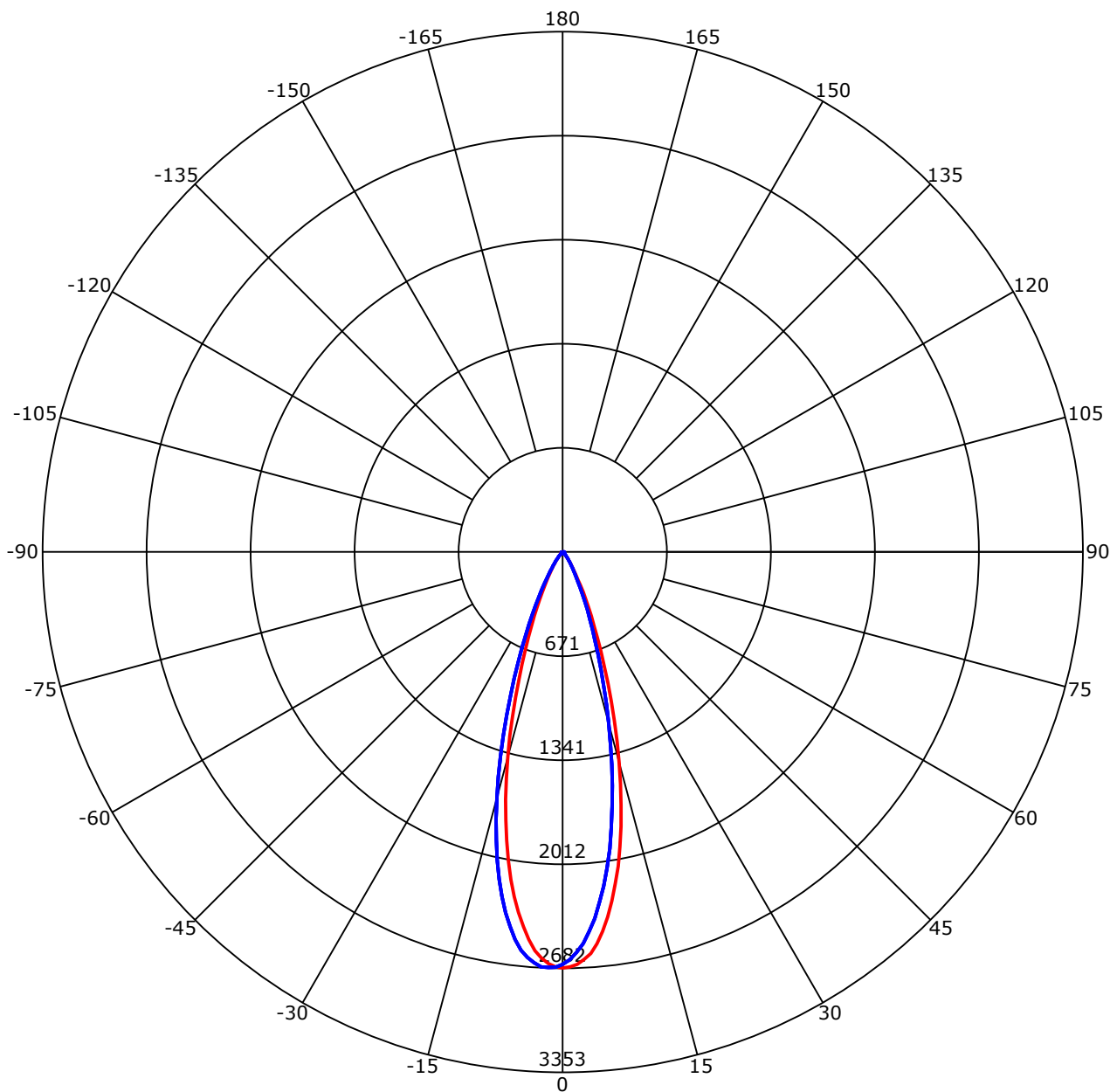
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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Luminous Intensity Distribution Curve



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: 2024/7/3 9:27:42

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

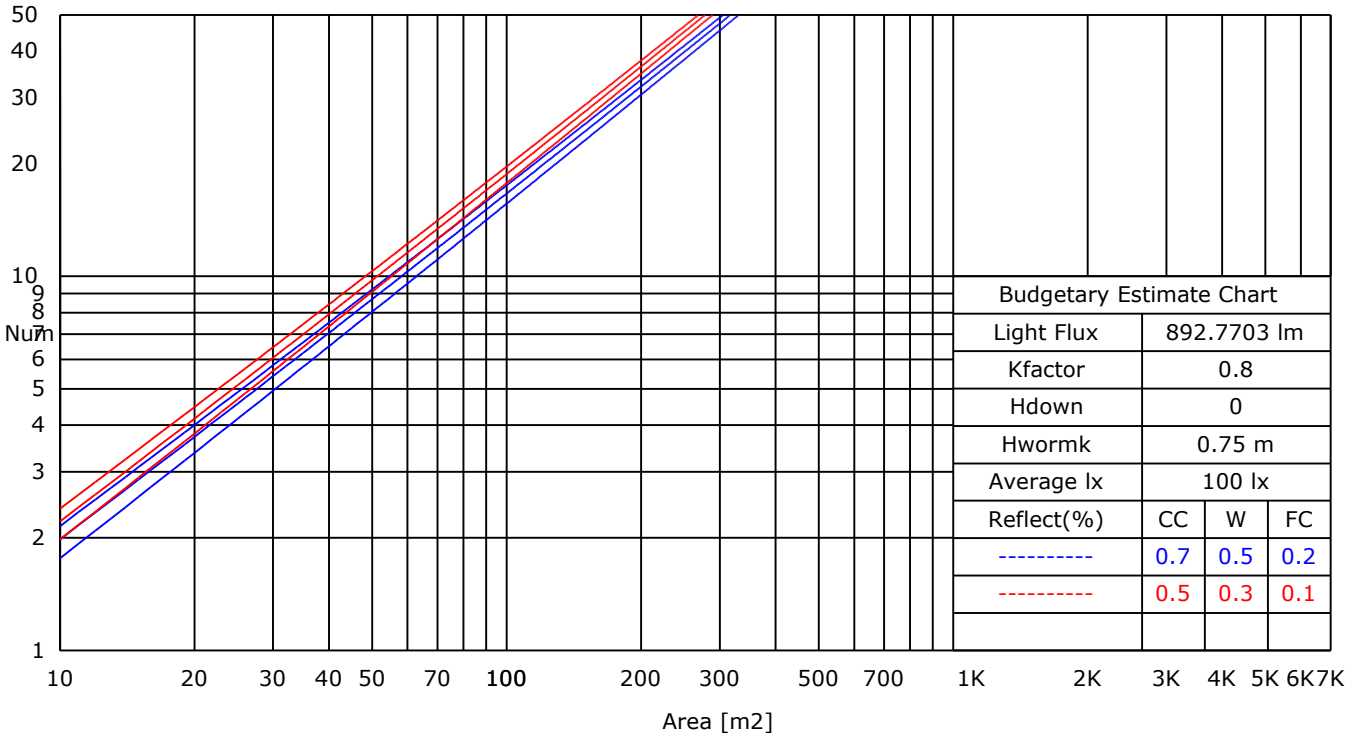
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UTILIZATION FACTORS TABLE

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	0.94	0.91	0.89	0.93	0.90	0.87	0.90	0.87	0.84	0.86	0.83	0.79	0.81	0.77	0.74	0.69
2	0.90	0.88	0.86	0.90	0.87	0.84	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.87	0.85	0.84	0.87	0.84	0.82	0.84	0.81	0.78	0.81	0.78	0.74	0.77	0.73	0.70	0.65
4	0.85	0.83	0.81	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
5	0.83	0.81	0.80	0.82	0.79	0.78	0.80	0.77	0.74	0.77	0.74	0.70	0.74	0.70	0.66	0.62
6	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
8	0.77	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.59
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.69	0.71	0.68	0.65	0.69	0.64	0.61	0.58
10	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



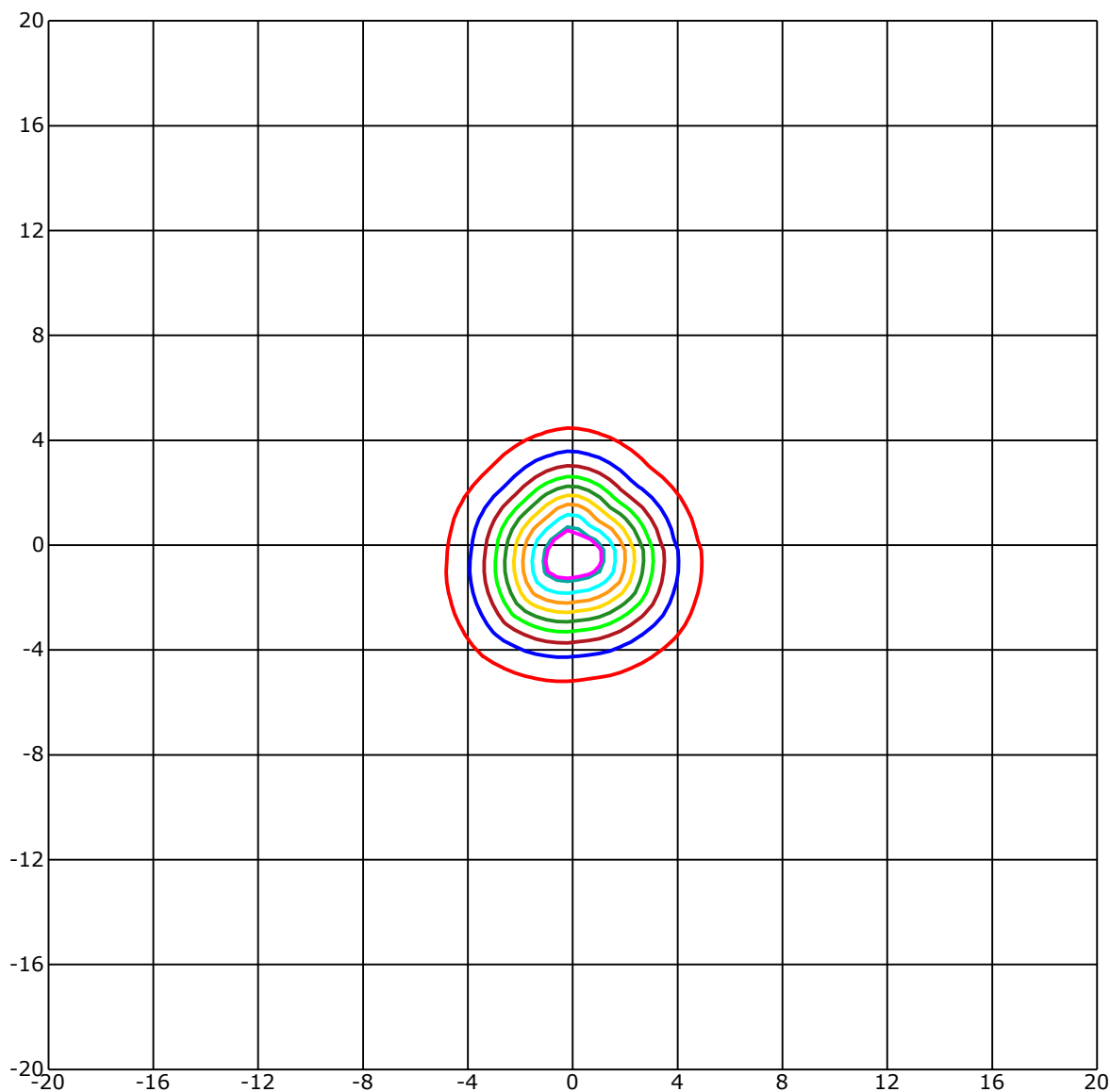
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 9:27:42

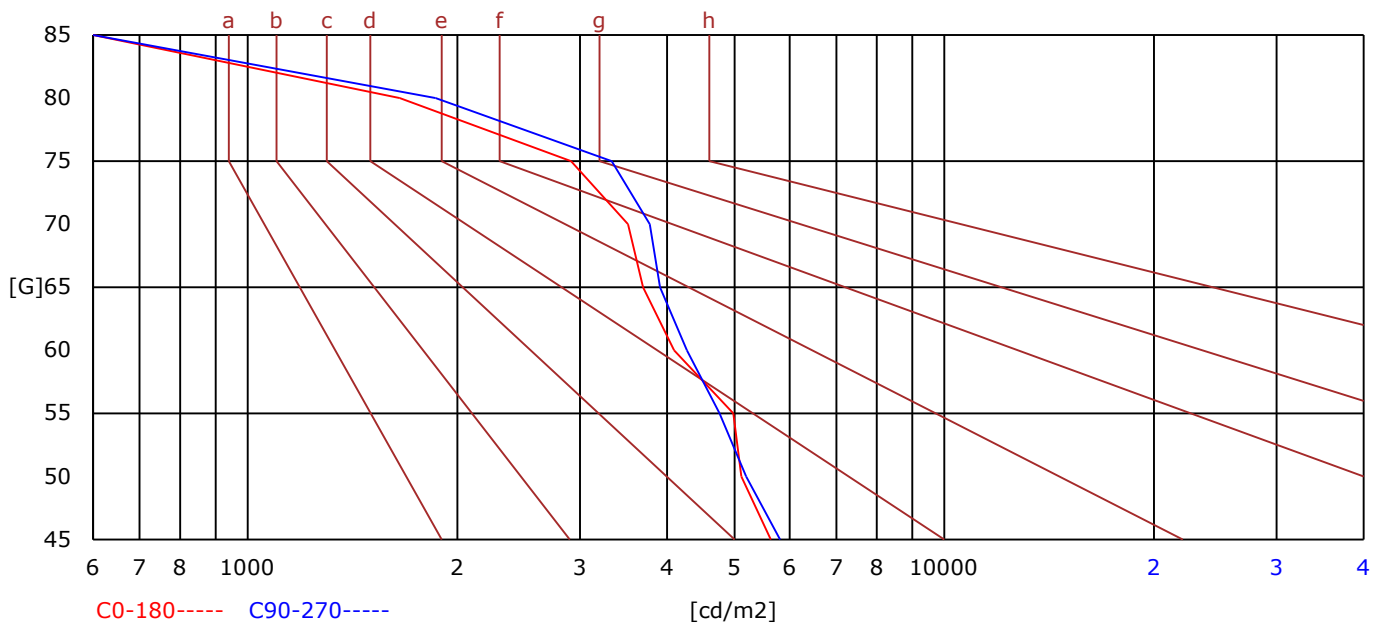
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5637	5112	4978	4094	3696	3517	2914	1654	0
C90	5815	5196	4758	4274	3909	3780	3330	1861	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



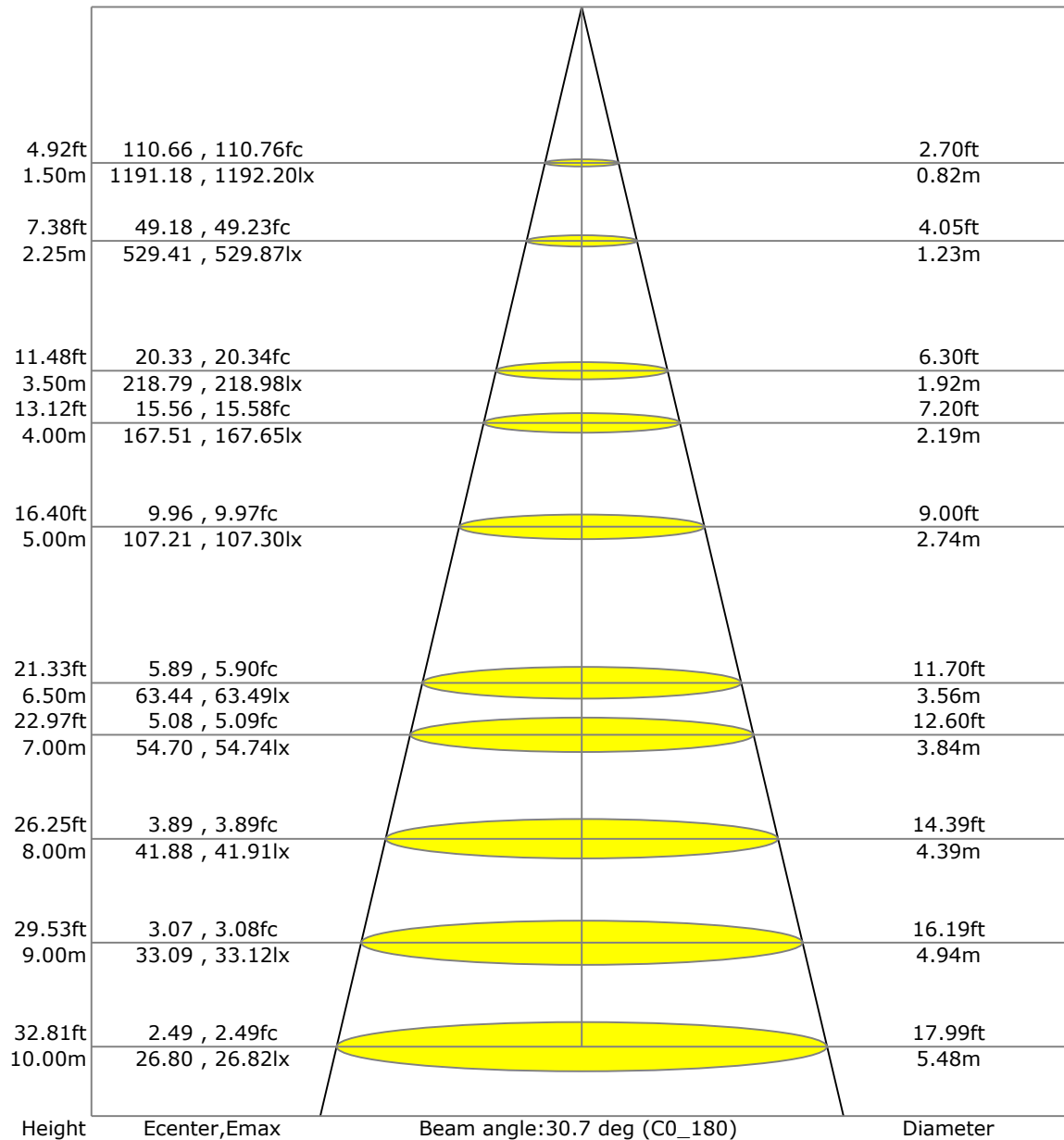
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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Humidity: 60
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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	6.86	6.91	7.06	7.10	7.34	7.13	7.18	7.33	7.37	7.61
	3H	6.93	6.98	7.13	7.17	7.42	7.17	7.22	7.37	7.42	7.66
	4H	6.94	6.99	7.15	7.19	7.44	7.17	7.22	7.38	7.42	7.67
	6H	6.93	6.98	7.14	7.19	7.44	7.16	7.21	7.37	7.41	7.66
	8H	6.92	6.98	7.14	7.18	7.43	7.15	7.21	7.37	7.41	7.66
	12H	6.91	6.97	7.13	7.17	7.43	7.14	7.20	7.36	7.40	7.66
4H	2H	7.82	7.88	8.03	8.07	8.32	8.53	8.58	8.74	8.78	9.03
	3H	7.97	8.03	8.20	8.24	8.49	8.65	8.70	8.87	8.91	9.17
	4H	8.00	8.06	8.23	8.27	8.53	8.66	8.72	8.89	8.93	9.19
	6H	8.01	8.06	8.25	8.28	8.55	8.65	8.71	8.89	8.93	9.19
	8H	8.00	8.06	8.24	8.28	8.55	8.64	8.70	8.88	8.92	9.19
	12H	7.99	8.04	8.24	8.27	8.54	8.63	8.68	8.88	8.91	9.18
8H	4H	8.08	8.14	8.30	8.34	8.60	8.99	9.04	9.20	9.25	9.50
	6H	8.33	8.38	8.58	8.62	8.89	9.20	9.26	9.46	9.50	9.77
	8H	8.32	8.37	8.58	8.61	8.89	9.19	9.24	9.45	9.49	9.77
	12H	8.30	8.35	8.57	8.61	8.89	9.17	9.22	9.44	9.48	9.76
12H	4H	8.34	8.40	8.59	8.63	8.90	9.30	9.35	9.55	9.58	9.85
	6H	8.34	8.39	8.60	8.64	8.92	9.29	9.35	9.56	9.59	9.87

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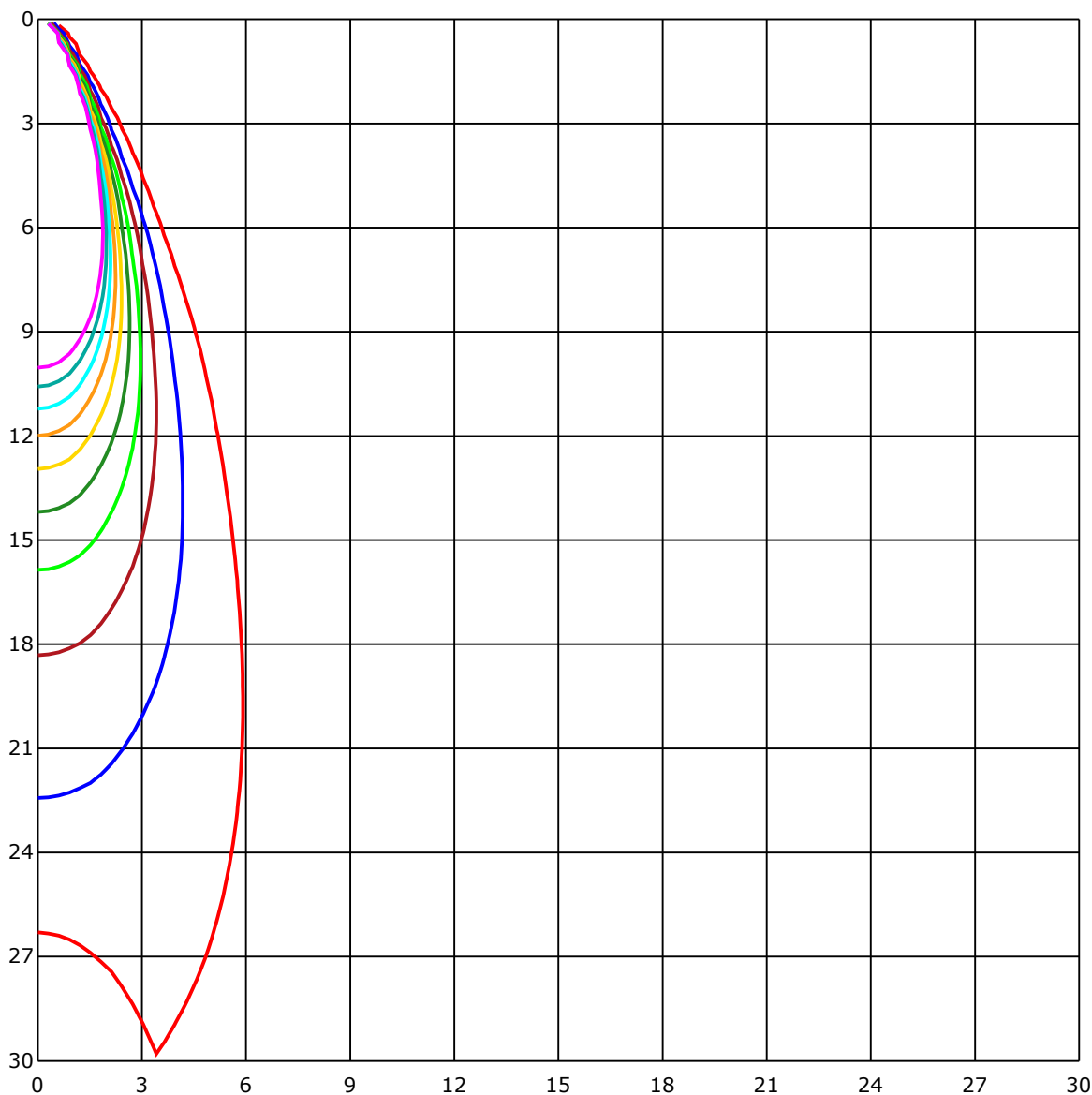
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

26.641	13.32
23.977	10.656
21.312	7.992
18.648	5.328
15.984	2.664

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2680.16	2604.43	2656.55	2632.66	2680.16	2604.43	2656.55	2632.66	2680.16	
G1	2674.37	2553.84	2627.41	2588.45	2673.11	2641.96	2674.91	2655.47	2674.37	
G2	2659.51	2483.09	2581.58	2537.05	2652.73	2663.1	2678.14	2671.76	2659.51	
G3	2628.71	2411.72	2525.29	2467.87	2619.56	2678.41	2676.66	2670.51	2628.71	
G4	2593.43	2314.53	2451.17	2383.7	2574.53	2682.45	2652.91	2671.05	2593.43	
G5	2533.73	2216.85	2370.06	2286.83	2505.76	2666.42	2622.65	2644.07	2533.73	
G6	2458.67	2105.03	2267.93	2189.42	2427.88	2644.83	2578.71	2620.72	2458.67	
G7	2370.37	1989.3	2167.83	2074.41	2339.71	2601.56	2515.05	2558.95	2370.37	
G8	2271.52	1863.12	2054.93	1956.71	2242.66	2544.59	2435.78	2493.33	2271.52	
G9	2165.76	1741.46	1935.75	1829.76	2137.08	2479.81	2352.51	2408.53	2165.76	
G10	2056.1	1609.35	1805.3	1703.08	2019.06	2406.6	2252.54	2323.01	2056.1	
G11	1933.14	1472.39	1671.48	1567.83	1894.04	2305.6	2147.18	2221.7	1933.14	
G12	1805.84	1337.09	1539.28	1431.45	1767.72	2205.58	2027.95	2112.16	1805.84	
G13	1672.6	1206.37	1404.47	1292.88	1635.66	2090.21	1903.2	1993.25	1672.6	
G14	1538.96	1076.28	1273.57	1164.67	1499.46	1970.13	1773.2	1870.66	1538.96	
G15	1402.95	955.71	1145.01	1037.63	1366.5	1849.11	1640.51	1738.41	1402.95	
G16	1269.18	842.5	1020.93	920.07	1235.42	1718.88	1506.02	1612.72	1269.18	
G17	1134.95	739.52	902.92	807.39	1107.03	1586.1	1371.88	1474.68	1134.95	
G18	1009.35	646.19	793.39	708.9	983.23	1447.25	1241.34	1344.37	1009.35	
G19	891.87	564.18	697.68	619.53	868.26	1318.73	1111.61	1211.09	891.87	
G20	784.18	492.44	610.86	540.74	767.57	1185.72	983.05	1082.52	784.18	
G21	685.02	428.83	536.3	473.23	672.14	1060.12	870.42	959.43	685.02	
G22	598.7	371.64	466.0	412.49	589.5	942.65	766.81	846.8	598.7	
G23	521.04	320.56	406.43	357.55	516.28	834.28	673.53	746.52	521.04	
G24	453.43	270.78	351.62	308.08	449.71	729.69	586.98	650.55	453.43	
G25	394.13	227.5	302.06	263.46	391.4	641.88	511.79	567.59	394.13	
G26	340.67	191.5	256.86	224.14	340.4	560.23	446.43	495.59	340.67	
G27	289.9	162.28	218.3	191.68	292.77	490.06	387.18	430.58	289.9	
G28	243.71	137.32	186.65	163.89	251.92	428.43	333.4	374.52	243.71	
G29	200.16	116.76	160.84	139.56	217.31	373.8	283.17	321.46	200.16	
G30	167.39	100.1	138.22	119.86	187.64	321.91	237.96	272.8	167.39	
G31	141.45	86.5	119.18	102.66	162.55	275.58	200.88	228.8	141.45	
G32	120.35	74.11	102.75	88.3	140.33	236.26	170.54	193.61	120.35	
G33	103.38	63.79	89.6	75.42	120.17	202.32	146.07	164.3	103.38	
G34	88.93	55.12	77.79	65.05	103.61	173.81	125.11	139.92	88.93	
G35	76.67	47.36	67.92	56.02	89.33	150.38	106.88	120.62	76.67	
G36	66.08	40.45	59.3	47.63	77.7	128.97	91.17	103.97	66.08	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	57.14	34.66	51.67	39.77	67.6	111.78	78.47	90.32	57.14	
G38	49.83	29.27	44.44	33.89	58.72	96.74	67.83	79.63	49.83	
G39	42.38	24.69	38.56	28.19	50.68	84.44	58.54	69.13	42.38	
G40	36.18	20.6	32.99	23.3	43.27	72.99	50.01	60.51	36.18	
G41	30.97	17.24	28.19	19.12	36.63	63.16	42.6	52.66	30.97	
G42	26.57	14.32	24.2	15.58	31.24	54.54	36.23	45.65	26.57	
G43	22.4	12.52	20.92	13.11	26.44	46.55	30.57	39.95	22.4	
G44	18.85	10.91	18.54	11.45	22.45	39.86	25.14	34.48	18.85	
G45	15.76	9.97	16.52	10.28	19.48	34.07	20.87	29.9	15.76	
G46	13.69	9.56	15.4	9.74	17.51	28.91	17.19	25.72	13.69	
G47	12.08	9.02	14.63	9.11	16.03	24.6	14.19	22.18	12.08	
G48	11.0	8.66	13.87	8.93	15.08	21.01	12.3	19.66	11.0	
G49	10.32	8.48	13.47	8.62	14.36	18.67	10.73	17.73	10.32	
G50	9.83	8.21	12.97	8.35	13.87	16.7	9.83	16.34	9.83	
G51	9.43	8.17	12.39	7.95	13.38	15.44	9.29	15.49	9.43	
G52	9.25	7.86	12.03	7.77	12.79	14.59	8.89	14.5	9.25	
G53	8.89	7.54	11.67	7.72	12.39	14.05	8.62	14.05	8.89	
G54	8.71	7.23	11.13	7.18	11.99	13.47	8.3	13.47	8.71	
G55	8.3	7.14	10.82	6.82	11.54	12.84	7.9	12.88	8.3	
G56	8.17	6.69	10.15	6.51	11.04	12.48	7.68	12.34	8.17	
G57	7.77	6.46	9.88	6.28	10.59	12.17	7.63	12.08	7.77	
G58	7.32	6.02	9.47	6.06	10.23	11.63	7.14	11.76	7.32	
G59	6.96	5.43	9.11	5.57	9.65	11.18	6.73	11.0	6.96	
G60	6.73	5.12	8.48	5.34	9.38	10.64	6.33	10.55	6.73	
G61	6.24	5.07	8.13	4.89	8.8	10.23	6.19	10.28	6.24	
G62	5.66	4.67	7.81	4.71	8.39	9.65	5.93	9.74	5.66	
G63	5.16	4.4	7.45	4.35	7.81	9.38	5.61	9.43	5.16	
G64	4.89	4.13	7.09	4.26	7.68	8.8	5.34	8.66	4.89	
G65	4.71	3.91	6.87	4.13	7.18	8.26	4.8	8.17	4.71	
G66	4.62	3.86	6.55	3.86	6.91	7.68	4.58	7.72	4.62	
G67	4.31	3.55	6.24	3.73	6.78	7.54	4.53	7.5	4.31	
G68	4.22	3.28	5.97	3.5	6.33	7.09	4.17	7.23	4.22	
G69	3.86	3.28	5.79	3.46	5.88	6.96	4.04	6.96	3.86	
G70	3.77	3.01	5.34	3.23	5.66	6.51	3.82	6.69	3.77	
G71	3.64	3.01	5.03	2.83	5.48	6.37	3.64	6.28	3.64	
G72	3.37	2.6	4.89	2.69	5.25	5.97	3.37	5.97	3.37	
G73	3.14	2.47	4.67	2.51	4.98	5.7	3.14	5.57	3.14	

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