

Report No.:

Test Time: 2024/7/23 17:19:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT120-45°-28W
Lamp Type:
Luminous Width: 111 mm
Luminous Length: 111 mm
Luminous Height: 97 mm

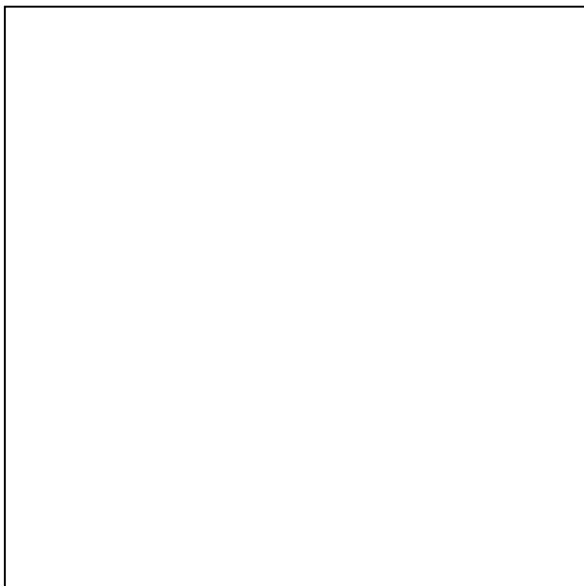
Voltage(V): 219.70 V
Current(A): 0.1330 A
Power(W): 27.96 W
Power Factor: 0.9560
Lamp Luminous Flux: 2671.94

Photometric Results

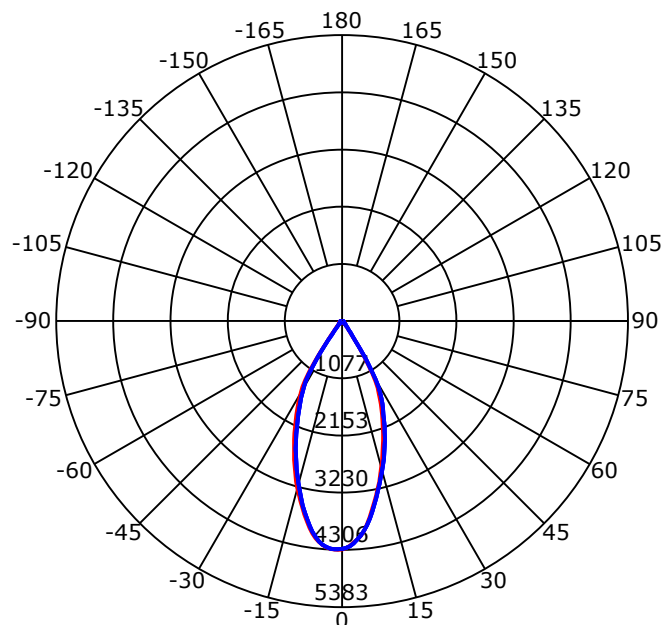
CIE Class: Direct
Luminaire Luminous Flux: 2671.935 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.56 lm/W
Beam Angle(50%) C0-180,C90-270: 45.1,45.2
Field Angle(10%) C0-180,C90-270: 70.7,70.4
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 4306.25 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4302.35 cd
Effective Luminous Flux: 2433.54 lm
ERP(ϕ use)(120deg): 2632.47 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 45.1 deg,45.2 deg

C0-180 — C90-270 —

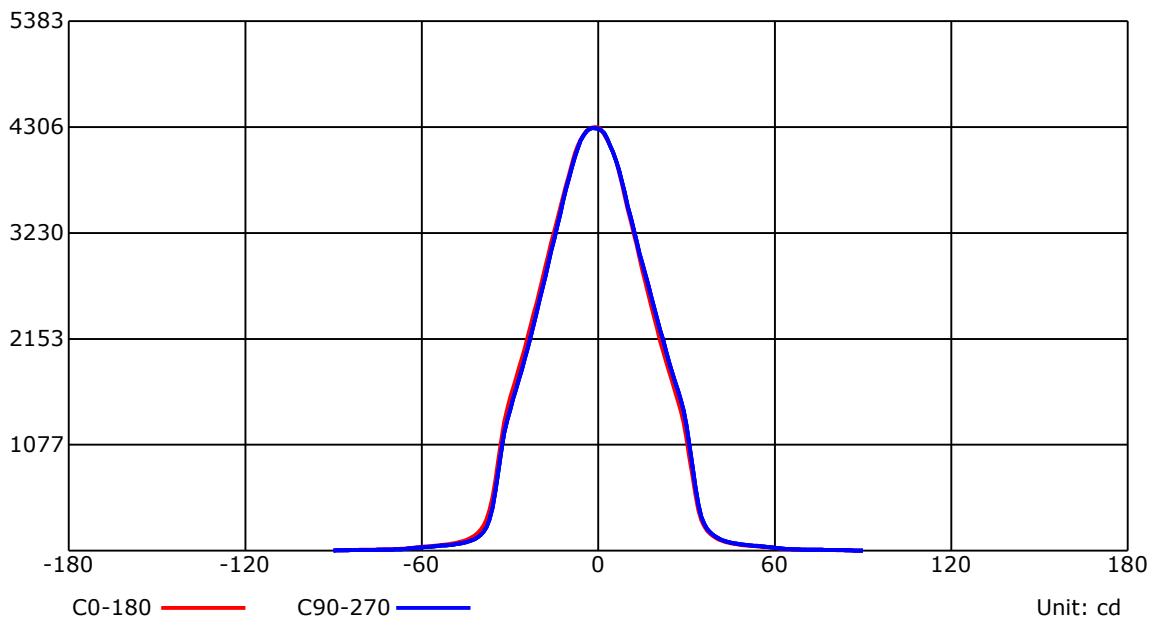
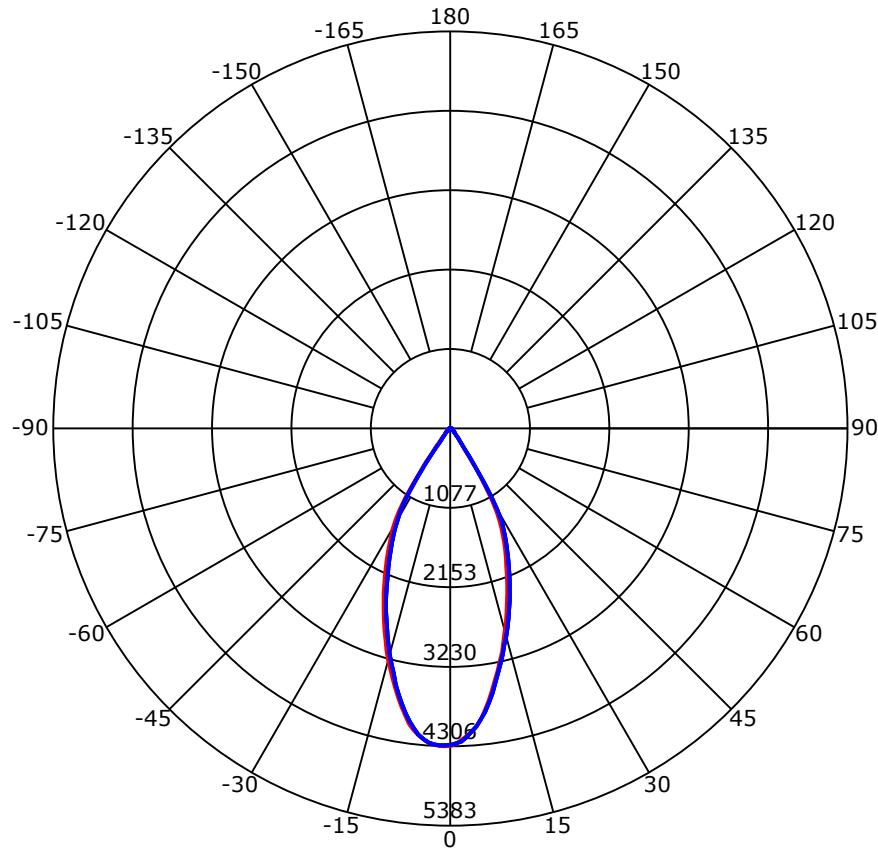
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

Luminous Intensity Distribution Curve



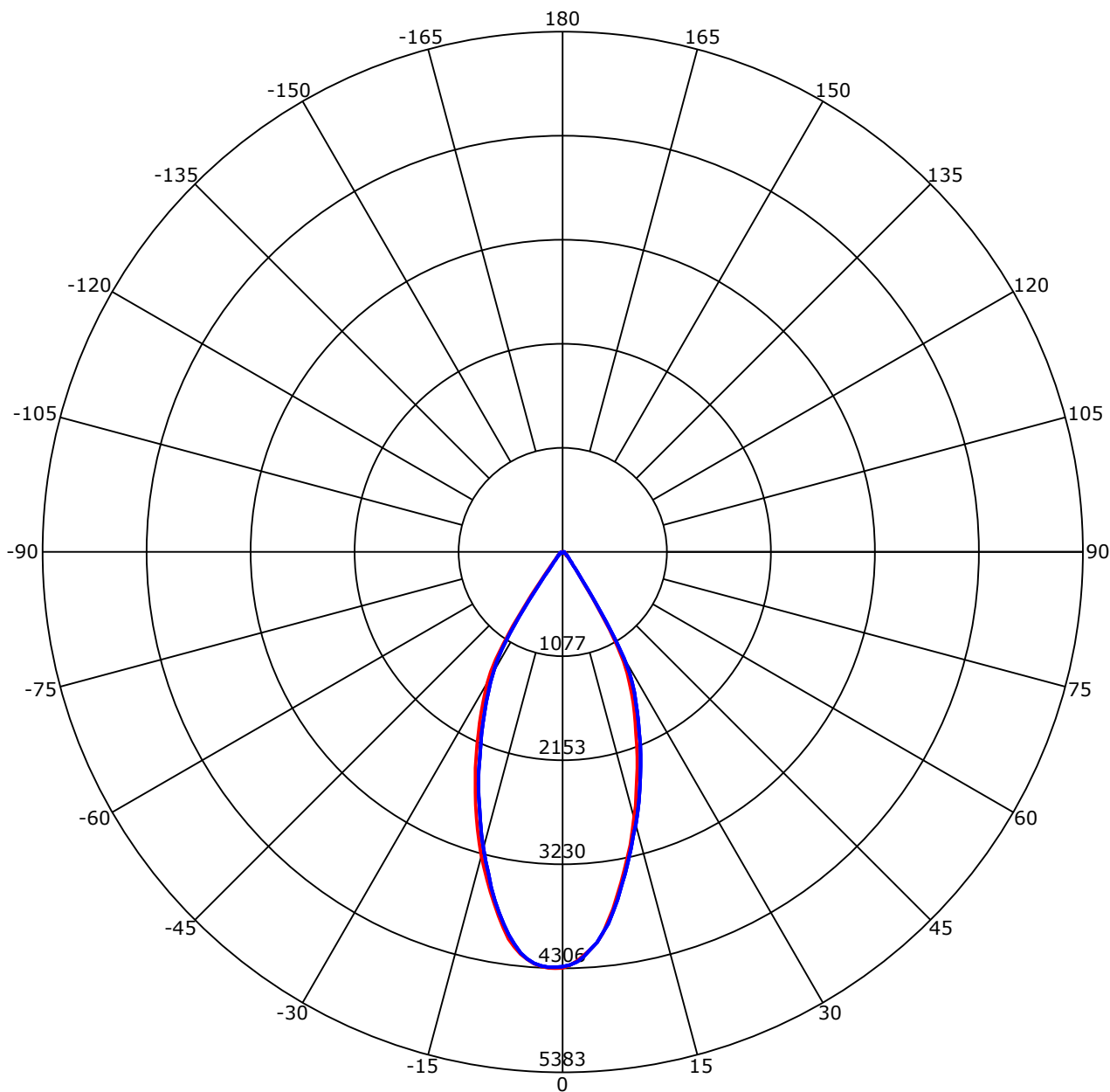
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

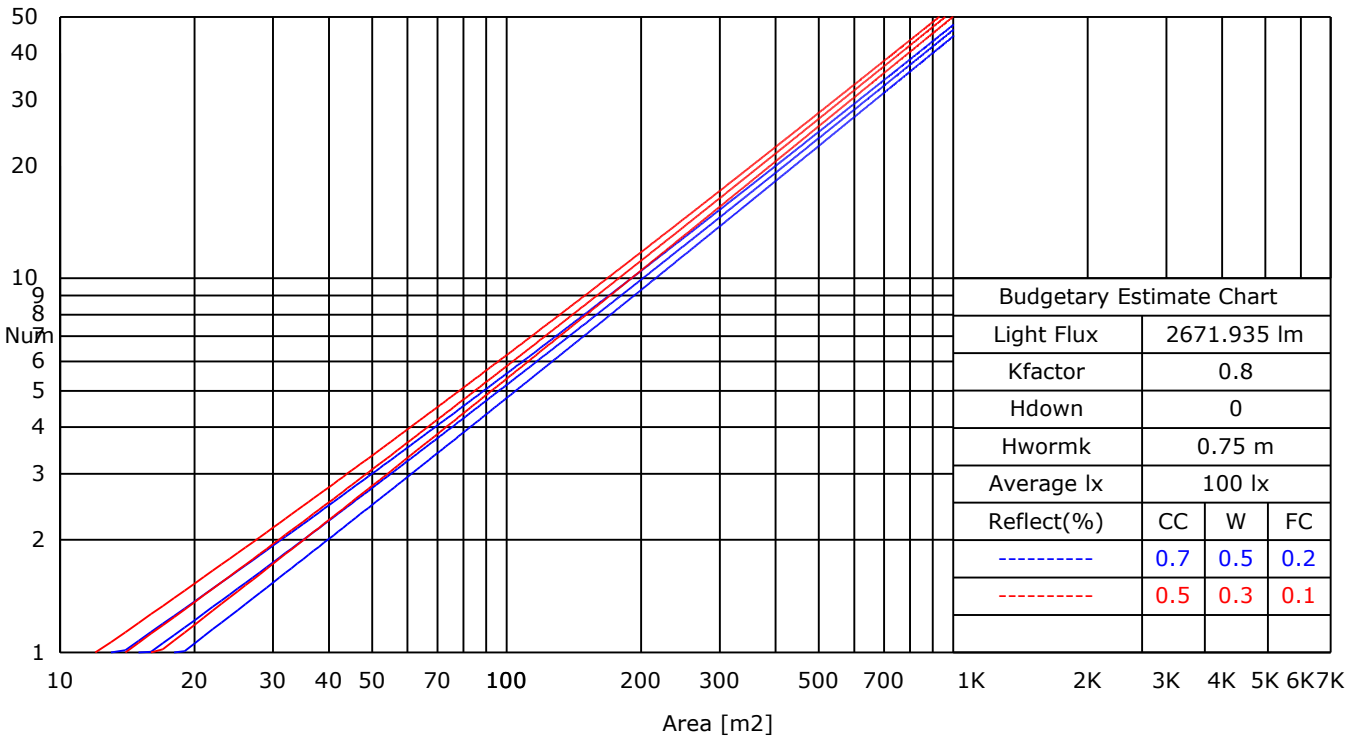
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.86	0.83	0.78
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.79	0.75
3	0.95	0.93	0.92	0.94	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.77	0.73	0.69
5	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.80	0.82	0.78	0.75	0.78	0.74	0.71	0.67
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.71	0.74	0.70	0.66	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



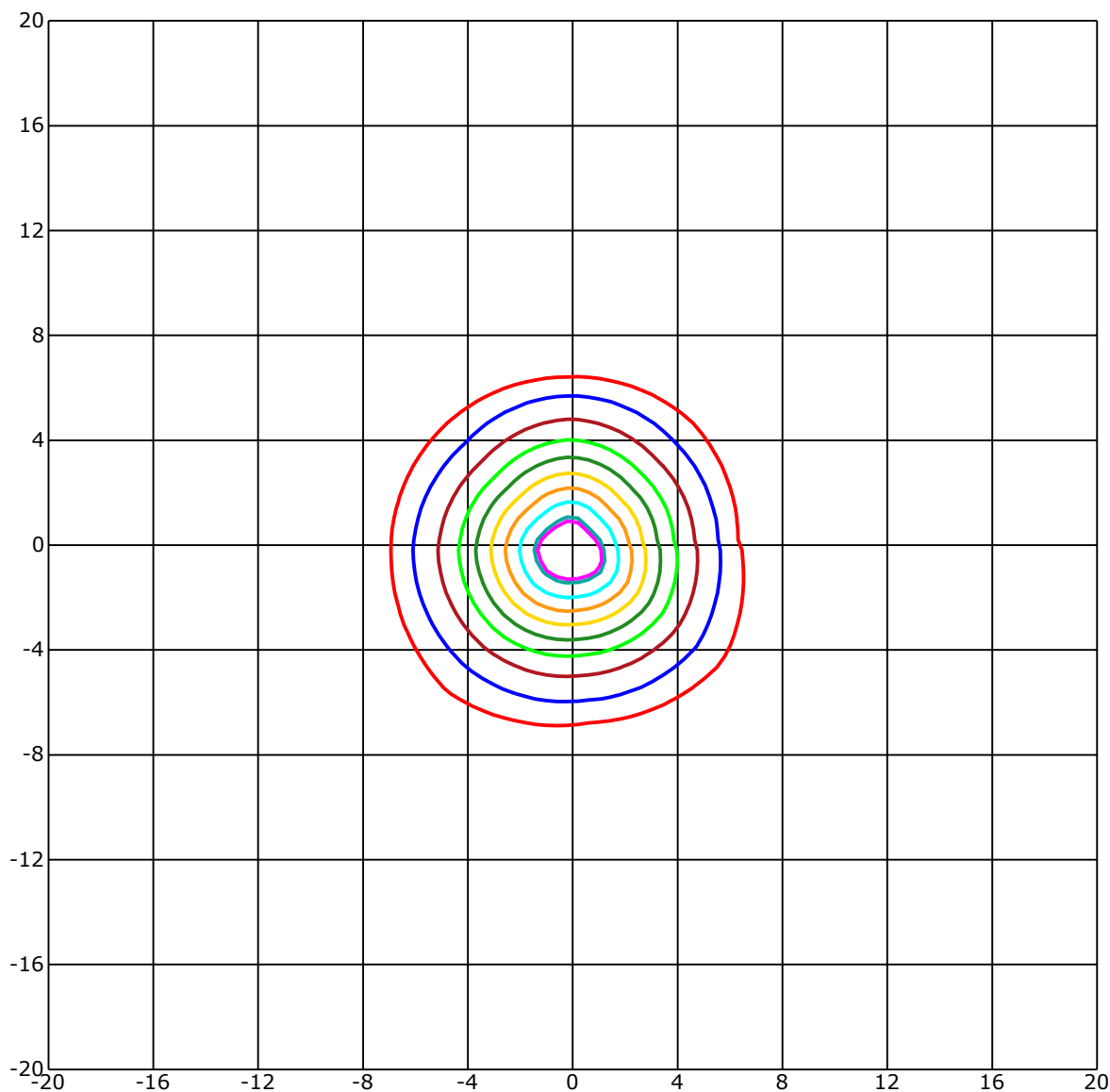
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

ISOLX DIAGRAM



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

39.599(92%Emax)	21.521(50%Emax)
38.739(90%Emax)	17.217(40%Emax)
34.434(80%Emax)	12.913(30%Emax)
30.13(70%Emax)	8.609(20%Emax)
25.826(60%Emax)	4.304(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

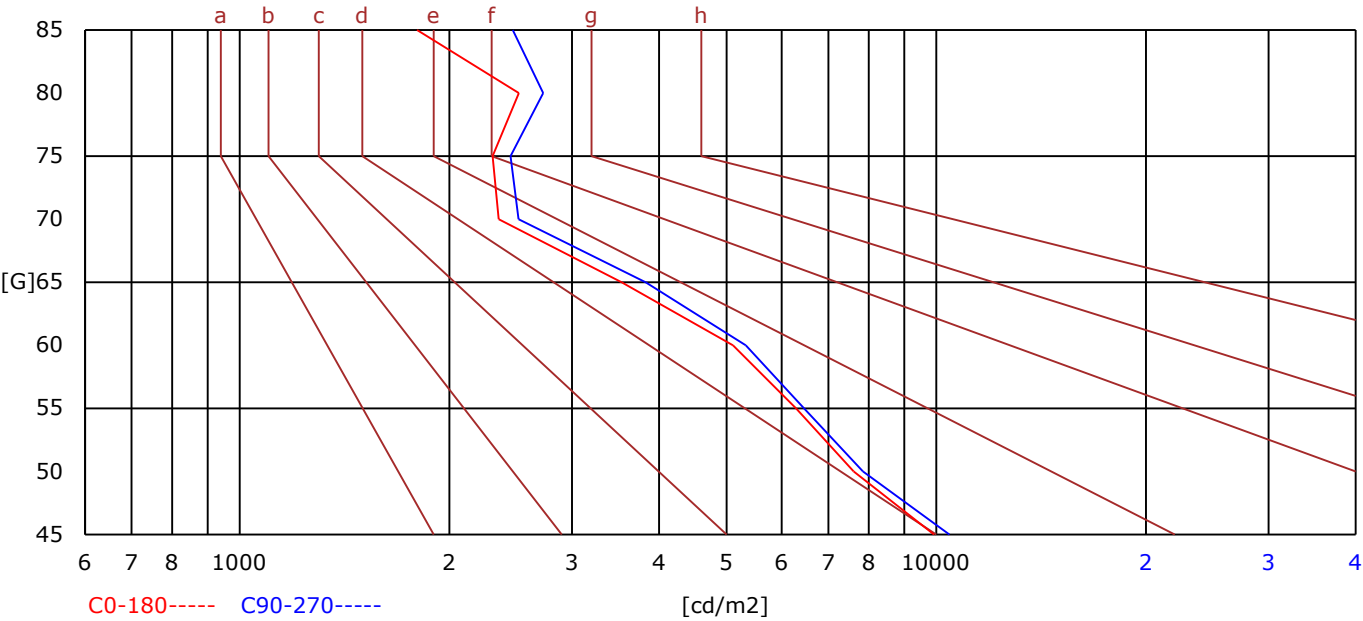
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

Test Time: 2024/7/23 17:19:26

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9929	7612	6295	5108	3535	2354	2309	2518	1798
C90	10439	7850	6460	5327	3828	2514	2449	2728	2466
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



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

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	9.08	9.13	9.28	9.31	9.56	9.12	9.17	9.32	9.36	9.60
3H	9.06	9.11	9.27	9.30	9.55	9.10	9.16	9.31	9.35	9.59
4H	9.05	9.10	9.26	9.29	9.54	9.09	9.14	9.30	9.34	9.59
6H	9.03	9.08	9.25	9.28	9.53	9.07	9.13	9.29	9.33	9.58
8H	9.02	9.07	9.24	9.28	9.53	9.07	9.12	9.28	9.32	9.57
12H	9.01	9.06	9.23	9.27	9.52	9.06	9.11	9.28	9.31	9.57
4H 2H	9.18	9.23	9.39	9.43	9.68	9.27	9.32	9.48	9.51	9.76
3H	9.18	9.23	9.40	9.44	9.69	9.27	9.32	9.49	9.52	9.78
4H	9.17	9.22	9.40	9.44	9.70	9.26	9.31	9.48	9.52	9.78
6H	9.16	9.21	9.40	9.43	9.69	9.24	9.29	9.48	9.51	9.77
8H	9.15	9.20	9.39	9.42	9.69	9.23	9.28	9.47	9.50	9.77
12H	9.13	9.18	9.38	9.41	9.68	9.21	9.26	9.46	9.49	9.76
8H 4H	9.23	9.28	9.45	9.48	9.74	9.34	9.39	9.55	9.59	9.84
6H	9.25	9.29	9.50	9.53	9.80	9.36	9.41	9.62	9.65	9.92
8H	9.24	9.28	9.50	9.53	9.80	9.35	9.39	9.61	9.64	9.92
12H	9.22	9.27	9.49	9.52	9.80	9.34	9.38	9.61	9.63	9.91
12H 4H	9.27	9.32	9.52	9.55	9.82	9.41	9.46	9.66	9.69	9.96
6H	9.27	9.32	9.53	9.56	9.84	9.41	9.45	9.67	9.70	9.97

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

ZONAL LUMINOUS FLUX TABLE

[illegible]

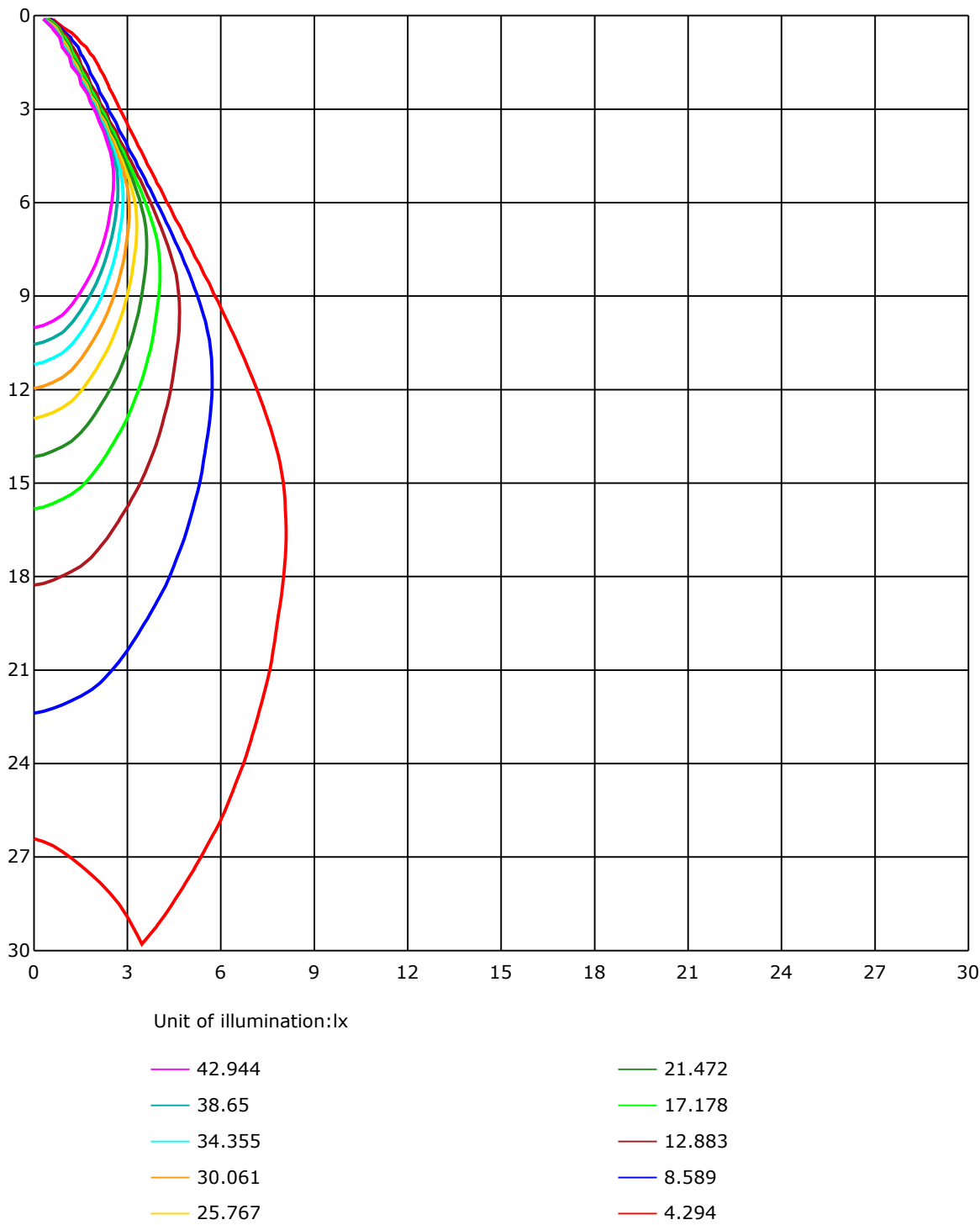
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4302.35	4238.87	4288.66	4282.46	4302.35	4238.87	4288.66	4282.46	4302.35	
G1	4276.09	4210.28	4271.1	4254.72	4306.25	4252.56	4294.49	4301.27	4276.09	
G2	4229.98	4153.85	4243.23	4223.03	4304.73	4258.62	4296.42	4299.74	4229.98	
G3	4176.21	4087.82	4189.85	4179.98	4291.21	4264.33	4286.5	4286.55	4176.21	
G4	4119.78	4016.85	4119.11	4116.59	4269.44	4268.23	4264.1	4266.7	4119.78	
G5	4055.68	3920.65	4054.2	4044.36	4230.43	4244.44	4224.42	4246.33	4055.68	
G6	3965.04	3814.93	3961.32	3946.86	4180.74	4200.18	4171.09	4191.92	3965.04	
G7	3846.0	3705.85	3870.91	3838.68	4117.4	4145.55	4089.03	4122.88	3846.0	
G8	3729.96	3585.77	3754.78	3726.5	4041.22	4068.25	4001.32	4037.32	3729.96	
G9	3596.72	3458.01	3637.89	3597.4	3936.72	3976.22	3900.0	3932.01	3596.72	
G10	3469.37	3326.98	3502.32	3489.03	3825.48	3872.17	3788.09	3820.36	3469.37	
G11	3346.42	3201.15	3386.59	3368.19	3710.65	3775.65	3672.18	3697.19	3346.42	
G12	3221.35	3078.15	3264.72	3253.67	3597.13	3655.71	3551.16	3583.75	3221.35	
G13	3108.63	2971.76	3146.88	3134.04	3482.79	3537.56	3413.66	3458.86	3108.63	
G14	2976.43	2851.77	3020.65	3016.74	3366.75	3413.97	3296.45	3345.61	2976.43	
G15	2846.07	2738.78	2919.42	2903.93	3253.31	3307.59	3172.02	3231.36	2846.07	
G16	2730.93	2621.17	2811.15	2787.0	3135.34	3172.2	3045.52	3114.78	2730.93	
G17	2599.36	2511.51	2696.86	2665.16	3008.08	3049.65	2915.61	2976.07	2599.36	
G18	2479.5	2398.11	2576.78	2535.7	2889.88	2930.6	2785.38	2855.32	2479.5	
G19	2366.51	2289.61	2468.77	2418.9	2766.48	2807.74	2671.0	2727.79	2366.51	
G20	2255.86	2176.31	2356.23	2305.42	2645.28	2680.38	2550.78	2605.51	2255.86	
G21	2131.78	2062.25	2245.76	2192.11	2522.06	2556.22	2424.6	2490.86	2131.78	
G22	2021.44	1961.15	2143.23	2078.27	2410.37	2434.21	2293.21	2364.54	2021.44	
G23	1922.46	1862.76	2027.41	1970.76	2291.23	2315.07	2173.71	2245.4	1922.46	
G24	1824.87	1762.16	1920.75	1867.96	2179.99	2195.48	2062.52	2135.46	1824.87	
G25	1729.12	1670.67	1824.2	1762.92	2065.75	2085.23	1956.49	2023.37	1729.12	
G26	1629.69	1569.35	1728.58	1665.24	1963.67	1972.78	1845.38	1920.08	1629.69	
G27	1521.46	1472.57	1631.62	1558.45	1857.5	1867.51	1739.76	1815.53	1521.46	
G28	1421.31	1376.96	1533.26	1459.73	1751.34	1766.47	1637.63	1718.34	1421.31	
G29	1295.62	1277.75	1423.51	1361.65	1655.23	1664.16	1544.62	1622.19	1295.62	
G30	1128.71	1161.53	1270.57	1254.32	1558.4	1562.49	1431.14	1524.46	1128.71	
G31	938.25	1030.94	1070.36	1128.31	1444.47	1468.22	1327.71	1422.83	938.25	
G32	747.19	891.96	849.63	991.66	1307.51	1365.46	1190.8	1315.41	747.19	
G33	560.63	749.98	642.78	855.33	1124.94	1262.89	1006.97	1199.87	560.63	
G34	408.81	615.22	469.41	715.46	927.79	1144.43	804.29	1067.62	408.81	
G35	309.74	489.79	347.27	579.57	724.61	1006.3	609.56	927.65	309.74	
G36	247.03	383.54	273.25	459.36	546.58	863.41	437.14	782.3	247.03	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Report No.:

Test Time: 2024/7/23 17:19:26

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	202.05	296.41	223.46	355.75	410.07	726.77	312.84	646.15	202.05	
G38	170.36	231.59	187.77	271.36	319.71	592.19	239.22	522.65	170.36	
G39	146.07	188.36	160.3	212.82	258.79	470.54	191.37	407.15	146.07	
G40	128.34	159.18	139.83	174.4	214.13	367.11	159.49	315.58	128.34	
G41	113.08	136.2	123.09	146.34	182.48	288.51	137.14	247.93	113.08	
G42	100.69	118.06	109.49	126.5	158.55	231.9	119.5	202.05	100.69	
G43	90.36	104.64	98.35	111.64	138.35	193.12	105.72	170.99	90.36	
G44	82.6	94.45	89.69	100.06	122.55	164.57	94.76	148.68	82.6	
G45	75.59	86.5	83.0	90.95	109.8	143.74	85.78	132.16	75.59	
G46	69.76	79.86	76.67	83.45	99.52	127.4	78.83	119.0	69.76	
G47	65.05	74.16	71.82	77.26	90.9	114.96	73.4	109.13	65.05	
G48	60.87	69.27	67.56	71.82	83.36	105.04	68.37	101.63	60.87	
G49	57.23	64.55	63.88	66.35	77.03	97.41	63.74	94.36	57.23	
G50	53.87	60.29	60.2	62.17	71.82	90.27	60.06	87.49	53.87	
G51	50.77	56.74	56.97	58.81	67.29	84.39	56.79	81.34	50.77	
G52	48.08	53.28	53.91	55.08	63.38	78.51	53.96	75.91	48.08	
G53	44.98	50.28	51.13	51.89	59.79	73.75	51.4	71.33	44.98	
G54	42.51	46.87	48.48	48.93	56.79	69.36	48.39	67.29	42.51	
G55	39.91	44.49	45.34	45.65	53.37	65.76	45.88	63.38	39.91	
G56	37.53	41.52	42.56	43.18	50.64	61.77	43.14	60.06	37.53	
G57	35.06	39.1	40.09	40.22	47.85	58.63	40.81	56.56	35.06	
G58	32.64	36.45	37.12	37.8	44.53	54.99	38.47	53.82	32.64	
G59	29.76	33.85	33.98	35.15	41.88	52.07	36.23	50.73	29.76	
G60	27.2	31.47	31.2	32.81	39.5	49.02	33.71	47.9	27.2	
G61	24.2	28.91	28.42	30.26	36.59	46.06	31.15	44.58	24.2	
G62	20.6	26.22	24.64	27.79	33.85	43.23	28.59	41.97	20.6	
G63	16.74	23.61	20.51	25.09	31.2	40.54	26.04	39.28	16.74	
G64	14.59	20.83	18.23	22.71	28.24	38.02	23.12	36.59	14.59	
G65	13.29	18.4	16.7	19.93	24.2	35.1	19.26	33.89	13.29	
G66	12.3	15.67	15.22	17.51	21.1	32.55	16.07	30.97	12.3	
G67	11.13	13.11	14.36	14.81	19.17	29.63	14.81	28.15	11.13	
G68	10.41	11.63	13.06	12.93	17.78	26.89	13.69	25.27	10.41	
G69	9.52	10.68	12.03	11.72	16.34	24.29	12.66	22.36	9.52	
G70	9.02	9.92	11.18	10.59	15.22	21.68	11.49	19.84	9.02	
G71	8.44	9.2	10.5	9.74	14.01	19.21	10.77	17.82	8.44	
G72	8.26	8.53	10.28	9.07	13.11	17.69	10.23	16.83	8.26	
G73	8.17	8.04	10.23	8.35	12.34	16.56	9.56	15.53	8.17	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:19:26

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

Test Time: 2024/7/23 17:19:26

Remarks: