

Report No.:

Test Time: 2024/6/28 10:33:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H69-45°-10W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 65 mm

Voltage(V): 218.90 V
Current(A): 0.0550 A
Power(W): 11.18 W
Power Factor: 0.9200
Lamp Luminous Flux: 1122.12

Photometric Results

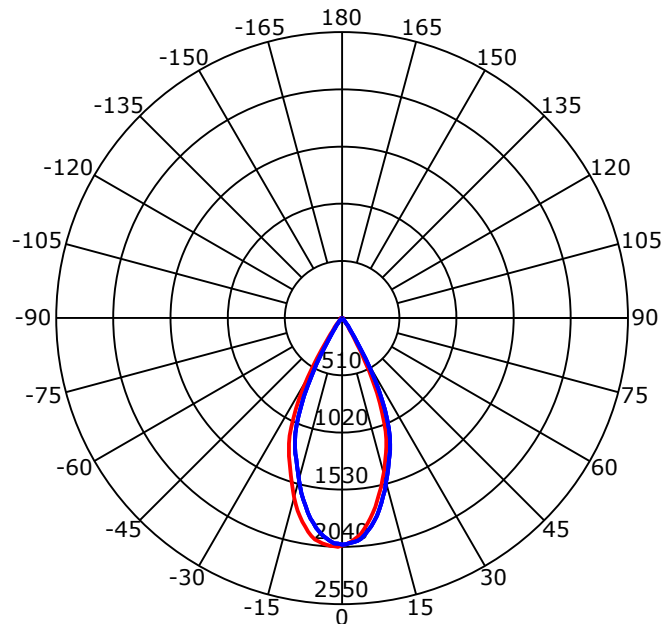
CIE Class: Direct
Luminaire Luminous Flux: 1122.115 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 100.41 lm/W
Beam Angle(50%) C0-180,C90-270: 47.4,47.0
Field Angle(10%) C0-180,C90-270: 66.4,65.3
S/MH C0-180,C90-270: 0.768,0.728

Max. Intensity: 2040.07 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2028.89 cd
Effective Luminous Flux: 1052.45 lm
ERP(ϕ use)(120deg): 1120.67 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.4 deg,47.0 deg

C0-180 — C90-270 —

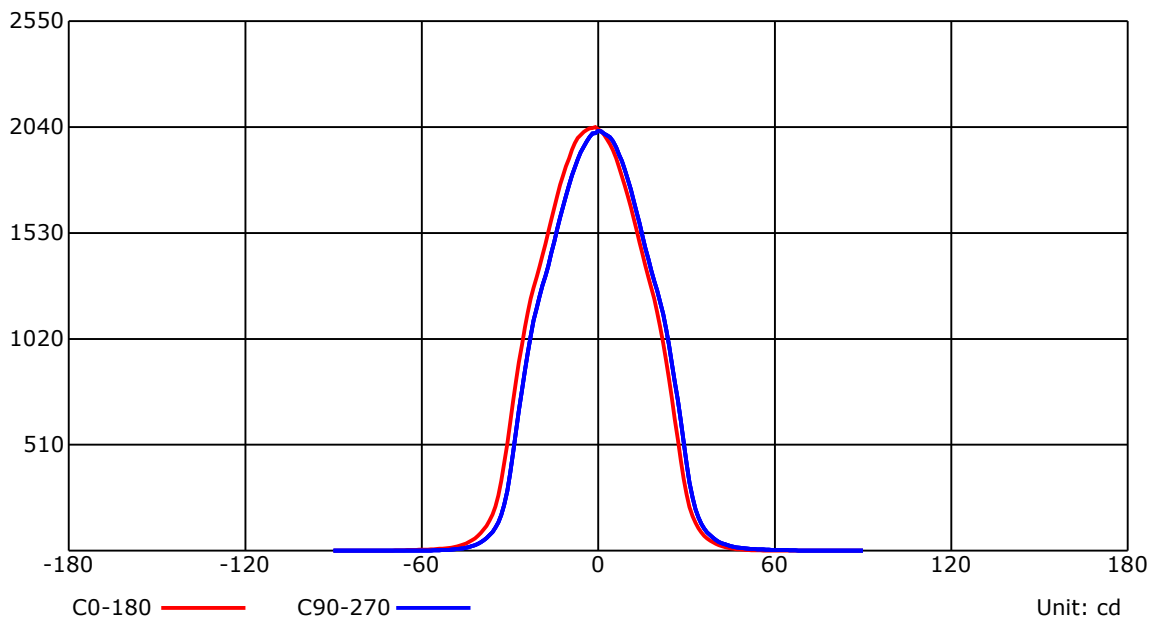
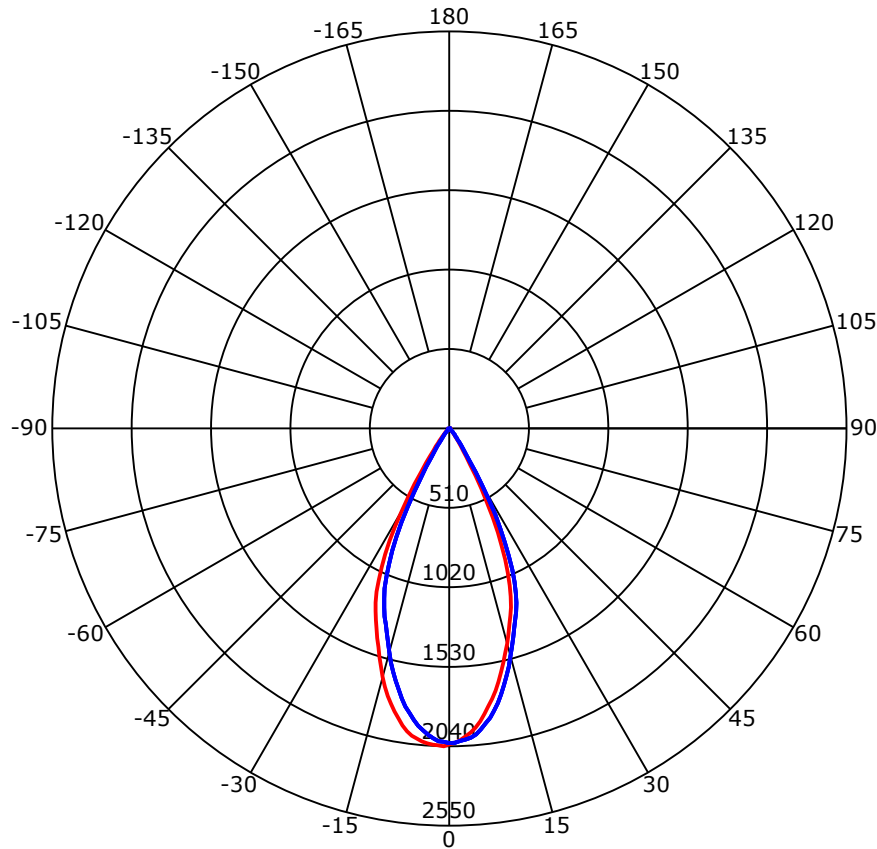
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

Luminous Intensity Distribution Curve



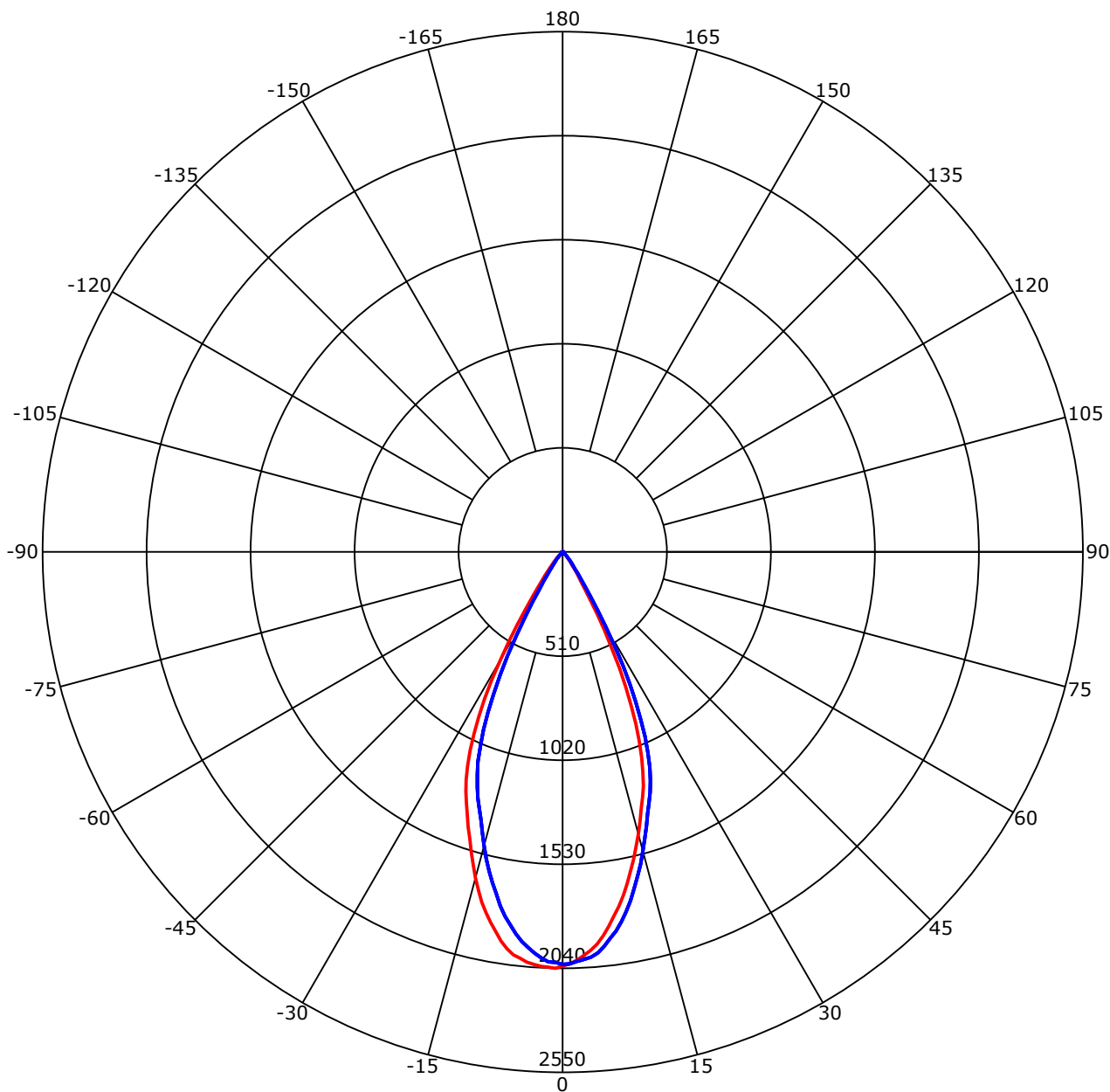
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

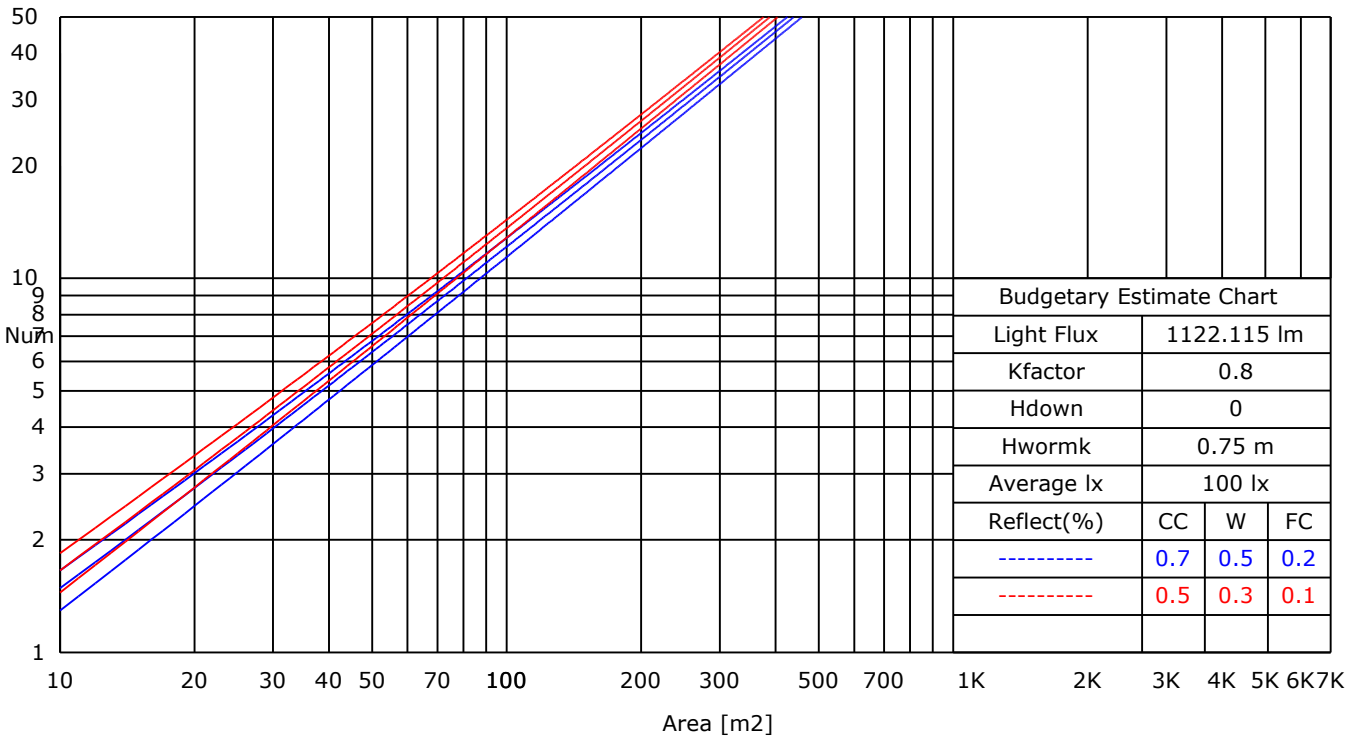
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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	1.03	1.01	1.00	1.02	1.00	0.98	0.98	0.96	0.94	0.94	0.91	0.89	0.87	0.85	0.83	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	0.96	0.94	0.93	0.94	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.73
4	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.71
5	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.83	0.80	0.78	0.80	0.76	0.73	0.69
6	0.88	0.87	0.86	0.87	0.85	0.84	0.84	0.82	0.80	0.81	0.78	0.76	0.78	0.74	0.71	0.67
7	0.86	0.85	0.84	0.85	0.83	0.82	0.82	0.80	0.78	0.79	0.76	0.74	0.76	0.72	0.69	0.66
8	0.84	0.83	0.82	0.83	0.81	0.80	0.80	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.68	0.64
9	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.63
10	0.80	0.79	0.78	0.79	0.78	0.77	0.77	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.65	0.62

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



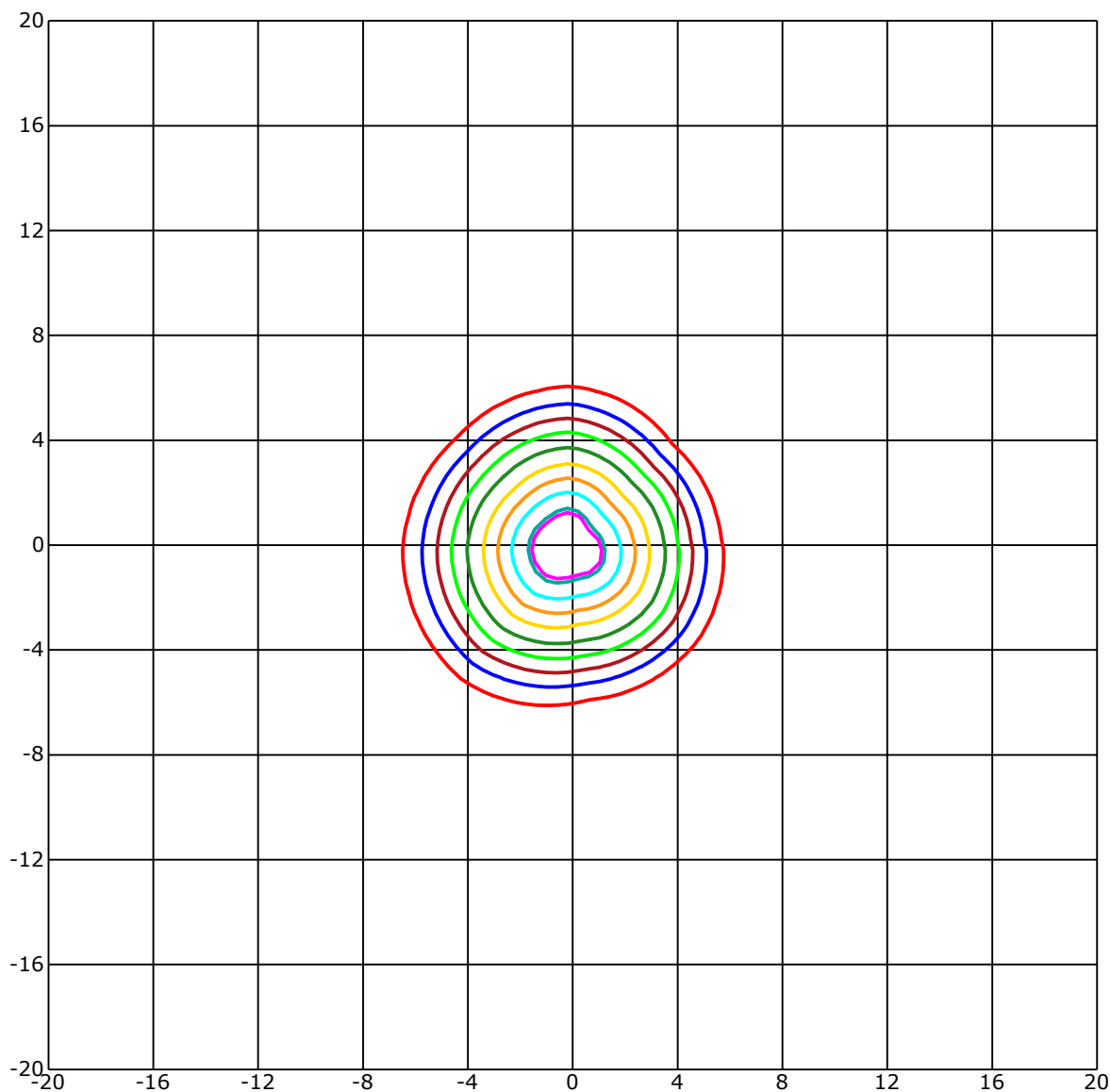
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

ISOLX DIAGRAM



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

18.76(92%Emax)	10.196(50%Emax)
18.352(90%Emax)	8.157(40%Emax)
16.313(80%Emax)	6.117(30%Emax)
14.274(70%Emax)	4.078(20%Emax)
12.235(60%Emax)	2.039(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

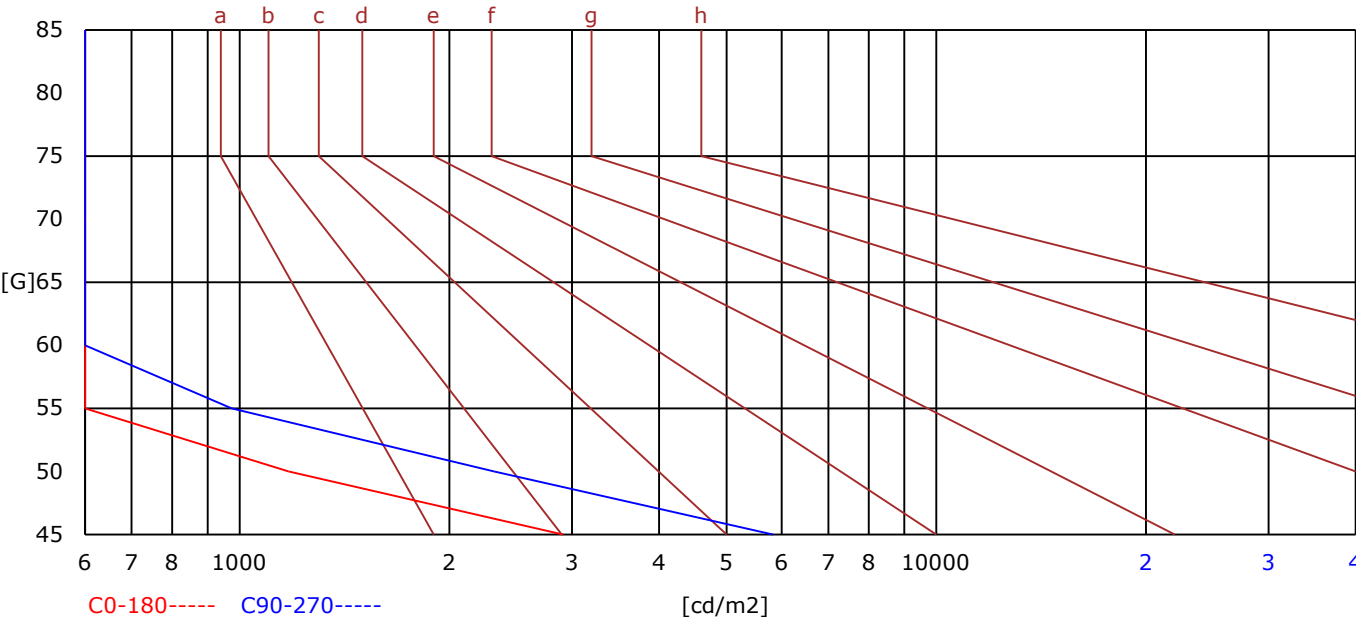
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

Test Time: 2024/6/28 10:33:05

BRIGHT LIMIT DIAGRAM

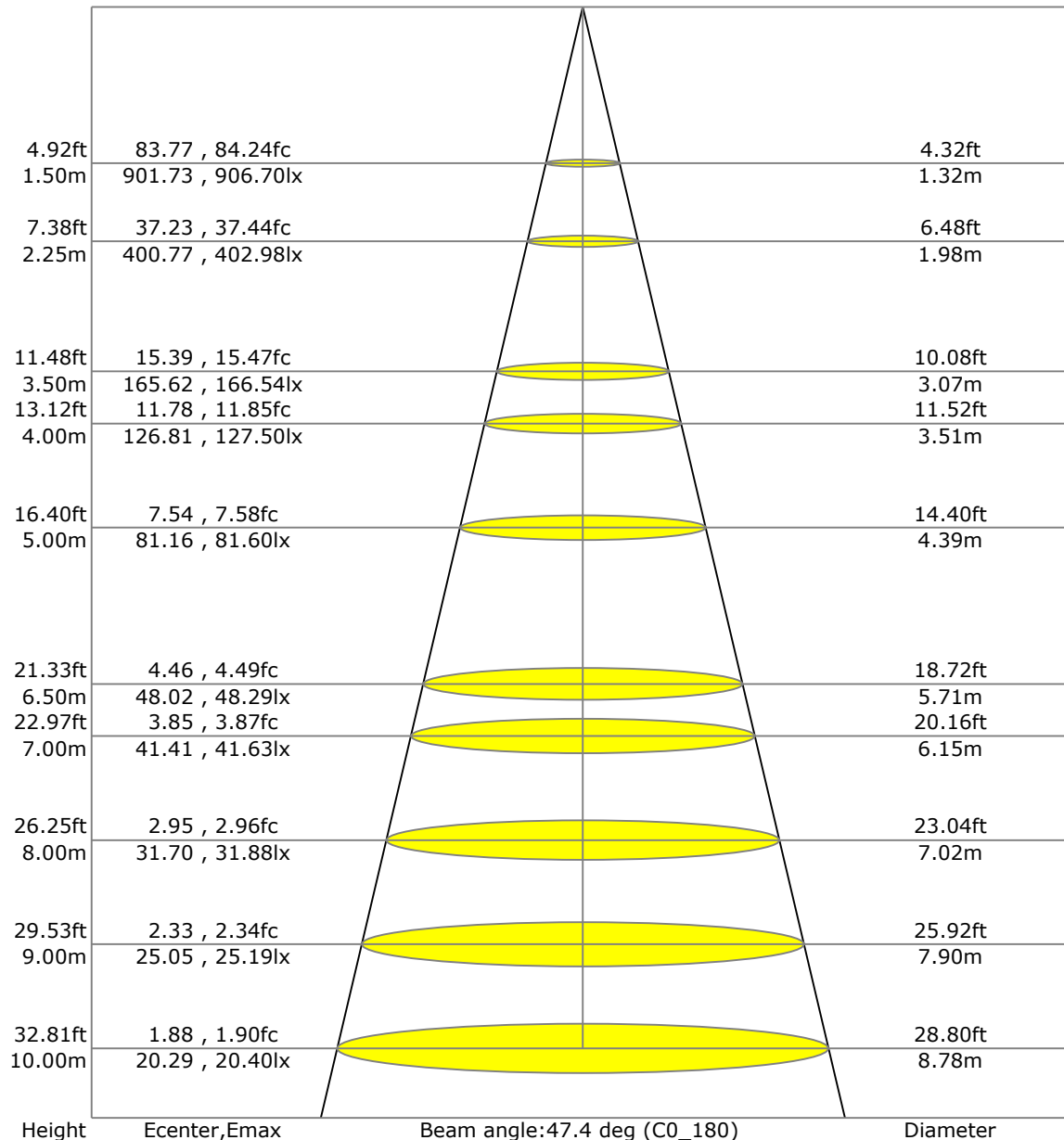
C/G	45	50	55	60	65	70	75	80	85
C0	2914	1176	287	0	0	0	0	0	0
C90	5828	2319	974	175	0	0	0	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



Report No.:

Test Time: 2024/6/28 10:33:05

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

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	4.28	4.33	4.48	4.51	4.76	4.48	4.52	4.68	4.71	4.95
3H	4.26	4.31	4.46	4.50	4.74	4.45	4.50	4.66	4.69	4.94
4H	4.24	4.29	4.45	4.49	4.74	4.44	4.49	4.65	4.68	4.93
6H	4.23	4.28	4.44	4.48	4.73	4.42	4.47	4.64	4.67	4.92
8H	4.22	4.27	4.44	4.47	4.72	4.41	4.46	4.63	4.67	4.92
12H	4.21	4.26	4.43	4.47	4.72	4.41	4.46	4.63	4.66	4.92
4H 2H	4.24	4.29	4.45	4.49	4.74	4.48	4.53	4.69	4.72	4.97
3H	4.21	4.26	4.43	4.47	4.72	4.44	4.50	4.67	4.70	4.96
4H	4.19	4.24	4.42	4.45	4.71	4.43	4.48	4.65	4.69	4.95
6H	4.17	4.22	4.41	4.44	4.70	4.40	4.45	4.64	4.67	4.94
8H	4.16	4.21	4.40	4.43	4.70	4.39	4.44	4.64	4.67	4.93
12H	4.15	4.19	4.39	4.42	4.69	4.38	4.43	4.63	4.66	4.93
8H 4H	4.22	4.27	4.44	4.47	4.72	4.45	4.50	4.67	4.71	4.96
6H	4.13	4.18	4.39	4.42	4.69	4.37	4.41	4.62	4.65	4.92
8H	4.12	4.16	4.38	4.41	4.68	4.35	4.40	4.61	4.64	4.92
12H	4.10	4.14	4.37	4.40	4.68	4.34	4.38	4.61	4.63	4.91
12H 4H	4.15	4.19	4.39	4.42	4.69	4.38	4.43	4.63	4.66	4.93
6H	4.12	4.16	4.38	4.41	4.68	4.35	4.40	4.61	4.64	4.92

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

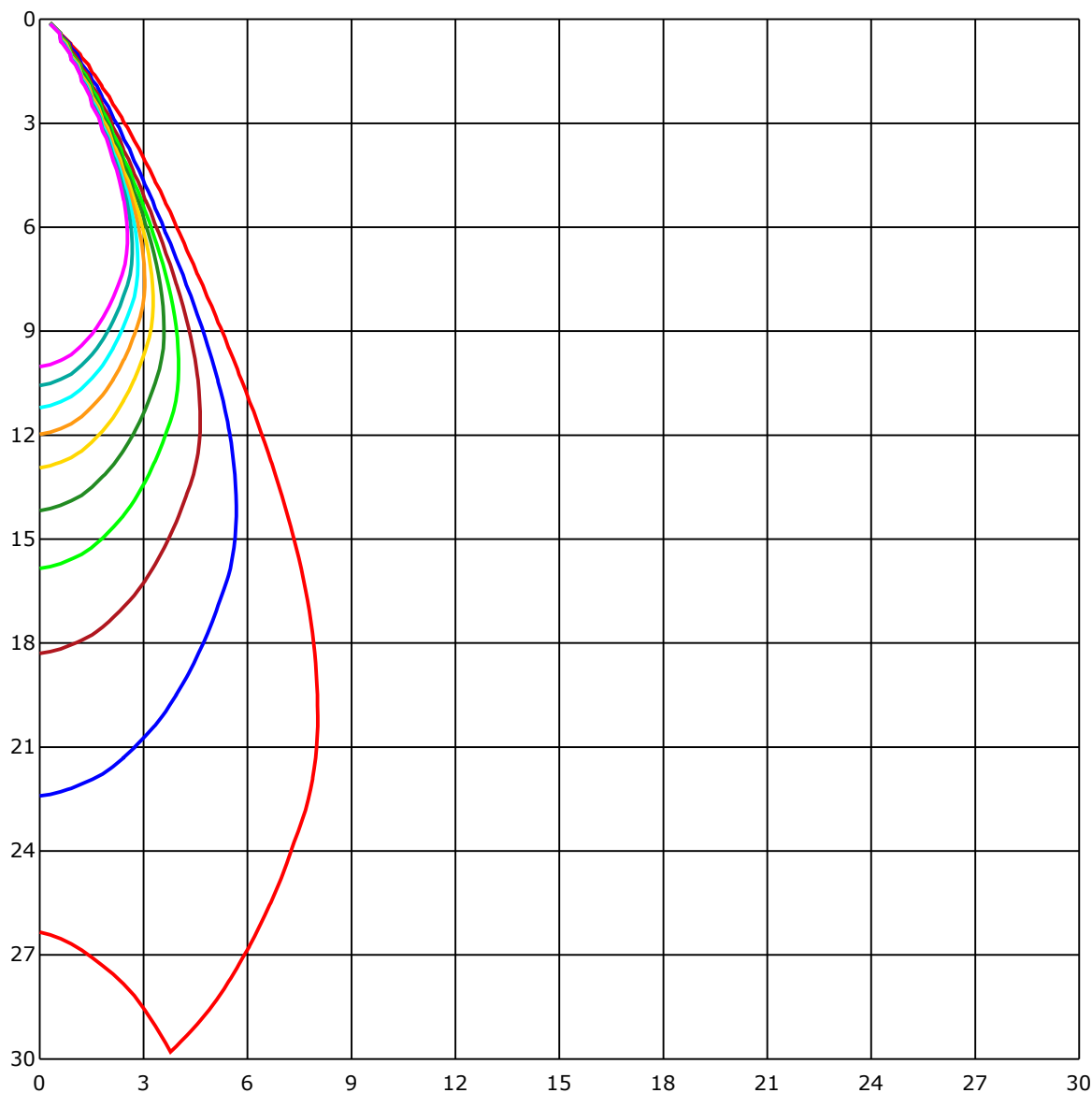
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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: 2024/6/28 10:33:05

SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2028.89	2003.98	2020.95	2030.6	2028.89	2003.98	2020.95	2030.6	2028.89	
G1	2018.66	1979.87	2018.21	2028.18	2040.07	2011.66	2011.57	2028.13	2018.66	
G2	2002.05	1956.08	2007.48	2020.01	2036.17	2013.72	2009.73	2022.25	2002.05	
G3	1979.65	1934.67	1999.4	2015.65	2033.52	2016.01	1992.13	2005.24	1979.65	
G4	1956.35	1904.77	1990.51	1993.48	2026.33	2017.63	1971.08	1984.77	1956.35	
G5	1929.69	1869.98	1972.65	1974.67	2016.82	2013.72	1946.16	1963.8	1929.69	
G6	1891.22	1827.7	1942.88	1951.5	2002.05	2000.07	1918.73	1938.17	1891.22	
G7	1847.58	1789.5	1907.74	1915.5	1988.36	1979.34	1884.8	1914.87	1847.58	
G8	1802.15	1740.66	1876.4	1881.79	1963.13	1949.48	1845.25	1866.53	1802.15	
G9	1758.12	1687.19	1834.65	1849.56	1930.99	1927.58	1807.23	1824.06	1758.12	
G10	1709.59	1630.18	1790.8	1805.43	1889.38	1897.41	1761.35	1778.5	1709.59	
G11	1655.05	1571.55	1740.07	1757.35	1850.64	1862.85	1706.94	1735.63	1655.05	
G12	1598.67	1517.87	1684.27	1698.73	1806.42	1824.15	1656.71	1676.78	1598.67	
G13	1544.49	1455.33	1630.49	1643.06	1762.29	1775.8	1604.68	1627.26	1544.49	
G14	1485.01	1396.21	1577.43	1583.41	1708.74	1728.09	1550.01	1569.18	1485.01	
G15	1431.41	1342.21	1516.92	1525.36	1652.9	1677.0	1489.36	1514.41	1431.41	
G16	1374.04	1294.94	1458.88	1457.76	1591.71	1629.51	1431.0	1457.17	1374.04	
G17	1315.77	1242.42	1404.07	1403.89	1535.24	1577.52	1371.7	1399.98	1315.77	
G18	1264.78	1190.17	1347.69	1344.9	1476.57	1522.44	1322.19	1347.69	1264.78	
G19	1214.1	1123.87	1298.8	1293.73	1423.46	1465.66	1277.79	1302.26	1214.1	
G20	1148.96	1055.45	1253.73	1246.37	1369.37	1414.3	1225.45	1253.73	1148.96	
G21	1081.54	982.15	1199.87	1190.89	1319.14	1362.28	1168.31	1196.95	1081.54	
G22	999.21	895.82	1139.26	1130.38	1266.44	1314.6	1108.47	1134.15	999.21	
G23	915.67	804.25	1068.74	1065.11	1213.42	1259.97	1034.09	1058.91	915.67	
G24	828.36	713.3	991.31	986.01	1147.79	1203.55	953.51	978.56	828.36	
G25	736.06	613.74	902.92	903.64	1074.44	1131.59	866.69	893.0	736.06	
G26	634.83	515.92	815.2	817.72	991.71	1055.14	774.67	801.02	634.83	
G27	533.97	417.66	723.22	717.79	906.73	972.9	674.65	706.84	533.97	
G28	435.34	329.36	626.4	619.26	814.66	886.67	572.71	604.22	435.34	
G29	345.47	253.67	522.61	517.04	718.37	797.11	470.13	500.07	345.47	
G30	271.27	196.71	421.2	417.12	615.71	697.77	373.89	401.0	271.27	
G31	210.18	156.13	328.51	329.67	513.68	597.35	287.83	315.35	210.18	
G32	165.55	126.81	255.2	255.51	419.63	495.63	219.65	245.37	165.55	
G33	133.86	101.72	199.98	198.5	335.46	398.26	171.43	194.01	133.86	
G34	108.45	83.09	160.8	159.4	265.61	316.07	136.6	155.5	108.45	
G35	88.16	68.1	130.5	129.64	213.68	249.27	110.79	125.78	88.16	
G36	72.09	56.11	107.24	104.55	174.08	199.04	90.54	102.93	72.09	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	59.34	44.98	88.48	85.65	143.56	161.87	74.61	85.34	59.34	
G38	48.62	36.81	73.98	70.79	119.72	133.19	61.1	71.11	48.62	
G39	39.77	29.81	61.54	58.27	101.5	110.43	50.14	60.11	39.77	
G40	32.37	24.33	51.49	48.12	84.84	92.02	40.85	50.28	32.37	
G41	26.31	19.48	42.74	38.92	71.38	77.39	33.04	41.84	26.31	
G42	21.23	15.89	36.14	31.06	59.52	64.69	26.98	35.33	21.23	
G43	17.28	12.88	30.48	25.23	50.14	54.41	21.59	29.76	17.28	
G44	13.74	10.5	25.86	20.6	41.61	45.2	17.28	25.18	13.74	
G45	11.4	8.44	22.09	16.88	34.97	37.48	14.05	21.32	11.4	
G46	8.98	6.96	19.03	13.83	29.18	31.29	11.58	18.27	8.98	
G47	7.32	5.79	16.47	11.04	24.55	26.26	9.38	15.94	7.32	
G48	5.93	4.67	14.36	8.98	20.69	22.22	7.81	13.65	5.93	
G49	4.85	3.68	12.48	7.36	17.69	18.9	6.37	12.03	4.85	
G50	3.95	3.1	11.0	6.11	15.04	16.34	5.16	10.82	3.95	
G51	3.19	2.42	9.7	5.07	13.11	14.14	4.26	9.61	3.19	
G52	2.56	1.89	8.8	4.08	11.36	12.39	3.68	8.62	2.56	
G53	2.15	1.39	7.9	3.46	10.06	10.82	2.96	7.99	2.15	
G54	1.71	1.17	7.18	2.65	8.98	9.65	2.47	7.14	1.71	
G55	1.26	0.67	6.24	2.29	7.99	8.57	1.98	6.37	1.26	
G56	0.76	0.49	5.88	1.75	7.09	7.86	1.48	5.84	0.76	
G57	0.63	0.09	5.21	1.39	6.33	6.78	1.17	5.21	0.63	
G58	0.27	0.0	4.58	1.21	5.75	6.24	0.9	4.71	0.27	
G59	0.13	0.0	4.08	0.72	5.16	5.61	0.63	4.26	0.13	
G60	0.0	0.0	3.68	0.36	4.71	5.16	0.63	3.77	0.0	
G61	0.0	0.0	3.46	0.13	4.35	4.49	0.18	3.46	0.0	
G62	0.0	0.0	3.19	0.04	3.86	4.22	0.0	3.19	0.0	
G63	0.0	0.0	2.83	0.0	3.5	3.64	0.0	2.96	0.0	
G64	0.0	0.0	2.74	0.0	3.1	3.32	0.0	2.65	0.0	
G65	0.0	0.0	2.2	0.0	2.92	2.87	0.0	1.98	0.0	
G66	0.0	0.0	1.89	0.0	2.42	2.65	0.0	1.66	0.0	
G67	0.0	0.0	1.3	0.0	2.2	2.33	0.0	1.17	0.0	
G68	0.0	0.0	0.9	0.0	1.75	1.93	0.0	0.9	0.0	
G69	0.0	0.0	0.79	0.0	1.26	1.39	0.0	0.76	0.0	
G70	0.0	0.0	0.67	0.0	0.85	1.03	0.0	0.58	0.0	
G71	0.0	0.0	0.49	0.0	0.76	0.72	0.0	0.45	0.0	
G72	0.0	0.0	0.49	0.0	0.63	0.67	0.0	0.36	0.0	
G73	0.0	0.0	0.4	0.0	0.58	0.58	0.0	0.31	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:33:05

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: 2024/6/28 10:33:05

Remarks: