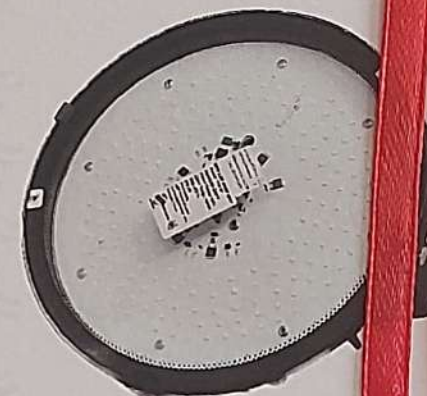


# LUMINAIRE SPECIFICATION



|                            |  |
|----------------------------|--|
| Test Object                | High bay LED light                                     |
| Type                       | UFO Intelligent  |
| Nominal power consumption  | 150 Watt   |
| Light Color Temperature    | 5000 K   |
| Test Scope                 | - Luminous Intensity Distribution<br>- Electrical Test |
| Manufacturer               | Farabin Intelligent Co.(Autoban)                       |
| Test performed in order of | Farabin Intelligent Co.(Autoban)                       |
| Driver                     | DOB  |
| Luminous efficacy          | 99 lumen/watt  |

University of Tehran  
Lighting Laboratory  
Measurement No.: 01L17  
Date : 06 March 2023



*Shayegani*  
Head of The laboratory  
A.A. Shayegani



*S. Mohseni*  
Test Leader  
S. Mohseni



Tehran, March 06, 2022 Lighting Lab. University of Tehran

file : HIGHBAYLIGHT\_LED\_UFO\_INTELLIGENT\_150W\_5000K

meas. no. 01L1728  
 meas. date 3/6/2023  
 operator LightLab.

meas. conditions  
 ambient temperature 25.0 °C  
 voltage 230.00 V  
 current 0.710 A  
 power consumption 160.8 W  
 Leistungsfaktor 0.983

meas. lamps lum. flux [lm]  
 absolute measurement 15899.0 lm  
 luminous efficacy 99 lm/w

measurement results  
 flux of luminaire 15899.0 lm  
 classification / DIN A40  
 lower flux fraction 100.00 %  
 upper flux fraction 0.00 %  
 intensity maximum 5689.0 cd  
 in C-plane 210.0 °  
 at gamma 2.5 °  
 half value angle C0 : 57.3 °  
 C90 : 56.7 °  
 C180 : 57.6 °  
 C270 : 58.2 °  
 tenth value angle C0 : 75.3 °  
 C90 : 74.5 °  
 C180 : 75.8 °  
 C270 : 76.5 °

article code  
 Farabin Intelligent Co.(Autoban)

lamp(s)  
 1 x led  
 total flux 15899 lm  
 LOR  
 100 %  
 tilt angle 0.0 °

dimensions of luminaire  
 diameter 300 mm  
 height 55 mm

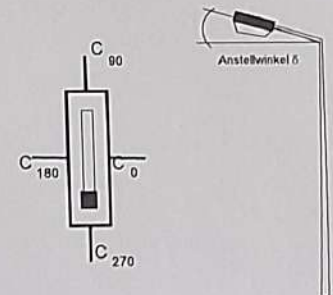
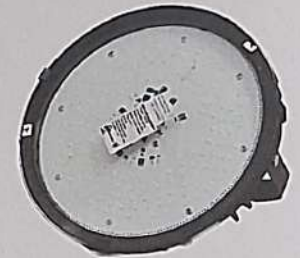
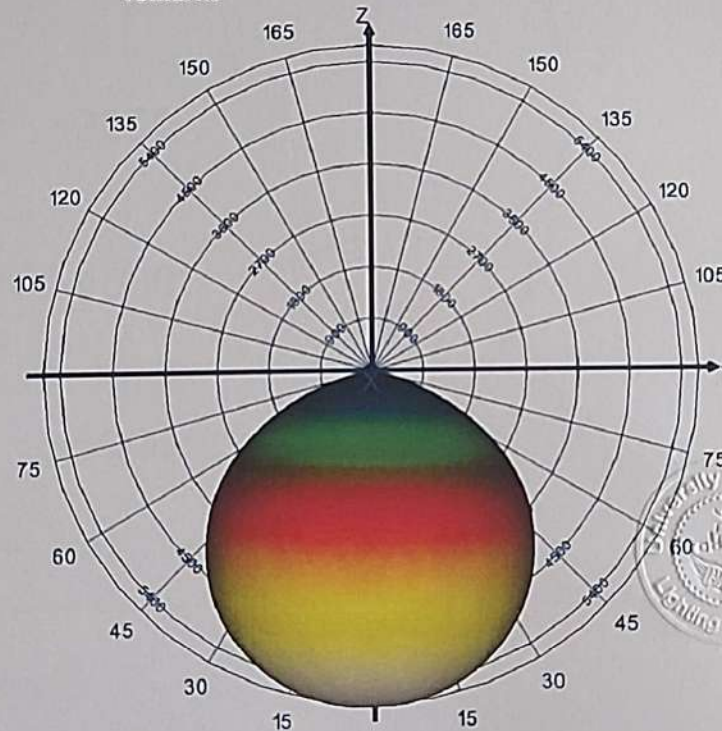
dimensions of luminous area  
 diameter 220 mm  
 height C0 20 mm  
 height C90 20 mm  
 height C180 20 mm  
 height C270 20 mm

reflector

cover

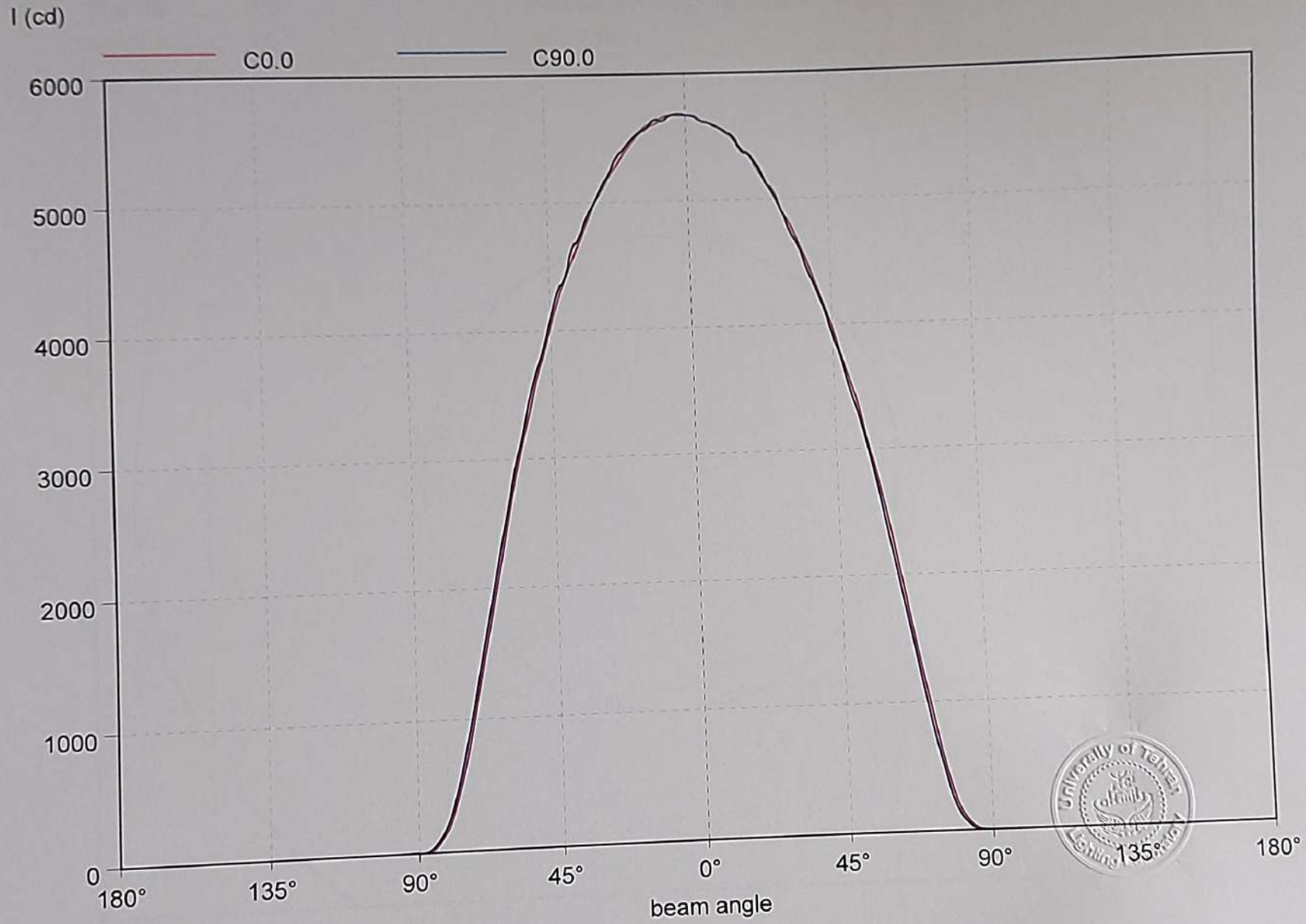
variant

remarks

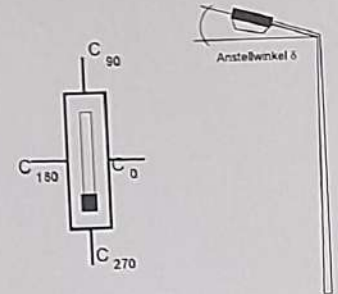
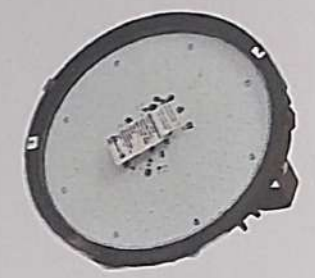


luminaire : HighBayLight\_LED\_UFO\_Intelligent\_150W\_5000K  
file : HIGHBAYLIGHT\_LED\_UFO\_INTELLIGENT\_150W\_5000K

article code  
Farabin Intelligent Co.(Autoban)



lamp(s)  
1 x led  
total flux  
15899 lm  
LOR  
100 %  
tilt angle  
0.0 °



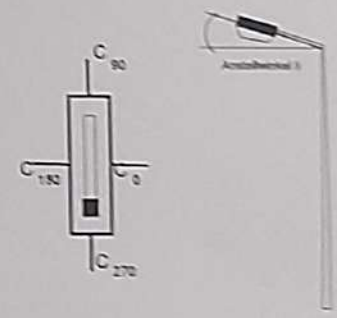
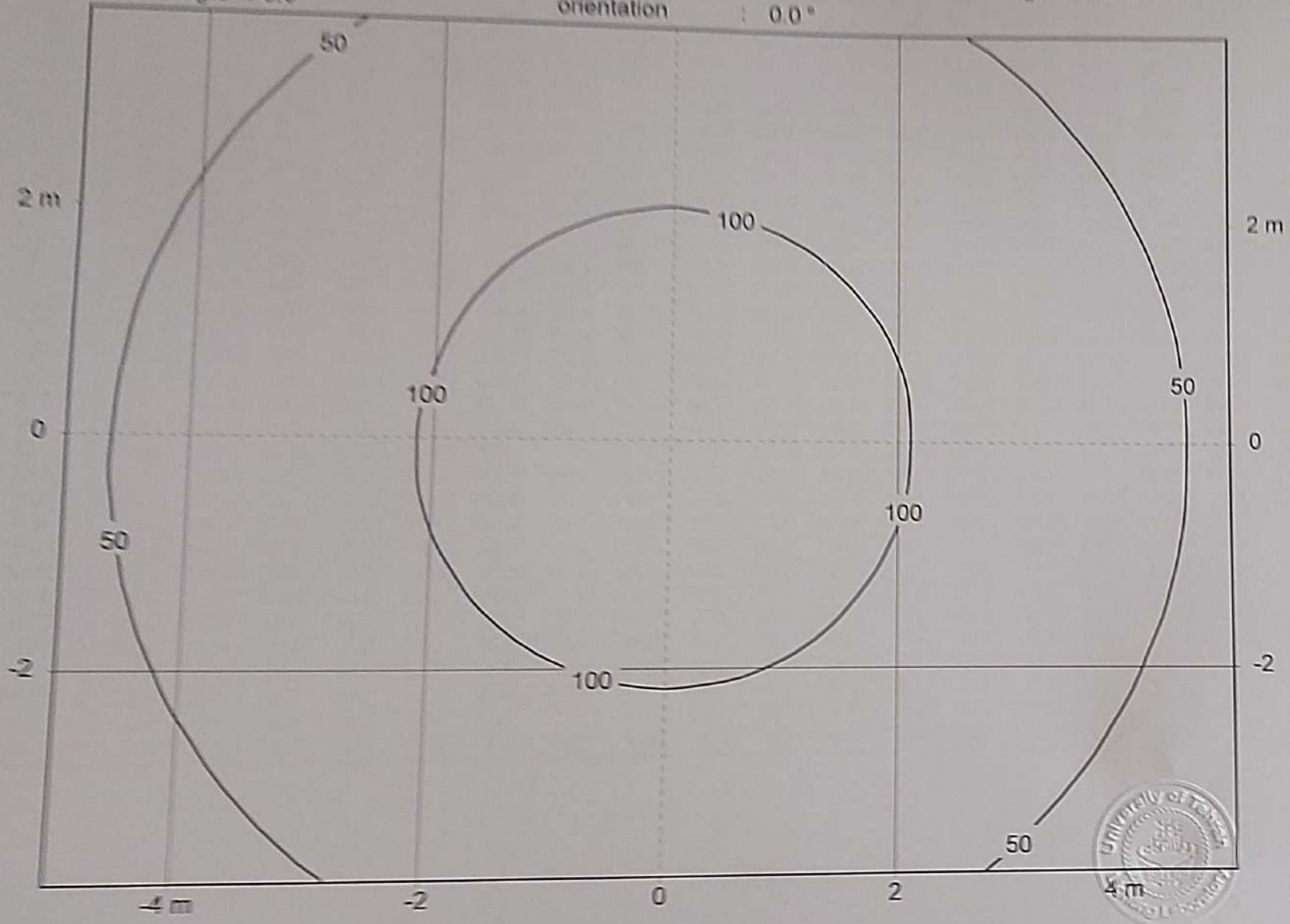
tilt angle : 0.0°  
swivel angle : 0.0°

mounting height : 6.00 m  
orientation : 0.0°

light loss factor : 0.8

article code  
Farabin Intelligent Co.(Autoban)

lamp(s)  
1 x led  
total flux  
15899 lm  
LOR  
100 %  
tilt angle  
0.0°



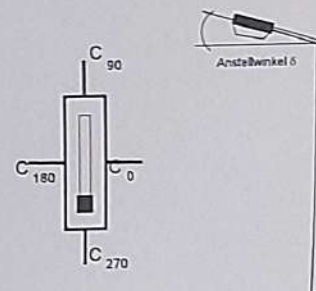
luminaire : HighBayLight\_LED\_UFO\_Intelligent\_150W\_5000K

file : HIGHBAYLIGHT\_LED\_UFO\_INTELLIGENT\_150W\_5000K

| gamma / ° | C 0   | C 15  | C 30  | C 45  | C 60  | C 75  | C 90  | C 105 | C 120 | C 135 | C 150 | C 165 | C 180 | C 195 | C 210 | C 225 | C 240 | C 255 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0       | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 |
| 2.5       | 356.4 | 356.3 | 355.9 | 355.8 | 355.9 | 356.1 | 356.3 | 356.2 | 356.2 | 356.3 | 356.3 | 356.5 | 356.9 | 357.5 | 357.8 | 357.7 | 357.5 | 357.5 |
| 5.0       | 354.0 | 353.8 | 353.9 | 353.8 | 354.0 | 354.3 | 354.0 | 354.6 | 354.7 | 355.1 | 356.1 | 356.8 | 357.1 | 357.4 | 357.8 | 357.0 | 356.7 | 356.8 |
| 7.5       | 352.7 | 352.3 | 353.0 | 353.4 | 353.2 | 352.7 | 352.7 | 352.9 | 353.4 | 353.4 | 353.8 | 354.9 | 356.0 | 356.4 | 356.4 | 356.4 | 356.4 | 356.8 |
| 10.0      | 350.9 | 351.4 | 351.9 | 351.1 | 351.4 | 350.5 | 350.8 | 351.0 | 351.1 | 351.5 | 351.6 | 351.9 | 352.9 | 355.1 | 352.4 | 353.5 | 353.0 | 353.7 |
| 12.5      | 348.5 | 348.1 | 349.1 | 348.1 | 348.0 | 347.4 | 348.5 | 348.3 | 348.6 | 349.4 | 348.4 | 350.0 | 352.2 | 352.3 | 351.9 | 352.1 | 351.8 | 351.3 |
| 15.0      | 344.8 | 346.1 | 345.1 | 344.8 | 345.0 | 343.5 | 346.2 | 344.8 | 346.2 | 345.5 | 345.5 | 345.9 | 348.5 | 349.2 | 349.0 | 347.9 | 347.7 | 347.4 |
| 17.5      | 338.9 | 341.0 | 342.4 | 340.8 | 339.8 | 340.5 | 339.6 | 339.6 | 340.9 | 341.5 | 341.4 | 342.9 | 343.9 | 345.5 | 344.3 | 345.0 | 343.9 | 343.8 |
| 20.0      | 336.5 | 337.7 | 336.9 | 335.3 | 335.4 | 334.3 | 337.0 | 336.1 | 335.5 | 336.7 | 334.6 | 336.3 | 338.8 | 339.1 | 339.9 | 339.1 | 340.6 | 340.3 |
| 22.5      | 329.5 | 331.9 | 331.0 | 330.0 | 329.3 | 330.0 | 331.5 | 329.1 | 330.1 | 329.3 | 329.1 | 330.8 | 332.9 | 335.9 | 333.8 | 334.3 | 333.5 | 333.3 |
| 25.0      | 323.1 | 326.3 | 323.8 | 322.8 | 323.6 | 322.8 | 323.7 | 322.9 | 324.5 | 324.6 | 326.5 | 326.6 | 327.4 | 328.9 | 328.9 | 327.8 | 329.3 | 327.8 |
| 27.5      | 318.5 | 318.1 | 319.1 | 316.8 | 316.2 | 315.6 | 316.6 | 318.5 | 317.2 | 318.7 | 318.3 | 319.1 | 320.7 | 322.3 | 322.4 | 323.0 | 323.5 | 322.8 |
| 30.0      | 308.5 | 310.6 | 309.0 | 308.8 | 308.9 | 308.0 | 308.4 | 308.7 | 309.0 | 309.9 | 311.5 | 312.2 | 314.0 | 316.5 | 315.3 | 314.4 | 315.2 | 314.9 |
| 32.5      | 301.8 | 303.1 | 299.5 | 301.1 | 298.5 | 299.7 | 298.3 | 301.1 | 301.0 | 301.2 | 301.7 | 303.7 | 305.0 | 309.0 | 307.9 | 308.5 | 307.5 | 308.3 |
| 35.0      | 292.6 | 293.3 | 292.5 | 290.6 | 291.6 | 289.8 | 290.8 | 292.1 | 291.9 | 293.5 | 294.2 | 294.2 | 295.3 | 298.6 | 299.0 | 300.0 | 300.0 | 299.3 |
| 37.5      | 283.2 | 283.4 | 283.9 | 282.2 | 280.2 | 280.7 | 279.4 | 281.7 | 282.4 | 284.5 | 284.3 | 285.5 | 286.6 | 290.4 | 290.4 | 289.5 | 290.0 | 290.2 |
| 40.0      | 272.2 | 275.3 | 270.8 | 270.6 | 271.3 | 269.5 | 270.3 | 270.7 | 272.4 | 272.4 | 274.3 | 276.2 | 277.6 | 278.5 | 279.5 | 277.1 | 279.9 | 279.9 |
| 42.5      | 261.1 | 261.6 | 260.2 | 258.2 | 259.0 | 258.6 | 259.6 | 260.1 | 258.9 | 262.6 | 263.5 | 264.3 | 266.8 | 268.5 | 265.0 | 268.4 | 268.5 | 268.5 |
| 45.0      | 250.1 | 250.9 | 248.6 | 247.7 | 247.0 | 247.0 | 246.6 | 247.4 | 249.7 | 250.7 | 251.5 | 252.4 | 254.3 | 255.5 | 254.8 | 254.2 | 256.5 | 256.8 |
| 47.5      | 236.4 | 238.7 | 235.7 | 232.9 | 234.0 | 233.3 | 234.9 | 234.1 | 236.5 | 238.3 | 238.0 | 238.9 | 240.4 | 242.4 | 242.5 | 241.2 | 241.5 | 244.3 |
| 50.0      | 223.6 | 223.4 | 221.8 | 220.3 | 220.0 | 218.7 | 219.0 | 221.2 | 220.9 | 222.1 | 224.6 | 223.8 | 227.9 | 229.1 | 227.9 | 228.2 | 230.0 | 230.2 |
| 52.5      | 210.9 | 208.4 | 205.9 | 205.1 | 205.2 | 205.7 | 206.6 | 207.1 | 207.4 | 209.4 | 209.3 | 210.4 | 211.7 | 214.7 | 215.1 | 213.6 | 216.0 | 215.4 |
| 55.0      | 193.2 | 194.6 | 192.1 | 191.8 | 189.3 | 190.4 | 190.9 | 190.6 | 191.5 | 192.5 | 193.4 | 195.6 | 196.7 | 199.4 | 200.0 | 199.3 | 200.2 | 200.5 |
| 57.5      | 177.5 | 176.8 | 174.5 | 173.7 | 173.2 | 171.9 | 173.2 | 172.8 | 172.9 | 175.4 | 177.5 | 177.2 | 180.0 | 183.2 | 183.4 | 182.8 | 184.4 | 183.9 |
| 60.0      | 160.0 | 159.0 | 155.1 | 153.8 | 153.1 | 152.0 | 152.6 | 153.8 | 154.9 | 156.7 | 157.6 | 159.1 | 161.0 | 163.9 | 164.1 | 164.5 | 165.4 | 165.8 |
| 62.5      | 139.5 | 137.9 | 134.9 | 132.9 | 132.1 | 131.2 | 131.9 | 132.8 | 134.0 | 135.3 | 136.7 | 137.7 | 139.9 | 141.7 | 143.4 | 144.3 | 145.4 | 145.3 |
| 65.0      | 118.6 | 117.8 | 114.2 | 112.6 | 111.4 | 110.0 | 111.3 | 112.6 | 113.2 | 114.7 | 115.8 | 117.3 | 120.8 | 122.5 | 125.3 | 123.8 | 125.4 | 125.6 |
| 67.5      | 97.0  | 96.4  | 93.6  | 92.1  | 91.5  | 89.9  | 90.2  | 91.6  | 92.0  | 93.4  | 94.8  | 97.1  | 100.3 | 102.1 | 104.5 | 104.6 | 105.5 | 107.4 |
| 70.0      | 75.9  | 75.5  | 72.9  | 71.2  | 70.1  | 70.2  | 69.9  | 69.9  | 71.2  | 72.5  | 74.7  | 76.4  | 80.2  | 83.1  | 84.0  | 85.1  | 84.7  | 86.3  |
| 72.5      | 57.0  | 56.5  | 53.6  | 51.2  | 50.6  | 50.2  | 49.8  | 50.0  | 50.9  | 52.9  | 54.4  | 56.9  | 59.8  | 62.7  | 64.3  | 65.3  | 65.4  | 65.4  |
| 75.0      | 38.3  | 38.1  | 34.9  | 34.1  | 33.1  | 32.9  | 32.9  | 32.2  | 33.2  | 34.5  | 36.2  | 38.5  | 41.6  | 43.9  | 45.4  | 46.7  | 47.4  | 47.5  |
| 77.5      | 22.4  | 22.0  | 19.7  | 19.0  | 18.4  | 18.0  | 17.5  | 17.8  | 18.2  | 19.1  | 20.7  | 22.8  | 25.5  | 27.5  | 28.6  | 29.6  | 30.5  | 30.7  |
| 80.0      | 10.8  | 10.8  | 9.5   | 9.1   | 8.5   | 8.1   | 8.1   | 8.4   | 8.6   | 9.2   | 10.2  | 11.6  | 13.6  | 15.0  | 15.7  | 16.9  | 17.3  | 16.7  |

article code  
Farabin Intelligent Co.(Autoban)

lamp(s)  
1 x led  
total flux  
15899 lm  
LOR  
100 %  
tilt angle  
0.0 °



luminaire : HighBayLight\_LED\_UFO\_Intelligent\_150W\_5000K

file : HIGHBAYLIGHT\_LED\_UFO\_INTELLIGENT\_150W\_5000K

| gamma / ° | C 270 | C 285 | C 300 | C 315 | C 330 | C 345 |
|-----------|-------|-------|-------|-------|-------|-------|
| 0.0       | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 |
| 2.5       | 357.7 | 357.3 | 356.7 | 356.4 | 356.3 | 356.3 |
| 5.0       | 356.7 | 356.5 | 356.8 | 355.9 | 355.5 | 354.2 |
| 7.5       | 354.3 | 354.9 | 354.5 | 354.7 | 355.0 | 353.5 |
| 10.0      | 354.8 | 352.9 | 353.4 | 353.7 | 352.4 | 351.3 |
| 12.5      | 350.7 | 351.3 | 351.0 | 350.2 | 349.4 | 350.4 |
| 15.0      | 348.7 | 348.0 | 349.0 | 346.9 | 346.8 | 345.0 |
| 17.5      | 345.2 | 343.9 | 343.2 | 343.5 | 342.3 | 341.6 |
| 20.0      | 340.6 | 341.0 | 340.9 | 338.6 | 338.2 | 336.9 |
| 22.5      | 336.3 | 334.9 | 333.6 | 333.5 | 332.3 | 331.6 |
| 25.0      | 328.4 | 328.8 | 328.2 | 328.0 | 327.6 | 325.4 |
| 27.5      | 321.9 | 322.6 | 321.8 | 321.5 | 320.2 | 318.6 |
| 30.0      | 313.9 | 315.0 | 314.4 | 313.5 | 312.0 | 311.5 |
| 32.5      | 307.2 | 306.4 | 307.7 | 305.8 | 304.5 | 305.3 |
| 35.0      | 297.5 | 299.9 | 297.9 | 297.9 | 296.0 | 294.6 |
| 37.5      | 291.5 | 289.9 | 291.1 | 286.6 | 286.8 | 284.9 |
| 40.0      | 277.8 | 280.8 | 278.5 | 277.5 | 276.9 | 275.4 |
| 42.5      | 270.6 | 267.7 | 267.3 | 268.0 | 263.7 | 263.9 |
| 45.0      | 257.4 | 256.5 | 255.7 | 255.6 | 252.0 | 251.8 |
| 47.5      | 242.6 | 243.1 | 243.0 | 243.8 | 240.2 | 238.4 |
| 50.0      | 231.2 | 230.6 | 230.5 | 229.4 | 227.7 | 225.3 |
| 52.5      | 217.0 | 216.5 | 216.3 | 214.2 | 213.8 | 211.0 |
| 55.0      | 199.5 | 201.2 | 199.9 | 198.0 | 197.0 | 197.0 |
| 57.5      | 184.2 | 184.4 | 184.2 | 182.5 | 180.4 | 179.8 |
| 60.0      | 164.9 | 167.3 | 164.9 | 165.2 | 162.9 | 161.1 |
| 62.5      | 147.0 | 146.1 | 145.4 | 144.8 | 143.1 | 140.9 |
| 65.0      | 126.3 | 126.8 | 125.2 | 124.6 | 122.1 | 120.4 |
| 67.5      | 105.9 | 105.9 | 105.1 | 103.6 | 101.6 | 100.3 |
| 70.0      | 85.5  | 85.6  | 84.1  | 82.2  | 80.3  | 79.2  |
| 72.5      | 65.5  | 65.2  | 63.2  | 61.2  | 59.8  | 57.3  |
| 75.0      | 46.8  | 45.9  | 44.3  | 43.0  | 40.8  | 38.9  |
| 77.5      | 29.8  | 29.3  | 27.8  | 26.2  | 24.6  | 23.6  |
| 80.0      | 16.4  | 15.8  | 14.4  | 13.3  | 11.8  | 11.5  |

article code

Farabin Intelligent Co.(Autoban)

lamp(s)

1 x led

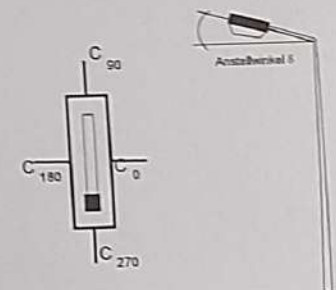
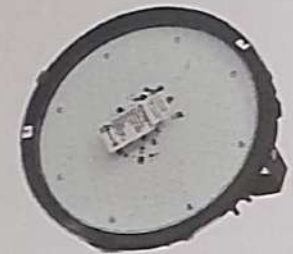
total flux  
15899 lm

LOR

100 %

tilt angle

0.0 °



luminaire : HighBayLight\_LED\_UFO\_Intelligent\_150W\_5000K

file : HIGHBAYLIGHT\_LED\_UFO\_INTELLIGENT\_150W\_5000K

article code

Farabin Intelligent Co.(Autoban)

tilt angle : 0.0°

swivel angle : 0.0°

orientation : 0.0°

light loss factor : 0.8

lamp(s)

1 x led

total flux

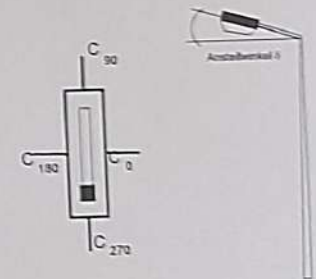
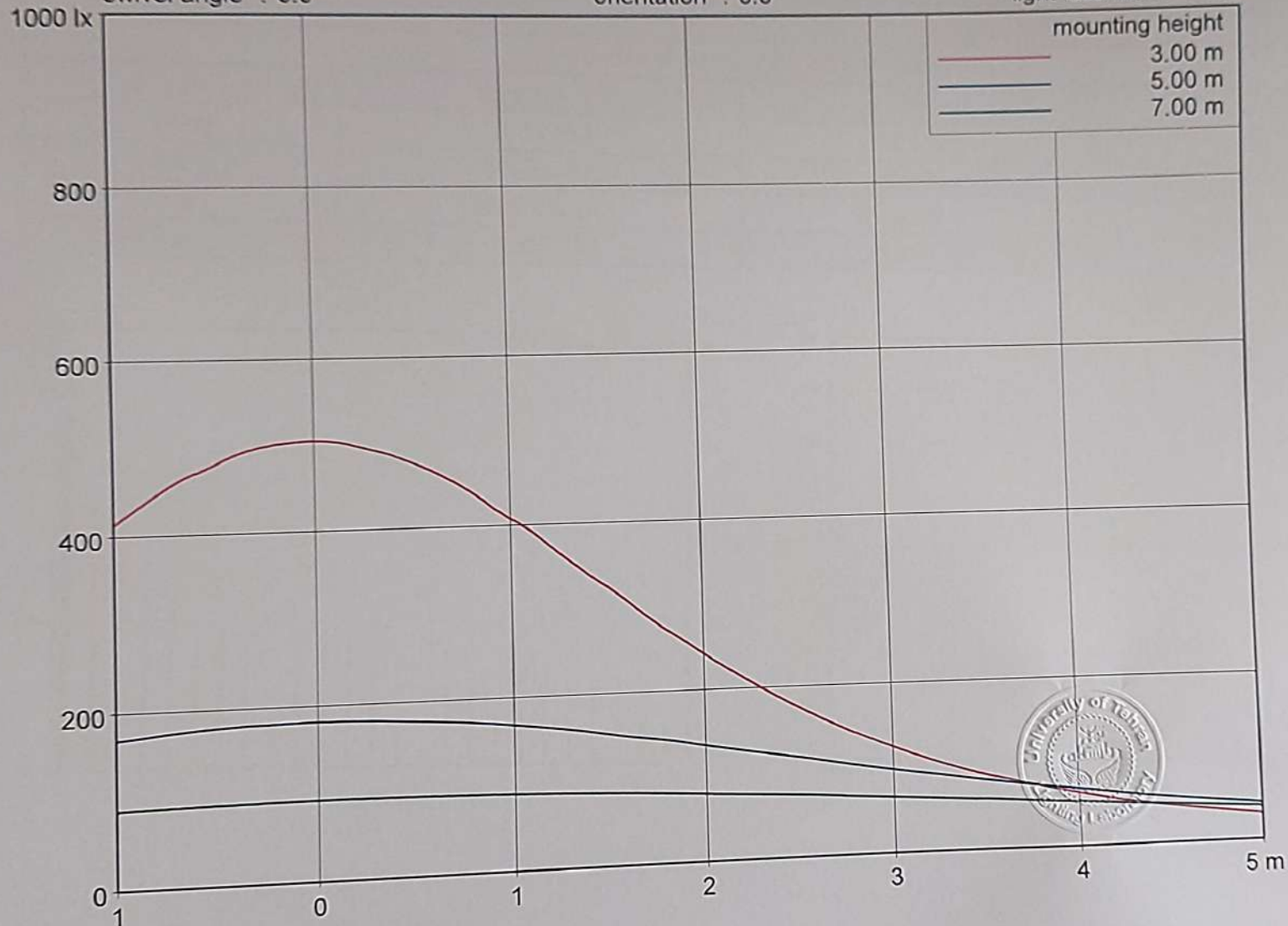
15899 lm

LOR

100 %

tilt angle

0.0°





• Electrical Test Results:

| Electrical Parameter of Luminaire |            |                  |             |
|-----------------------------------|------------|------------------|-------------|
| Vac                               | 229.99 [V] | I <sub>thd</sub> | 16.70 [%]   |
| V <sub>thd</sub>                  | 0.05 [%]   | AC Pwr           | 157.47 [W]  |
| Freq                              | 50.00 [Hz] | App Pwr          | 160.04 [VA] |
| I <sub>ac</sub>                   | 695.9 [mA] | React Pwr        | 28.58 [Var] |
| I <sub>pp</sub>                   | 1.053 [A]  | Pwr Fact         | 0.984       |

