



**IES COMPARE REPORT**  
**REPORT FORMAT: DARK SKY**

|                                               | zlroad2.ies              | zlroad3.ies              |
|-----------------------------------------------|--------------------------|--------------------------|
| [MANUFAC] keyword                             | Z-LUX... FOR THIS        | Z-LUX... FOR THIS        |
| [LUMINAIRE] keyword                           | PLANET AND BEYOND        | PLANET AND BEYOND        |
|                                               | Gamma Quadrant Area      | ALPHA QUADRANT           |
|                                               | series                   | SERIES                   |
| [LAMP] keyword                                | 400 watt metal halide    | 310W HPS                 |
| Total Luminaire Watts                         | 450                      | 360                      |
| Total Lamp Lumens                             | 36000                    | 37000                    |
| IES Classification                            | Type III                 | Type II                  |
| Longitudinal Classification                   | Short                    | Medium                   |
| Cutoff Classification (deprecated)            | Full Cutoff              | Full Cutoff              |
| Maximum Candela                               | 19178                    | 14866                    |
| Max. Candela Horz. Angle                      | 60                       | 70                       |
| Max. Candela Vert. Angle                      | 65                       | 67.5                     |
| Max. Candela At 90 Degrees Vert.              | 0 (0% Lamp Lms.)         | 0 (0% Lamp Lms.)         |
| Max. Candela 80 to < 90 Vert.                 | 1455 (4.04% Lamp Lms.)   | 533 (1.44% Lamp Lms.)    |
| Zonal Lumens: 80-90                           | 194.11                   | 57.69                    |
| Zonal Lumens 90-180                           | 0                        | 0                        |
| Luminaire Lumens                              | 27234                    | 25598                    |
| Total Luminaire Efficiency                    | 76 %                     | 69 %                     |
| Downward Total Efficiency                     | 76 %                     | 69 %                     |
| Upward Waste Light Ratio                      | 0.00                     | 0.00                     |
| Avg. Glare Zone Max. Luminous Intensity 80-90 | 4.04 %Lamp Luminous Flux | 1.44 %Lamp Luminous Flux |
| Avg. Glare Zone Flux 80-90                    | 0.54 %Lamp Luminous Flux | 0.16 %Lamp Luminous Flux |
| Luminance Data 85v, 0h:                       | 10735                    | 0                        |
| Luminance Data 85v, 45h:                      | 14930                    | 0                        |
| Luminance Data 85v, 90h:                      | 21346                    | 3720                     |
| BUG Rating                                    | B4-U2-G4                 | B4-U1-G3                 |
| LCS: Front-Low (0-30) Lumens                  | 1885.5                   | 2766.9                   |
| LCS: Front-Low (0-30) %Lamp                   | 5.2                      | 7.5                      |
| LCS: Front-Medium (30-60) Lumens              | 8112.9                   | 7885.9                   |
| LCS: Front-Medium (30-60) %Lamp               | 22.5                     | 21.3                     |

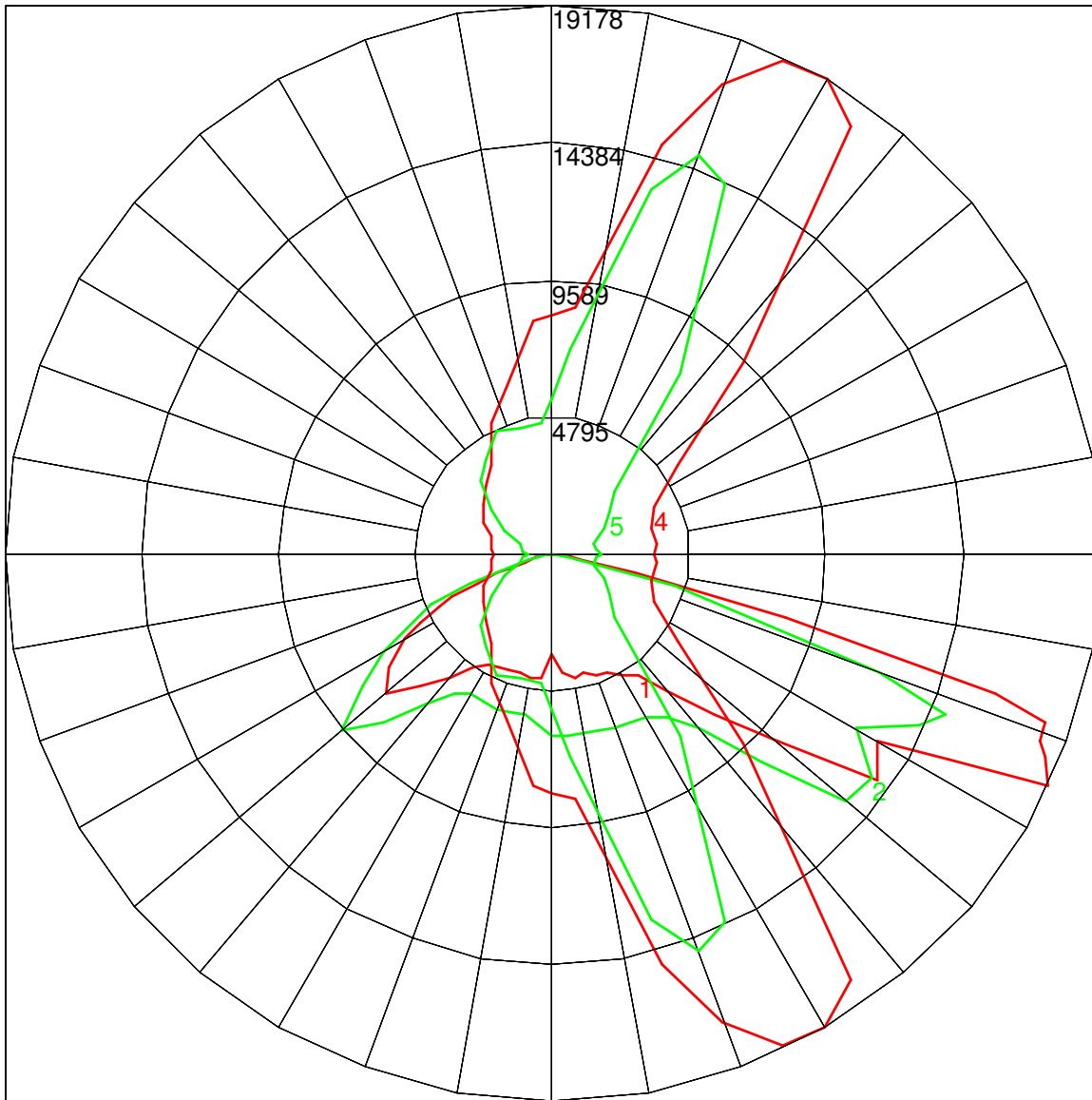


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|------------------------------------|-------------|-------------|
| LCS: Front-High (60-80)            | 6887.6      | 3921.3      |
| Lumens                             |             |             |
| LCS: Front-High (60-80) %Lamp      | 19.1        | 10.6        |
| LCS: Front-Very High (80-90)       | 108.5       | 33.5        |
| Lumens                             |             |             |
| LCS: Front-Very High (80-90) %Lamp | 0.3         | 0.1         |
| LCS: Back-Low (0-30) Lumens        | 1817.1      | 2257.4      |
| LCS: Back-Low (0-30) %Lamp         | 5.0         | 6.1         |
| LCS: Back-Medium (30-60) Lumens    | 5778.7      | 6456.4      |
| LCS: Back-Medium (30-60) %Lamp     | 16.1        | 17.4        |
| LCS: Back-High (60-80) Lumens      | 2557.9      | 2252.6      |
| LCS: Back-High (60-80) %Lamp       | 7.1         | 6.1         |
| LCS: Back-Very High (80-90) Lumens | 85.6        | 24.2        |
| LCS: Back-Very High (80-90) %Lamp  | 0.2         | 0.1         |
| LCS: Uplight-Low (90-100) Lumens   | 0.0         | 0.0         |
| LCS: Uplight-Low (90-100) %Lamp    | 0.0         | 0.0         |
| LCS: Uplight-High (100-180) Lumens | 0.0         | 0.0         |
| LCS: Uplight-High (100-180) %Lamp  | 0.0         | 0.0         |
| LCS: Total Lumens                  | 27234       | 25598       |

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CANDELA DISPLAY



# 1 zload2.ies - Vertical Plane Through Horizontal Angles (60 - 240) Max. Candela

# 2 zload3.ies - Vertical Plane Through Horizontal Angles (70 - 250) Max. Candela

# 4 zload2.ies - Horizontal Cone Through Vertical Angle (65) Max. Candela

# 5 zload3.ies - Horizontal Cone Through Vertical Angle (67.5) Max. Candela