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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accreditation No. 2258.

Report of Test LL24641

Western Power. Product ID: 80 W Mercury Vapour Roadster Body with 18W LED Lamp. Cast aluminium body with white and raw finish and black plastic gear cover, overall extents ~ 465 x 275 x 125 mm deep. Clear bowl lens with prismatic ribbing forms luminous volume of 313 x 270 x 75 mm deep. Specular hammertone reflectors about lamp. One Philips 18W 9290023499 LED lamp centred in L/V. One Tridonic.Atco OMB80-03 250V 50Hz magnetic ballast.

Tested at 240 V 50 Hz. Spigot mount in C270 position.



Performance Summary

Luminous Flux1943ImTotal Luminaire Power19.1WLuminous Efficacy102Im / W

Prepared for: Western Power, 363 Wellington Street, Perth, WA 6000.

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Activity address: 50 Redcliffe Gardens Drive, Clontarf, Qld, 4019, Australia.

Ph : +61 7 3283 7862 www.lightlabint.com (issuing laboratory) Page 1 of 11





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Page 2 of 11



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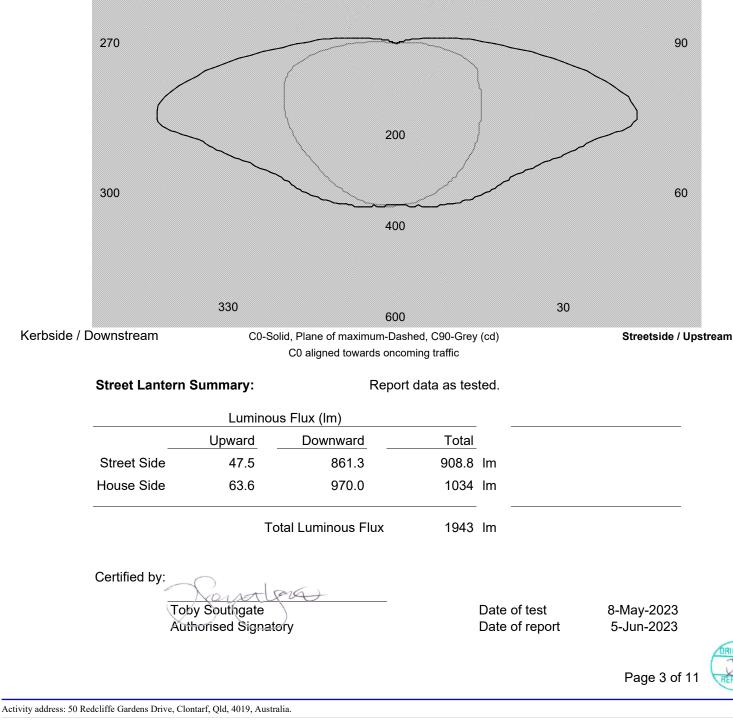
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Polar Light Distribution Curves

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400 30 600 Legend: Plane of maximum luminous intensity (cd) Maximum luminous intensity House Side 508.0 cd @ (355.0, 71.0) Street Side 506.5 cd @ (0.0, 70.5) format (C plane, Gamma angle). Data for the two symmetric halves of the luminaire has been averaged. Page 4 of 11

Gamma Intensity (° (cd) 0.0 355.2 10.0 362.7 20.0 370.3

375.9

375.8

378.3

388.4

395.1

402.5

411.0

420.9

430.8

440.3

453.1

472.9

494.5

506.8

504.9

486.6

455.5

408.5

355.9

300.3

243.8

203.8

169.5

138.9

108.1

84.2

60.1

41.3

4.6

0.0

0.0

0.0

0.0

Specular hammertone reflectors about lamp. One Philips 18W 9290023499 LED lamp centred in L/V. One Tridonic.Atco OMB80-03 250V 50Hz magnetic ballast. Tested at 240 V 50 Hz. Spigot mount in C270 position. **Principal Vertical Plane** 90 200 60 Note: The coordinate pairs in the above table are expressed in degrees and have the

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Luminous intensity in principal plane

30.0

35.0

40.0

45.0

47.5

50.0

52.5

55.0

57.5

60.0

62.5

65.0

67.5

70.0

72.5

75.0

77.5

80.0

82.5

85.0

87.5

90.0

92.5

95.0

97.5

100.0

102.5

105.0

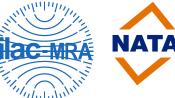
120.0

135.0

150.0

165.0

180.0



Test Report No. LL24641 Western Power. Product ID: 80 W Mercury Vapour Roadster Body with 18W LED Lamp. Cast aluminium body with white and raw finish and black plastic gear cover, overall extents ~ 465 x 275 x 125 mm deep. Clear bowl lens with prismatic ribbing forms luminous volume of 313 x 270 x 75 mm deep.

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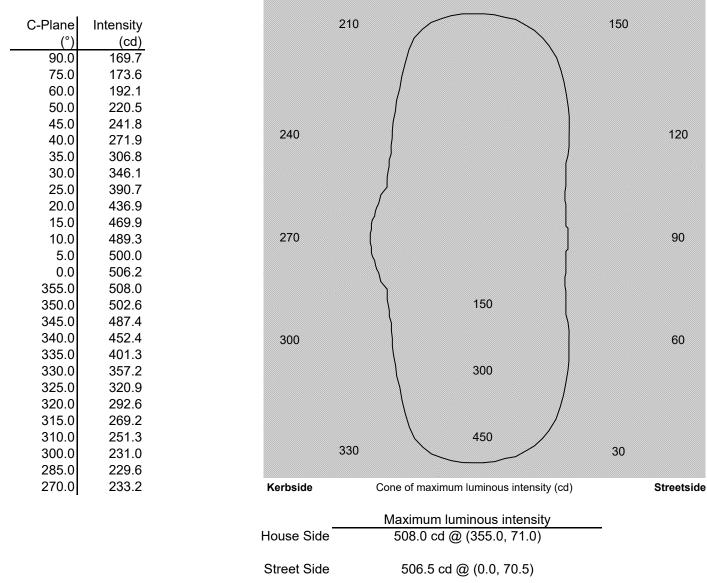
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Tested at 240 V 50 Hz. Spigot mount in C270 position.

Principal Conical Surface

Luminous intensity in principal cone



Note: The coordinate pairs in the above table are expressed in degrees and have the format (C plane, Gamma angle). Data for the two symmetric halves of the luminaire has been averaged.



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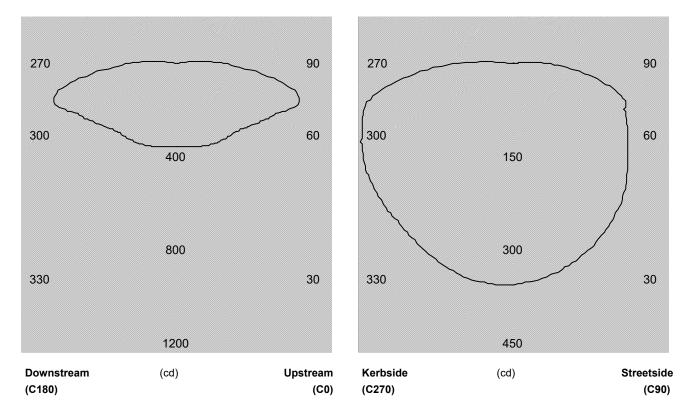
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Tested at 240 V 50 Hz. Spigot mount in C270 position.

Polar curve through CIE C0 / C180





| I ₈₀ = | 403.8 cd | |
|-------------------------------------|----------|--|
| I ₈₈ = | 227.3 cd | |
| I ₉₀ = | 198.0 cd | |
| I ₈₀ / I ₈₈ = | 1.777 | |

Note: The intensity values listed (I_{xx}) are all within the C0 half plane, the subscript refers to the gamma angle.





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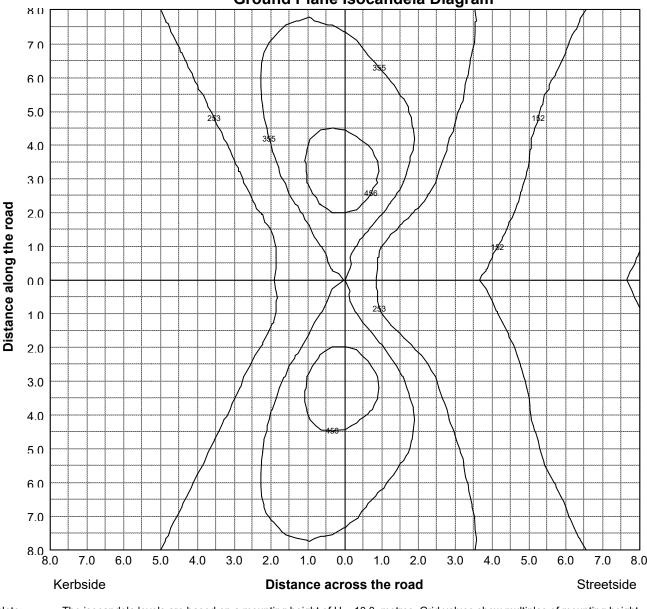
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Ground Plane Isocandela Diagram

Note:

The isocandela levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height. The isocandela contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum. The isocandela contour units are expressed as candela.

Upstream and downstream sides have been averaged.

Page 7 of 11



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| Kerb side luminous intensity data (cd) | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C-Plane | | | | | | | | | |
| Gamma (°) | C270 | C285 | C300 | C310 | C315 | C320 | C325 | C330 | C335 |
| 0.0 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 |
| 10.0 | 352.5 | 353.5 | 356.0 | 357.2 | 358.0 | 359.0 | 360.2 | 361.1 | 362.2 |
| 20.0 | 335.1 | 340.7 | 349.0 | 355.9 | 359.1 | 362.3 | 365.0 | 367.1 | 369.0 |
| 30.0 | 312.6 | 322.3 | 336.8 | 347.8 | 353.3 | 358.9 | 364.6 | 369.7 | 373.8 |
| 35.0 | 303.5 | 312.9 | 327.5 | 339.4 | 346.3 | 353.7 | 361.3 | 368.0 | 373.4 |
| 40.0 | 295.6 | 303.3 | 318.3 | 330.0 | 338.1 | 346.9 | 355.5 | 363.8 | 371.2 |
| 45.0 | 287.1 | 291.5 | 307.1 | 320.1 | 328.2 | 337.6 | 349.1 | 362.1 | 374.3 |
| 47.5 | 282.6 | 285.1 | 301.2 | 314.4 | 323.1 | 334.4 | 348.6 | 363.3 | 377.1 |
| 50.0 | 278.3 | 279.6 | 295.1 | 308.9 | 319.1 | 332.5 | 348.1 | 364.0 | 379.4 |
| 52.5 | 274.0 | 273.6 | 288.7 | 303.4 | 315.4 | 330.3 | 347.2 | 364.4 | 380.8 |
| 55.0 | 269.4 | 268.1 | 281.6 | 297.7 | 311.3 | 327.6 | 345.6 | 363.7 | 381.4 |
| 57.5 | 264.2 | 262.3 | 274.5 | 291.7 | 306.3 | 324.3 | 343.3 | 362.3 | 381.2 |
| 60.0 | 258.9 | 256.9 | 267.9 | 285.6 | 301.2 | 319.9 | 340.0 | 360.2 | 382.0 |
| 62.5 | 253.1 | 251.2 | 260.8 | 279.0 | 294.5 | 314.7 | 335.4 | 358.3 | 384.2 |
| 65.0 | 247.3 | 244.9 | 251.9 | 271.8 | 287.8 | 308.4 | 330.8 | 356.9 | 388.5 |
| 67.5 | 242.3 | 239.1 | 243.7 | 263.8 | 280.3 | 302.0 | 326.4 | 356.5 | 394.5 |
| 70.0 | 236.2 | 232.6 | 234.9 | 254.9 | 272.3 | 295.5 | 322.8 | 357.6 | 401.3 |
| 72.5 | 228.8 | 224.5 | 225.7 | 246.1 | 264.1 | 287.3 | 315.5 | 351.9 | 398.4 |
| 75.0 | 217.5 | 213.5 | 215.0 | 232.9 | 250.6 | 273.5 | 301.7 | 336.8 | 388.1 |
| 77.5 | 201.3 | 200.6 | 201.0 | 216.6 | 233.4 | 255.7 | 283.8 | 322.0 | 368.5 |
| 80.0 | 182.2 | 182.2 | 185.1 | 198.0 | 214.7 | 237.1 | 264.2 | 303.7 | 341.5 |
| 82.5 | 159.5 | 162.6 | 166.1 | 179.3 | 194.8 | 217.3 | 245.4 | 281.3 | 311.7 |
| 85.0 | 137.7 | 138.9 | 147.9 | 158.6 | 174.4 | 196.0 | 223.3 | 255.4 | 276.2 |
| 87.5 | 113.9 | 114.9 | 126.6 | 137.9 | 152.5 | 172.1 | 200.6 | 223.7 | 235.9 |
| 90.0 | 88.8 | 90.8 | 102.2 | 115.5 | 127.7 | 146.6 | 172.7 | 190.9 | 200.7 |
| 92.5 | 67.3 | 66.7 | 76.6 | 88.9 | 100.4 | 119.2 | 143.0 | 156.8 | 166.6 |
| 95.0 | 48.4 | 43.3 | 50.4 | 64.4 | 75.1 | 93.4 | 113.7 | 127.5 | 135.9 |
| 97.5 | 28.0 | 21.7 | 24.1 | 38.8 | 49.0 | 67.6 | 85.5 | 98.1 | 105.7 |
| 100.0 | 13.9 | 8.5 | 8.4 | 18.0 | 29.6 | 47.1 | 61.1 | 71.9 | 79.1 |
| 102.5 | 5.5 | 5.5 | 6.0 | 9.4 | 16.2 | 29.7 | 40.0 | 49.0 | 54.3 |
| 105.0 | 4.0 | 3.4 | 3.6 | 6.2 | 9.4 | 19.3 | 26.7 | 33.2 | 36.9 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.8 | 1.8 | 2.7 | 3.6 | 4.2 |
| 135.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |





Page 8 of 11

Page 9 of 11

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Tested at 240 V 50 Hz. Spigot mount in C270 position.

| | K | Kerb side | | | intensity d | lata (cd) | R | oad side | |
|-----------|-------|-----------|-------|------------|-------------|-----------|-------|----------|-------|
| 0 | 0040 | 00.45 | 0050 | | C-Plane | 05 | 040 | 045 | 000 |
| Gamma (°) | C340 | C345 | C350 | C355 | <u>C0</u> | C5 | C10 | C15 | C20 |
| 0.0 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 |
| 10.0 | 362.4 | 362.9 | 363.0 | 362.7 | 362.2 | 361.9 | 361.1 | 360.2 | 358.9 |
| 20.0 | 370.0 | 370.7 | 370.8 | 370.3 | 369.2 | 367.8 | 365.8 | 363.6 | 361.0 |
| 30.0 | 376.5 | 377.6 | 377.4 | 375.9 | 373.3 | 369.8 | 365.4 | 360.5 | 354.9 |
| 35.0 | 377.0 | 378.5 | 378.1 | 375.8 | 371.9 | 367.1 | 361.5 | 354.7 | 348.0 |
| 40.0 | 376.5 | 379.9 | 380.7 | 378.3 | 373.9 | 367.8 | 360.2 | 351.9 | 342.7 |
| 45.0 | 383.0 | 388.5 | 390.4 | 388.4 | 384.2 | 378.5 | 370.2 | 359.5 | 346.9 |
| 47.5 | 387.3 | 393.7 | 396.5 | 395.1 | 391.1 | 385.3 | 375.9 | 363.8 | 349.4 |
| 50.0 | 391.1 | 398.8 | 402.4 | 402.5 | 398.9 | 393.1 | 382.5 | 369.0 | 352.6 |
| 52.5 | 394.3 | 404.1 | 409.9 | 411.0 | 408.1 | 402.4 | 392.1 | 376.2 | 358.2 |
| 55.0 | 397.2 | 410.4 | 418.4 | 420.9 | 418.2 | 412.3 | 401.5 | 385.6 | 364.9 |
| 57.5 | 399.7 | 416.9 | 428.3 | 430.8 | 428.4 | 422.8 | 413.9 | 397.7 | 374.9 |
| 60.0 | 404.1 | 425.2 | 437.6 | 440.3 | 437.8 | 434.5 | 425.7 | 410.0 | 385.6 |
| 62.5 | 412.0 | 435.8 | 449.0 | 453.1 | 450.5 | 447.1 | 438.5 | 421.8 | 396.2 |
| 65.0 | 421.3 | 449.6 | 467.4 | 472.9 | 471.3 | 467.2 | 455.3 | 435.2 | 407.7 |
| 67.5 | 434.9 | 471.1 | 490.0 | 494.5 | 492.3 | 488.3 | 476.5 | 452.8 | 417.6 |
| 70.0 | 450.7 | 486.8 | 502.5 | 506.8 | 505.5 | 499.7 | 488.7 | 468.1 | 432.4 |
| 72.5 | 449.4 | 483.3 | 498.6 | 504.9 | 502.6 | 496.6 | 485.5 | 466.6 | 436.8 |
| 75.0 | 434.0 | 465.5 | 482.3 | 486.6 | 486.1 | 479.5 | 467.4 | 448.4 | 419.8 |
| 77.5 | 408.8 | 438.8 | 452.6 | 455.5 | 453.1 | 442.2 | 429.3 | 409.4 | 385.2 |
| 80.0 | 376.5 | 398.1 | 406.7 | 408.5 | 403.8 | 392.8 | 374.4 | 356.4 | 337.7 |
| 82.5 | 336.6 | 350.9 | 358.9 | 355.9 | 349.2 | 335.1 | 320.3 | 305.1 | 288.4 |
| 85.0 | 292.1 | 302.1 | 303.9 | 300.3 | 292.5 | 280.0 | 265.3 | 252.0 | 237.8 |
| 87.5 | 248.1 | 249.7 | 248.6 | 243.8 | 236.7 | 228.6 | 217.5 | 208.4 | 193.9 |
| 90.0 | 208.1 | 211.5 | 209.1 | 203.8 | 198.0 | 189.2 | 181.4 | 171.3 | 159.6 |
| 92.5 | 175.1 | 176.7 | 173.3 | 169.5 | 163.1 | 157.8 | 148.2 | 139.8 | 129.4 |
| 95.0 | 142.1 | 143.4 | 142.7 | 138.9 | 133.3 | 127.0 | 121.1 | 111.7 | 102.3 |
| 97.5 | 110.8 | 111.9 | 111.9 | 108.1 | 104.1 | 98.8 | 93.6 | 85.6 | 77.4 |
| 100.0 | 83.5 | 86.1 | 85.0 | 84.2 | 80.4 | 75.9 | 70.5 | 63.0 | 55.2 |
| 102.5 | 59.5 | 61.5 | 61.9 | 60.1 | 57.7 | 54.3 | 49.7 | 44.4 | 36.9 |
| 105.0 | 40.5 | 41.7 | 42.1 | 41.3 | 39.6 | 36.7 | 34.0 | 29.6 | 24.4 |
| 120.0 | 4.8 | 5.0 | 5.0 | 4.6 | 4.4 | 4.1 | 3.6 | 3.1 | 2.5 |
| 135.0 | 4.0 | 0.0 | 0.0 | 4.0 0.0 | 4.4 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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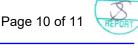
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| Road side luminous intensity data (cd) | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C-Plane | | | | | | | | | |
| Gamma (°) | C25 | C30 | C35 | C40 | C45 | C50 | C60 | C75 | C90 |
| 0.0 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 | 355.2 |
| 10.0 | 357.7 | 356.5 | 355.0 | 353.4 | 352.1 | 350.8 | 348.6 | 344.1 | 342.3 |
| 20.0 | 358.4 | 355.5 | 352.7 | 349.6 | 346.5 | 343.6 | 337.2 | 325.8 | 318.8 |
| 30.0 | 349.3 | 343.2 | 337.9 | 332.2 | 327.5 | 322.4 | 313.0 | 298.3 | 289.9 |
| 35.0 | 340.9 | 333.3 | 326.0 | 318.9 | 312.9 | 307.4 | 296.8 | 281.2 | 273.5 |
| 40.0 | 332.9 | 323.1 | 314.3 | 306.0 | 298.1 | 291.2 | 279.1 | 262.5 | 256.1 |
| 45.0 | 333.2 | 318.6 | 305.1 | 292.7 | 281.4 | 273.3 | 259.0 | 241.7 | 237.7 |
| 47.5 | 333.8 | 317.2 | 301.7 | 287.1 | 273.8 | 263.7 | 248.1 | 231.5 | 227.7 |
| 50.0 | 334.9 | 316.3 | 298.6 | 282.0 | 266.4 | 254.5 | 237.3 | 222.7 | 220.0 |
| 52.5 | 337.7 | 316.1 | 295.9 | 277.2 | 259.1 | 245.4 | 226.7 | 214.8 | 211.9 |
| 55.0 | 341.5 | 316.9 | 294.1 | 273.2 | 253.2 | 237.9 | 218.0 | 208.1 | 205.5 |
| 57.5 | 347.4 | 319.1 | 293.4 | 270.6 | 248.7 | 232.1 | 210.4 | 202.3 | 199.4 |
| 60.0 | 355.8 | 323.8 | 294.7 | 269.2 | 245.8 | 228.0 | 205.0 | 198.1 | 192.7 |
| 62.5 | 363.9 | 330.1 | 297.6 | 269.5 | 244.0 | 224.9 | 200.5 | 194.1 | 185.7 |
| 65.0 | 373.0 | 335.8 | 300.4 | 270.0 | 243.0 | 222.6 | 196.7 | 188.4 | 179.7 |
| 67.5 | 380.9 | 340.7 | 303.2 | 270.6 | 242.3 | 221.8 | 193.9 | 182.9 | 177.0 |
| 70.0 | 388.7 | 345.6 | 306.5 | 271.6 | 242.3 | 221.1 | 192.7 | 176.5 | 173.3 |
| 72.5 | 392.0 | 344.5 | 304.8 | 269.9 | 239.9 | 218.9 | 190.8 | 169.2 | 163.0 |
| 75.0 | 382.1 | 329.6 | 289.3 | 256.8 | 231.1 | 212.1 | 186.5 | 163.7 | 150.2 |
| 77.5 | 355.3 | 305.7 | 264.8 | 233.5 | 210.0 | 193.5 | 171.8 | 149.2 | 135.2 |
| 80.0 | 314.4 | 273.6 | 232.0 | 202.1 | 182.0 | 166.9 | 150.8 | 129.6 | 118.8 |
| 82.5 | 268.2 | 234.8 | 200.7 | 172.2 | 152.5 | 140.5 | 128.5 | 110.5 | 102.2 |
| 85.0 | 221.5 | 198.2 | 169.5 | 143.2 | 126.2 | 116.7 | 107.4 | 92.0 | 84.6 |
| 87.5 | 178.8 | 162.1 | 139.4 | 115.2 | 101.4 | 93.6 | 86.3 | 73.8 | 69.4 |
| 90.0 | 149.0 | 132.9 | 113.5 | 90.7 | 79.3 | 72.3 | 68.2 | 58.6 | 54.9 |
| 92.5 | 118.4 | 104.4 | 88.5 | 68.3 | 58.2 | 54.5 | 51.9 | 46.2 | 42.8 |
| 95.0 | 92.4 | 80.1 | 66.0 | 48.8 | 40.4 | 38.5 | 39.1 | 36.4 | 33.2 |
| 97.5 | 68.2 | 56.8 | 46.3 | 31.5 | 26.2 | 26.1 | 26.9 | 27.6 | 24.8 |
| 100.0 | 47.2 | 38.1 | 29.3 | 19.2 | 16.0 | 15.9 | 18.4 | 20.0 | 18.4 |
| 102.5 | 31.2 | 23.5 | 17.8 | 10.6 | 8.9 | 9.0 | 11.7 | 13.3 | 12.1 |
| 105.0 | 20.4 | 16.1 | 12.3 | 7.3 | 5.9 | 5.7 | 6.8 | 8.2 | 7.7 |
| 120.0 | 1.8 | 1.2 | 0.7 | 0.4 | 0.3 | 0.3 | 0.3 | 0.6 | 0.8 |
| 135.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |







REPORT program version: 3.808a

Activity address: 50 Redcliffe Gardens Drive, Clontarf, Old, 4019, Australia.

05-Jun-23 17:47:19



Accredited for compliance with ISO/IEC 17025 -Testing.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accreditation No. 2258

Test Report No. LL24641

Western Power. Product ID: 80 W Mercury Vapour Roadster Body with 18W LED Lamp. Cast aluminium body with white and raw finish and black plastic gear cover, overall extents ~ 465 x 275 x 125 mm deep. Clear bowl lens with prismatic ribbing forms luminous volume of 313 x 270 x 75 mm deep. Specular hammertone reflectors about lamp. One Philips 18W 9290023499 LED lamp centred in L/V. One Tridonic.Atco OMB80-03 250V 50Hz magnetic ballast.

Tested at 240 V 50 Hz. Spigot mount in C270 position.

| Environment | Photometric distance | 8.0 m |
|-------------|----------------------|---------|
| | Ambient temperature | 25.0 °C |

Sampling was not performed. This report is applicable only to the sample that was tested. Notes

> The significance of the report is limited to the extent that the sample is representative of the population.

> Testing was performed in a laboratory with suitable control of environmental conditions, stray light, electrical supply and stabilisation. The sample was maintained in a fixed orientation for the duration of testing.

> The photometric values contained in this report are absolute, they have not been scaled by the luminous flux emitted by the light source .

> Prorating values for the use of other light source/driver combinations, or for use in different environmental conditions, may yield erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Cgamma coordinate system as described in CIE Publication number 121.

The term "Total luminaire power" may appear in this report, it represents the total electrical power consumption of the device tested.

LightLab Procedure Test-B3130. Tested in accordance with the applicable sections of CIE Publication Procedure Numbers 121 and 34; with reference to Australian Standard AS1680, Part 3.

Measurement uncertainties are available on request. Measurement uncertainties







