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Report of Test LL24638A

Western Power. Product ID: 125 W Mercury Vapour Roadster Body with 42 W 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 42 W 9290020065 lamp centred in L/V. One Tridonic OMB125-05 250V 50Hz magnetic ballast.

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



Performance Summary

Luminous Flux3691ImTotal Luminaire Power38.3WLuminous Efficacy96.3Im / 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)

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Test Report No. LL24638A Western Power. Product ID: 125 W Mercury Vapour Roadster Body with 42 W LED Lamp.

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270 90 400 300 60 800 330 30 1200 Kerbside / Downstream C0-Solid, Plane of maximum-Dashed, C90-Grey (cd) Streetside / Upstream C0 aligned towards oncoming traffic **Street Lantern Summary:** Report data as tested. Luminous Flux (Im) Upward Downward Total Street Side 43.3 1647 1691 lm House Side 1938 63.2 2001 lm **Total Luminous Flux** 3691 lm Certified by: **Toby Southgate** Date of test 5-May-2023 Authorised Signatory Date of report 05-Jun-2023 Page 3 of 11

Polar Light Distribution Curves

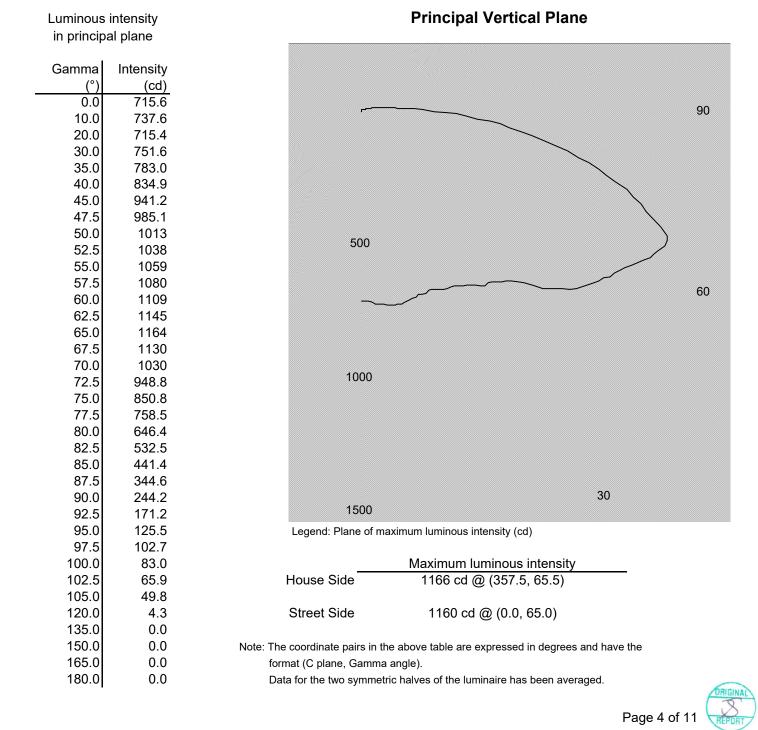
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Note: The coordinate pairs in the above table are expressed in degrees and have the format (C plane, Gamma angle). Data for the two symmetric halves of the luminaire has been averaged.

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Page 5 of 11



Principal Conical Surface

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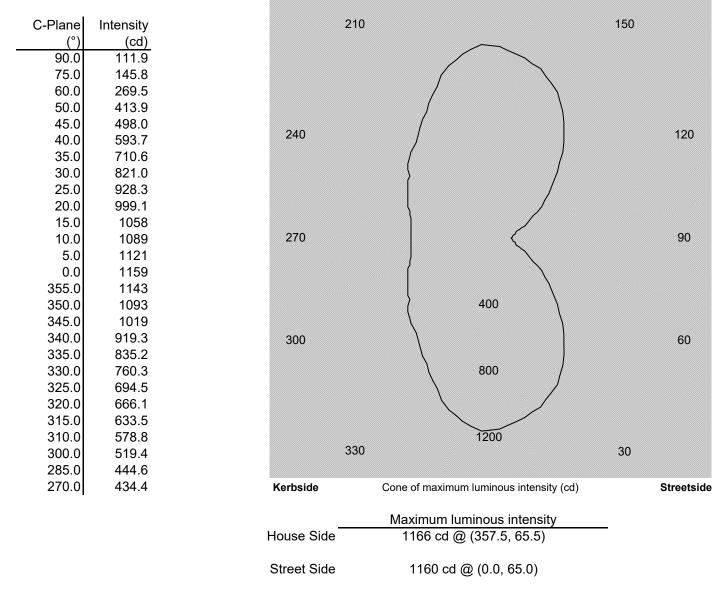
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Luminous intensity in principal cone



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I₉₀ =

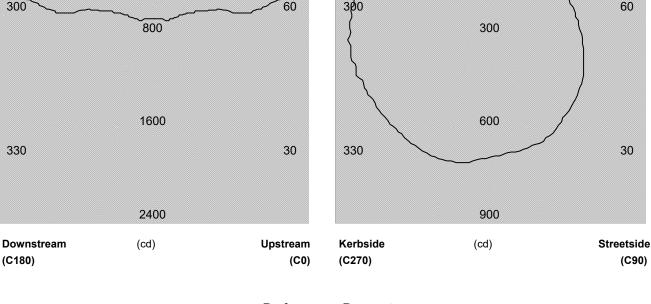
 $I_{80} / I_{88} =$

250.6 cd

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

1.938

2400					900	
(cd)		Ur	ostream (C0)	Kerbside (C270)	(cd)	
		Ρ	erforma	nce Parameters		
I ₈₀	=	634.2	cd			
I ₈₈	=	327.2	cd			



Polar curve through CIE C0 / C180

Polar curve through CIE C90 / C270

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270

90

60

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90

60

30

(C90)



270

300

330

(C180)





The isocandela contour units are expressed as candela.

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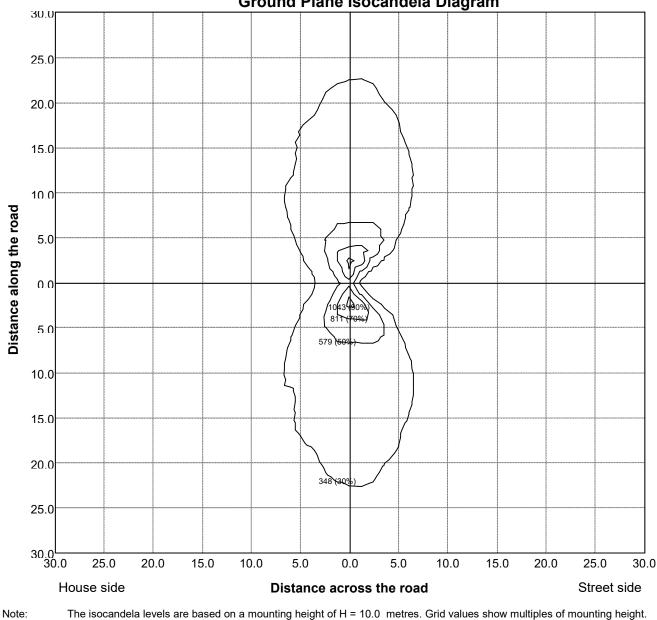
The isocandela contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.

Page 7 of 11

Upstream and downstream sides have been averaged.

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Ground Plane Isocandela Diagram

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Tested at 240 V 50 Hz. Spigot mount in C270 position.										
Kerb side luminous intensity data (cd)										
C-Plane										
C285	C300	C310	C315	C320	C325	C330				
715.6	715.6	715.6	715.6	715.6	715.6	715.6				
740.5	742.2	743.8	745.8	746.8	748.4	748.1				
713.3	734.0	737.7	734.8	731.3	730.0	728.3				
668.2	699.6	703.8	713.5	723.3	735.1	744.8				
648.5	677.3	695.2	709.0	725.8	741.4	758.5				
621.0	655.9	683.8	699.2	716.4	741.6	768.1				
585.7	629.1	664.8	685.2	715.1	751.8	782.9				
572.6	617.5	655.6	679.2	717.6	759.6	788.4				
551.3	607.6	647.8	670.9	709.8	754.4	800.6				
537.0	595.3	635.8	665.2	707.8	755.4	817.7				
518.0	582.2	626.3	656.8	710.7	767.9	831.7				
499.1	564.5	617.4	655.6	706.0	771.6	818.4				
482.0	550.6	606.7	652.7	710.4	766.3	799.8				
466.1	537.0	597.1	645.5	699.5	733.8	776.1				
447.8	522.1	580.6	637.8	675.7	699.1	764.6				
431.7	506.1	564.9	614.4	638.1	681.8	750.6				
409.8	479.5	540.9	581.0	614.1	669.5	748.6				

547.9

512.4

468.1

413.5

362.4

302.6

229.2

142.0

85.5

64.1

47.8

32.8

21.7

13.3

0.0

0.0

0.0

0.0

0.0

588.7

556.4

516.9

458.6

395.8

323.1

235.8

157.1

102.3

72.2

53.0

37.4

24.6

16.2

0.4

0.0

0.0

0.0

0.0

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C335

715.6

746.9

726.0

751.5

770.8

791.4

810.6

832.9

864.5

875.6

876.4

860.1

847.4

828.3

833.7

846.1

845.8

823.4

750.5

670.0

569.0

459.0

370.6

288.5

213.3

136.2

99.7

78.0

58.3

41.1

28.5

2.4

0.0

0.0

0.0

0.0

729.8

700.9

640.4

551.1

453.7

374.3

271.1

186.5

128.4

91.6

69.8

50.6

34.6

23.0

1.6

0.0

0.0

0.0

0.0

Page 8 of 11

654.3

617.2

574.5

508.2

431.2

351.0

267.1

179.5

110.8

81.2

58.4

41.4

28.1

18.8

0.9

0.0

0.0

0.0

0.0



Gamma (°

0.0

10.0

20.0

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

C270

715.6

738.6

707.3

652.7

625.1

600.5

573.3

552.9

542.8

518.4

507.8

481.7

470.1

454.6

436.0

417.8

391.8

360.5

325.6

299.1

264.9

229.6

182.2

140.4

114.1

91.4

74.9

57.2

35.5

15.4

7.2

0.0

0.0

0.0

0.0

0.0

379.8

342.7

308.8

270.1

236.2

196.5

145.9

111.9

90.5

70.9

46.2

19.4

10.0

5.4

0.0

0.0

0.0

0.0

0.0

453.4

422.6

386.3

345.3

299.3

246.3

181.8

120.7

83.0

64.1

42.1

25.3

11.3

6.5

0.0

0.0

0.0

0.0

0.0

513.7

477.3

431.4

378.5

325.7

273.5

212.5

140.4

85.5

65.1

48.5

32.3

18.0

10.8

0.0

0.0

0.0

0.0

0.0

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

	ĸ	(erb side			intensity d	lata (cd)	R	oad side	
					C-Plane				
Gamma (°)	C340	C345	C350	C355	C0	C5	C10	C15	C20
0.0	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
10.0	743.8	741.8	740.5	738.8	737.0	735.0	734.8	735.3	733.7
20.0	724.5	721.7	718.4	716.9	714.9	713.4	712.1	711.0	711.0
30.0	753.8	754.5	755.1	752.6	752.0	748.7	740.8	729.2	712.3
35.0	778.2	780.7	781.1	782.3	784.2	779.5	766.0	747.2	719.5
40.0	795.2	800.3	816.8	830.9	838.8	837.6	818.5	796.0	753.4
45.0	835.5	881.6	914.8	936.9	941.9	937.7	922.7	878.8	823.6
47.5	882.4	918.2	955.4	980.7	990.0	982.0	958.2	909.0	856.0
50.0	903.9	947.2	981.4	1005	1018	1009	986.1	935.5	864.4
52.5	918.7	953.1	996.1	1027	1042	1037	1005	946.5	878.1
55.0	910.6	958.0	1008	1052	1064	1046	1013	959.5	886.5
57.5	902.2	956.8	1027	1075	1090	1073	1026	969.3	901.5
60.0	893.4	973.4	1039	1095	1120	1097	1054	1001	922.4
62.5	906.1	981.9	1069	1132	1150	1119	1081	1026	959.8
65.0	916.3	1012	1092	1139	1160	1132	1094	1052	993.6
67.5	935.7	1025	1098	1141	1102	1057	1036	1035	1024
70.0	933.9	1007	1050	1039	1025	1002	994.3	1026	1016
72.5	879.5	944.9	946.7	960.9	938.9	921.2	927.8	954.7	971.3
75.0	810.8	825.4	859.6	854.6	843.2	823.3	830.6	861.9	894.4
77.5	695.5	724.3	755.5	760.6	747.3	728.4	727.4	776.5	803.6
80.0	569.1	615.3	644.8	650.3	634.2	620.8	639.5	667.7	686.3
82.5	474.8	509.0	534.5	534.2	536.0	531.3	535.3	544.5	553.5
85.0	398.5	416.8	420.3	435.1	444.8	442.2	435.4	430.3	422.1
87.5	315.3	326.0	330.5	342.6	346.1	346.6	336.1	327.0	301.3
90.0	228.5	229.9	239.3	245.2	250.6	249.9	241.0	225.1	202.3
92.5	147.8	153.3	161.2	164.1	169.2	166.1	153.7	139.9	118.4
95.0	110.1	115.2	119.7	124.6	126.1	123.2	115.0	100.8	85.4
97.5	86.8	93.5	98.2	101.4	102.6	102.5	92.7	79.9	66.9
100.0	68.2	75.6	79.1	81.6	83.2	83.9	76.8	63.5	51.4
102.5	49.4	56.1	61.7	63.7	65.9	66.1	61.2	50.3	39.0
105.0	34.2	41.3	44.9	48.3	51.2	50.9	47.8	38.9	29.7
120.0	3.4	4.0	4.3	4.4	4.4	4.1	3.6	3.0	2.2
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 9 of 11

Page 10 of 11

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			Road			ity data (co	d)		
•					C-Plane				
Gamma (°)	C25	C30	C35	C40	C45	C50	C60	C75	C90
0.0	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
10.0	730.4	727.0	722.8	719.2	715.9	713.1	705.4	695.5	690.8
20.0	711.8	708.2	703.9	700.9	694.5	688.1	669.0	641.4	626.0
30.0	694.5	680.5	663.9	649.0	638.2	628.6	603.5	563.1	538.5
35.0	694.9	663.2	640.4	618.2	601.0	585.2	555.5	509.3	480.1
40.0	698.4	646.9	604.6	574.0	547.4	525.9	496.9	450.2	414.9
45.0	762.8	687.0	608.3	541.5	492.8	456.4	421.7	375.9	351.2
47.5	790.7	721.3	635.0	547.8	479.7	431.1	382.2	334.9	315.9
50.0	802.9	733.3	653.9	567.2	483.9	413.7	347.6	298.1	280.2
52.5	802.1	730.3	663.2	586.8	504.6	420.3	318.9	262.7	242.2
55.0	809.8	728.2	663.6	592.6	522.4	444.4	309.9	231.6	208.4
57.5	820.4	731.7	659.7	591.6	523.9	459.6	326.1	207.6	177.3
60.0	840.3	746.3	666.2	590.3	519.5	450.6	328.8	189.7	150.1
62.5	865.6	775.5	681.0	588.7	508.0	430.1	289.4	169.6	131.5
65.0	917.4	813.2	707.9	593.1	499.0	415.9	270.3	149.0	114.4
67.5	955.8	843.8	716.4	600.8	502.2	412.6	267.2	139.2	105.0
70.0	976.0	878.9	739.3	603.7	497.6	404.0	266.2	135.4	98.1
72.5	959.2	887.6	753.7	596.6	483.7	395.8	262.9	132.4	89.7
75.0	908.6	861.1	744.8	582.7	475.9	387.2	258.1	121.9	81.0
77.5	826.8	807.5	709.4	566.6	468.9	379.9	238.1	106.2	71.3
80.0	707.7	682.8	619.4	504.0	415.2	341.1	231.3	94.3	60.2
82.5	553.4	528.5	481.0	385.4	312.7	258.5	212.1	84.6	49.8
85.0	413.3	381.5	341.0	267.4	208.7	188.3	163.8	68.3	39.8
87.5	287.4	249.4	216.5	157.1	115.4	143.8	108.0	50.1	29.4
90.0	175.2	143.4	123.2	66.8	73.6	77.5	67.4	34.8	22.6
92.5	98.2	77.3	56.0	38.4	36.7	32.4	31.8	21.9	18.9
95.0	69.5	52.1	37.8	28.3	24.7	22.2	19.9	17.1	17.4
97.5	53.4	37.9	27.8	21.9	19.1	17.1	15.6	14.9	15.9
100.0	40.7	28.0	21.5	17.8	15.7	14.0	12.9	13.2	15.2
102.5	30.7	21.9	17.1	14.4	12.7	11.7	11.0	11.6	13.4
105.0	22.8	17.2	13.2	11.1	10.1	9.4	9.2	10.0	11.6
120.0	1.6	0.8	0.3	0.1	0.2	0.2	0.3	1.0	1.2
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



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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 42 W 9290020065 lamp centred in L/V. One Tridonic OMB125-05 250V 50Hz magnetic ballast. Tested at 240 V 50 Hz. Spigot mount in C270 position. Environment Photometric distance 8.0 m 24.9 °C Ambient temperature 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

25-May-23 15:24:55

REPORT program version: 3.808a



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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.