

Report of Test LL24637

Western Power. Product ID: 125 W Mercury Vapour Roadster Body with 125 W MV Lamp.
Cast aluminium body with white 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 Sylvania HSL-BW-125W lamp centred in L/V.
One Tridonic OMB125-05 250V 50Hz magnetic ballast.
Tested at 240 V 50 Hz. Spigot mount in C270 position.

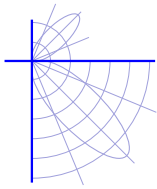


Performance Summary

Luminous Flux	4161 lm
Total Luminaire Power	130.6 W
Luminous Efficacy	31.9 lm / W

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

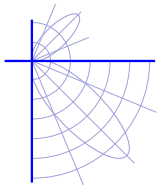
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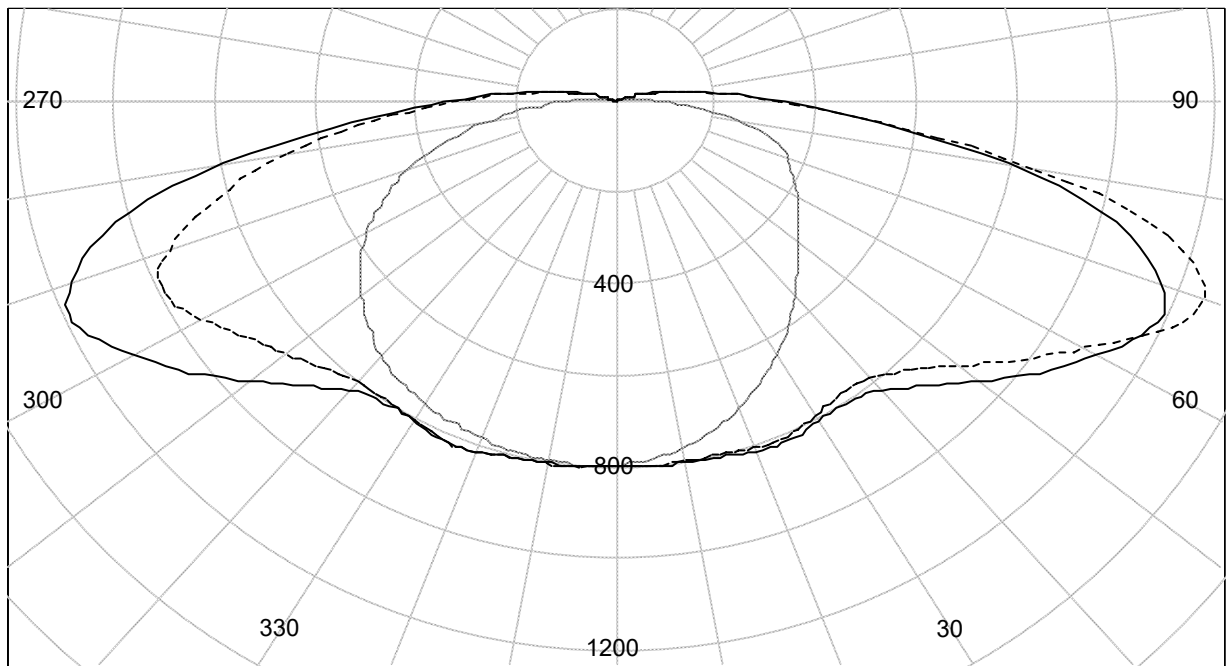




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Polar Light Distribution Curves



Kerbside / Downstream

C0-Solid, Plane of maximum-Dashed, C90-Grey (cd)
C0 aligned towards oncoming traffic

Streetside / Upstream

Street Lantern Summary:

Report data as tested.

	Luminous Flux (lm)		
	Upward	Downward	Total
Street Side	82.1	2006	2088 lm
House Side	76.2	1997	2073 lm
Total Luminous Flux			4161 lm

Certified by:

Toby Southgate
Authorised Signatory

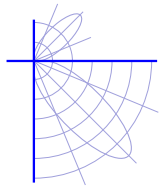
Date of test

4-May-2023

Date of report

05-Jun-2023





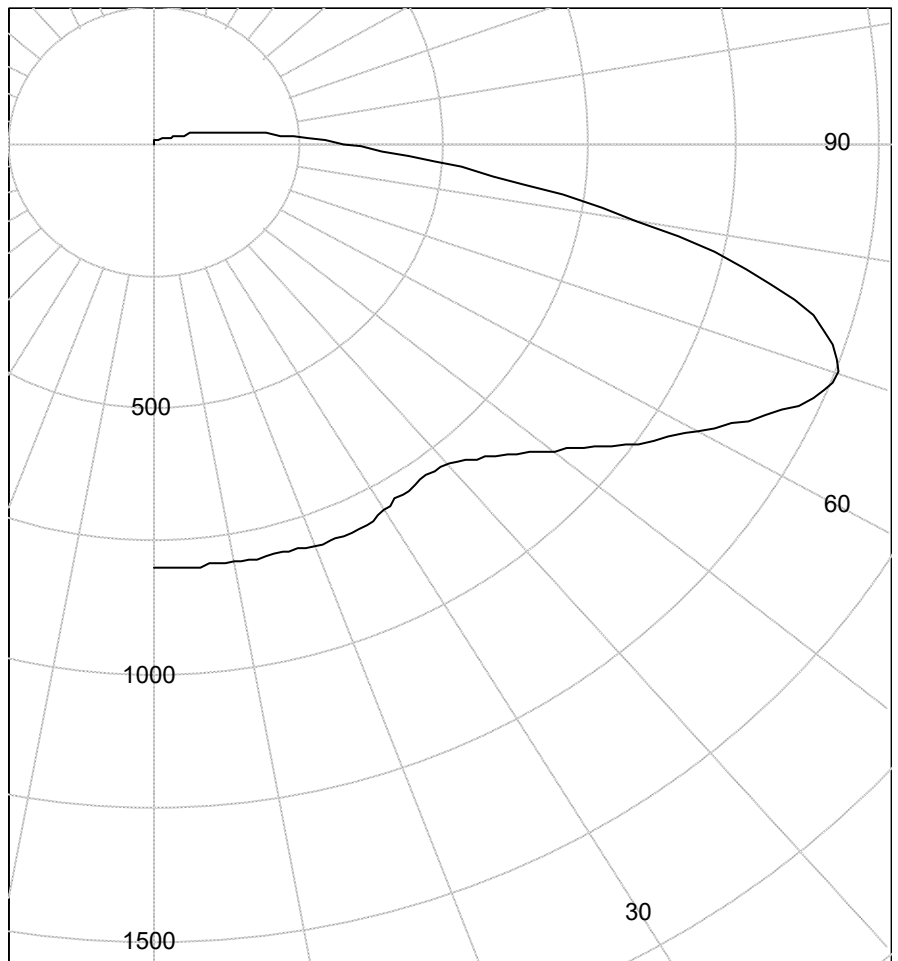
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Luminous intensity
in principal plane

Principal Vertical Plane

Gamma (°)	Intensity (cd)
0.0	797.8
10.0	800.9
20.0	809.0
30.0	796.3
35.0	783.8
40.0	790.3
45.0	831.2
47.5	862.6
50.0	900.7
52.5	942.8
55.0	989.9
57.5	1036
60.0	1083
62.5	1136
65.0	1195
67.5	1236
70.0	1252
72.5	1220
75.0	1143
77.5	1015
80.0	845.0
82.5	673.6
85.0	532.8
87.5	412.1
90.0	326.9
92.5	254.7
95.0	194.2
97.5	142.2
100.0	103.9
102.5	82.7
105.0	63.5
120.0	5.2
135.0	0.0
150.0	0.0
165.0	0.0
180.0	0.0



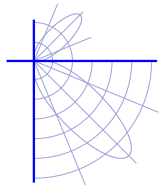
Legend: Plane of maximum luminous intensity (cd)

	Maximum luminous intensity
House Side	1188 cd @ (0.0, 66.5)
Street Side	1252 cd @ (15.0, 69.5)

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.





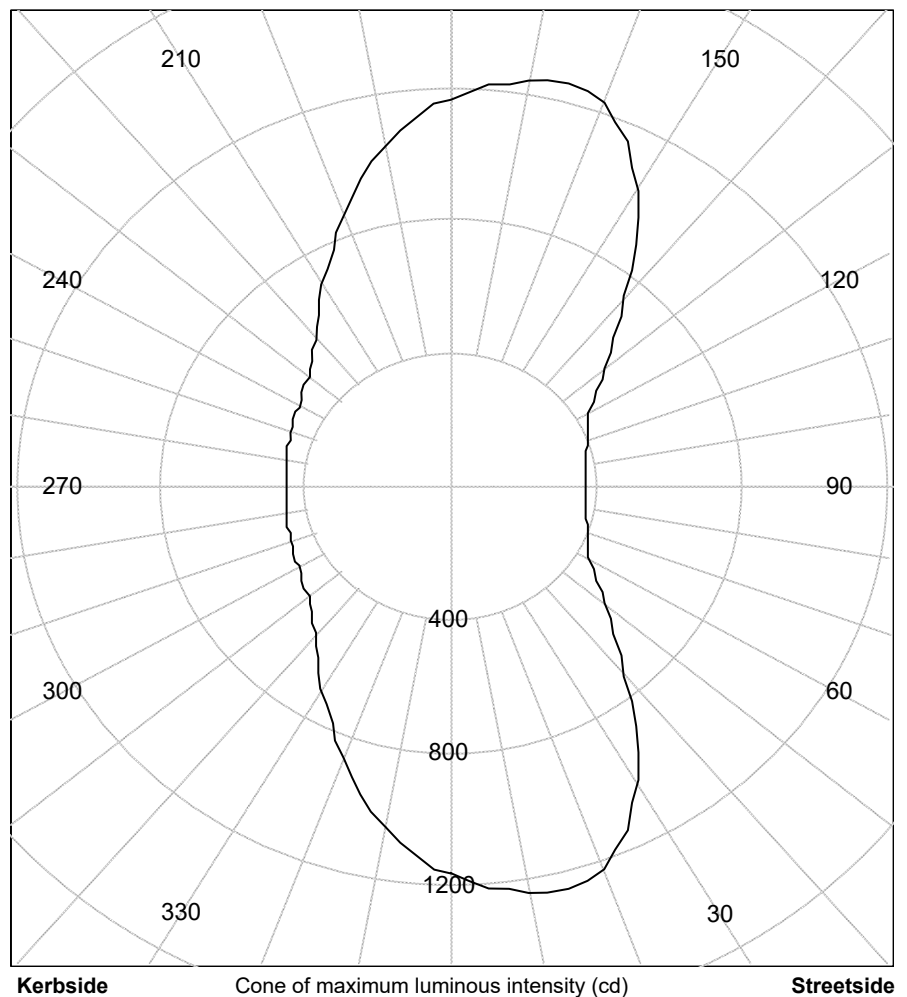
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Luminous intensity
in principal cone

C-Plane (°)	Intensity (cd)
90.0	368.5
75.0	381.9
60.0	436.0
50.0	547.0
45.0	631.6
40.0	746.4
35.0	887.9
30.0	1025
25.0	1142
20.0	1225
15.0	1252
10.0	1242
5.0	1216
0.0	1164
355.0	1114
350.0	1042
345.0	959.5
340.0	872.5
335.0	780.3
330.0	707.9
325.0	636.1
320.0	579.5
315.0	536.5
310.0	511.0
300.0	484.4
285.0	463.5
270.0	451.0

Principal Conical Surface



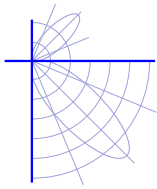
Maximum luminous intensity

House Side 1188 cd @ (0.0, 66.5)

Street Side 1252 cd @ (15.0, 69.5)

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.

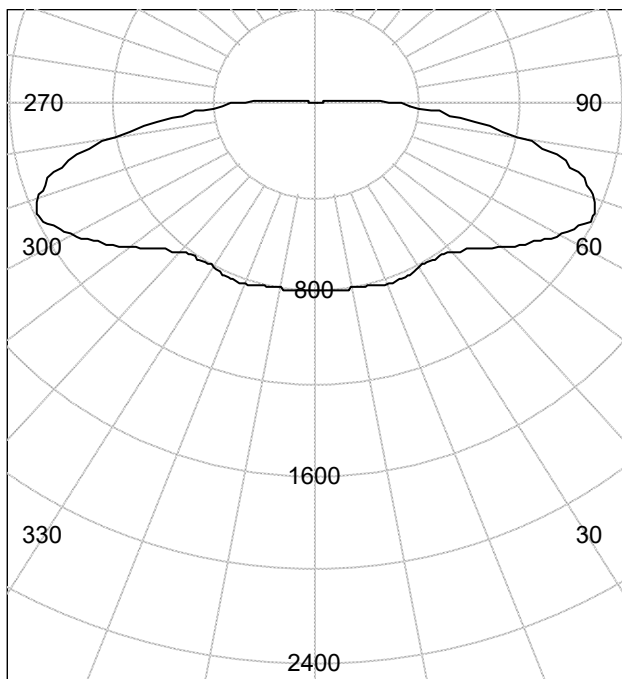




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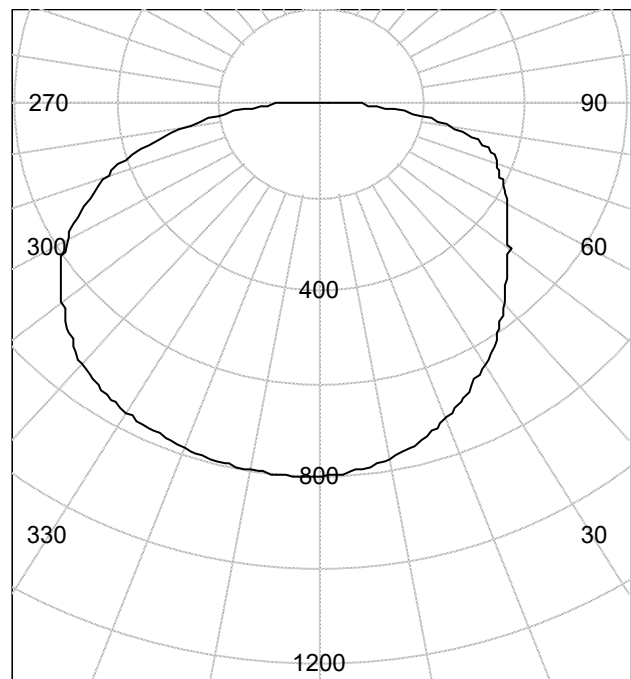
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Polar curve through CIE C0 / C180



Downstream (C180) (cd) **Upstream (C0)**

Polar curve through CIE C90 / C270



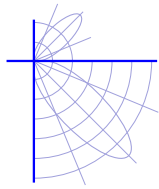
Kerbside (C270) (cd) **Streetside (C90)**

Performance Parameters

I_{80}	=	796.7	cd
I_{88}	=	401.7	cd
I_{90}	=	339.3	cd
I_{80} / I_{88}	=	1.983	

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

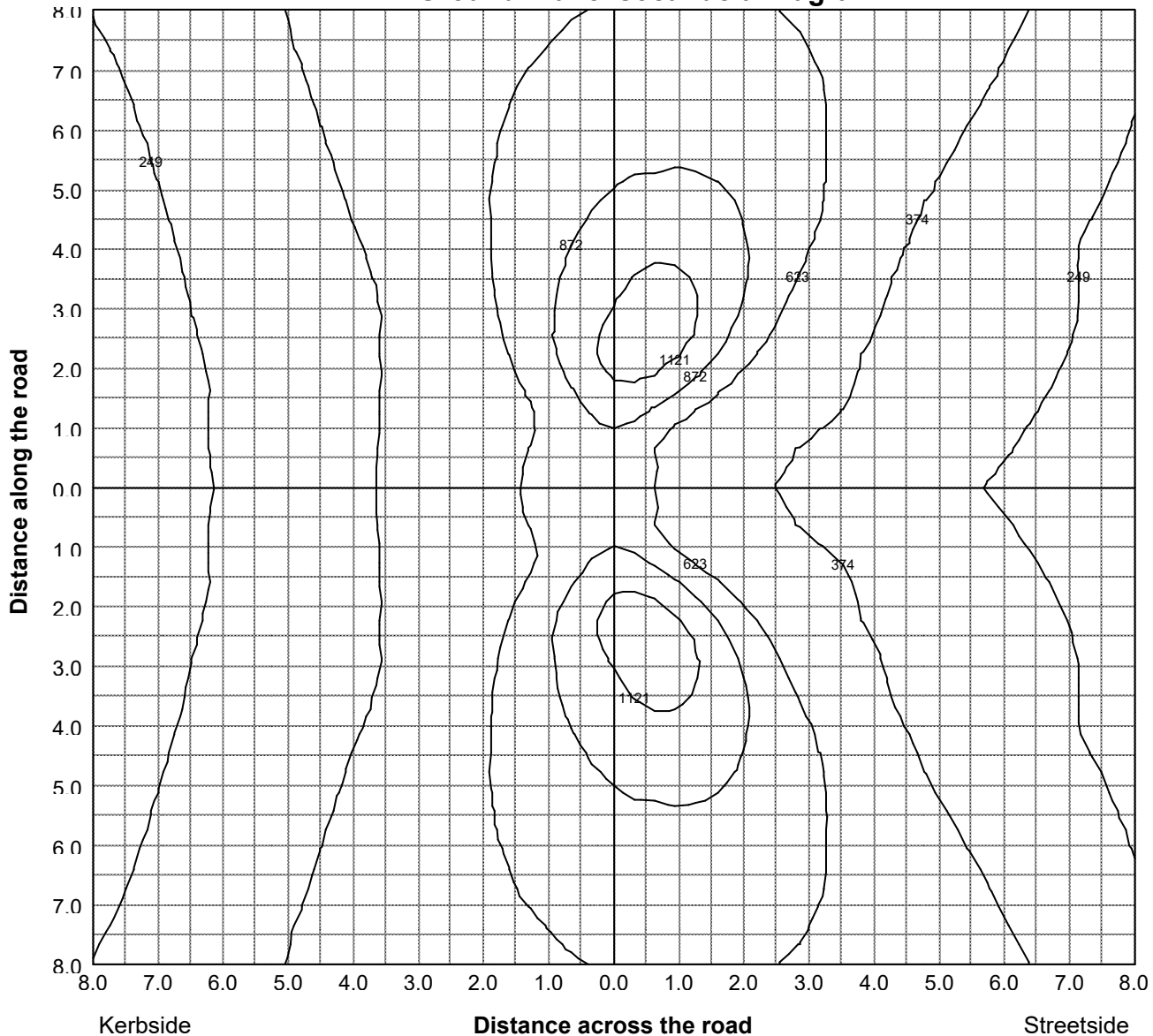




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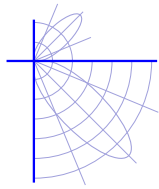
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Ground Plane Isocandela Diagram



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.





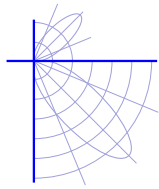
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Kerb side luminous intensity data (cd)

Gamma (°)	C-Plane								
	C270	C285	C300	C310	C315	C320	C325	C330	C335
0.0	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
10.0	797.4	799.5	804.1	807.0	805.3	806.3	806.4	805.6	805.7
20.0	785.3	787.3	801.4	804.7	803.5	806.5	809.9	811.9	813.9
30.0	763.1	771.6	782.2	781.6	781.8	786.8	790.5	794.7	796.5
35.0	748.4	754.6	755.9	753.4	753.3	757.7	765.2	772.8	781.0
40.0	728.0	729.5	725.2	723.6	723.3	730.1	741.4	754.8	770.4
45.0	697.3	695.4	692.2	691.2	693.5	706.0	725.5	744.7	769.7
47.5	679.7	677.4	676.2	677.1	680.8	695.6	717.6	740.6	771.5
50.0	662.5	659.8	660.7	663.2	667.8	685.0	709.1	738.4	774.7
52.5	640.7	640.9	643.8	647.9	655.3	673.6	701.5	736.7	779.3
55.0	621.9	622.7	626.2	633.9	642.1	663.0	694.7	735.9	784.7
57.5	597.9	600.4	609.2	618.4	628.5	652.2	688.6	737.4	791.6
60.0	571.0	577.7	590.4	603.4	615.2	641.4	684.1	741.8	805.2
62.5	542.9	553.1	568.2	585.2	600.2	630.7	679.8	744.5	813.1
65.0	510.6	522.6	543.6	563.5	582.7	617.1	669.3	740.8	814.9
67.5	477.5	492.1	512.8	536.1	559.1	598.7	653.7	727.4	801.6
70.0	444.3	455.6	477.1	504.4	528.8	573.8	630.9	699.8	772.1
72.5	407.1	413.6	438.9	466.0	495.1	541.0	597.3	660.7	726.1
75.0	365.8	371.1	395.9	427.2	453.5	500.0	550.4	610.5	671.6
77.5	312.9	324.5	352.5	379.9	408.1	453.0	502.1	558.2	614.3
80.0	262.2	271.9	300.3	330.9	358.4	400.1	441.5	495.8	552.2
82.5	213.5	220.1	250.3	278.7	304.0	343.5	384.9	434.8	482.4
85.0	173.3	176.1	200.8	226.7	249.2	288.8	321.4	367.9	409.0
87.5	128.8	127.8	152.1	176.3	196.4	226.7	260.1	299.1	338.6
90.0	92.3	91.6	106.0	127.5	144.1	171.0	200.4	238.9	269.5
92.5	65.3	59.5	67.4	85.1	101.9	124.5	149.4	182.1	212.0
95.0	39.5	33.1	38.8	49.6	66.5	83.5	106.0	133.1	159.4
97.5	21.8	18.0	22.3	29.4	39.6	52.2	71.9	93.2	116.0
100.0	15.1	14.6	17.3	21.1	25.0	34.2	50.5	67.5	84.5
102.5	12.5	11.8	12.4	15.9	19.2	26.1	39.3	52.9	64.9
105.0	8.9	7.4	7.6	11.2	13.8	19.1	29.8	40.0	49.8
120.0	0.0	0.0	0.0	0.0	0.5	1.1	1.9	3.1	4.1
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



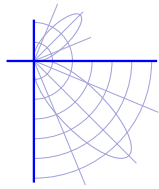


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Gamma (°)	Kerb side		Luminous intensity data (cd)						Road side	
	C340	C345	C350	C355	C-Plane		C10	C15	C20	
					C0	C5				
0.0	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	
10.0	806.1	805.2	806.0	803.2	804.0	803.0	800.0	800.9	798.9	
20.0	818.2	818.1	820.6	817.8	817.6	816.2	813.0	809.0	803.5	
30.0	806.2	803.2	811.5	809.1	809.5	808.5	803.5	796.3	789.2	
35.0	791.3	798.8	806.7	806.9	807.3	805.5	796.4	783.8	769.1	
40.0	787.6	802.6	818.1	824.3	827.0	823.8	811.4	790.3	764.1	
45.0	796.7	824.6	854.3	871.7	880.4	881.7	862.1	831.2	797.2	
47.5	806.1	841.4	878.3	904.3	916.2	919.8	897.3	862.6	821.8	
50.0	817.7	860.2	905.4	940.3	952.9	958.5	935.9	900.7	855.5	
52.5	828.4	881.2	934.7	972.5	994.4	1003	980.0	942.8	891.6	
55.0	841.4	900.2	965.2	1013	1035	1046	1024	989.9	942.9	
57.5	859.9	927.9	996.6	1050	1076	1087	1067	1036	988.8	
60.0	879.3	952.9	1026	1084	1110	1128	1111	1083	1038	
62.5	895.2	980.3	1057	1117	1149	1171	1160	1136	1091	
65.0	903.2	991.8	1074	1140	1177	1208	1207	1195	1149	
67.5	898.1	988.3	1074	1144	1186	1226	1237	1236	1200	
70.0	863.6	948.6	1030	1104	1156	1211	1240	1252	1223	
72.5	810.7	892.1	979.6	1046	1107	1167	1206	1220	1194	
75.0	749.7	822.9	901.6	969.4	1032	1096	1135	1143	1108	
77.5	683.7	751.7	817.0	872.7	930.7	980.9	1004	1015	979.7	
80.0	607.0	665.7	716.0	761.9	796.7	830.8	842.9	845.0	818.9	
82.5	530.0	573.4	604.7	634.4	656.3	671.8	678.4	673.6	659.4	
85.0	449.9	483.0	504.1	514.2	526.2	532.9	540.0	532.8	517.8	
87.5	371.2	395.8	409.8	420.5	419.9	425.5	422.7	412.1	401.3	
90.0	301.3	323.7	330.8	334.6	339.3	333.0	334.9	326.9	317.9	
92.5	238.6	250.8	257.7	262.2	264.4	263.3	258.7	254.7	246.8	
95.0	180.4	191.7	197.9	201.9	204.8	202.2	198.5	194.2	186.5	
97.5	131.9	140.1	146.7	151.4	151.5	149.1	146.8	142.2	134.4	
100.0	97.4	103.6	109.4	112.5	110.7	109.8	109.1	103.9	98.3	
102.5	75.2	81.4	87.1	90.0	88.4	87.3	86.1	82.7	78.0	
105.0	57.0	63.2	66.9	69.1	67.9	66.7	65.3	63.5	59.0	
120.0	4.9	5.4	5.5	5.6	5.6	5.4	5.2	5.2	4.7	
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	





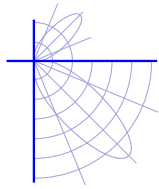
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Road side luminous intensity data (cd)

Gamma (°)	C-Plane								
	C25	C30	C35	C40	C45	C50	C60	C75	C90
0.0	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
10.0	797.5	797.4	793.2	791.5	789.0	785.0	783.0	775.7	771.8
20.0	800.1	795.5	787.0	779.2	772.1	767.2	753.9	730.2	716.9
30.0	779.8	771.6	759.1	745.3	729.1	720.0	694.5	661.5	644.2
35.0	753.2	738.0	723.5	702.8	687.0	675.2	651.6	621.7	601.9
40.0	737.9	710.8	685.3	659.7	638.4	624.0	602.1	574.2	556.2
45.0	752.4	709.7	669.3	630.5	600.7	580.5	551.4	525.6	515.7
47.5	768.4	721.6	677.2	632.7	594.6	565.6	529.7	507.0	498.3
50.0	791.7	736.5	681.3	635.6	592.5	557.0	512.7	488.8	480.7
52.5	823.7	759.0	700.5	640.5	589.8	549.6	495.9	470.6	463.6
55.0	863.9	788.0	716.3	649.4	591.7	545.4	480.9	454.1	447.4
57.5	912.1	829.4	742.4	664.9	599.1	545.7	470.2	439.5	432.4
60.0	963.1	876.5	778.6	684.3	608.9	549.0	462.1	425.4	421.1
62.5	1015	923.8	816.8	710.4	622.6	551.8	455.5	413.4	407.1
65.0	1072	969.6	853.4	728.9	630.3	552.4	448.8	399.9	388.1
67.5	1120	1010	881.6	742.4	633.5	551.7	441.3	389.1	375.0
70.0	1143	1026	889.8	744.5	630.1	544.8	434.0	380.2	366.6
72.5	1115	999.4	867.5	720.5	608.5	529.3	424.5	368.7	352.3
75.0	1035	929.7	807.2	668.0	564.1	493.5	406.8	356.4	325.7
77.5	911.2	827.0	723.4	596.5	501.9	440.4	366.5	325.0	292.5
80.0	767.4	699.4	613.2	505.4	423.3	369.1	315.5	281.2	249.5
82.5	622.7	565.1	509.2	417.8	345.0	306.8	266.2	239.0	207.7
85.0	491.7	452.8	409.4	337.8	276.4	241.4	210.1	192.4	160.5
87.5	384.2	353.3	325.9	263.4	203.6	177.8	156.8	143.1	116.5
90.0	300.2	280.2	248.7	198.4	146.3	121.9	106.8	102.5	80.0
92.5	231.5	210.1	186.2	146.4	97.2	75.8	67.8	69.0	49.4
95.0	174.7	154.8	135.0	101.8	61.9	44.6	39.6	42.6	30.3
97.5	126.5	111.2	91.6	67.9	38.4	27.6	25.3	25.3	20.7
100.0	91.3	79.5	65.6	48.0	25.8	19.9	19.9	17.8	18.8
102.5	71.6	61.1	50.5	36.5	20.1	16.1	16.8	16.1	18.2
105.0	52.8	45.4	37.1	26.8	15.6	12.3	13.3	14.1	16.1
120.0	4.1	3.4	2.6	1.9	1.3	0.9	0.8	1.8	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





Test Report No. LL24637

Western Power. Product ID: 125 W Mercury Vapour Roadster Body with 125 W MV Lamp.
 Cast aluminium body with white 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 Sylvania HSL-BW-125W 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
	Ambient temperature	24.9 °C

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

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.

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

Measurement uncertainties Measurement uncertainties are available on request.

