

Light Characterisation Report

Astro Kashima Bathroom Light 570mm

Project No: P4214 Customer: Astro

Report No: P4214-LCR-02

Issue: 02

Engineer: Michelle Mayes Approved: Mark McIntosh Date: 11/02/2015



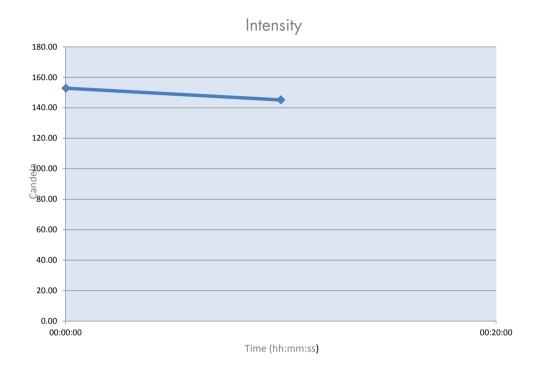


Summary

Date of Test		11/01/2014			
Project Number		P4214			
Client		Astro			
Product Description		Kashima Bathroom Light 290mm			
Product LED Type		Samsung LM561A (2 x FEM-1145)			
Product LED Bin		Unknown			
Measuring Distance (m)		4.50			
Tamb		20°C 44%RH			
Additional Comments					
Peak on axis intensity	152.89 candela	Chromaticity x	0.4386		
Stabalised on axis intensity	145.19 candela	Chromaticity y	0.4065		
Temperature Ratio	95.00%	CCT	2991K		
		CRI	83.4 (2991 R _a		
Luminous Intensity Distributio	n Scan 1				
Total Downward Luminous Flux	387.10 lumens	Beam FWHM (50%)	0° Rotation 98.5	90° Rotation 104.0	
		Beam FULL (10%)	159.0	167.0	
Total Upward Luminous Flux	0.00 lumens				
Average Total Luminous Flux	387.10 lumens	Scan Comments			
Downward Flux Fraction	100.00%				
Supply Voltage	230 Volts				
Samuel Co.	0.054	Α	Tatal Lumin	Efficacy	
Supply Current	0.064 Amps	Average	Total Luminous Flux	46.96 lm/W	
Supply Power	8.24 Watts	Perceived Down	ward Luminous Flux	46.96 lm/W	
Power Factor	0.56				



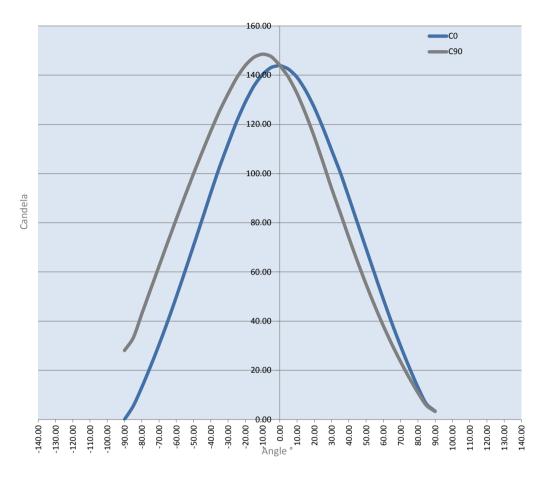
Intensity Data





Average Luminous Flux Data

Luminous Intensity Distribution

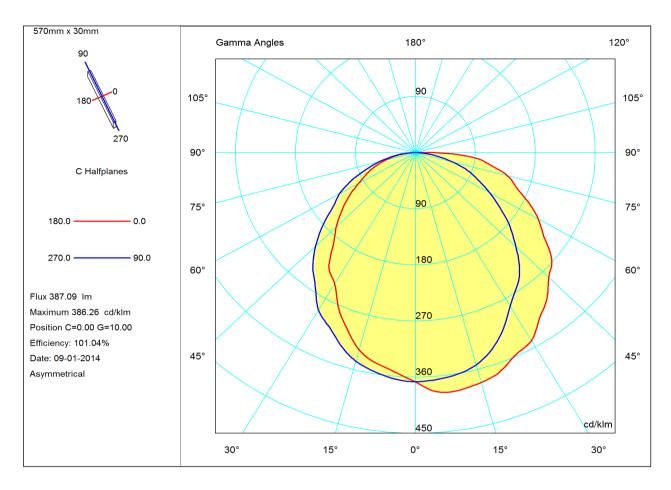


Perceived Downward Angle	90°	
Total Downward Luminous Flux	387.10 lumens	
Total Upward Luminous Flux	0.00 lumens	
Average Total Luminous Flux	387.10 lumens	
Downward Flux Fraction	100.00%	

	0° Rotation	90° Rotation
Beam FWHM (50%)	98.5	104
Beam FULL (10%)	159	167
Scan Comments		

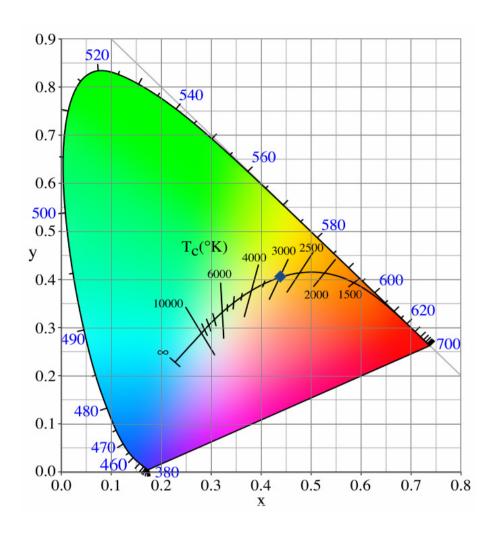


Polar Diagram





Chromaticity CIE 1931 Colour Space



	0.4206
Χ	0.4386
u	0.2506
u'	0.2506

У	0.4065
V	0.3484
v¹	0.5226



Efficacy

Input Voltage	230 V
Input Current	0.064 A
Total power	8.24 W
Power Factor	0.56
LED Vf	Not measured
LED If	Not measured
Driver efficiency	N/A

387 lm	Average Total Luminous Flux
47 lm/W	Efficacy
387 lm	Perceived Downward Luminous Flux
46.96 lm/W	Efficacy



Product Photographs



