Report of Test

LL12011

Spectrum Lighting 42 LED 'Lumidas' recessed downlight. Cat No KLD-08GU10
Luminaire comprises aluminium fascia plate with screw in translucent lens.
PCB insert carries 42 LED's with integral electronic ballast. PCB marked FAWOO 08-10.
Rear of luminaire has wires wound into a square shape to act as heatsink.
Luminous opening 52mm dia x 10mm deep. Tested at 240V 50Hz.
Rear of assembly marked "KLD-08GU10 220V 50-60Hz 8W PURE WHITE".

Performance Summary

Light Output Ratio	N / A
Luminaire Power	7.31 W
SHR Nominal	1.25
SHR Maximum	1.38

PREPARED FOR :

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LightLab
INTERNATIONAL

NATA Accreditation 2258

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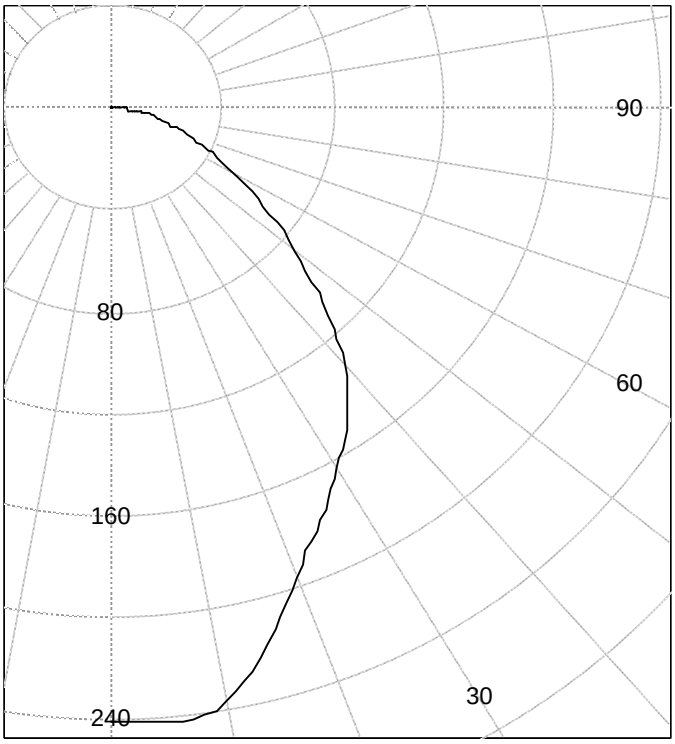
LEGEND : C0-Solid (cd)



INTENSITY DATA (cd)

Gamma	C0	LMS.	Gamma	C0	LMS.
0	240		90	4	
5	242	23	95	0	1
10	237		100	0	
15	218	61	105	0	0
20	196		110	0	
25	178	82	115	0	0
30	164		120	0	
35	149	93	125	0	0
40	131		130	0	
45	108	84	135	0	0
50	86		140	0	
55	67	60	145	0	0
60	51		150	0	
65	38	38	155	0	0
70	27		160	0	
75	19	21	165	0	0
80	13		170	0	
85	8	9	175	0	0
90	4		180	0	

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	%Lamp	%Luminaire
0-30	166	N / A	35.2
0-40	259	N / A	54.9
0-60	403	N / A	85.5
0-90	470	N / A	99.7
40-90	211	N / A	44.7
60-90	67	N / A	14.2
90-180	2	N / A	0.3
0-180	472	N / A	100.0

Light Output Ratio = N / A

SHR-NOM = 1.25
SHR-MAX = 1.38

Calculated using the TM5 fine grid method.

CERTIFIED BY: E Southgate

Eric Southgate
Authorised Signatory

Date of test 6-Jul-2008
Date of report 14-Jul-2008

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INTENSITY DATA (cd)

Gamma	MEAN	LUMENS	Gamma	MEAN	LUMENS
0.0	240		90.0	4	
2.5	241		92.5	1	
5.0	242	23	95.0	0	
7.5	241		97.5	0	1
10.0	237		100.0	0	
12.5	229		102.5	0	
15.0	218	61	105.0	0	
17.5	207		107.5	0	0
20.0	196		110.0	0	
22.5	186		112.5	0	
25.0	178	82	115.0	0	
27.5	171		117.5	0	0
30.0	164		120.0	0	
32.5	157		122.5	0	
35.0	149	93	125.0	0	
37.5	141		127.5	0	0
40.0	131		130.0	0	
42.5	120		132.5	0	
45.0	108	84	135.0	0	
47.5	97		137.5	0	0
50.0	86		140.0	0	
52.5	77		142.5	0	
55.0	67	60	145.0	0	
57.5	59		147.5	0	0
60.0	51		150.0	0	
62.5	44		152.5	0	
65.0	38	38	155.0	0	
67.5	32		157.5	0	0
70.0	27		160.0	0	
72.5	23		162.5	0	
75.0	19	21	165.0	0	
77.5	16		167.5	0	0
80.0	13		170.0	0	
82.5	10		172.5	0	
85.0	8	9	175.0	0	
87.5	6		177.5	0	0
90.0	4		180.0	0	

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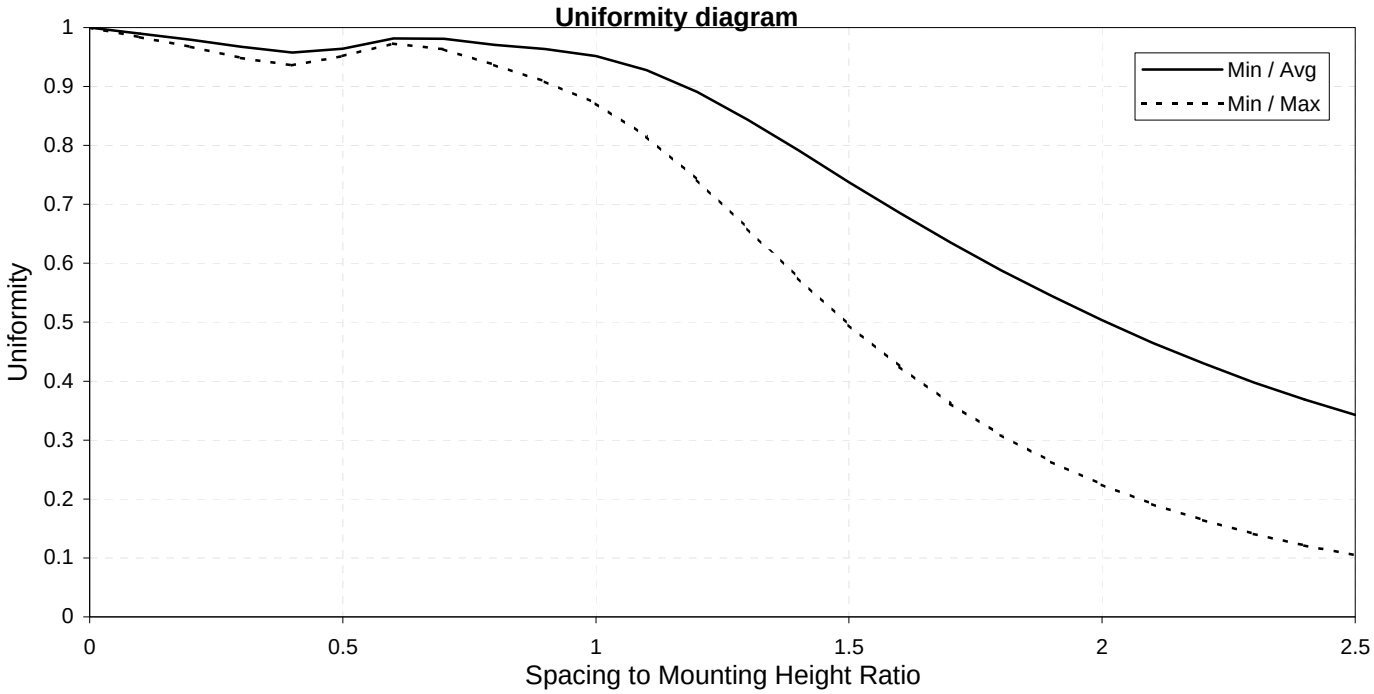

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Test Distance: 8.0 metres

Test Temperature: 24.9 degrees Celsius

Significance: This laboratory has no control over the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Special Notes:

The intensity values contained in this report are shown as tested. When using these values in calculations the appropriate Ballast Factor and Manufacturer's rated lumens MUST be taken into account.

It should also be noted that prorating the lumen output for the use of other lamp/ballast combinations, or for use in different environmental conditions, than that tested may produce erroneous results.
The generic term "LOR" is used in this report, it denotes the "Light Output Ratio Luminaire" as defined in Australian Standard AS1680, Part 3, 1991, Section 1.3.9.

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.

Uncertainties: At the 95% confidence interval with a factor k = 2, the uncertainties for this report are :-

Temperature	+/- 1 degree Celsius
Light Output Ratio	+/- 4%
Luminous Intensity	+/- 4%
Angular displacement	+/- 0.25 degrees.

Testing Procedure: Tested in accordance with the applicable sections of CIE Publication Number 24 and Australian Standard AS1680, Part 3, 1991.

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