





TEST REPORT	
Lumen Maintenance Calculation	
Report Number.....	R0612021_3_01
Date of issue.....	2021-02-26
Total number of pages	7
Name of Testing Laboratory preparing the Report	Analytical S.r.l. Via dei Cadolingi, 6 50018 Scandicci (FI) Italy
Applicant's name	Cree Lighting Europe S.r.l.
Address.....	Via Sandro Pertini, 122 50019 Sesto Fiorentino (FI) Italy
Test specification:	
Standard	N/A
Test procedure	Test report
Non-standard test method	Cree Lighting Europe S.r.l. internal procedure IOP_LAB 29 – R0 according to IEC 62717:2017, IES TM21-11:2011, IES LM80-08:2020
Test Report Form No.	LMC_b
Test Report Form(s) Originator	Analytical S.r.l.
Master TRF	2020/05
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Test item description :	LED luminaire	
Trade Mark :		
	<p style="text-align: center;">A COMPANY OF </p>	
Manufacturer	Cree Lighting Europe S.r.l.	
Model/Type reference	Energy Small Series, Input Power 8L	
Ratings	-	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	Testing Laboratory:	Analytical S.r.l.
	Testing location/ address :	Via dei Cadolingi, 6 50018 Scandicci (FI) Italy
	Tested by (name, function, signature) :	Valentina Biliotti (ENG) 
	Approved by (name, function, signature) ... :	Lorenzo Signorini (REW) 

List of Attachments (including a total number of pages in each attachment): --					
Summary of testing:					
Tests performed (name of test and test clause):	Testing location:				
<table border="1"><thead><tr><th>Requirement test</th><th>Verdict</th></tr></thead><tbody><tr><td>Lumen Maintenance Calculation</td><td>-</td></tr></tbody></table>	Requirement test	Verdict	Lumen Maintenance Calculation	-	Analytical S.r.l. Via dei Cadolingi, 6 50018 Scandicci (FI) Italy
Requirement test	Verdict				
Lumen Maintenance Calculation	-				

Test item particulars	LED luminaire
Classification of installation and use	LED luminaire
Supply Connection	-
.....	
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
- applicable test was not executed	N/E
Testing	
Date of receipt of test item	-
Date (s) of performance of tests	-
General remarks:	
<p>"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p>	
Name and address of factory (ies)	Cree Lighting Europe S.r.l. Via Sandro Pertini, 122 50019 Sesto Fiorentino (FI) Italy

General product information:

The aim of the CREE Lighting Europe S.r.l. internal procedure IOP LAB 29 – R0 is to perform the calculation of a LED luminaire's lifetime, using a specific LED data from the LM-80 test report, according to the US standard IES TM21 for the Lx value and according to the Standard IEC 62717 for the LxBy and LxFy values

Lumen Maintenance Calculation

INPUT DATA (declared by the manufacturer)

Luminaire description	Energy Small Series, Input Power 8L						
LED module	Lumileds						
CCT (K)	22K; 27K; 30K; 40K; 57K						
CRI	70, 80						
Rated wattage (W)	60						
LED current (mA)	525						
t _a (°C)	25						
t _{sp} (°C)	57						
Photometric Code (22K)	8	2	2	/	5	5	9
Photometric Code (27K)	8	2	7	/	5	5	9
Photometric Code (30K)	8	3	0	/	5	5	9
Photometric Code (40K)	7	4	0	/	5	5	9
Photometric Code (57K)	7	5	7	/	5	5	9

RESULTS

L90	= 100000 h
L80	> 180000 h
L70	> 180000 h
L90B10	= 96000 h
L80B10	> 180000 h

Lumen Maintenance Calculation

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Rated wattage (W)	60						
LED current (mA)	525						
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Photometric Code (22K)	8	2	2	/	5	5	9
Photometric Code (27K)	8	2	7	/	5	5	9
Photometric Code (30K)	8	3	0	/	5	5	9
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Photometric Code (57K)	7	5	7	/	5	5	9

RESULTS

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- End of Test Report -