

High-End Trim for Cree Lighting Luminaires with Synapse SimplySNAP Wireless Lighting Control

Last Modified on 07/20/2021 9:31 am EDT

Application Note

Rev. Date: 06/14/2021

INTRODUCTION

What is high-end trim?

High-end trim allows a user to configure the maximum allowable light output from a luminaire. High-end trim sets the maximum power output for this light as a percentage of its total capacity. The effective light level is the product of the high-end trim and the user-requested level (e.g. if the user sets a light level of 90, and the high-end trim is set to 50, the actual light level will be 45).

How to Use high-end trim with Cree Lighting Luminaires

High-end trim is adjustable in the web application of the Synapse gateway (Edit Light → Advanced → High End Trim). To support unified, continuous dimming from 10 - 100% across various products and drivers with different curves, a high-end trim value other than the default (100) may be set. To set your desired high trim level, simply multiply your maximum high trim percentage to the suggested high-end trim value.

HIGH END TRIM TABLES FOR LUMINAIRES

OSQ SERIES LUMINAIRES (VERSION A)

INPUT POWER DESIGNATOR	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
B, K, T	N/A	68
B, K, T with Q Option	9	70
	6	64
	5	60
	4	52
	3	45
	2	38
	1	32
A, J, S, U, Z	N/A	85
U with Q Option	9	85
	8	78
	7	70
	6	64
	5	60
	4	52

INPUT POWER DESIGNATOR	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
	2	38
	1	32
A, J with Q Option	9	85
	8	82
	7	78
	6	75
	5	69
	4	64
	3	58
	2	52
	1	48

OSQ SERIES LUMINAIRES (VERSION B)

LUMEN PACKAGE	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
4L, 6L, 9L, 11L, 16L, 22L, 30L	N/A	85
4L, 6L, 9L, 11L, 16L, 22L, 30L with Q Option	9	85
	8	82
	7	78
	6	75
	5	69
	4	64
	3	58
	2	52
	1	48

OSQ SERIES HIGH-OUTPUT LUMINAIRES

LUMEN PACKAGE	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
40L & 50L	N/A	85
40L & 50L with Q Option	9	85
	8	82
	7	78
	6	75
	5	69
	4	64

LUMEN PACKAGE	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
	2	52
	1	48
65L	N/A	100 (default)
65L with Q Option	9	100 (default)
	8	100 (default)
	7	96
	6	92
	5	84
	4	76
	3	69
	2	62
	1	54

XSP SERIES LUMINAIRES

LUMEN PACKAGE	Q OPTION	SUGGESTED HIGH-END TRIM VALUE
5L, 8L, 12L, 18L, 24L	N/A	85
5L, 8L, 12L, 24L, with Q Option	9	85
	8	82
	7	79
	6	77
	5	71
	4	66
	3	60
	2	55
	1	50
18L with Q Option	9	85
	8	81
	7	78
	6	75
	5	69
	4	63
	3	58
	2	52
	1	46

RSW SERIES LUMINAIRES

LUMEN PACKAGE	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
3L, 5L, 7L, 9L, 14L, 24L, 32L	N/A	85
3L with Q Option	4	85
	3	71
	2	56
	1	42
5L, 7L with Q Option	4	85
	3	79
	2	70
	1	61
9L with Q Option	8	85
	7	83
	6	82
	5	76
	4	71
	3	67
	2	64
	1	59
14L with Q Option	9	85
	8	84
	7	81
	6	78
	5	72
	4	68
	3	61
	2	54
	1	49
24L with Q Option	9	85
	8	81
	7	78
	6	75
	5	68
	4	64
	3	57
	2	51
	1	46

LUMEN PACKAGE	Q SETTING	SUGGESTED HIGH-END TRIM VALUE
32L with Q Option	8	81
	7	77
	6	74
	5	67
	4	62
	3	55
	2	50
	1	45

TRAVEYO SERIES LUMINAIRES (2L - 13L)

LUMEN PACKAGE	Q OPTION	SUGGESTED HIGH-END TRIM VALUE
2L	N/A	35
2L with Q Option	9	35
	8	32
	7	31
	6	30
	5	28
	4	26
	3	23
	2	21
	1	18
4L	N/A	50
4L with Q Option	9	50
	8	45
	7	41
	6	38
	5	34
	4	30
	3	27
	2	25
	1	22
5L	N/A	80
	9	80
	8	78
	7	73
	6	64

LUMEN PACKAGE	Q OPTION	SUGGESTED HIGH-END TRIM VALUE
5L with Q Option	4	49
	3	46
	2	40
	1	36
8L, 10L	N/A	80
8L, 10L with Q Option	9	80
	8	78
	7	72
	6	62
	5	55
	4	48
	3	44
	2	39
13L	N/A	80
13L with Q Option	9	80
	8	78
	7	72
	6	65
	5	57
	4	47
	3	44
	2	38
1	34	

TRAVEYO SERIES LUMINAIRES (16L - 30L)

LUMEN PACKAGE	Q OPTION	SUGGESTED HIGH-END TRIM VALUE
16L	N/A	60
16L with Q Option	9	60
	8	56
	7	53
	6	49
	5	43
	4	40
	3	35
2	31	

LUMEN PACKAGE	Q OPTION ¹	SUGGESTED HIGH-END TRIM VALUE ²⁸
20L	N/A	80
20L with Q Option	9	80
	8	77
	7	71
	6	63
	5	55
	4	47
	3	44
	2	38
	1	33
22L	N/A	65
22L with Q Option	9	65
	8	62
	7	60
	6	56
	5	49
	4	48
	3	37
	2	35
	1	30
25L	N/A	80
25L with Q Option	9	80
	8	78
	7	59
	6	52
	5	44
	4	36
	3	33
	2	29
	1	25
27L	N/A	70
27L with Q Option	9	70
	8	66
	7	62
	6	58
	5	54
	4	50

LUMEN PACKAGE	Q OPTION	SUGGESTED HIGH-END TRIM VALUE
	2	39
	1	34
30L	N/A	80
30L with Q Option	9	80
	8	78
	7	73
	6	65
	5	58
	4	50
	3	46
	2	36
	1	31

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Rev. Date: 06/14/2021