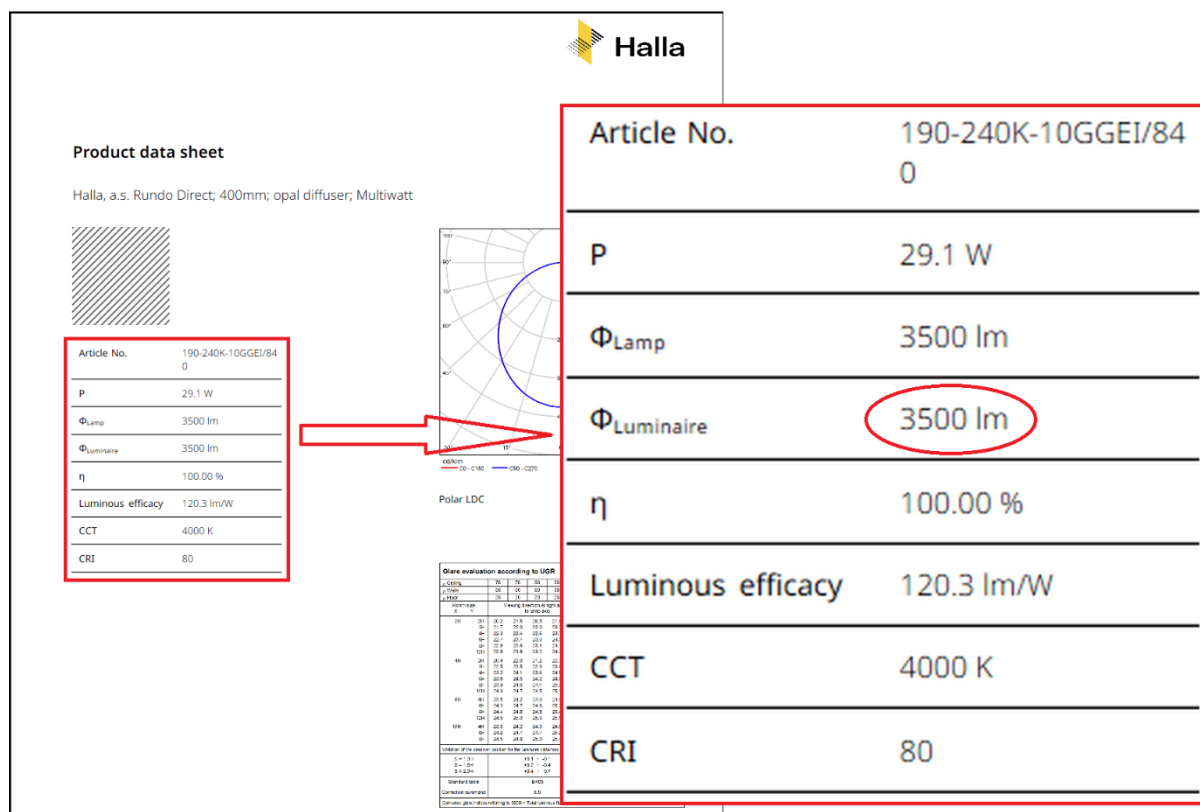


Instructions for the use of photometric data for *multiwatt* Halla luminaires (DIALux evo)

From March 1, 2021, Halla, a.s. introduces into its portfolio so-called *multiwatt* luminaires enabling user change of luminous flux even in non-dimmable luminaires. Despite the fact that it is not a continuous regulation of luminous flux in sense of dimmable luminaires, it brings a number of advantages to suppliers, even in the phase of lighting calculation. Instructions for using this option are provided below.

When inserting luminaire into the DIALux evo calculation program as standard, the *Light / Photometric data / Fitting* section offer a selection of a suitable luminous flux:



Product data sheet
 Halla, a.s. Rundo Direct; 400mm; opal diffuser; Multiwatt

Article No.	190-240K-10GGEI/84 0
P	29.1 W
Φ_{Lamp}	3500 lm
$\Phi_{Luminaire}$	3500 lm
η	100.00 %
Luminous efficacy	120.3 lm/W
CCT	4000 K
CRI	80

Article No. 190-240K-10GGEI/84 0

P 29.1 W

Φ_{Lamp} 3500 lm

$\Phi_{Luminaire}$ 3500 lm

η 100.00 %

Luminous efficacy 120.3 lm/W

CCT 4000 K

CRI 80

Glare evaluation according to UGR

UGR	UGR	UGR	UGR
19	21	23	25
20	22	24	26
21	23	25	27
22	24	26	28
23	25	27	29
24	26	28	30
25	27	29	31
26	28	30	32
27	29	31	33
28	30	32	34
29	31	33	35
30	32	34	36
31	33	35	37
32	34	36	38
33	35	37	39
34	36	38	40
35	37	39	41
36	38	40	42
37	39	41	43
38	40	42	44
39	41	43	45
40	42	44	46
41	43	45	47
42	44	46	48
43	45	47	49
44	46	48	50
45	47	49	51
46	48	50	52
47	49	51	53
48	50	52	54
49	51	53	55
50	52	54	56
51	53	55	57
52	54	56	58
53	55	57	59
54	56	58	60
55	57	59	61
56	58	60	62
57	59	61	63
58	60	62	64
59	61	63	65
60	62	64	66
61	63	65	67
62	64	66	68
63	65	67	69
64	66	68	70
65	67	69	71
66	68	70	72
67	69	71	73
68	70	72	74
69	71	73	75
70	72	74	76
71	73	75	77
72	74	76	78
73	75	77	79
74	76	78	80
75	77	79	81
76	78	80	82
77	79	81	83
78	80	82	84
79	81	83	85
80	82	84	86
81	83	85	87
82	84	86	88
83	85	87	89
84	86	88	90
85	87	89	91
86	88	90	92
87	89	91	93
88	90	92	94
89	91	93	95
90	92	94	96
91	93	95	97
92	94	96	98
93	95	97	99
94	96	98	100

Figure 1: Original product data sheet, 3,500 lm (section Documentation)

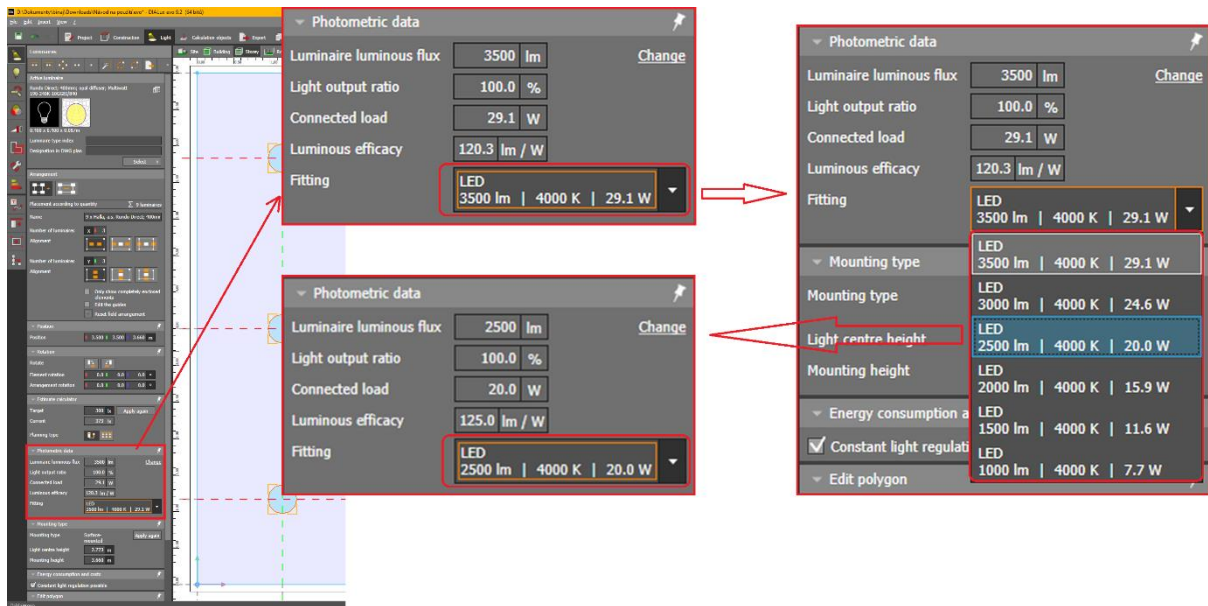



Figure 2: Selection of luminous flux, Fitting / Photometric data / Light

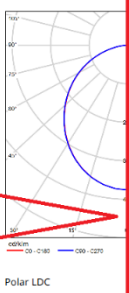
Návod na použití

Product data sheet

Halla, a.s. Rundo Direct; 400mm; opal diffuser; Multiwatt



Article No.	190-240K-10GGEI/840
P	20.0 W
Φ_{Lamp}	2500 lm
$\Phi_{Luminaire}$	2500 lm
η	100.00 %
Luminous efficacy	125.0 lm/W
CCT	4000 K
CRI	80



Polar LDC

Diene evaluation according to IESNA

LDC		10	15	20	25	30
10	10	0.0	0.0	0.0	0.0	0.0
15	10	0.0	0.0	0.0	0.0	0.0
20	10	0.0	0.0	0.0	0.0	0.0
25	10	0.0	0.0	0.0	0.0	0.0
30	10	0.0	0.0	0.0	0.0	0.0
10	15	0.0	0.0	0.0	0.0	0.0
15	15	0.0	0.0	0.0	0.0	0.0
20	15	0.0	0.0	0.0	0.0	0.0
25	15	0.0	0.0	0.0	0.0	0.0
30	15	0.0	0.0	0.0	0.0	0.0
10	20	0.0	0.0	0.0	0.0	0.0
15	20	0.0	0.0	0.0	0.0	0.0
20	20	0.0	0.0	0.0	0.0	0.0
25	20	0.0	0.0	0.0	0.0	0.0
30	20	0.0	0.0	0.0	0.0	0.0
10	25	0.0	0.0	0.0	0.0	0.0
15	25	0.0	0.0	0.0	0.0	0.0
20	25	0.0	0.0	0.0	0.0	0.0
25	25	0.0	0.0	0.0	0.0	0.0
30	25	0.0	0.0	0.0	0.0	0.0
10	30	0.0	0.0	0.0	0.0	0.0
15	30	0.0	0.0	0.0	0.0	0.0
20	30	0.0	0.0	0.0	0.0	0.0
25	30	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0

Article No. 190-240K-10GGEI/840

P 20.0 W

Φ_{Lamp} 2500 lm

$\Phi_{Luminaire}$ 2500 lm

η 100.00 %

Luminous efficacy 125.0 lm/W

CCT 4000 K

CRI 80

Figure 3: New product data sheet, 2,500 lm (section Documentation)