AR160 KOPA ADJUSTABLE ROUND DIFFUSED FLUSH

MULTI WATT LED (12-35W)

General

12/16/22/35W options
IP44 optical chamber
CRI >80 (3000k, 4000k)
3 SDCM colour consistency
L70 (9K0, B10 > 50,000 hours (tested at max.wattage)
80 degree diffused optics
Seismic restraint mounting point

Options

CRI >95, COI, Single colours
Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE
Bluetooth, 12/24V DC
2W auxiliary light (pg 78)
IK10 polycarbonate UV stabilized lens (DP)
Surface Mount Can (pg 66)

Driver Details

Non-dimmable:
12W = K12W-350 / 16W = K20W-500 /
22W = K40W-700 / 35W = K40W-1050
Trailing edge dimmable (LED dimmer):
12W = K12W-350D / 16W = K18W-500D /
22W = K36W-700D / 35W = 36W-1050D
(100 / 180 / 260mA drivers available)

Size & Weight

Dimension: 161mm round, 98mm high
Max. Cut-out: 150mm round
Weight: 915g

Material & Construction

Solid aluminium with unique copper core heatsink technology
10 year paint protection

Machined from Solid Aluminium

Specifications

MODEL	**K1235**			
TRIM	**AR160**-Adjustable Round			
OPTICS	**80F**-80° Diffused			
LENS	**DA**-Diffused Acrylic			
C.C.T	**3K**-Warm White	**4K**-Neutral White	**5.5K**-Daylight	
WATTAGE	**12W**-350mA	**16W**-500mA	**22W**-700mA	**35W**-1050mA
COLOUR	**WH**-White	**SL**-Silver	**BL**-Black	

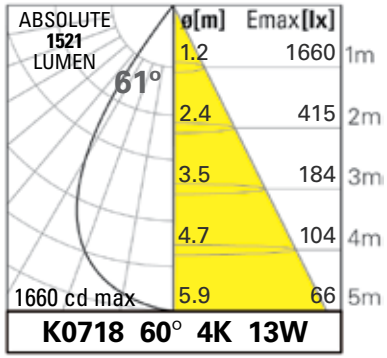
MODEL — **TRIM** — **OPTICS** — **COLOUR TEMP** — **WATTAGE** — **COLOUR**

PHOTOMETRIC DATA

All photometric data is solely based on ABSOLUTE lumens and is provided in the top left corner of each cone diagram table.

LM-80/TM-21/LM-79 Testing is carried out by NVLAP international certified laboratory.

IES files are available to download from www.kopaglobal.com (no registration required)



Absolute lumen = lumen value produced by the luminaire running at 25°C ambient with heat sink temperature at equilibrium.

Cd max = Peak candela reading taken at an angle of 0° degrees

ø[m] = Beam diameter based on value of 50% of cd max

Emax[lx] = Lux level at centre of beam diameter

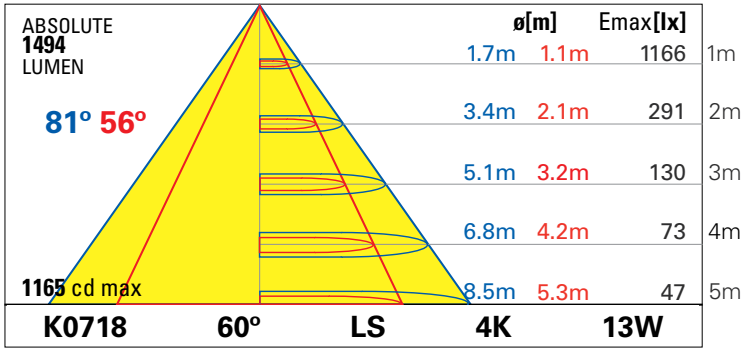
m = Height of light above surface to be lit

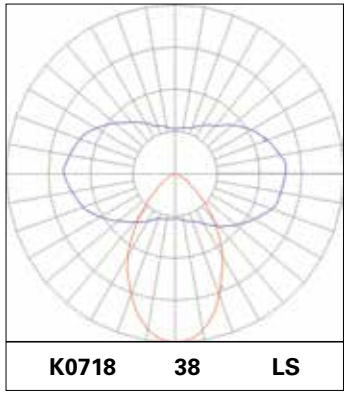
Tip: For calculation of lux level (Emax) use this simple formula:

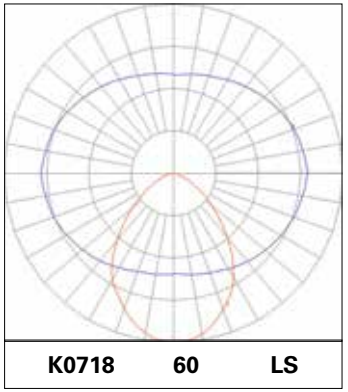
$$\frac{\text{cdmax}}{m^2} = \text{Emax [lx]}$$

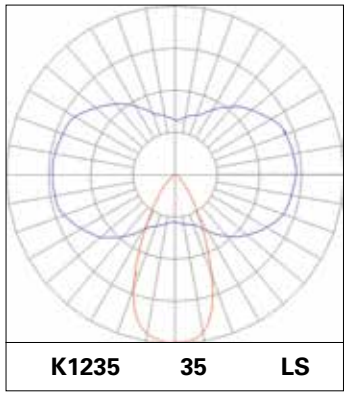
Example: 2.7m height with lux level at floor required (K0718 60 4K 13W)

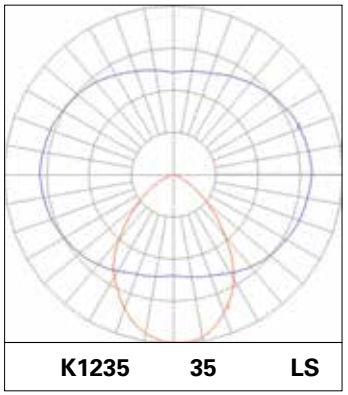
$$\frac{1160\text{cd}}{2.7 \times 2.7\text{m}} = 228 \text{ lux}$$











K1235 - CRI80

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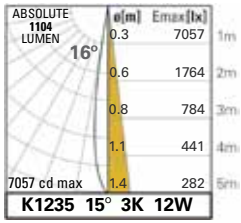

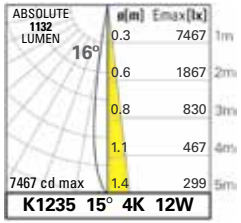

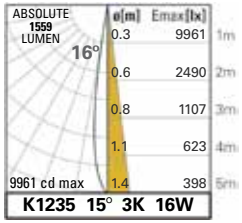

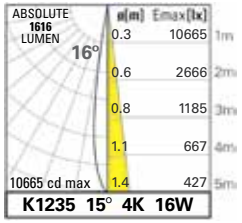

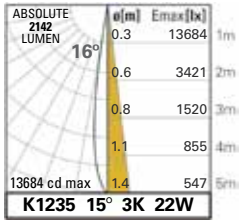

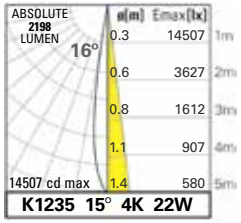

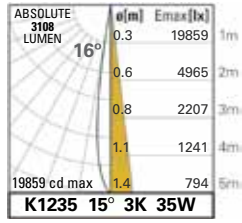

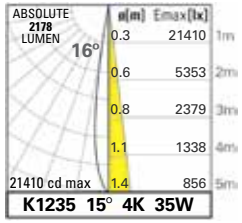

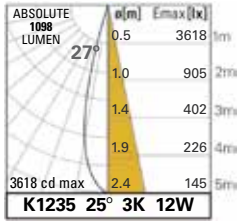

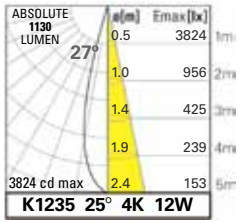

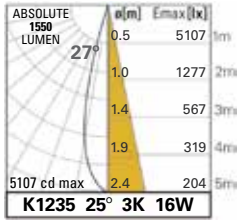

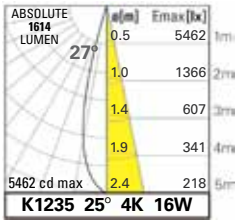

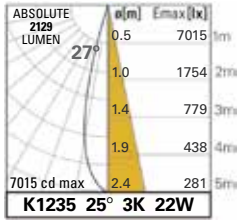

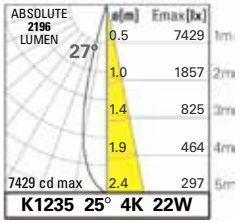

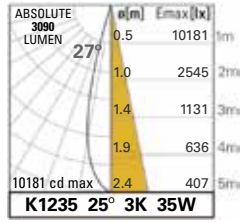

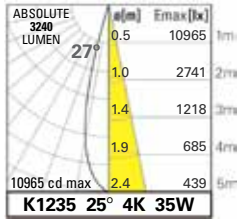

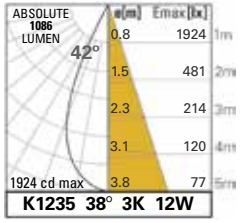

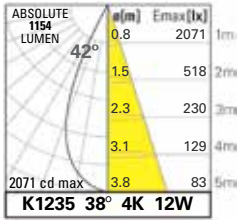

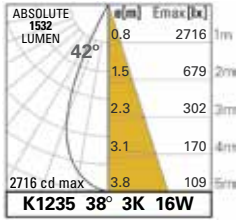

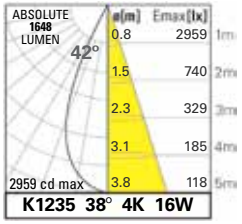

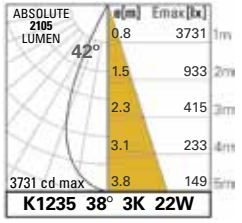

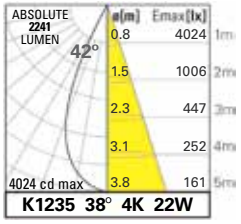

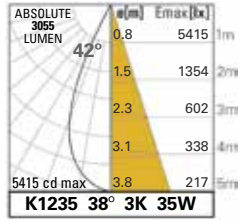

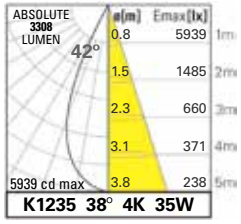

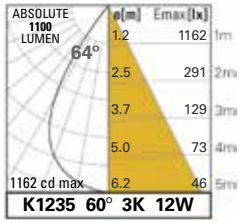

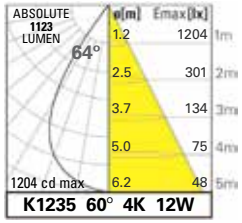

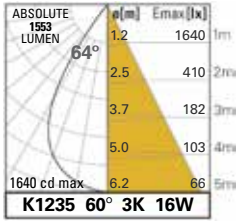

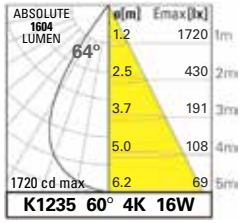

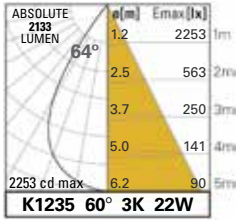

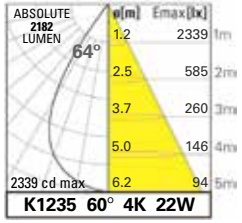

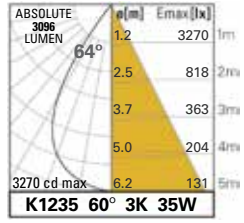

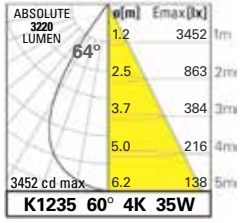

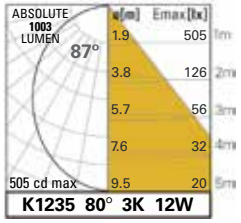

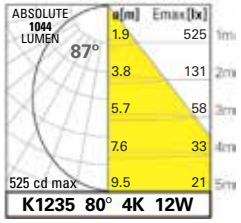

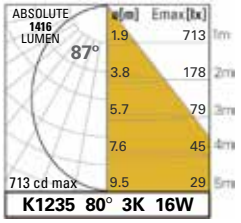

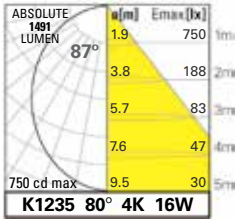

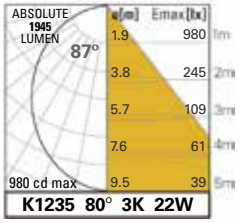

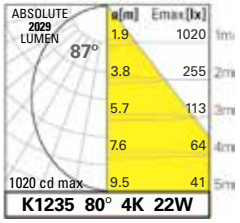

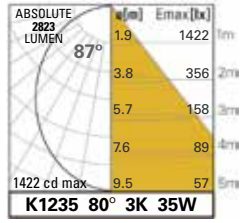

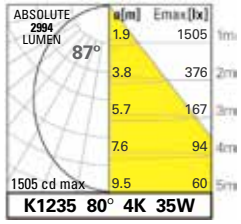

K1235 15° 3K 12W	K1235 15° 4K 12W	K1235 15° 3K 16W	K1235 15° 4K 16W	K1235 15° 3K 22W	K1235 15° 4K 22W	K1235 15° 3K 35W	K1235 15° 4K 35W
ABSOLUTE 824 LUMEN	ABSOLUTE 996 LUMEN	ABSOLUTE 1163 LUMEN	ABSOLUTE 1422 LUMEN	ABSOLUTE 1597 LUMEN	ABSOLUTE 1934 LUMEN	ABSOLUTE 2318 LUMEN	ABSOLUTE 2855 LUMEN
16°	16°	16°	16°	16°	16°	16°	16°
0.3 5264 1m	0.3 6569 1m	0.3 7430 1m	0.3 9383 1m	0.3 10207 1m	0.3 12763 1m	0.3 14813 1m	0.3 18837 1m
0.6 1316 2m	0.6 1642 2m	0.6 1858 2m	0.6 2346 2m	0.6 2552 2m	0.6 3191 2m	0.6 3703 2m	0.6 4709 2m
0.8 585 3m	0.8 730 3m	0.8 826 3m	0.8 1043 3m	0.8 1134 3m	0.8 1418 3m	0.8 1646 3m	0.8 2093 3m
1.1 329 4m	1.1 411 4m	1.1 464 4m	1.1 586 4m	1.1 638 4m	1.1 798 4m	1.1 926 4m	1.1 1177 4m
5264 cd max 1.4 211 5m	6569 cd max 1.4 263 5m	7430 cd max 1.4 297 5m	9383 cd max 1.4 375 5m	10207 cd max 1.4 408 5m	12763 cd max 1.4 511 5m	14813 cd max 1.4 593 5m	18837 cd max 1.4 753 5m
ABSOLUTE 819 LUMEN	ABSOLUTE 994 LUMEN	ABSOLUTE 1156 LUMEN	ABSOLUTE 1420 LUMEN	ABSOLUTE 1588 LUMEN	ABSOLUTE 1932 LUMEN	ABSOLUTE 2305 LUMEN	ABSOLUTE 2851 LUMEN
27°	27°	27°	27°	27°	27°	27°	27°
0.5 2698 1m	0.5 3364 1m	0.5 3809 1m	0.5 4805 1m	0.5 5233 1m	0.5 6536 1m	0.5 7594 1m	0.5 9647 1m
1.0 675 2m	1.0 841 2m	1.0 952 2m	1.0 1201 2m	1.0 1308 2m	1.0 1634 2m	1.0 1899 2m	1.0 2412 2m
1.4 300 3m	1.4 374 3m	1.4 423 3m	1.4 534 3m	1.4 581 3m	1.4 726 3m	1.4 844 3m	1.4 1072 3m
1.9 169 4m	1.9 210 4m	1.9 238 4m	1.9 300 4m	1.9 327 4m	1.9 409 4m	1.9 475 4m	1.9 603 4m
2698 cd max 2.4 108 5m	3364 cd max 2.4 135 5m	3809 cd max 2.4 152 5m	4805 cd max 2.4 192 5m	5233 cd max 2.4 209 5m	6536 cd max 2.4 261 5m	7594 cd max 2.4 304 5m	9647 cd max 2.4 386 5m
ABSOLUTE 810 LUMEN	ABSOLUTE 1015 LUMEN	ABSOLUTE 1143 LUMEN	ABSOLUTE 1450 LUMEN	ABSOLUTE 1570 LUMEN	ABSOLUTE 1972 LUMEN	ABSOLUTE 2278 LUMEN	ABSOLUTE 2910 LUMEN
42°	42°	42°	42°	42°	42°	42°	42°
0.8 1435 1m	0.8 1822 1m	0.8 2026 1m	0.8 2603 1m	0.8 2783 1m	0.8 3541 1m	0.8 4039 1m	0.8 5226 1m
1.5 359 2m	1.5 456 2m	1.5 507 2m	1.5 651 2m	1.5 696 2m	1.5 885 2m	1.5 1010 2m	1.5 1307 2m
2.3 159 3m	2.3 202 3m	2.3 225 3m	2.3 289 3m	2.3 309 3m	2.3 393 3m	2.3 449 3m	2.3 581 3m
3.1 90 4m	3.1 114 4m	3.1 127 4m	3.1 163 4m	3.1 174 4m	3.1 221 4m	3.1 252 4m	3.1 327 4m
1435 cd max 3.8 57 5m	1822 cd max 3.8 73 5m	2026 cd max 3.8 81 5m	2603 cd max 3.8 104 5m	2783 cd max 3.8 111 5m	3541 cd max 3.8 142 5m	4039 cd max 3.8 162 5m	5226 cd max 3.8 209 5m
ABSOLUTE 821 LUMEN	ABSOLUTE 988 LUMEN	ABSOLUTE 1158 LUMEN	ABSOLUTE 1411 LUMEN	ABSOLUTE 1591 LUMEN	ABSOLUTE 1920 LUMEN	ABSOLUTE 2309 LUMEN	ABSOLUTE 2833 LUMEN
64°	64°	64°	64°	64°	64°	64°	64°
1.2 864 1m	1.2 1059 1m	1.2 1223 1m	1.2 1513 1m	1.2 1681 1m	1.2 2058 1m	1.2 2439 1m	1.2 3037 1m
2.5 216 2m	2.5 265 2m	2.5 306 2m	2.5 378 2m	2.5 420 2m	2.5 515 2m	2.5 610 2m	2.5 759 2m
3.7 96 3m	3.7 118 3m	3.7 136 3m	3.7 168 3m	3.7 187 3m	3.7 229 3m	3.7 271 3m	3.7 337 3m
5.0 54 4m	5.0 66 4m	5.0 76 4m	5.0 95 4m	5.0 105 4m	5.0 129 4m	5.0 152 4m	5.0 190 4m
864 cd max 6.2 35 5m	1059 cd max 6.2 42 5m	1223 cd max 6.2 49 5m	1513 cd max 6.2 61 5m	1681 cd max 6.2 67 5m	2058 cd max 6.2 82 5m	2439 cd max 6.2 98 5m	3037 cd max 6.2 121 5m
ABSOLUTE 748 LUMEN	ABSOLUTE 919 LUMEN	ABSOLUTE 1056 LUMEN	ABSOLUTE 1312 LUMEN	ABSOLUTE 1451 LUMEN	ABSOLUTE 1785 LUMEN	ABSOLUTE 2105 LUMEN	ABSOLUTE 2634 LUMEN
87°	87°	87°	87°	87°	87°	87°	87°
1.9 377 1m	1.9 462 1m	1.9 532 1m	1.9 660 1m	1.9 731 1m	1.9 897 1m	1.9 1061 1m	1.9 1324 1m
3.8 94 2m	3.8 116 2m	3.8 133 2m	3.8 165 2m	3.8 183 2m	3.8 224 2m	3.8 265 2m	3.8 331 2m
5.7 42 3m	5.7 51 3m	5.7 59 3m	5.7 73 3m	5.7 81 3m	5.7 100 3m	5.7 118 3m	5.7 147 3m
7.6 24 4m	7.6 29 4m	7.6 33 4m	7.6 41 4m	7.6 46 4m	7.6 56 4m	7.6 66 4m	7.6 83 4m
377 cd max 9.5 15 5m	462 cd max 9.5 18 5m	532 cd max 9.5 21 5m	660 cd max 9.5 26 5m	731 cd max 9.5 29 5m	897 cd max 9.5 36 5m	1061 cd max 9.5 42 5m	1324 cd max 9.5 53 5m