

Q456.12: Plate - Up Down Office / Working UGR < 19 - ON-OFF - Neutral LED - L 1196 - 24.4W 2713.5lm - 4000K - Aluminium



Complies with EN60598-1 and pertinent regulations

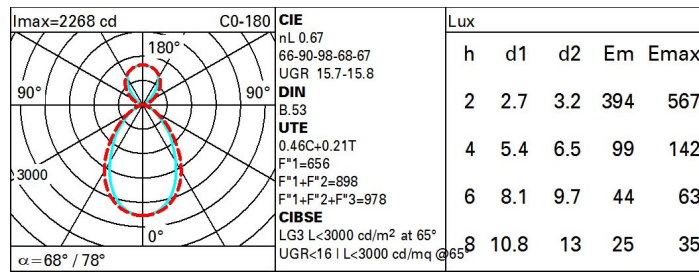


Complies with EN60598-1 and pertinent regulations



Im system:	5394	Colour temperature [K]:	4000
W system:	48.8	MacAdam Step:	3
Im source:	8050	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	41	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	110.5	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	1711	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	67	Number of optical assemblies:	1
CRI (minimum):	80		

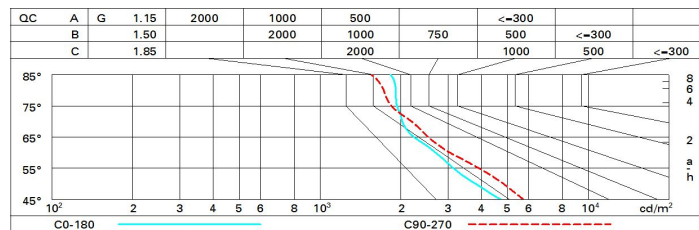
# Polar



# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	43	38	34	31	35	31	29	24	53
1.0	47	42	38	35	39	35	33	27	60
1.5	53	48	45	42	44	42	39	32	71
2.0	56	52	50	47	48	46	42	36	78
2.5	58	55	53	51	50	48	45	38	82
3.0	59	57	55	53	52	50	46	39	86
4.0	61	59	57	56	54	52	48	41	89
5.0	62	60	59	57	55	54	49	42	91

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 8050 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	13.5	14.2	14.2	14.9	15.8	14.5	15.3	15.3	16.0	16.8	16.8
	3H	14.2	14.8	14.9	15.6	16.5	14.7	15.3	15.4	16.1	16.9	16.9
	4H	14.5	15.1	15.3	15.9	16.8	14.7	15.3	15.5	16.0	16.9	16.9
	6H	14.8	15.4	15.6	16.1	17.1	14.6	15.2	15.4	15.9	16.9	16.9
	8H	14.9	15.4	15.7	16.2	17.2	14.6	15.1	15.4	15.9	16.8	16.8
	12H	15.0	15.5	15.8	16.3	17.2	14.6	15.0	15.4	15.8	16.8	16.8
4H	2H	13.8	14.4	14.6	15.2	16.1	15.3	15.9	16.1	16.7	17.6	17.6
	3H	14.7	15.2	15.5	16.0	16.9	15.7	16.1	16.5	16.9	17.9	17.9
	4H	15.1	15.5	15.9	16.3	17.3	15.8	16.2	16.6	17.0	18.0	18.0
	6H	15.5	15.9	16.4	16.7	17.7	15.8	16.2	16.7	17.0	18.0	18.0
	8H	15.7	16.0	16.5	16.9	17.9	15.8	16.2	16.7	17.0	18.0	18.0
	12H	15.8	16.1	16.7	17.0	18.0	15.8	16.1	16.7	17.0	18.0	18.0
8H	4H	15.2	15.6	16.1	16.4	17.4	16.1	16.5	17.0	17.3	18.3	18.3
	6H	15.8	16.1	16.7	16.9	18.0	16.3	16.6	17.2	17.5	18.5	18.5
	8H	16.0	16.3	16.9	17.1	18.2	16.4	16.6	17.3	17.5	18.6	18.6
	12H	16.2	16.4	17.1	17.3	18.4	16.4	16.7	17.3	17.5	18.6	18.6
12H	4H	15.2	15.5	16.1	16.4	17.4	16.2	16.5	17.0	17.3	18.4	18.4
	6H	15.8	16.0	16.7	16.9	18.0	16.4	16.6	17.3	17.5	18.6	18.6
	8H	16.1	16.3	17.0	17.2	18.3	16.5	16.7	17.4	17.6	18.7	18.7
Variations with the observer position at spacing:												
S =		1.0H	0.3 / -0.5		0.3 / -0.4							
		1.5H	0.5 / -0.9		0.6 / -1.1							
		2.0H	1.2 / -1.3		1.5 / -1.5							