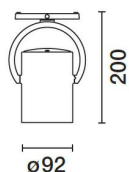
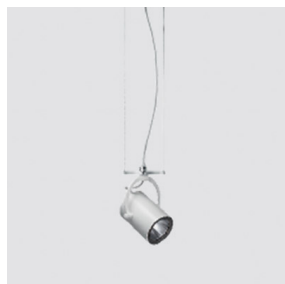
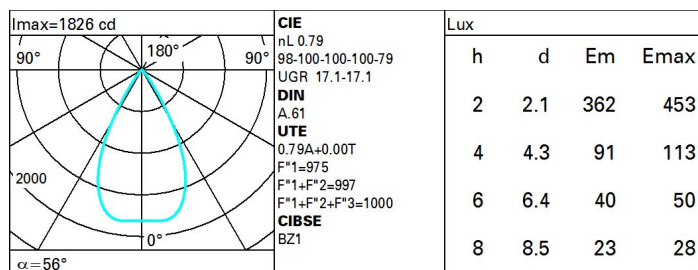


P068: spotlight - warm white - 50° optic



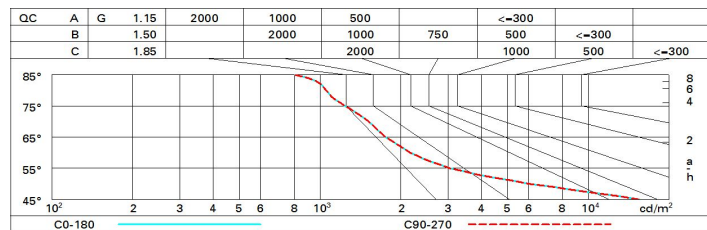
Im system:	1420.7	CRI:	90
W system:	15.4	Colour temperature [K]:	3000
Im source:	1800	MacAdam Step:	2
W source:	13	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	92.3	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	79	Number of optical assemblies:	1
Beam angle [°]:	56°		



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	67	64	62	66	63	63	61	77
1.0	74	70	68	66	69	67	67	64	81
1.5	78	75	73	71	74	72	72	69	88
2.0	80	78	77	75	77	76	75	73	92
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	80	80	79	77	97
4.0	84	83	82	82	82	81	80	78	99
5.0	84	84	83	83	82	82	81	79	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1800 lm bare lamp luminous flux)										
Reflect.:		viewed crosswise					viewed endwise			
ceiling	ceiling	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50
walls	walls	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30
work pl.	work pl.	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim	Room dim	viewed crosswise					viewed endwise			
x	y									
2H	2H	17.6	18.2	17.9	18.4	18.7	17.6	18.2	17.9	18.4
	3H	17.5	18.0	17.8	18.3	18.6	17.5	18.0	17.8	18.3
	4H	17.4	17.9	17.7	18.2	18.5	17.4	17.9	17.7	18.2
	6H	17.3	17.8	17.7	18.1	18.5	17.3	17.8	17.7	18.1
	8H	17.3	17.8	17.7	18.1	18.4	17.3	17.7	17.7	18.1
	12H	17.3	17.7	17.6	18.0	18.4	17.3	17.7	17.6	18.0
4H	2H	17.4	17.9	17.7	18.2	18.5	17.4	17.9	17.7	18.2
	3H	17.3	17.7	17.6	18.0	18.4	17.3	17.7	17.6	18.0
	4H	17.2	17.6	17.6	17.9	18.3	17.2	17.6	17.6	17.9
	6H	17.1	17.4	17.5	17.8	18.3	17.1	17.4	17.5	17.8
	8H	17.1	17.4	17.5	17.8	18.2	17.1	17.4	17.5	17.8
	12H	17.0	17.3	17.5	17.7	18.2	17.0	17.3	17.5	17.7
8H	4H	17.1	17.4	17.5	17.8	18.2	17.1	17.4	17.5	17.8
	6H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7
	8H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6
	12H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6
12H	4H	17.0	17.3	17.5	17.7	18.2	17.0	17.3	17.5	17.7
	6H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6
	8H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6
Variations with the observer position at spacing:										
S =	1.0H	5.6 / -11.9					5.6 / -11.9			
	1.5H	8.4 / -13.1					8.4 / -13.1			
	2.0H	10.4 / -13.6					10.4 / -13.6			