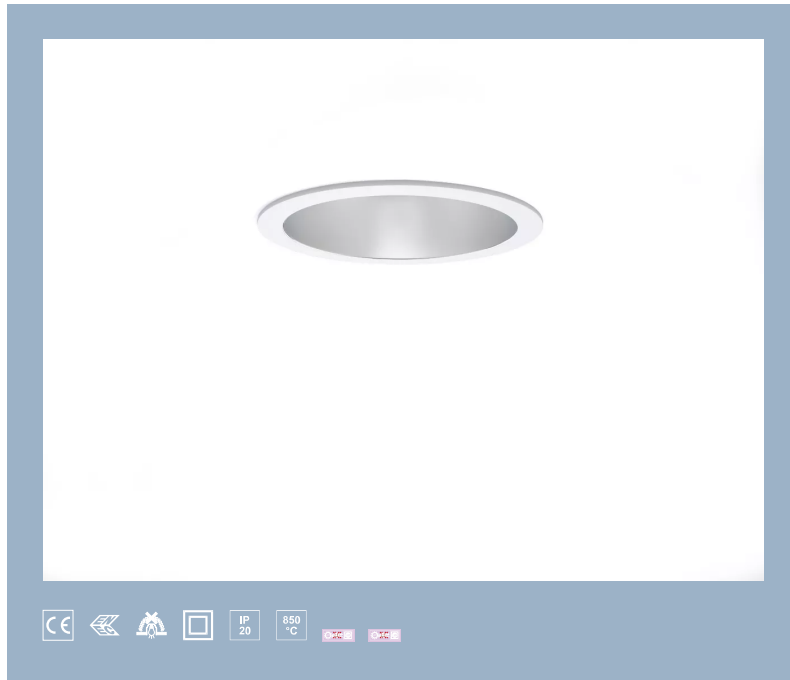


D90/LEDW20DEX1



inbouwarmatuur • rond

Toepassing : Algemene kantoorruimten, Auditoria, Algemene onderwijsruimten, Patiëntenkamers, Ruimten voor algemene gezondheidszorg

behuizing: polycarbonaat

lichtbron : led • 3000 K

optiek : reflector en lens • Polycarbonaat met aluminium microfilm, satijnglans • breedstralend

UGR classificatie : <=19

lichtstroom: 2050 lm

efficiëntie : 113 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanische eigenschappen

afmetingen : 190 mm x 100 mm

inbouwmaat : 175 mm x 100 mm

kleur: RAL9003 - signaalwit

boord: opliggende boord

type : individueel armatuur

IP: IP20

Elektrische uitrusting

driver: DALI driver aangestuurd door geïntegreerde sensor

opgenomen vermogen : 18.1 W

spanning : 220-240V

frequentie : 50-60Hz AC/DC

fotobiologische veiligheid : EN 62471: RISK GROUP 1 UNLIMITED

Luminantie

lichtstroom : 2050 lm

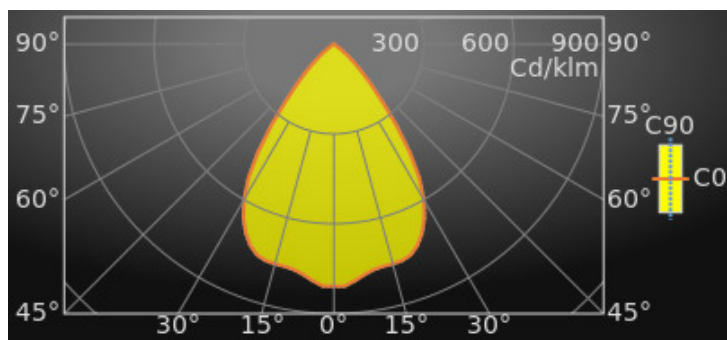
efficiëntie : 113 lm/W

luminantie @ 65° = : 1000 cd/m²

UGR classificatie =: <=19

lichtgevende oppervlakte : 0.02 m²

Gamma	Average Luminances (Cd/m²) for 2050lm				
	C0	C30	C45	C60	C90
45°	20644	20644	20644	20644	20644
50°	10192	10192	10192	10192	10192
55°	1821	1821	1821	1821	1821
60°	191	191	191	191	191
65°	37	37	37	37	37
70°	3	3	3	3	3
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0



Classificaties

CIE: 900 / 1000 / 1000 / 1000 / 1000

CIE FLUXCODE : 0.90 / 1.00 / 1.00 / 1.00 / 1.00

BZ: BZ1

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.81

UTE: 1.00 A + 0.00 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	100	4
30	99	6
40	99	8
50	99	10
60	99	12

Lichtsterkten in cd

Intensity for 2050lm

Gamma	C0	C45	C90
0°	1656.8	1656.8	1656.8
5°	1627.0	1627.0	1627.0
10°	1567.3	1567.3	1567.3
15°	1557.0	1557.0	1557.0
20°	1535.2	1535.2	1535.2
25°	1425.9	1425.9	1425.9
30°	1228.6	1228.6	1228.6
35°	907.0	907.0	907.0
40°	520.1	520.1	520.1
45°	279.0	279.0	279.0
50°	125.2	125.2	125.2
55°	20.0	20.0	20.0
60°	1.8	1.8	1.8
65°	0.3	0.3	0.3
70°	0.0	0.0	0.0
75°	0.0	0.0	0.0
80°	0.0	0.0	0.0
85°	0.0	0.0	0.0
90°	0.0	0.0	0.0

UGR classificatie =

Corrected Glare Ratings for a Total Lamp Flux of 2050lm (S = 0.25H)

	Room Reflection Factors (%)											
Ceiling	70	70	50	50	30	70	70	50	50	30		
Walls	50	30	50	30	30	50	30	50	30	30		
Floor	20	20	20	20	20	20	20	20	20	20		
Room Dimensions	Viewed Crosswise					Viewed Endwise						
X = 2H Y = 2H	18.9	20.3	19.2	20.6	20.8	18.9	20.3	19.2	20.6	20.8		
Y = 3H	18.8	20.0	19.1	20.3	20.5	18.8	20.0	19.1	20.3	20.5		
Y = 4H	18.7	19.8	19.0	20.1	20.4	18.7	19.8	19.0	20.1	20.4		
Y = 6H	18.6	19.7	19.0	20.0	20.3	18.6	19.7	19.0	20.0	20.3		
Y = 8H	18.6	19.6	18.9	19.9	20.2	18.6	19.6	18.9	19.9	20.2		
Y = 12H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2		
X = 4H Y = 2H	18.7	19.8	19.0	20.1	20.4	18.7	19.8	19.0	20.1	20.4		
Y = 3H	18.6	19.5	18.9	19.8	20.2	18.6	19.5	18.9	19.8	20.2		
Y = 4H	18.5	19.3	18.9	19.6	20.0	18.5	19.3	18.9	19.6	20.0		
Y = 6H	18.4	19.1	18.8	19.5	19.9	18.4	19.1	18.8	19.5	19.9		
Y = 8H	18.4	19.0	18.8	19.4	19.8	18.4	19.0	18.8	19.4	19.8		
Y = 12H	18.3	18.9	18.8	19.4	19.8	18.3	18.9	18.8	19.4	19.8		
X = 8H Y = 4H	18.4	19.0	18.8	19.4	19.8	18.4	19.0	18.8	19.4	19.8		
Y = 6H	18.3	18.9	18.7	19.3	19.7	18.3	18.9	18.7	19.3	19.7		
Y = 8H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7		
Y = 12H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6		
X = 12H Y = 4H	18.3	18.9	18.8	19.4	19.8	18.3	18.9	18.8	19.4	19.8		
Y = 6H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7		
Y = 8H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6		
	UGR Variations with Observer Position for Luminaire Spacings S											
S = 1.0H	+3.7				-16.0		+3.7				-16.0	
S = 1.5H	+6.4				-36.1		+6.4				-36.1	
S = 2.0H	+8.4				-48.5		+8.4				-48.5	

Kleureigenschappen

Correlated Colour Temperature : 3000

Ra: CRI (Ra) 80

Rendement

Utilisation Factors according to IES (%)										
	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	30	30	30	0
Walls	50	30	10	50	30	10	50	30	10	0
Floor	20	20	20	20	20	20	20	20	20	0
RCR = 1	110	109	107	104	103	102	100	99	98	93
2	102	99	96	97	94	92	94	92	90	85
3	94	90	87	90	87	84	87	85	82	78
4	87	82	78	84	80	77	81	78	75	72
5	81	75	71	78	73	70	76	72	69	66
6	75	69	65	73	68	64	71	67	64	61
7	70	64	60	68	63	59	67	62	59	56
8	65	59	55	64	58	55	62	58	54	52
9	61	55	51	60	54	51	59	54	50	49
10	57	51	47	56	51	47	55	50	47	45

Utilisation Factors according to LiTG (%)										
	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	71	65	68	63	69	64	67	62	62	58
0.80	82	75	77	72	79	73	75	71	71	67
1.00	89	82	83	78	85	80	81	77	77	72
1.25	98	92	90	86	94	89	88	85	85	81
1.50	103	97	93	90	97	93	91	89	88	84
2.00	109	104	97	95	102	99	95	93	92	88
2.50	113	108	100	98	105	102	97	96	94	91
3.00	117	113	102	100	108	106	100	98	97	94
4.00	119	116	103	102	110	107	100	99	98	94
5.00	122	119	104	103	112	110	102	101	99	96

Maatschets

