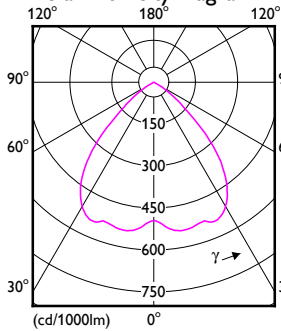
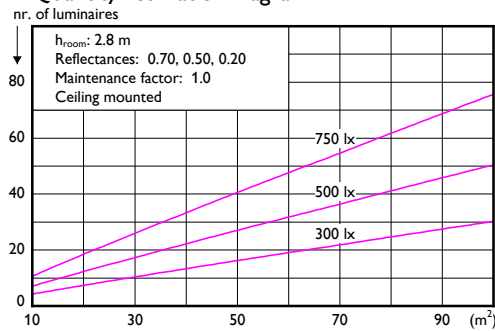
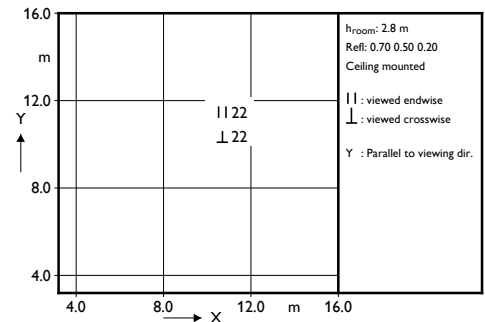


**DN488 1xDLED830 UGR22 1 x LGIT7030**

1 x 973 lm

**Polar intensity diagram****Quantity estimation diagram****UGR diagram**

Light output ratio 1.00  
Service upward 0.00  
Service downward 1.00

CIE flux code 76 99 100 100 100

UGRcen (4Hx8H, 0.25H) 20  
EN12464-1 65 deg, 200 cd/m²  
CIBSE: LG3 65 deg, 200 cd/m²

**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80			0.70			0.50			0.30		
	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30
0.60	0.67	0.63	0.60	0.66	0.64	0.63	0.57	0.57	0.54	0.57	0.53	0.52
0.80	0.77	0.72	0.70	0.76	0.74	0.72	0.66	0.66	0.62	0.65	0.62	0.60
1.00	0.85	0.79	0.84	0.81	0.78	0.74	0.73	0.73	0.70	0.72	0.69	0.68
1.25	0.93	0.85	0.91	0.87	0.84	0.80	0.79	0.76	0.78	0.76	0.74	0.74
1.50	0.98	0.89	0.96	0.92	0.88	0.84	0.83	0.81	0.82	0.80	0.78	0.78
2.00	1.06	0.95	1.04	0.98	0.94	0.91	0.90	0.87	0.88	0.87	0.85	0.85
2.50	1.11	0.98	1.08	1.02	0.97	0.95	0.93	0.91	0.92	0.90	0.88	0.88
3.00	1.14	1.00	1.11	1.05	0.99	0.97	0.96	0.94	0.94	0.93	0.91	0.93
4.00	1.18	1.02	1.15	1.08	1.01	1.00	0.98	0.97	0.97	0.96	0.93	0.93
5.00	1.21	1.04	1.17	1.09	1.03	1.01	0.99	0.98	0.98	0.97	0.95	0.95

Ceiling mounted

**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	27763	27763	27763	27763	27763	27763	27763
50.0	16529	16529	16529	16529	16529	16529	16529
55.0	9783	9783	9783	9783	9783	9783	9783
60.0	3766	3766	3766	3766	3766	3766	3766
65.0	107	107	107	107	107	107	107
70.0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0
90.0	-	-	-	-	-	-	-

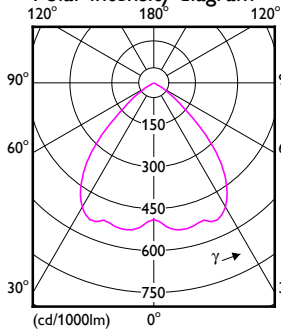
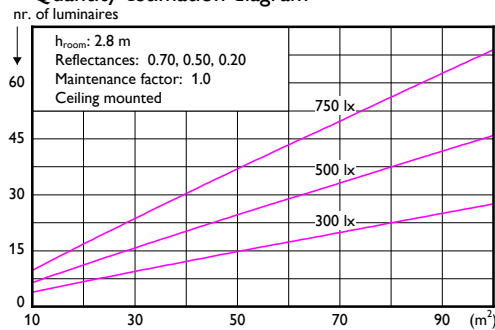
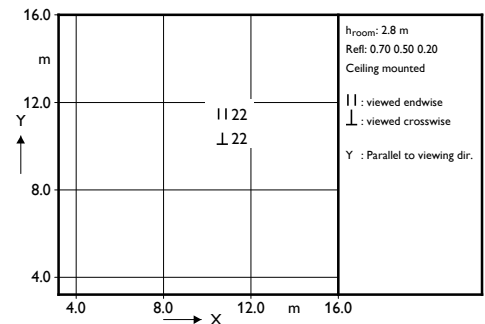
(cd/m²)

LVC2130850

2013-07-08

**DN488 1xDLED840 UGR22 1 x LGIT7030**

1 x 1069 lm

**Polar intensity diagram****Quantity estimation diagram****UGR diagram**

Light output ratio 1.00  
Service upward 0.00  
Service downward 1.00

CIE flux code 76 99 100 100 100

UGRcen (4Hx8H, 0.25H) 21  
EN12464-1 65 deg, 200 cd/m²  
CIBSE: LG3 65 deg, 200 cd/m²

**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80			0.70			0.50			0.30		
	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30
0.60	0.67	0.63	0.60	0.66	0.64	0.63	0.57	0.57	0.54	0.57	0.53	0.52
0.80	0.77	0.72	0.70	0.76	0.74	0.72	0.66	0.66	0.62	0.65	0.62	0.60
1.00	0.85	0.79	0.84	0.81	0.78	0.74	0.73	0.73	0.70	0.72	0.69	0.68
1.25	0.93	0.85	0.91	0.87	0.84	0.80	0.79	0.76	0.78	0.76	0.74	0.74
1.50	0.98	0.89	0.96	0.92	0.88	0.84	0.83	0.81	0.82	0.80	0.78	0.78
2.00	1.06	0.95	1.04	0.98	0.94	0.91	0.90	0.87	0.88	0.87	0.85	0.85
2.50	1.11	0.98	1.08	1.02	0.97	0.95	0.93	0.91	0.92	0.90	0.88	0.88
3.00	1.14	1.00	1.11	1.05	0.99	0.97	0.96	0.94	0.94	0.93	0.91	0.93
4.00	1.18	1.02	1.15	1.08	1.01	1.00	0.98	0.97	0.97	0.96	0.93	0.93
5.00	1.21	1.04	1.17	1.09	1.03	1.01	0.99	0.98	0.98	0.97	0.95	0.95

Ceiling mounted

**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	30749	30749	30749	30749	30749	30749	30749
50.0	18380	18380	18380	18380	18380	18380	18380
55.0	11095	11095	11095	11095	11095	11095	11095
60.0	4503	4503	4503	4503	4503	4503	4503
65.0	157	157	157	157	157	157	157
70.0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0
90.0	-	-	-	-	-	-	-

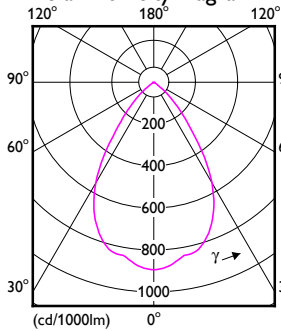
(cd/m²)

LVC2130851

2013-07-08

**DN489 1xDLED830 UGR19 1 x LGIT7030**

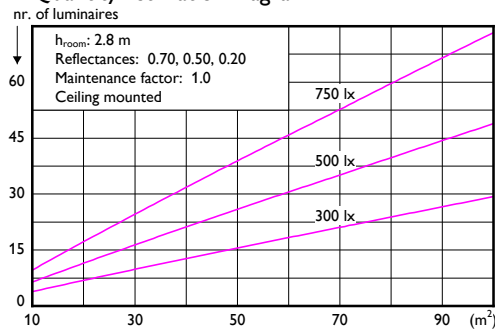
1 x 977 lm

**Polar intensity diagram**

Light output ratio 1.00  
Service upward 0.00  
Service downward 1.00

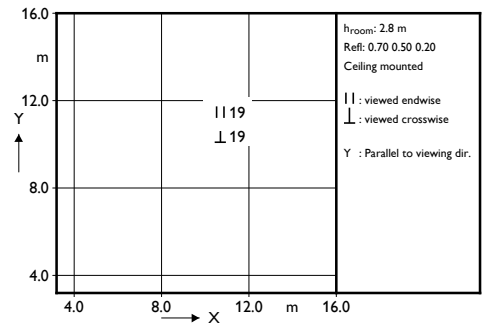
CIE flux code 88 100 100 100 100

UGRcen (4Hx8H, 0.25H) 17  
EN12464-1 65 deg, 1000 cd/m<sup>2</sup>  
CIBSE: LG3 65 deg, 500 cd/m<sup>2</sup>

**Quantity estimation diagram****Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80			0.70			0.50			0.30		
	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30
0.60	0.76	0.72	0.70	0.74	0.72	0.68	0.67	0.64	0.67	0.64	0.63	0.63
0.80	0.84	0.79	0.83	0.81	0.79	0.74	0.74	0.71	0.73	0.71	0.69	0.69
1.00	0.92	0.85	0.90	0.87	0.84	0.80	0.80	0.77	0.79	0.77	0.75	0.75
1.25	0.98	0.90	0.96	0.92	0.89	0.85	0.85	0.82	0.84	0.82	0.80	0.80
1.50	1.02	0.93	1.00	0.96	0.92	0.89	0.88	0.86	0.87	0.85	0.84	0.84
2.00	1.09	0.98	1.07	1.02	0.97	0.94	0.93	0.92	0.92	0.91	0.89	0.89
2.50	1.14	1.01	1.11	1.05	1.00	0.98	0.97	0.95	0.95	0.94	0.92	0.92
3.00	1.17	1.02	1.14	1.07	1.02	1.00	0.99	0.98	0.97	0.96	0.94	0.94
4.00	1.21	1.04	1.17	1.10	1.03	1.02	1.01	1.00	0.99	0.98	0.96	0.96
5.00	1.23	1.05	1.19	1.11	1.04	1.03	1.02	1.01	1.00	1.00	0.97	0.97

Ceiling mounted

**UGR diagram****Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	15499	15499	15499	15499	15499	15499	15499
50.0	8094	8094	8094	8094	8094	8094	8094
55.0	2436	2436	2436	2436	2436	2436	2436
60.0	501	501	501	501	501	501	501
65.0	359	359	359	359	359	359	359
70.0	67	67	67	67	67	67	67
75.0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0
90.0	-	-	-	-	-	-	-

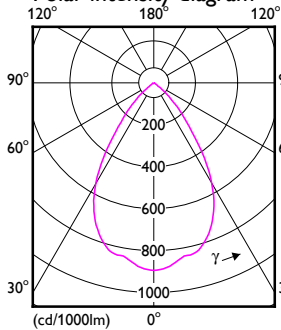
(cd/m<sup>2</sup>)

LVC2130852

2013-07-08

**DN489 1xDLED840 UGR19 1 x LGIT7030**

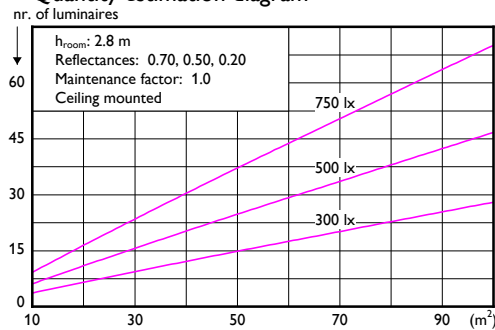
1 x 1022 lm

**Polar intensity diagram**

Light output ratio 1.00  
Service upward 0.00  
Service downward 1.00

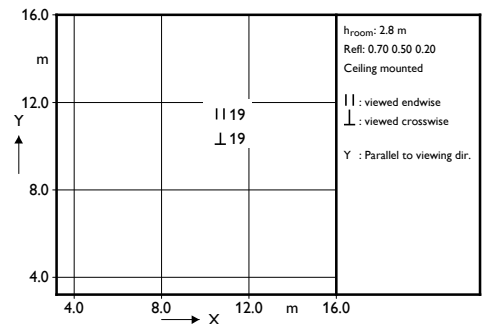
CIE flux code 88 100 100 100 100

UGRcen (4Hx8H, 0.25H) 17  
EN12464-1 65 deg, 1000 cd/m<sup>2</sup>  
CIBSE: LG3 65 deg, 500 cd/m<sup>2</sup>

**Quantity estimation diagram****Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80			0.70			0.50			0.30		
	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30
0.60	0.76	0.72	0.70	0.74	0.72	0.68	0.67	0.64	0.67	0.64	0.63	0.63
0.80	0.84	0.79	0.83	0.81	0.79	0.74	0.74	0.71	0.73	0.71	0.69	0.69
1.00	0.92	0.85	0.90	0.87	0.84	0.80	0.80	0.77	0.79	0.77	0.75	0.75
1.25	0.98	0.90	0.96	0.92	0.89	0.85	0.85	0.82	0.84	0.82	0.80	0.80
1.50	1.02	0.93	1.00	0.96	0.92	0.89	0.88	0.86	0.87	0.85	0.84	0.84
2.00	1.09	0.98	1.07	1.02	0.97	0.94	0.93	0.92	0.92	0.91	0.89	0.89
2.50	1.14	1.01	1.11	1.05	1.00	0.98	0.97	0.95	0.95	0.94	0.92	0.92
3.00	1.17	1.02	1.14	1.07	1.02	1.00	0.99	0.98	0.97	0.96	0.94	0.94
4.00	1.21	1.04	1.17	1.10	1.03	1.02	1.01	1.00	0.99	0.98	0.96	0.96
5.00	1.23	1.05	1.19	1.11	1.04	1.03	1.02	1.01	1.00	1.00	0.97	0.97

Ceiling mounted

**UGR diagram****Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	16187	16187	16187	16187	16187	16187	16187
50.0	8526	8526	8526	8526	8526	8526	8526
55.0	2534	2534	2534	2534	2534	2534	2534
60.0	540	540	540	540	540	540	540
65.0	376	376	376	376	376	376	376
70.0	46	46	46	46	46	46	46
75.0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0
90.0	-	-	-	-	-	-	-

(cd/m<sup>2</sup>)

LVC2130853

2013-07-08