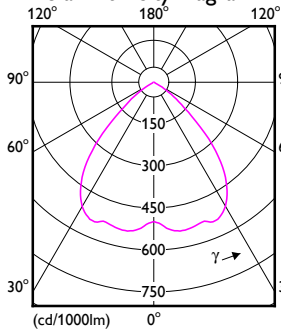
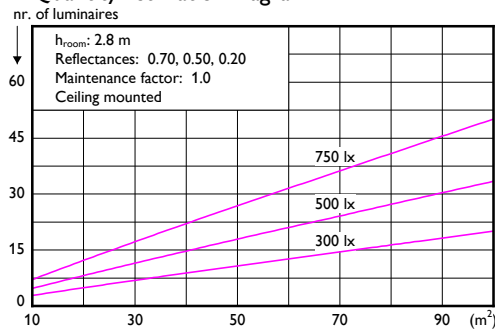


**DN486 1xDLED830 UGR22 1 x LGIT7030****1 x 1469 lm****Polar intensity diagram**

Light output ratio 1.00  
 Service upward 0.00  
 Service downward 1.00

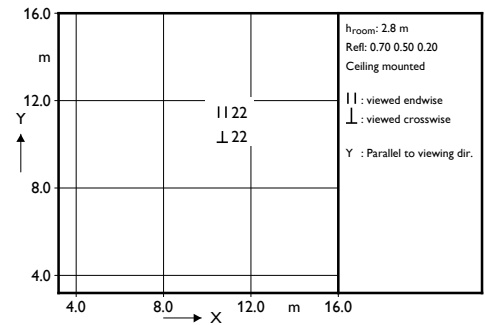
CIE flux code 76 99 100 100 100

UGRcen (4Hx8H, 0.25H) 22  
 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	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30
	0.50	0.50	0.50	0.50	0.50	0.30	0.10	0.10	0.10	0.10
0.60	0.67	0.63	0.66	0.64	0.63	0.57	0.57	0.54	0.57	0.53
0.80	0.77	0.72	0.76	0.74	0.72	0.66	0.66	0.62	0.65	0.62
1.00	0.85	0.79	0.84	0.81	0.78	0.74	0.73	0.70	0.72	0.69
1.25	0.93	0.85	0.91	0.87	0.84	0.80	0.79	0.76	0.78	0.76
1.50	0.98	0.89	0.96	0.92	0.88	0.84	0.83	0.81	0.82	0.80
2.00	1.06	0.95	1.04	0.98	0.94	0.91	0.90	0.87	0.88	0.87
2.50	1.11	0.98	1.08	1.02	0.97	0.95	0.93	0.91	0.92	0.90
3.00	1.14	1.00	1.11	1.05	0.99	0.97	0.96	0.94	0.94	0.93
4.00	1.18	1.02	1.15	1.08	1.01	1.00	0.98	0.97	0.97	0.96
5.00	1.21	1.04	1.17	1.09	1.03	1.01	0.99	0.98	0.98	0.97

Ceiling mounted

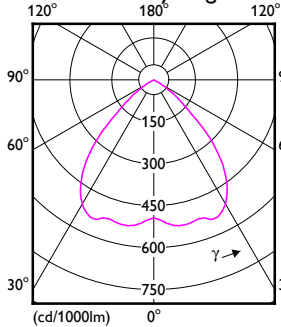
**UGR diagram****Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	41699	41699	41699	41699	41699	41699	41699
50.0	25147	25147	25147	25147	25147	25147	25147
55.0	14847	14847	14847	14847	14847	14847	14847
60.0	5685	5685	5685	5685	5685	5685	5685
65.0	297	297	297	297	297	297	297
70.0	167	167	167	167	167	167	167
75.0	44	44	44	44	44	44	44
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>)

LVC2130854

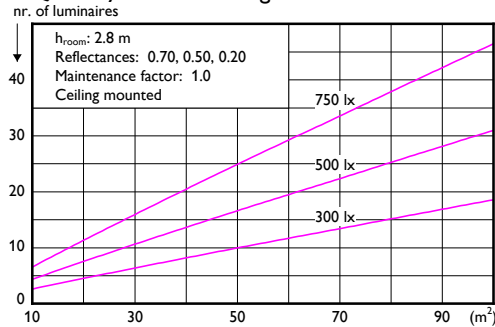
2013-07-03

**DN486 1xDLED840 UGR22 1 x LGIT7030****1 x 1585 lm****Polar intensity diagram**

Light output ratio 1.00  
 Service upward 0.00  
 Service downward 1.00

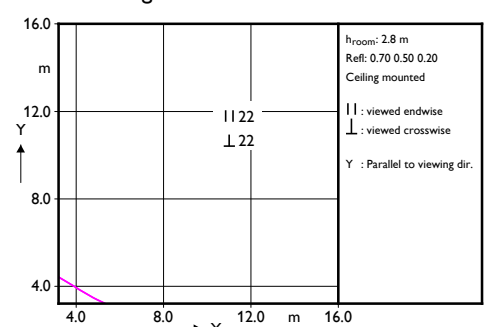
CIE flux code 76 99 100 100 100

UGRcen (4Hx8H, 0.25H) 22  
 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	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30
	0.50	0.50	0.50	0.50	0.50	0.30	0.10	0.10	0.10	0.10
0.60	0.67	0.63	0.66	0.64	0.63	0.57	0.57	0.54	0.57	0.53
0.80	0.77	0.72	0.76	0.74	0.72	0.66	0.66	0.62	0.65	0.62
1.00	0.85	0.79	0.84	0.81	0.78	0.74	0.73	0.70	0.72	0.69
1.25	0.93	0.85	0.91	0.87	0.84	0.80	0.79	0.76	0.78	0.76
1.50	0.98	0.89	0.96	0.92	0.88	0.84	0.83	0.81	0.82	0.80
2.00	1.06	0.95	1.04	0.98	0.94	0.91	0.90	0.87	0.88	0.87
2.50	1.11	0.98	1.08	1.02	0.97	0.95	0.93	0.91	0.92	0.90
3.00	1.14	1.00	1.11	1.05	0.99	0.97	0.96	0.94	0.94	0.93
4.00	1.18	1.02	1.15	1.08	1.01	1.00	0.98	0.97	0.97	0.96
5.00	1.21	1.04	1.17	1.09	1.03	1.01	0.99	0.98	0.98	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	45572	45572	45572	45572	45572	45572	45572
50.0	27385	27385	27385	27385	27385	27385	27385
55.0	16644	16644	16644	16644	16644	16644	16644
60.0	6800	6800	6800	6800	6800	6800	6800
65.0	379	379	379	379	379	379	379
70.0	144	144	144	144	144	144	144
75.0	48	48	48	48	48	48	48
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>)

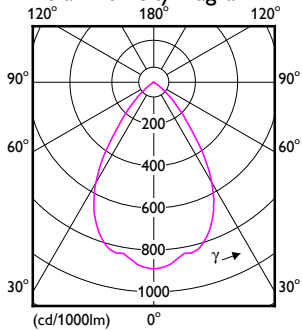
LVC2130855

2013-07-03

**DN487 1xDLED840 UGR19 1 x LGIT7030**

1 x 1516 lm

Polar intensity diagram

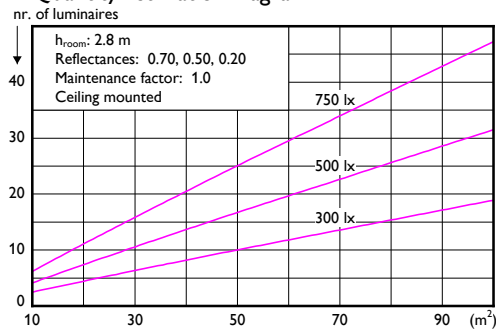


Light output ratio 1.00  
Service upward 0.00  
Service downward 1.00

CIE flux code 88 100 100 100 100

UGRcen (4Hx8H, 0.25H) 19  
EN12464-1 65 deg, 1000 cd/m<sup>2</sup>  
CIBSE: LG3 65 deg, 1000 cd/m<sup>2</sup>

Quantity estimation diagram

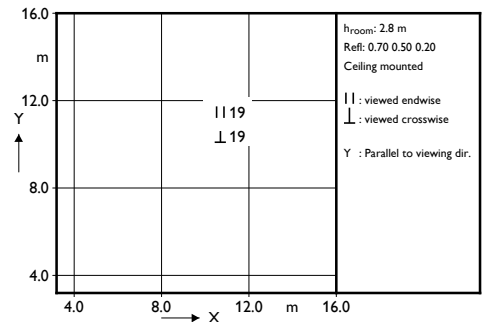


Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)									
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30
	0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10
0.60	0.76	0.72	0.75	0.74	0.72	0.68	0.67	0.64	0.67	0.64
0.80	0.84	0.79	0.83	0.81	0.79	0.74	0.74	0.71	0.73	0.71
1.00	0.92	0.85	0.90	0.87	0.84	0.80	0.80	0.77	0.79	0.77
1.25	0.98	0.90	0.96	0.92	0.89	0.85	0.85	0.82	0.84	0.82
1.50	1.02	0.93	1.00	0.96	0.92	0.89	0.88	0.86	0.87	0.85
2.00	1.09	0.98	1.07	1.02	0.97	0.94	0.93	0.92	0.92	0.91
2.50	1.14	1.01	1.11	1.05	1.00	0.98	0.97	0.95	0.95	0.94
3.00	1.17	1.02	1.14	1.07	1.02	1.00	0.99	0.98	0.97	0.96
4.00	1.21	1.04	1.17	1.10	1.03	1.02	1.01	1.00	0.99	0.98
5.00	1.23	1.05	1.19	1.11	1.04	1.03	1.02	1.01	1.00	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	24165	24165	24165	24165	24165	24165	24165
50.0	12687	12687	12687	12687	12687	12687	12687
55.0	3883	3883	3883	3883	3883	3883	3883
60.0	872	872	872	872	872	872	872
65.0	669	669	669	669	669	669	669
70.0	138	138	138	138	138	138	138
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>)

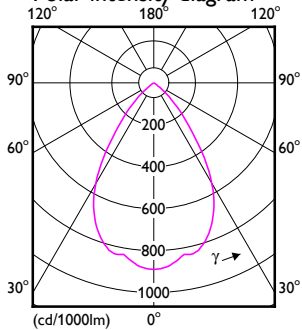
LVC2130857

2013-07-03

**DN487 1xDLED830 UGR19 1 x LGIT7030**

1 x 1423 lm

Polar intensity diagram

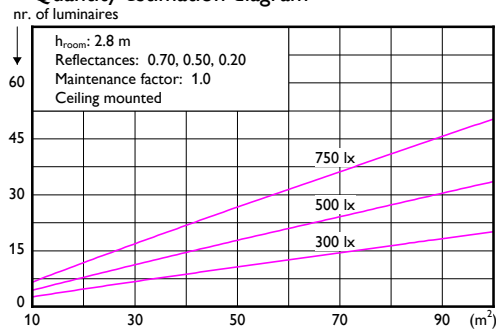


Light output ratio 1.00  
Service upward 0.00  
Service downward 1.00

CIE flux code 88 100 100 100 100

UGRcen (4Hx8H, 0.25H) 19  
EN12464-1 65 deg, 1000 cd/m<sup>2</sup>  
CIBSE: LG3 65 deg, 1000 cd/m<sup>2</sup>

Quantity estimation diagram

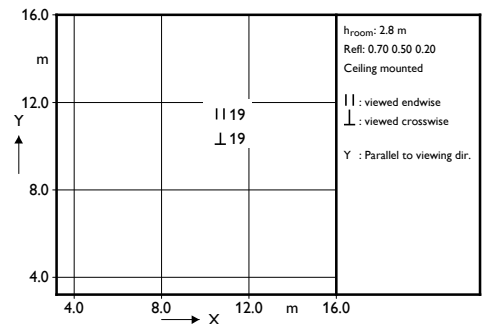


Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)									
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30
	0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10
0.60	0.76	0.72	0.75	0.74	0.72	0.68	0.67	0.64	0.67	0.64
0.80	0.84	0.79	0.83	0.81	0.79	0.74	0.74	0.71	0.73	0.71
1.00	0.92	0.85	0.90	0.87	0.84	0.80	0.80	0.77	0.79	0.77
1.25	0.98	0.90	0.96	0.92	0.89	0.85	0.85	0.82	0.84	0.82
1.50	1.02	0.93	1.00	0.96	0.92	0.89	0.88	0.86	0.87	0.85
2.00	1.09	0.98	1.07	1.02	0.97	0.94	0.93	0.92	0.92	0.91
2.50	1.14	1.01	1.11	1.05	1.00	0.98	0.97	0.95	0.95	0.94
3.00	1.17	1.02	1.14	1.07	1.02	1.00	0.99	0.98	0.97	0.96
4.00	1.21	1.04	1.17	1.10	1.03	1.02	1.01	1.00	0.99	0.98
5.00	1.23	1.05	1.19	1.11	1.04	1.03	1.02	1.01	1.00	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	22634	22634	22634	22634	22634	22634	22634
50.0	11822	11822	11822	11822	11822	11822	11822
55.0	3548	3548	3548	3548	3548	3548	3548
60.0	774	774	774	774	774	774	774
65.0	602	602	602	602	602	602	602
70.0	129	129	129	129	129	129	129
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>)

LVC2130856

2013-07-03