



IES INDOOR REPORT

PHOTOMETRIC FILENAME : D27 FARETTI - HIGH OUTPUT - OPEN DOWNLIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST] PT0451

[ISSUE DATE] 2017-10-31 10:36

[MANUFAC] Milux

[LUMCAT] COB

[LUMINAIRE] Vero13 16W

[LAMPCAT] Bridgelux

[LAMP] Vero 13

[OTHER] 30.9 V, 0.700 A, 1.000 POWER FACTOR

[TESTLAB] ÖDÉ½ÊÐÀú±|ÖÖÃ÷ÖÆÆ·ÓÐİþ¹«Ë¾

[TESTINST] GPM-1600L

[OTHER] HIGH-OUTPUT VERSION OF D27 FARETTI DOWNLIGHTS

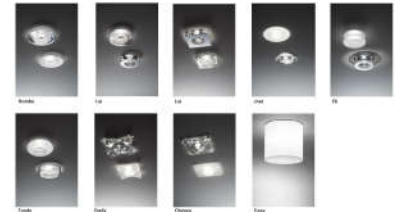
[OTHER] FABBIAN Faretti Series Downlights (D27) Light Module with reflector

[MORE] Reference Photometric file for all fixtures.

[MORE] Direct output in open downlights.

CHARACTERISTICS

Lumens Per Lamp	3080 (1 lamp)
Total Lamp Lumens	3080
Luminaire Lumens	3080
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	21.75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 m
Luminous Width (90-270)	0.04 m
Luminous Height	0.00 m



IES INDOOR REPORT**PHOTOMETRIC FILENAME : D27 FARETTI - HIGH OUTPUT - OPEN DOWNLIGHT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	239880	325562	302707
55	32622	34432	33758
65	23221	27051	26376
75	11171	13943	13019
85	12849	14659	13898

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CANDELA TABULATION

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0.0	4030.551	4030.551	4030.551	4030.551	4030.551	4030.551	4030.551	4030.551	4030.551	4030.551
2.5	4016.511	4024.792	4021.361	4046.047	4036.425	4014.243	3967.534	3935.474	3912.385	4012.823
5.0	3976.919	4014.322	4031.653	4068.741	4018.837	3924.353	3818.966	3714.348	3670.477	3834.030
7.5	3850.178	3955.644	4011.976	4019.271	3905.681	3721.209	3527.174	3402.385	3349.899	3533.464
10.0	3583.604	3767.919	3892.550	3829.337	3662.117	3411.672	3221.758	3118.894	3078.455	3236.664
12.5	3276.827	3470.685	3618.760	3514.535	3335.170	3123.567	2950.057	2857.565	2827.102	2982.965
15.0	3033.007	3195.396	3328.387	3252.812	3095.115	2879.845	2697.956	2594.994	2548.718	2712.172
17.5	2759.552	2938.424	3084.567	3010.904	2854.469	2616.682	2415.037	2325.068	2276.426	2413.873
20.0	2482.922	2662.801	2824.933	2734.196	2576.677	2359.376	2204.617	2139.827	2097.396	2200.516
22.5	2264.537	2401.235	2543.099	2452.617	2331.003	2167.194	2035.701	1959.042	1902.710	2012.021
25.0	2077.383	2207.377	2302.886	2250.321	2146.945	1993.862	1853.575	1754.379	1691.443	1794.484
27.5	1878.517	2018.035	2117.566	2046.999	1942.972	1788.529	1639.961	1529.053	1463.770	1559.772
30.0	1642.150	1786.281	1887.311	1803.179	1703.568	1552.418	1414.064	1311.693	1253.173	1337.976
32.5	1415.148	1543.210	1637.793	1554.666	1464.953	1336.537	1207.725	1093.722	1020.650	1119.097
35.0	1199.030	1315.282	1396.476	1321.138	1243.058	1109.890	974.946	852.504	783.869	875.021
37.5	966.665	1077.988	1162.455	1075.641	983.149	870.742	743.429	632.442	581.474	657.148
40.0	723.101	826.813	894.600	815.751	739.920	640.152	520.706	434.326	391.382	463.547
42.5	512.918	611.109	671.798	604.149	540.049	444.618	342.839	264.740	236.210	296.721
45.0	328.525	416.324	475.416	414.570	352.382	271.188	183.053	129.324	105.387	151.663
47.5	172.011	243.229	296.800	248.671	199.713	134.332	80.110	53.394	44.442	57.593
50.0	69.226	113.333	156.178	116.508	86.124	55.839	40.854	39.079	37.837	39.848
52.5	39.257	45.112	57.495	44.186	40.854	39.513	37.995	36.752	35.155	36.654
55.0	36.240	37.995	38.507	37.502	38.093	37.659	35.747	32.987	31.389	33.223
57.5	33.065	34.899	35.826	34.741	35.491	33.992	30.975	27.959	26.283	28.452
60.0	28.629	31.311	32.987	31.646	31.389	28.964	25.612	22.517	21.097	23.187
62.5	23.522	26.105	28.294	26.618	25.948	23.680	20.506	17.903	16.483	18.495
65.0	19.007	21.176	23.108	21.590	20.841	19.165	16.405	14.236	13.053	14.571
67.5	15.241	17.154	18.751	17.410	16.819	15.143	12.717	10.371	9.129	10.805
70.0	11.554	13.565	15.143	13.723	13.053	10.884	8.794	7.039	6.369	7.374
72.5	7.946	9.464	11.140	9.543	8.873	7.532	6.112	4.929	4.693	5.186
75.0	5.600	6.526	7.453	6.526	6.191	5.186	4.594	3.943	3.687	4.279
77.5	4.357	4.594	5.264	4.772	4.693	4.180	3.608	3.017	2.839	3.352
80.0	3.431	3.766	4.180	3.845	3.608	3.273	2.760	2.346	2.169	2.603
82.5	2.682	2.938	3.273	3.017	2.760	2.603	2.169	1.932	1.834	2.090
85.0	2.169	2.346	2.603	2.346	2.267	2.090	1.834	1.597	1.420	1.834
87.5	1.834	1.834	2.090	1.932	1.834	1.755	1.498	1.163	1.084	1.262
90.0	1.498	1.597	1.755	1.498	1.498	1.341	1.262	1.163	1.262	1.262
92.5	1.163	1.084	1.341	1.084	1.163	1.262	1.262	1.163	1.262	1.163
95.0	1.163	1.084	1.084	1.006	1.262	1.341	1.341	1.341	1.341	1.262
97.5	1.262	1.163	1.163	1.163	1.262	1.420	1.420	1.341	1.498	1.341
100.0	1.262	1.262	1.262	1.262	1.341	1.498	1.498	1.597	1.597	1.597
102.5	1.420	1.420	1.420	1.341	1.498	1.597	1.676	1.755	1.834	1.834
105.0	1.676	1.597	1.597	1.498	1.676	1.755	1.932	2.011	2.169	2.011
107.5	1.932	1.755	1.676	1.676	2.011	2.090	2.267	2.267	2.504	2.346
110.0	2.267	2.011	1.932	1.932	2.267	2.346	2.504	2.603	2.938	2.760
112.5	2.603	2.425	2.267	2.267	2.425	2.760	3.017	3.017	3.352	3.273
115.0	3.017	2.938	2.682	2.603	2.839	3.096	3.431	3.608	3.845	3.766
117.5	3.510	3.352	3.096	3.017	3.174	3.608	3.943	4.101	4.357	4.357
120.0	4.101	3.608	3.608	3.431	3.352	4.180	4.436	4.772	5.028	5.107
122.5	4.594	4.357	4.101	3.608	4.279	4.693	5.028	5.442	5.777	5.777
125.0	5.363	4.929	4.772	4.594	4.850	5.264	5.698	6.191	6.447	6.704
127.5	6.033	5.698	5.363	5.264	5.521	6.033	6.447	6.940	7.276	7.532
130.0	6.862	6.447	6.191	6.033	6.270	6.783	7.197	7.867	8.202	8.459
132.5	7.709	7.197	6.940	6.783	7.039	7.611	8.202	8.794	9.129	9.366

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CANDELA TABULATION - (Cont.)

135.0	8.695	8.123	7.788	7.611	8.045	8.537	9.129	9.701	10.135	10.371
137.5	9.622	9.129	8.794	8.459	8.873	9.464	10.135	10.627	11.042	11.475
140.0	10.627	10.036	9.622	9.464	9.701	10.371	11.042	11.633	11.968	12.481
142.5	11.633	11.042	10.627	10.292	10.706	11.377	12.047	12.639	12.974	13.467
145.0	12.717	12.047	11.712	11.298	11.633	12.303	12.895	13.467	13.979	14.393
147.5	13.565	12.974	12.639	12.303	12.639	13.230	13.802	14.393	14.729	15.320
150.0	14.472	13.900	13.565	13.230	13.565	14.137	14.650	15.064	15.478	16.148
152.5	15.320	14.729	14.472	14.236	14.393	14.807	15.399	15.813	16.247	16.819
155.0	16.069	15.576	15.320	14.985	15.320	15.576	15.813	16.483	16.819	17.489
157.5	16.740	16.326	16.069	15.655	15.990	16.247	16.740	17.154	17.410	18.159
160.0	17.489	17.075	16.819	16.405	16.661	16.917	17.331	17.568	17.903	18.672
162.5	18.080	17.666	17.410	17.075	17.331	17.489	17.903	18.159	18.495	19.165
165.0	18.573	18.238	18.080	17.745	17.903	18.080	18.495	18.672	19.007	19.579
167.5	19.007	18.751	18.672	18.337	18.495	18.672	19.007	19.086	19.421	19.914
170.0	19.421	19.244	19.165	18.830	19.007	19.165	19.421	19.500	19.756	20.170
172.5	19.756	19.756	19.579	19.342	19.421	19.500	19.756	19.678	20.013	20.348
175.0	20.013	20.013	19.835	19.678	19.835	19.835	20.013	20.013	20.170	20.348
177.5	20.092	20.170	20.013	19.914	19.914	20.092	20.249	20.013	20.170	20.249
180.0	20.127	20.127	20.127	20.127	20.127	20.127	20.127	20.127	20.127	20.127

Vert. Angles Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0.0	4030.551	4030.551	4030.551
2.5	4013.652	4012.074	4016.511
5.0	3877.131	3932.299	3976.919
7.5	3595.651	3711.410	3850.178
10.0	3298.753	3412.263	3583.604
12.5	3042.471	3140.977	3276.827
15.0	2788.772	2895.067	3033.007
17.5	2489.528	2602.368	2759.552
20.0	2260.199	2353.106	2482.922
22.5	2075.037	2166.524	2264.537
25.0	1864.025	1966.731	2077.383
27.5	1631.424	1744.008	1878.517
30.0	1399.079	1503.618	1642.150
32.5	1184.459	1285.410	1415.148
35.0	930.682	1048.944	1199.030
37.5	710.719	812.833	966.665
40.0	500.279	592.279	723.101
42.5	327.440	402.108	512.918
45.0	182.639	236.703	328.525
47.5	72.145	108.897	172.011
50.0	41.090	45.862	69.226
52.5	37.837	38.428	39.257
55.0	34.071	35.491	36.240
57.5	29.299	31.311	33.065
60.0	24.114	26.283	28.629
62.5	19.244	21.018	23.522
65.0	15.320	16.917	19.007
67.5	11.712	13.565	15.241
70.0	7.946	9.622	11.554
72.5	5.698	6.704	7.946
75.0	4.357	4.772	5.600
77.5	3.510	3.943	4.357
80.0	2.760	3.096	3.431

IES INDOOR REPORT**PHOTOMETRIC FILENAME : D27 FARETTI - HIGH OUTPUT - OPEN DOWNLIGHT.IES****CANDELA TABULATION - (Cont.)**

82.5	2.346	2.504	2.682
85.0	1.932	2.090	2.169
87.5	1.597	1.834	1.834
90.0	1.341	1.262	1.498
92.5	1.341	1.262	1.163
95.0	1.341	1.420	1.163
97.5	1.498	1.498	1.262
100.0	1.676	1.597	1.262
102.5	1.834	1.755	1.420
105.0	2.090	2.011	1.676
107.5	2.425	2.267	1.932
110.0	2.839	2.603	2.267
112.5	3.273	2.938	2.603
115.0	3.687	3.431	3.017
117.5	4.279	3.943	3.510
120.0	4.929	4.515	4.101
122.5	5.600	5.107	4.594
125.0	6.447	5.856	5.363
127.5	7.276	6.605	6.033
130.0	8.202	7.532	6.862
132.5	9.129	8.459	7.709
135.0	10.135	9.366	8.695
137.5	11.140	10.371	9.622
140.0	12.146	11.377	10.627
142.5	13.053	12.382	11.633
145.0	14.058	13.309	12.717
147.5	14.985	14.315	13.565
150.0	15.813	15.143	14.472
152.5	16.483	15.990	15.320
155.0	17.252	16.661	16.069
157.5	17.824	17.331	16.740
160.0	18.416	17.903	17.489
162.5	18.909	18.495	18.080
165.0	19.421	18.909	18.573
167.5	19.835	19.421	19.007
170.0	20.170	19.835	19.421
172.5	20.348	20.092	19.756
175.0	20.249	20.249	20.013
177.5	20.348	20.249	20.092
180.0	20.127	20.127	20.127

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Zone	Lumens	%Lamp	%Fixt
0-20	1170.72	38.00	38.00
0-30	2078.45	67.50	67.50
0-40	2751.05	89.30	89.30
0-60	3012.37	97.80	97.80
0-80	3036.59	98.60	98.60
0-90	3038.9	98.70	98.70
10-90	2680.65	87.00	87.00
20-40	1580.33	51.30	51.30
20-50	1806.7	58.70	58.70
40-70	279.38	9.10	9.10
60-80	24.21	0.80	0.80
70-80	6.16	0.20	0.20
80-90	2.31	0.10	0.10
90-110	3.40	0.10	0.10
90-120	6.64	0.20	0.20
90-130	11.66	0.40	0.40
90-150	26.57	0.90	0.90
90-180	41.09	1.30	1.30
110-180	37.69	1.20	1.20
0-180	3079.99	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	358.25
10-20	812.47
20-30	907.73
30-40	672.60
40-50	226.37
50-60	34.95
60-70	18.06
70-80	6.16
80-90	2.31
90-100	1.42
100-110	1.98
110-120	3.24
120-130	5.02
130-140	6.92
140-150	7.99
150-160	7.40
160-170	5.22
170-180	1.89

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	113	110	108	105	110	108	106	104	104	102	100	100	98	97	96	95	94	92
2	107	102	98	95	105	101	97	94	97	94	91	94	91	89	91	89	87	85
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	97	89	83	79	95	88	83	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	73	80	75	72	78	74	71	77	73	70	69
6	87	78	72	68	85	77	71	67	75	70	67	74	70	66	72	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	61	60
8	79	69	63	59	77	68	63	59	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	65	59	55	63	58	55	63	58	54	62	57	54	53
10	71	62	56	52	70	61	56	52	60	55	52	59	55	51	58	54	51	50

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	15.4	16.4	15.8	16.7	17.1	15.9	16.9	16.3	17.2	17.6
	3H	16.2	17.1	16.6	17.4	17.8	16.8	17.7	17.2	18.1	18.5
	4H	16.3	17.1	16.8	17.5	17.9	17.0	17.8	17.4	18.2	18.6
	6H	16.4	17.1	16.8	17.5	17.9	17.0	17.8	17.5	18.2	18.6
	8H	16.4	17.1	16.8	17.5	17.9	17.1	17.8	17.5	18.2	18.6
	12H	16.4	17.1	16.9	17.5	17.9	17.1	17.8	17.5	18.2	18.6

UGR Viewed Endwise

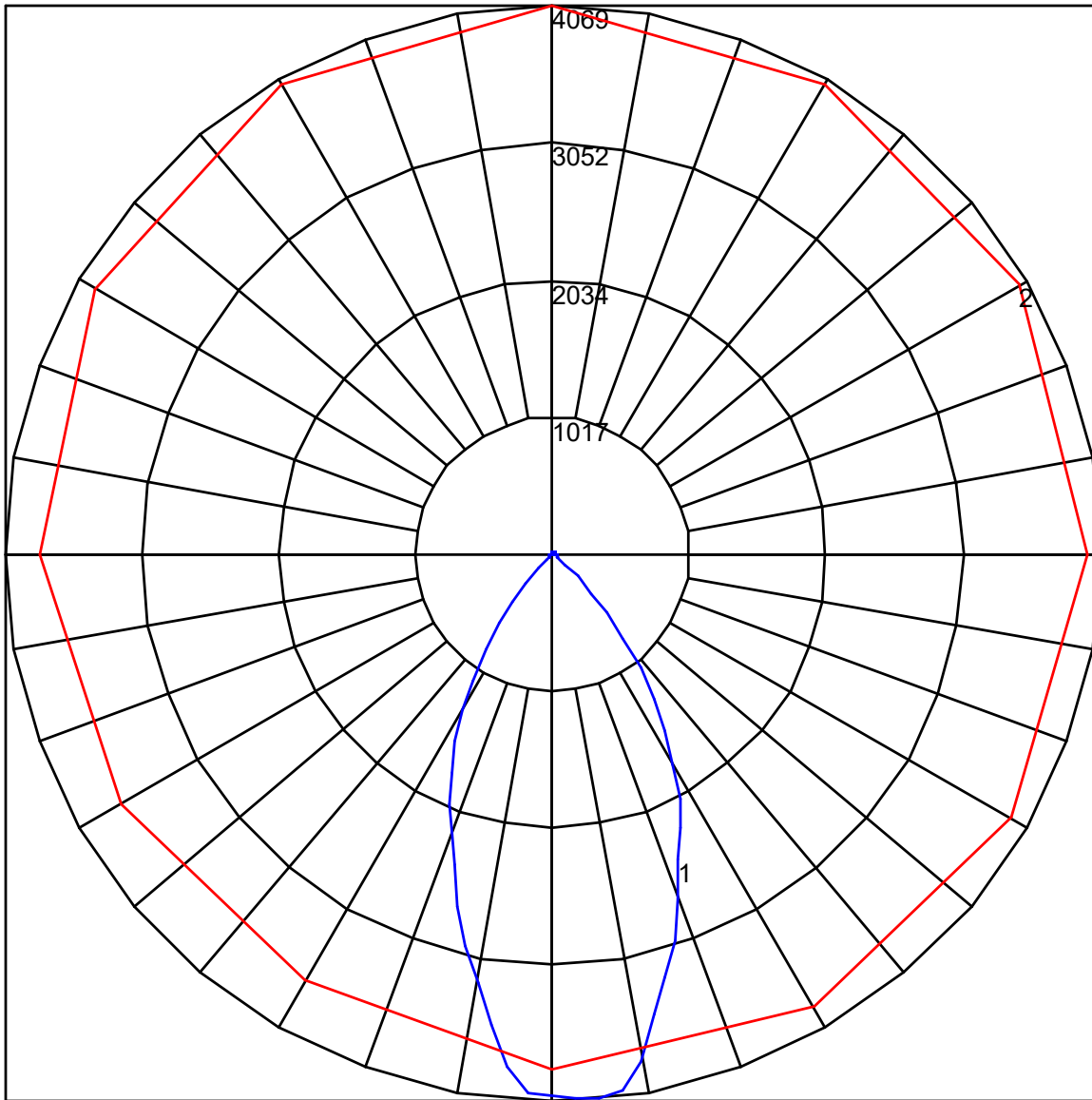
4H	2H	15.7	16.5	16.1	16.8	17.3	16.1	17.0	16.6	17.3	17.7
	3H	16.6	17.2	17.0	17.7	18.1	17.3	17.9	17.7	18.4	18.8
	4H	16.7	17.3	17.2	17.8	18.2	17.4	18.0	17.9	18.5	19.0
	6H	16.8	17.4	17.3	17.8	18.3	17.6	18.1	18.1	18.5	19.0
	8H	16.9	17.4	17.4	17.8	18.3	17.6	18.1	18.1	18.5	19.0
	12H	16.9	17.3	17.4	17.9	18.4	17.7	18.1	18.2	18.6	19.1
8H	4H	16.7	17.2	17.2	17.7	18.2	17.4	17.9	17.9	18.4	18.9
	6H	16.9	17.3	17.4	17.8	18.3	17.6	18.0	18.1	18.5	19.0
	8H	17.0	17.3	17.5	17.8	18.4	17.7	18.0	18.2	18.6	19.1
	12H	17.1	17.4	17.6	17.9	18.5	17.8	18.1	18.3	18.6	19.2
12H	4H	16.7	17.1	17.2	17.6	18.1	17.4	17.8	17.9	18.3	18.8
	6H	16.9	17.2	17.4	17.7	18.3	17.6	17.9	18.1	18.4	19.0
	8H	17.0	17.3	17.5	17.8	18.4	17.7	18.0	18.2	18.5	19.1

Maximum UGR = 19.2

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POLAR GRAPH



Maximum Candela = 4068.741 Located At Horizontal Angle = 90, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)