



IES INDOOR REPORT

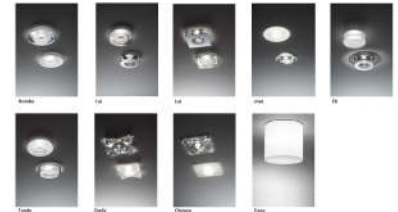
PHOTOMETRIC FILENAME : D27 FARETTI - STANDARD OUTPUT - OPEN DOWNLIGHT.IES

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, 0.500 A, 1.000 POWER FACTOR
[TESTLAB] ÖDÉ½ÊÐÀú±|ÖÖÃ÷ÖÆÆ·ÓÐİþ¹«Ë¾
[TESTINST] GPM-1600L
[TESTDIST] 7.635 m
[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	1562.1 (1 lamp)
Total Lamp Lumens	1562.1
Luminaire Lumens	1562
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	15.46
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



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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	121661	165117	153526
55	16545	17463	17121
65	11777	13720	13378
75	5665	7072	6603
85	6516	7435	7050

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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	2044.201	2044.201	2044.201	2044.201	2044.201	2044.201	2044.201	2044.201	2044.201	2044.201
2.5	2037.080	2041.280	2039.540	2052.060	2047.180	2035.930	2012.240	1995.980	1984.270	2035.210
5.0	2017.000	2035.970	2044.760	2063.570	2038.260	1990.340	1936.890	1883.830	1861.580	1944.530
7.5	1952.720	2006.210	2034.780	2038.480	1980.870	1887.310	1788.900	1725.610	1698.990	1792.090
10.0	1817.520	1911.000	1974.210	1942.150	1857.340	1730.320	1634.000	1581.830	1561.320	1641.560
12.5	1661.930	1760.250	1835.350	1782.490	1691.520	1584.200	1496.200	1449.290	1433.840	1512.890
15.0	1538.270	1620.630	1688.080	1649.750	1569.770	1460.590	1368.340	1316.120	1292.650	1375.550
17.5	1399.580	1490.300	1564.420	1527.060	1447.720	1327.120	1224.850	1179.220	1154.550	1224.260
20.0	1259.280	1350.510	1432.740	1386.720	1306.830	1196.620	1118.130	1085.270	1063.750	1116.050
22.5	1148.520	1217.850	1289.800	1243.910	1182.230	1099.150	1032.460	993.580	965.010	1020.450
25.0	1053.600	1119.530	1167.970	1141.310	1088.880	1011.240	940.090	889.780	857.860	910.120
27.5	952.740	1023.500	1073.980	1038.190	985.430	907.100	831.750	775.500	742.390	791.080
30.0	832.860	905.960	957.200	914.530	864.010	787.350	717.180	665.260	635.580	678.590
32.5	717.730	782.680	830.650	788.490	742.990	677.860	612.530	554.710	517.650	567.580
35.0	608.120	667.080	708.260	670.050	630.450	562.910	494.470	432.370	397.560	443.790
37.5	490.270	546.730	589.570	545.540	498.630	441.620	377.050	320.760	294.910	333.290
40.0	366.740	419.340	453.720	413.730	375.270	324.670	264.090	220.280	198.500	235.100
42.5	260.140	309.940	340.720	306.410	273.900	225.500	173.880	134.270	119.800	150.490
45.0	166.620	211.150	241.120	210.260	178.720	137.540	92.840	65.590	53.450	76.920
47.5	87.240	123.360	150.530	126.120	101.290	68.130	40.630	27.080	22.540	29.210
50.0	35.110	57.480	79.210	59.090	43.680	28.320	20.720	19.820	19.190	20.210
52.5	19.910	22.880	29.160	22.410	20.720	20.040	19.270	18.640	17.830	18.590
55.0	18.380	19.270	19.530	19.020	19.320	19.100	18.130	16.730	15.920	16.850
57.5	16.770	17.700	18.170	17.620	18.000	17.240	15.710	14.180	13.330	14.430
60.0	14.520	15.880	16.730	16.050	15.920	14.690	12.990	11.420	10.700	11.760
62.5	11.930	13.240	14.350	13.500	13.160	12.010	10.400	9.080	8.360	9.380
65.0	9.640	10.740	11.720	10.950	10.570	9.720	8.320	7.220	6.620	7.390
67.5	7.730	8.700	9.510	8.830	8.530	7.680	6.450	5.260	4.630	5.480
70.0	5.860	6.880	7.680	6.960	6.620	5.520	4.460	3.570	3.230	3.740
72.5	4.030	4.800	5.650	4.840	4.500	3.820	3.100	2.500	2.380	2.630
75.0	2.840	3.310	3.780	3.310	3.140	2.630	2.330	2.000	1.870	2.170
77.5	2.210	2.330	2.670	2.420	2.380	2.120	1.830	1.530	1.440	1.700
80.0	1.740	1.910	2.120	1.950	1.830	1.660	1.400	1.190	1.100	1.320
82.5	1.360	1.490	1.660	1.530	1.400	1.320	1.100	0.980	0.930	1.060
85.0	1.100	1.190	1.320	1.190	1.150	1.060	0.930	0.810	0.720	0.930
87.5	0.930	0.930	1.060	0.980	0.930	0.890	0.760	0.590	0.550	0.640
90.0	0.760	0.810	0.890	0.760	0.760	0.680	0.640	0.590	0.640	0.640
92.5	0.590	0.550	0.680	0.550	0.590	0.640	0.640	0.590	0.640	0.590
95.0	0.590	0.550	0.550	0.510	0.640	0.680	0.680	0.680	0.680	0.640
97.5	0.640	0.590	0.590	0.590	0.640	0.720	0.720	0.680	0.760	0.680
100.0	0.640	0.640	0.640	0.640	0.680	0.760	0.760	0.810	0.810	0.810
102.5	0.720	0.720	0.720	0.680	0.760	0.810	0.850	0.890	0.930	0.930
105.0	0.850	0.810	0.810	0.760	0.850	0.890	0.980	1.020	1.100	1.020
107.5	0.980	0.890	0.850	0.850	1.020	1.060	1.150	1.150	1.270	1.190
110.0	1.150	1.020	0.980	0.980	1.150	1.190	1.270	1.320	1.490	1.400
112.5	1.320	1.230	1.150	1.150	1.230	1.400	1.530	1.530	1.700	1.660
115.0	1.530	1.490	1.360	1.320	1.440	1.570	1.740	1.830	1.950	1.910
117.5	1.780	1.700	1.570	1.530	1.610	1.830	2.000	2.080	2.210	2.210
120.0	2.080	1.830	1.830	1.740	1.700	2.120	2.250	2.420	2.550	2.590
122.5	2.330	2.210	2.080	1.830	2.170	2.380	2.550	2.760	2.930	2.930
125.0	2.720	2.500	2.420	2.330	2.460	2.670	2.890	3.140	3.270	3.400
127.5	3.060	2.890	2.720	2.670	2.800	3.060	3.270	3.520	3.690	3.820
130.0	3.480	3.270	3.140	3.060	3.180	3.440	3.650	3.990	4.160	4.290
132.5	3.910	3.650	3.520	3.440	3.570	3.860	4.160	4.460	4.630	4.750

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CANDELA TABULATION - (Cont.)

135.0	4.410	4.120	3.950	3.860	4.080	4.330	4.630	4.920	5.140	5.260
137.5	4.880	4.630	4.460	4.290	4.500	4.800	5.140	5.390	5.600	5.820
140.0	5.390	5.090	4.880	4.800	4.920	5.260	5.600	5.900	6.070	6.330
142.5	5.900	5.600	5.390	5.220	5.430	5.770	6.110	6.410	6.580	6.830
145.0	6.450	6.110	5.940	5.730	5.900	6.240	6.540	6.830	7.090	7.300
147.5	6.880	6.580	6.410	6.240	6.410	6.710	7.000	7.300	7.470	7.770
150.0	7.340	7.050	6.880	6.710	6.880	7.170	7.430	7.640	7.850	8.190
152.5	7.770	7.470	7.340	7.220	7.300	7.510	7.810	8.020	8.240	8.530
155.0	8.150	7.900	7.770	7.600	7.770	7.900	8.020	8.360	8.530	8.870
157.5	8.490	8.280	8.150	7.940	8.110	8.240	8.490	8.700	8.830	9.210
160.0	8.870	8.660	8.530	8.320	8.450	8.580	8.790	8.910	9.080	9.470
162.5	9.170	8.960	8.830	8.660	8.790	8.870	9.080	9.210	9.380	9.720
165.0	9.420	9.250	9.170	9.000	9.080	9.170	9.380	9.470	9.640	9.930
167.5	9.640	9.510	9.470	9.300	9.380	9.470	9.640	9.680	9.850	10.100
170.0	9.850	9.760	9.720	9.550	9.640	9.720	9.850	9.890	10.020	10.230
172.5	10.020	10.020	9.930	9.810	9.850	9.890	10.020	9.980	10.150	10.320
175.0	10.150	10.150	10.060	9.980	10.060	10.060	10.150	10.150	10.230	10.320
177.5	10.190	10.230	10.150	10.100	10.100	10.190	10.270	10.150	10.230	10.270
180.0	10.208	10.208	10.208	10.208	10.208	10.208	10.208	10.208	10.208	10.208

Vert. Angles

Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0.0	2044.201	2044.201	2044.201
2.5	2035.630	2034.830	2037.080
5.0	1966.390	1994.370	2017.000
7.5	1823.630	1882.340	1952.720
10.0	1673.050	1730.620	1817.520
12.5	1543.070	1593.030	1661.930
15.0	1414.400	1468.310	1538.270
17.5	1262.630	1319.860	1399.580
20.0	1146.320	1193.440	1259.280
22.5	1052.410	1098.810	1148.520
25.0	945.390	997.480	1053.600
27.5	827.420	884.520	952.740
30.0	709.580	762.600	832.860
32.5	600.730	651.930	717.730
35.0	472.020	532.000	608.120
37.5	360.460	412.250	490.270
40.0	253.730	300.390	366.740
42.5	166.070	203.940	260.140
45.0	92.630	120.050	166.620
47.5	36.590	55.230	87.240
50.0	20.840	23.260	35.110
52.5	19.190	19.490	19.910
55.0	17.280	18.000	18.380
57.5	14.860	15.880	16.770
60.0	12.230	13.330	14.520
62.5	9.760	10.660	11.930
65.0	7.770	8.580	9.640
67.5	5.940	6.880	7.730
70.0	4.030	4.880	5.860
72.5	2.890	3.400	4.030
75.0	2.210	2.420	2.840
77.5	1.780	2.000	2.210
80.0	1.400	1.570	1.740

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82.5	1.190	1.270	1.360
85.0	0.980	1.060	1.100
87.5	0.810	0.930	0.930
90.0	0.680	0.640	0.760
92.5	0.680	0.640	0.590
95.0	0.680	0.720	0.590
97.5	0.760	0.760	0.640
100.0	0.850	0.810	0.640
102.5	0.930	0.890	0.720
105.0	1.060	1.020	0.850
107.5	1.230	1.150	0.980
110.0	1.440	1.320	1.150
112.5	1.660	1.490	1.320
115.0	1.870	1.740	1.530
117.5	2.170	2.000	1.780
120.0	2.500	2.290	2.080
122.5	2.840	2.590	2.330
125.0	3.270	2.970	2.720
127.5	3.690	3.350	3.060
130.0	4.160	3.820	3.480
132.5	4.630	4.290	3.910
135.0	5.140	4.750	4.410
137.5	5.650	5.260	4.880
140.0	6.160	5.770	5.390
142.5	6.620	6.280	5.900
145.0	7.130	6.750	6.450
147.5	7.600	7.260	6.880
150.0	8.020	7.680	7.340
152.5	8.360	8.110	7.770
155.0	8.750	8.450	8.150
157.5	9.040	8.790	8.490
160.0	9.340	9.080	8.870
162.5	9.590	9.380	9.170
165.0	9.850	9.590	9.420
167.5	10.060	9.850	9.640
170.0	10.230	10.060	9.850
172.5	10.320	10.190	10.020
175.0	10.270	10.270	10.150
177.5	10.320	10.270	10.190
180.0	10.208	10.208	10.208

IES INDOOR REPORT**PHOTOMETRIC FILENAME : D27 FARETTI - STANDARD OUTPUT - OPEN DOWNLIGHT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	593.76	38.00	38.00
0-30	1054.14	67.50	67.50
0-40	1395.27	89.30	89.30
0-60	1527.81	97.80	97.80
0-80	1540.09	98.60	98.60
0-90	1541.26	98.70	98.70
10-90	1359.56	87.00	87.00
20-40	801.51	51.30	51.30
20-50	916.32	58.70	58.70
40-70	141.70	9.10	9.10
60-80	12.28	0.80	0.80
70-80	3.12	0.20	0.20
80-90	1.17	0.10	0.10
90-110	1.72	0.10	0.10
90-120	3.37	0.20	0.20
90-130	5.92	0.40	0.40
90-150	13.48	0.90	0.90
90-180	20.84	1.30	1.30
110-180	19.12	1.20	1.20
0-180	1562.1	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.70
10-20	412.07
20-30	460.38
30-40	341.12
40-50	114.81
50-60	17.73
60-70	9.16
70-80	3.12
80-90	1.17
90-100	0.72
100-110	1.00
110-120	1.64
120-130	2.55
130-140	3.51
140-150	4.05
150-160	3.76
160-170	2.65
170-180	0.96

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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	13.0	14.0	13.4	14.3	14.7	13.5	14.5	13.9	14.8	15.2
	3H	13.8	14.7	14.2	15.0	15.4	14.4	15.3	14.8	15.7	16.1
	4H	13.9	14.7	14.4	15.1	15.5	14.6	15.4	15.0	15.8	16.2
	6H	14.0	14.7	14.4	15.1	15.5	14.6	15.4	15.1	15.8	16.2
	8H	14.0	14.7	14.4	15.1	15.5	14.7	15.4	15.1	15.8	16.2
	12H	14.0	14.7	14.5	15.1	15.5	14.7	15.4	15.1	15.8	16.2

UGR Viewed Endwise

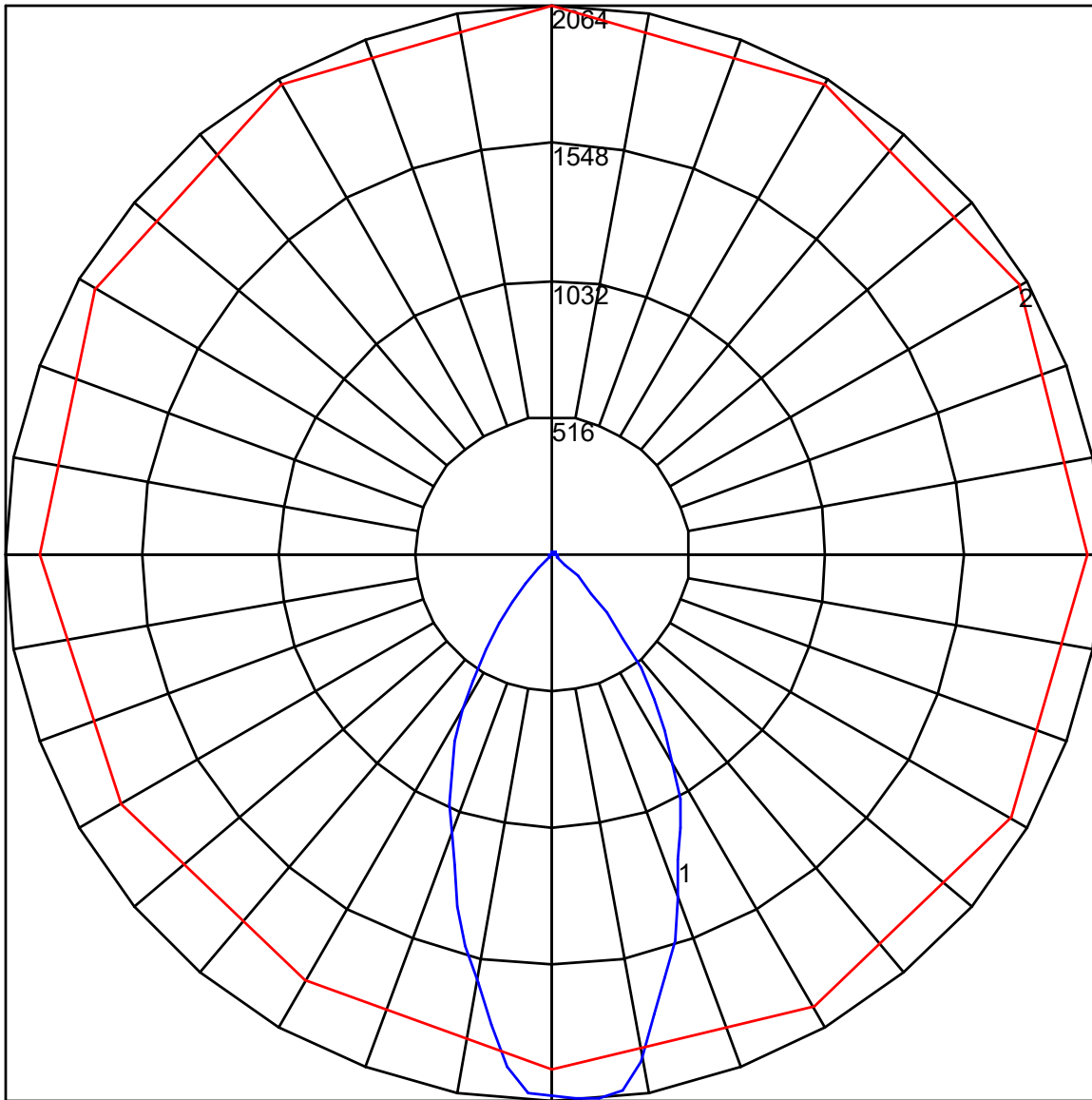
4H	2H	13.3	14.1	13.7	14.4	14.9	13.7	14.6	14.2	14.9	15.3
	3H	14.2	14.8	14.6	15.3	15.7	14.9	15.5	15.3	16.0	16.4
	4H	14.3	14.9	14.8	15.4	15.8	15.0	15.6	15.5	16.1	16.6
	6H	14.4	15.0	14.9	15.4	15.9	15.2	15.7	15.7	16.1	16.6
	8H	14.5	15.0	15.0	15.4	15.9	15.2	15.7	15.7	16.1	16.6
	12H	14.5	14.9	15.0	15.5	16.0	15.3	15.7	15.8	16.2	16.7
8H	4H	14.3	14.8	14.8	15.3	15.8	15.0	15.5	15.5	16.0	16.5
	6H	14.5	14.9	15.0	15.4	15.9	15.2	15.6	15.7	16.1	16.6
	8H	14.6	14.9	15.1	15.4	16.0	15.3	15.6	15.8	16.2	16.7
	12H	14.7	15.0	15.2	15.5	16.1	15.4	15.7	15.9	16.2	16.8
12H	4H	14.3	14.7	14.8	15.2	15.7	15.0	15.4	15.5	15.9	16.4
	6H	14.5	14.8	15.0	15.3	15.9	15.2	15.5	15.7	16.0	16.6
	8H	14.6	14.9	15.1	15.4	16.0	15.3	15.6	15.8	16.1	16.7

Maximum UGR = 16.8

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POLAR GRAPH



Maximum Candela = 2063.57 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.)