



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VTLED54-8A-40K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] RKS190429021-10-PRORATED TO AN 8', 52.8W LUMINAIRE.

[ISSUEDATE] 2019-4-11 11:13

[MANUFAC] Lamar LED

[LUMCAT] Direct Linear Ambient Luminaires

[LUMINAIRE] VTLED-8A-90PS-8CSA 54W/4000K

[VOLTAGE] As tested Voltage 120.0 V

[CURRENT] 0.234 A

[POWERFACTOR] 0.995

[TESTLAB] Bacl

[TESTINST] GPM-3000

[TESTDIST] 14.073 m

[TESTTEMPERATURE] 25.3 °C

[TESTHUMIDITY] 48

[TESTOPERATOR] KOBE

[OTHER] AS TESTED INPUT: 120VAC, 0.234A, 27.9W, PRORATED INPUT: 120VAC, 52.8W

[OTHER] THIS FILE WAS PRORATED USING MEASURED TEST DATA FROM BACL TEST RKS190429021-10.

[MORE] A CANDELA MULTIPLIER FACTOR OF 1.896688 WAS APPLIED TO THE CANDELA VALUES TO

[MORE] REPRESENT THE LUMEN AND ELECTRICAL VALUES OF AN 8' LUMINAIRE AS TESTED IN

[MORE] REPORT RKS190429021-10-2.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	52.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.87 ft
Luminous Width (90-270)	0.29 ft
Luminous Height	0.25 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VTLED54-8A-40K.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8760	5793	5336
55	8037	4852	4509
65	7145	3955	3735
75	5739	3017	2961
85	3197	2062	2224

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VTLED54-8A-40K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82
5	2233.73	2230.88	2231.64	2232.78	2234.68	2233.54	2232.59	2231.07	2229.56	2234.68
10	2195.23	2191.43	2193.90	2196.93	2197.88	2199.02	2195.42	2192.57	2191.24	2199.40
15	2129.98	2126.57	2132.26	2137.00	2140.41	2139.84	2134.15	2133.21	2123.15	2138.14
20	2043.49	2041.03	2049.75	2060.75	2063.98	2059.42	2053.54	2044.63	2033.82	2053.16
25	1935.57	1931.78	1945.24	1964.78	1971.61	1962.69	1949.04	1935.76	1924.38	1947.52
30	1807.35	1807.16	1825.94	1856.48	1865.20	1850.79	1828.79	1810.58	1795.40	1827.08
35	1665.86	1669.46	1697.54	1732.62	1747.42	1728.83	1694.88	1668.90	1655.05	1687.67
40	1516.21	1522.47	1565.72	1601.75	1620.15	1594.92	1555.28	1518.49	1501.80	1538.59
45	1356.32	1363.15	1418.91	1471.64	1491.18	1456.66	1404.88	1360.11	1336.41	1380.79
50	1190.55	1202.69	1272.87	1336.98	1358.60	1316.30	1252.38	1197.76	1171.20	1222.79
55	1022.69	1042.99	1123.79	1199.28	1224.69	1176.89	1102.17	1034.45	1002.21	1060.44
60	851.99	883.29	981.92	1060.25	1090.60	1039.20	946.45	869.63	833.40	896.75
65	684.51	728.33	835.49	920.27	954.41	898.27	796.80	705.57	663.65	740.09
70	514.76	573.94	691.15	782.57	818.42	758.49	653.03	540.75	494.28	585.32
75	352.59	428.46	556.68	647.34	686.03	624.20	512.49	388.63	332.11	439.27
80	202.95	295.31	429.03	517.80	558.20	496.36	381.61	250.74	183.60	305.18
85	80.61	182.46	313.71	407.41	446.48	384.65	268.00	136.94	66.38	189.67
90	18.21	107.73	232.34	319.59	350.51	296.64	190.43	67.33	13.66	111.90
95	9.29	71.69	176.20	253.97	279.76	233.86	142.25	40.02	7.78	73.59
100	5.69	47.04	134.10	201.43	223.43	183.98	104.70	22.76	5.88	48.18
105	3.60	29.02	99.77	156.48	175.44	142.63	73.97	11.00	3.60	28.26
110	2.28	15.55	69.99	119.11	133.91	106.59	48.93	4.17	1.33	14.60
115	1.52	6.26	46.85	87.06	99.77	76.06	30.35	2.09	0.00	6.07
120	0.00	3.60	28.45	60.69	70.75	51.97	15.93	0.00	0.00	3.98
125	0.00	3.03	14.98	39.64	45.90	31.49	6.07	0.00	0.00	3.60
130	0.00	2.47	7.21	21.81	26.74	17.26	4.17	0.00	0.00	2.28
135	0.00	2.09	5.50	10.05	13.28	7.40	3.98	0.00	0.00	2.66
140	0.00	1.90	4.17	7.40	7.21	6.64	3.60	0.00	0.00	2.66
145	1.71	3.41	6.07	5.69	7.59	5.88	4.17	1.52	0.00	2.85
150	3.22	3.98	6.07	7.02	7.02	6.64	4.17	1.90	1.33	4.55
155	3.79	5.88	6.64	5.69	7.78	6.45	4.36	3.79	2.47	4.74
160	4.17	5.69	7.40	7.02	7.78	6.45	5.12	4.55	3.22	5.50
165	5.31	6.83	7.59	7.21	7.78	6.45	6.45	5.69	3.98	5.88
170	5.69	7.40	7.78	7.59	7.40	7.02	6.83	6.07	5.31	6.07
175	6.26	7.59	7.97	8.35	8.16	8.16	7.02	6.45	5.31	7.02
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82	2246.82
5	2235.82	2237.90	2239.80	2237.71	2237.33	2234.68	2233.73
10	2200.92	2207.18	2209.26	2205.09	2199.02	2197.88	2195.23
15	2144.40	2153.50	2157.10	2150.09	2139.84	2135.67	2129.98
20	2065.68	2078.58	2084.84	2071.94	2058.29	2054.11	2043.49
25	1965.92	1986.21	1993.04	1976.35	1958.14	1948.85	1935.57
30	1851.36	1878.67	1887.77	1866.34	1842.06	1823.10	1807.35
35	1724.09	1757.09	1768.09	1740.02	1708.16	1684.07	1665.86
40	1582.22	1625.46	1641.20	1605.74	1564.01	1536.32	1516.21
45	1441.10	1494.02	1511.85	1467.66	1416.83	1378.70	1356.32
50	1292.02	1357.65	1379.46	1330.53	1265.85	1219.00	1190.55
55	1144.84	1220.14	1245.74	1193.40	1112.22	1057.21	1022.69
60	998.61	1080.35	1110.13	1053.42	961.24	887.08	851.99

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VTLED54-8A-40K.IES

CANDELA TABULATION - (Cont.)

65	853.51	942.84	974.90	917.24	810.83	723.21	684.51
70	712.40	809.13	839.47	779.16	668.39	562.37	514.76
75	574.13	673.51	703.48	644.49	530.69	412.15	352.59
80	445.72	542.45	576.21	519.31	403.43	270.09	202.95
85	330.21	425.62	459.95	403.05	290.57	152.68	80.61
90	242.02	331.92	362.84	310.11	205.60	77.57	18.21
95	184.17	264.02	290.00	245.62	152.87	47.42	9.29
100	139.60	209.77	233.10	194.41	112.47	26.55	5.69
105	102.80	162.17	183.03	150.98	80.80	13.66	3.60
110	73.02	125.37	139.60	112.47	54.81	6.64	2.28
115	48.93	91.61	106.02	81.75	35.09	3.79	1.52
120	29.78	64.11	75.30	57.28	19.73	2.47	0.00
125	14.98	42.49	50.26	36.23	8.91	2.09	0.00
130	7.02	23.71	29.97	20.29	5.12	1.33	0.00
135	6.26	12.14	16.31	9.86	5.12	1.33	0.00
140	5.88	8.16	8.72	9.10	5.69	1.90	0.00
145	5.12	7.21	8.72	8.35	5.88	2.28	1.71
150	5.12	7.40	7.97	8.35	6.26	4.36	3.22
155	5.50	7.40	7.97	7.97	6.83	4.93	3.79
160	4.74	7.21	7.59	7.59	6.64	4.55	4.17
165	5.88	5.31	7.59	7.40	7.21	6.07	5.31
170	6.83	6.26	7.21	6.45	6.45	6.45	5.69
175	7.40	7.78	7.59	7.21	6.26	5.50	6.26
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VTLED54-8A-40K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	815.18	N.A.	11.80
0-30	1716.37	N.A.	24.80
0-40	2785.33	N.A.	40.20
0-60	4888.44	N.A.	70.50
0-80	6267.22	N.A.	90.40
0-90	6585.69	N.A.	95.00
10-90	6373.56	N.A.	92.00
20-40	1970.15	N.A.	28.40
20-50	3068.31	N.A.	44.30
40-70	2917.85	N.A.	42.10
60-80	1378.78	N.A.	19.90
70-80	564.04	N.A.	8.10
80-90	318.47	N.A.	4.60
90-110	267.18	N.A.	3.90
90-120	313.24	N.A.	4.50
90-130	330.94	N.A.	4.80
90-150	339.30	N.A.	4.90
90-180	344.30	N.A.	5.00
110-180	77.12	N.A.	1.10
0-180	6930.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	212.14
10-20	603.04
20-30	901.20
30-40	1068.96
40-50	1098.15
50-60	1004.96
60-70	814.73
70-80	564.04
80-90	318.47
90-100	171.87
100-110	95.31
110-120	46.06
120-130	17.70
130-140	5.31
140-150	3.05
150-160	2.63
160-170	1.80
170-180	0.58

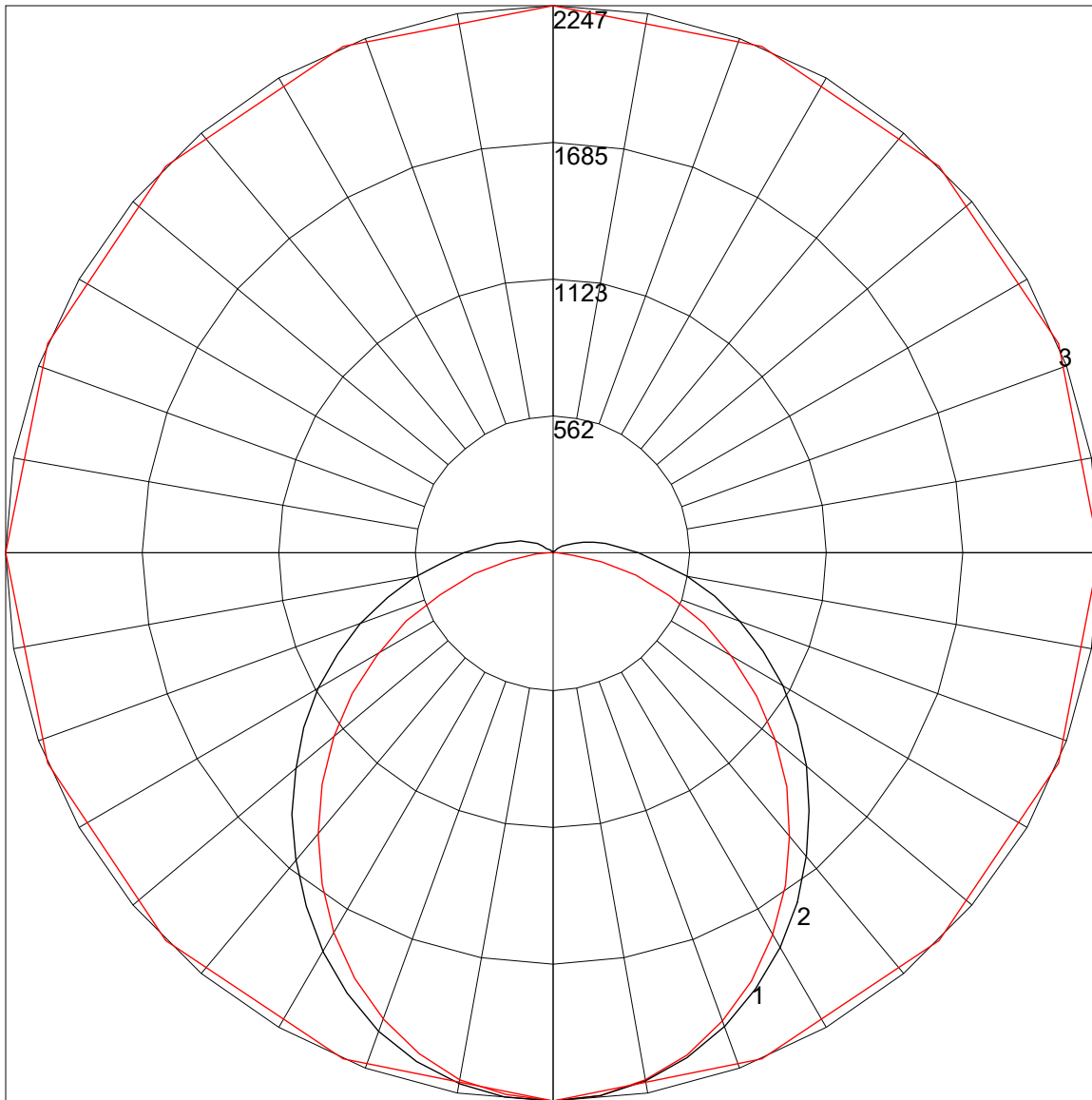
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VTLED54-8A-40K.IES

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	77	68	61	85	75	67	60	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 2246.82 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)