



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 200115 VFLT-LS30-3000K-24D-31-1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST] 200115  
 [TESTLAB] QM  
 [ISSUE DATE] 2020-01-15 10:36:58  
 [MANUFAC]  
 [LUMCAT]  
 [LUMINAIRE]  
 [LAMPCAT]  
 [LAMP] ,  
 [BALLAST]  
 [OTHER] Voltage = 24, Current = 0.479  
 [OTHER] Cx = 0.4265, Cy = 0.4018, CCT = 3181, Ra = 92.16  
 [OTHER] CRI = 92.16,92.54,93.99,94.52,93.65,92.31,92.71,93.27,84.32,60.81,85.58,94.87,84.55,92.55,96.34

**CHARACTERISTICS**

Lumens Per Lamp	940.5 (1 lamp)
Total Lamp Lumens	940.5
Luminaire Lumens	1021
Total Luminaire Efficiency	109 %
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	11.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

**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>
<b>0</b>	3401.539	3401.539	3401.539	3401.539	3401.539	3401.539	3401.539	3401.539	3401.539	3401.539
<b>10</b>	2463.760	2118.230	2528.930	2062.750	2428.350	1946.590	2163.160	2522.970	2120.080	2528.660
<b>20</b>	621.000	557.410	649.180	520.990	584.680	470.730	571.100	667.290	570.080	674.310
<b>30</b>	155.030	159.140	162.900	153.010	146.360	135.790	163.990	174.610	171.920	172.060
<b>40</b>	54.680	53.640	53.940	53.200	53.160	50.510	57.130	62.050	61.980	61.230
<b>50</b>	30.370	29.780	28.710	29.330	29.600	30.090	33.210	35.570	36.830	36.370
<b>60</b>	20.980	19.570	19.390	20.070	19.670	20.370	22.350	23.760	24.370	23.660
<b>70</b>	11.680	11.680	11.880	11.800	11.310	11.130	12.360	13.520	11.960	12.500
<b>80</b>	3.850	3.720	3.880	3.790	3.980	3.530	3.920	3.980	3.830	3.930
<b>90</b>	0.040	0.900	0.000	0.080	0.000	0.000	0.000	0.800	0.020	0.030
<b>100</b>	0.560	0.000	0.270	0.030	0.000	0.020	0.080	0.310	0.320	0.360
<b>110</b>	0.860	0.690	0.180	0.390	0.430	0.400	0.690	0.900	0.430	0.850
<b>120</b>	0.630	1.190	1.280	0.530	0.460	1.360	1.220	0.450	1.060	1.040
<b>130</b>	2.210	2.570	2.460	1.900	2.010	1.960	2.660	2.740	2.840	1.480
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles      Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
<b>0</b>	3401.539	3401.539	3401.539
<b>10</b>	2168.690	2635.450	2463.760
<b>20</b>	592.050	722.500	621.000
<b>30</b>	171.720	176.580	155.030
<b>40</b>	59.260	59.340	54.680
<b>50</b>	34.370	31.700	30.370
<b>60</b>	23.310	22.200	20.980
<b>70</b>	13.160	13.230	11.680
<b>80</b>	3.660	4.700	3.850
<b>90</b>	0.460	0.430	0.040
<b>100</b>	0.580	0.050	0.560
<b>110</b>	0.920	0.260	0.860
<b>120</b>	0.660	0.860	0.630
<b>130</b>	2.080	2.220	2.210
<b>180</b>	0.000	0.000	0.000

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	684.55	72.80	67.00
0-30	860.91	91.50	84.30
0-40	929.57	98.80	91.00
0-60	988.11	105.10	96.80
0-80	1013.4	107.80	99.30
0-90	1015.65	108.00	99.50
10-90	743.18	79.00	72.80
20-40	245.02	26.10	24.00
20-50	279.42	29.70	27.40
40-70	75.32	8.00	7.40
60-80	25.29	2.70	2.50
70-80	8.51	0.90	0.80
80-90	2.25	0.20	0.20
90-110	0.67	0.10	0.10
90-120	1.40	0.10	0.10
90-130	2.81	0.30	0.30
90-150	2.81	0.30	0.30
90-180	5.35	0.60	0.50
110-180	4.69	0.50	0.50
0-180	1021.00	108.60	100.00

Total Luminaire Efficiency = 108.60%

### ZONAL LUMEN SUMMARY

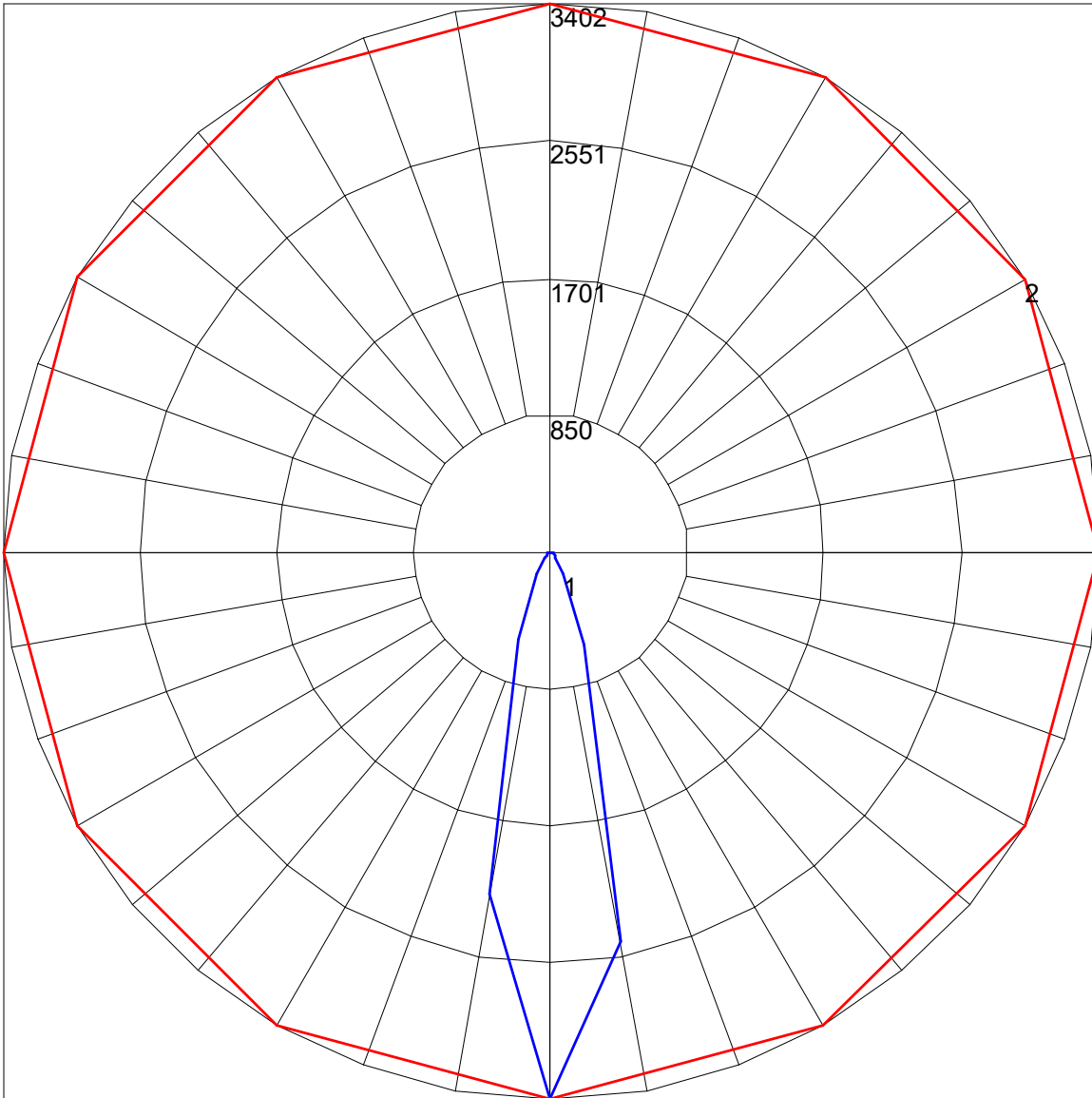
Zone	Lumens
0-10	272.47
10-20	412.08
20-30	176.36
30-40	68.66
40-50	34.40
50-60	24.13
60-70	16.79
70-80	8.51
80-90	2.25
90-100	0.24
100-110	0.42
110-120	0.73
120-130	1.42
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	2.54

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	129	129	129	129	126	126	126	126	120	120	120	115	115	115	110	110	110	108
1	124	121	118	116	121	119	116	114	114	112	111	110	109	107	106	105	104	102
2	119	114	110	107	116	112	108	105	108	105	103	105	103	101	102	100	99	97
3	114	108	103	99	112	106	102	98	103	100	97	101	98	95	98	96	94	92
4	109	102	97	93	107	101	96	93	99	95	91	97	93	90	95	92	89	88
5	105	98	92	88	104	97	92	88	95	90	87	93	89	86	91	88	85	84
6	101	93	88	84	100	92	87	84	91	86	83	89	85	83	88	85	82	81
7	98	89	84	80	96	89	84	80	87	83	80	86	82	79	85	82	79	78
8	95	86	81	77	93	85	80	77	84	80	77	83	79	76	82	79	76	75
9	91	83	78	74	90	82	77	74	81	77	74	81	76	74	80	76	73	72
10	89	80	75	72	88	80	75	71	79	74	71	78	74	71	77	74	71	70

POLAR GRAPH



Maximum Candela = 3401.539 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)