



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 200121 VFLT-LS15 30K-24V-C90-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] 200121
 [TESTLAB] QM
 [ISSUE DATE] 2020-01-21 2:47:41
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP] ,
 [BALLAST]
 [OTHER] Voltage = 24, Current = 0.246
 [OTHER] Cx = 0.4344, Cy = 0.4039, CCT = 3058, Ra = 91.97
 [OTHER] CRI = 91.97,92.19,94.17,95.15,93.36,92.06,93.05,92.8,83,58.63,85.99,94.57,84.99,92.39,96.64

CHARACTERISTICS

Lumens Per Lamp	497.3 (1 lamp)
Total Lamp Lumens	497.3
Luminaire Lumens	524
Total Luminaire Efficiency	105 %
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	5.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.62
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>
0	1127.042	1127.042	1127.042	1127.042	1127.042	1127.042	1127.042	1127.042	1127.042	1127.042
10	911.820	894.870	890.640	876.520	867.100	871.510	937.630	942.120	936.360	944.840
20	464.630	445.200	428.060	391.230	396.030	395.210	476.910	489.780	475.280	490.630
30	140.810	130.070	123.050	107.360	109.300	110.880	141.580	150.170	146.530	155.740
40	32.990	31.460	30.210	26.600	27.290	27.000	34.880	36.310	37.420	38.710
50	14.540	13.620	13.070	12.380	12.410	13.460	14.390	14.380	14.060	14.400
60	8.060	8.180	8.200	7.920	7.600	7.340	8.410	7.900	8.370	8.850
70	3.840	4.020	4.400	4.310	3.480	3.490	3.780	4.260	3.940	4.110
80	1.080	1.280	0.580	1.240	0.810	0.730	1.700	1.220	1.120	1.260
90	0.330	0.000	0.030	0.230	0.530	0.000	0.420	0.000	0.240	0.480
100	0.000	0.590	0.670	0.380	0.330	0.000	0.020	0.000	0.860	0.000
110	0.000	0.190	0.290	0.800	0.600	0.040	0.160	0.400	0.680	0.200
120	0.240	1.130	0.530	0.420	0.930	1.300	0.460	0.380	0.490	0.000
130	0.880	1.300	1.370	1.540	0.490	1.280	1.450	1.240	1.080	0.800
180	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>
0	1127.042	1127.042	1127.042
10	934.210	954.020	911.820
20	501.440	530.190	464.630
30	159.580	170.270	140.810
40	39.130	41.410	32.990
50	14.600	14.950	14.540
60	8.700	8.720	8.060
70	5.570	4.810	3.840
80	0.960	2.250	1.080
90	0.000	0.470	0.330
100	0.780	0.000	0.000
110	0.480	0.410	0.000
120	0.740	0.900	0.240
130	1.630	1.240	0.880
180	0.000	0.000	0.000

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	291.64	58.60	55.70
0-30	429.15	86.30	81.90
0-40	482.77	97.10	92.10
0-60	511.04	102.80	97.50
0-80	520.01	104.60	99.20
0-90	520.78	104.70	99.40
10-90	423.39	85.10	80.80
20-40	191.13	38.40	36.50
20-50	209.52	42.10	40.00
40-70	34.40	6.90	6.60
60-80	8.96	1.80	1.70
70-80	2.83	0.60	0.50
80-90	0.77	0.20	0.10
90-110	0.64	0.10	0.10
90-120	1.12	0.20	0.20
90-130	1.94	0.40	0.40
90-150	1.94	0.40	0.40
90-180	3.28	0.70	0.60
110-180	2.64	0.50	0.50
0-180	524.05	105.40	100.00

Total Luminaire Efficiency = 105.40%

ZONAL LUMEN SUMMARY

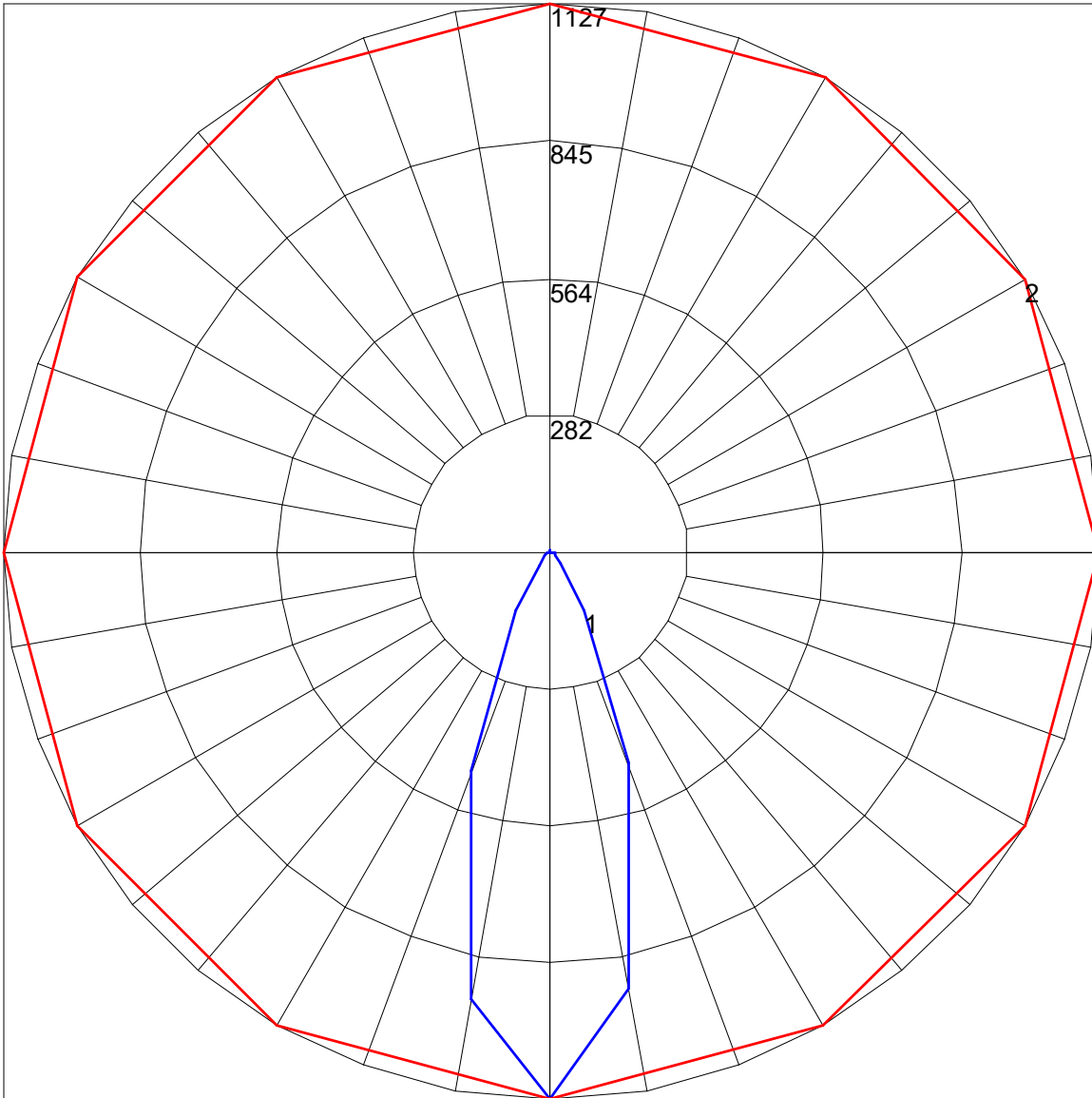
Zone	Lumens
0-10	97.39
10-20	194.25
20-30	137.51
30-40	53.63
40-50	18.38
50-60	9.89
60-70	6.13
70-80	2.83
80-90	0.77
90-100	0.29
100-110	0.35
110-120	0.49
120-130	0.82
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	1.34

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	125	125	125	125	122	122	122	122	117	117	117	112	112	112	107	107	107	105
1	120	117	115	112	117	115	113	111	110	109	107	106	105	104	103	102	101	99
2	114	110	106	102	112	108	104	101	104	101	99	101	99	97	98	96	95	93
3	109	103	98	95	107	102	97	94	99	95	92	96	93	91	94	91	89	88
4	105	97	92	88	103	96	91	88	94	90	86	92	88	85	90	87	84	83
5	100	92	87	83	99	91	86	82	89	85	82	88	84	81	86	83	80	79
6	96	88	82	78	95	87	82	78	85	81	77	84	80	77	82	79	76	75
7	92	83	78	74	91	83	77	74	81	77	73	80	76	73	79	75	72	71
8	89	80	74	70	87	79	74	70	78	73	70	77	73	69	76	72	69	68
9	85	76	71	67	84	76	70	67	75	70	67	74	69	66	73	69	66	65
10	82	73	68	64	81	73	67	64	72	67	64	71	67	63	70	66	63	62

POLAR GRAPH



Maximum Candela = 1127.042 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.)