



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 200810 VFLT-SS20 30K-24V-BK-24D-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] 200810
 [TESTLAB] QM
 [ISSUE DATE] 2020-08-10 11:59:42
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP] ,
 [BALLAST]
 [OTHER] Voltage = 24, Current = 0.868
 [OTHER] Cx = 0.4292, Cy = 0.4023, CCT = 3136, Ra = 97.29
 [OTHER] CRI = 97.29,98.61,98.95,58.98,28.98,16.97,36.97,79,94.53,84.78,93.98,97.32,88.74,98.48,96.69

CHARACTERISTICS

Lumens Per Lamp	1510 (1 lamp)
Total Lamp Lumens	1510
Luminaire Lumens	1652
Total Luminaire Efficiency	109 %
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	20.84
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.46
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>
0	6016.414	6016.414	6016.414	6016.414	6016.414	6016.414	6016.414	6016.414	6016.414	6016.414
10	4603.550	3796.150	4707.580	4126.640	4877.810	3912.600	3907.660	4634.200	3719.760	4418.320
20	817.110	663.280	858.090	781.130	970.160	777.560	808.990	968.850	756.470	826.790
30	231.940	225.870	243.650	255.080	273.270	266.110	282.390	291.510	268.550	255.150
40	87.010	86.000	89.340	92.300	98.750	97.880	107.560	109.120	101.030	98.890
50	33.310	32.090	33.930	35.190	36.740	38.060	39.900	40.420	37.940	37.190
60	12.810	12.210	13.250	13.920	14.580	14.950	14.660	14.320	13.510	13.220
70	0.990	0.360	1.530	1.240	1.020	1.020	1.560	1.420	0.150	0.610
80	0.520	0.250	0.000	0.040	0.300	0.120	0.420	0.060	0.000	0.420
90	0.030	0.370	0.820	0.500	0.190	0.000	0.000	0.480	0.030	0.000
100	0.000	0.480	0.200	0.170	0.370	0.880	0.000	0.560	0.000	0.430
110	0.000	0.660	0.380	0.210	0.160	0.570	0.570	0.350	1.570	0.110
120	0.940	0.880	0.520	0.220	0.950	0.860	1.550	1.080	1.450	1.690
130	2.100	3.110	2.960	2.810	2.660	2.880	2.750	3.160	3.230	2.520
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	6016.414	6016.414	6016.414
10	3631.930	4563.600	4603.550
20	673.860	830.950	817.110
30	240.340	242.990	231.940
40	93.980	91.230	87.010
50	35.950	34.910	33.310
60	12.770	13.590	12.810
70	0.240	0.890	0.990
80	0.120	0.000	0.520
90	0.710	0.000	0.030
100	0.170	0.160	0.000
110	0.240	1.080	0.000
120	1.030	0.670	0.940
130	3.580	3.280	2.100
180	0.000	0.000	0.000

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1205.74	79.90	73.00
0-30	1452.79	96.20	88.00
0-40	1563.51	103.50	94.70
0-60	1637.19	108.40	99.10
0-80	1645.00	108.90	99.60
0-90	1645.25	109.00	99.60
10-90	1155.65	76.50	70.00
20-40	357.77	23.70	21.70
20-50	409.04	27.10	24.80
40-70	80.90	5.40	4.90
60-80	7.82	0.50	0.50
70-80	0.59	0.00	0.00
80-90	0.24	0.00	0.00
90-110	0.71	0.00	0.00
90-120	1.44	0.10	0.10
90-130	3.19	0.20	0.20
90-150	3.19	0.20	0.20
90-180	6.47	0.40	0.40
110-180	5.76	0.40	0.30
0-180	1651.72	109.40	100.00

Total Luminaire Efficiency = 109.40%

ZONAL LUMEN SUMMARY

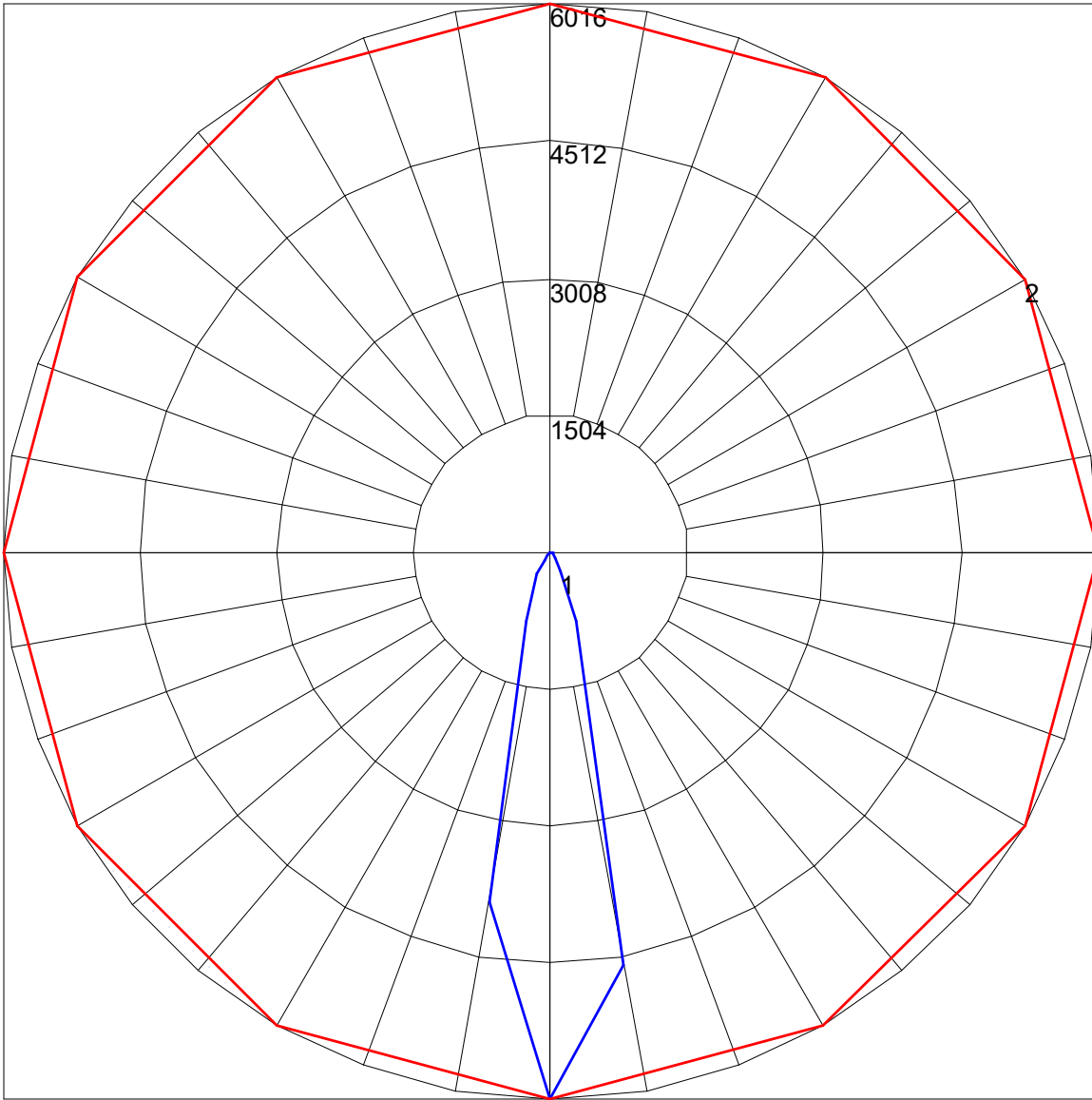
Zone	Lumens
0-10	489.60
10-20	716.14
20-30	247.06
30-40	110.72
40-50	51.27
50-60	22.41
60-70	7.23
70-80	0.59
80-90	0.24
90-100	0.30
100-110	0.41
110-120	0.73
120-130	1.75
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	3.28

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	130	130	130	130	127	127	127	127	121	121	121	116	116	116	111	111	111	109
1	125	123	121	118	123	120	118	117	116	114	113	112	111	110	108	107	106	104
2	121	116	113	110	118	114	111	108	111	108	106	108	106	104	105	103	102	100
3	116	111	106	103	114	109	105	102	106	103	100	104	101	99	101	99	97	96
4	112	106	101	97	110	104	100	97	102	98	95	100	97	94	98	95	93	92
5	108	101	96	92	107	100	96	92	98	94	91	97	93	90	95	92	90	88
6	105	97	92	88	103	96	92	88	95	91	88	93	90	87	92	89	86	85
7	101	93	88	85	100	93	88	85	91	87	84	90	87	84	89	86	83	82
8	98	90	85	82	97	90	85	81	88	84	81	87	84	81	86	83	80	79
9	95	87	82	79	94	87	82	79	86	81	78	85	81	78	84	80	78	77
10	92	84	79	76	91	84	79	76	83	79	76	82	78	76	82	78	76	74

POLAR GRAPH



Maximum Candela = 6016.414 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.)