



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 200115 VFLT-LM30-3000K-BK-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] 200115
 [TESTLAB] QM
 [ISSUE DATE] 2020-01-15 10:16:26
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP] ,
 [BALLAST]
 [OTHER] Voltage = 24, Current = 0.356
 [OTHER] Cx = 0.444, Cy = 0.4093, CCT = 2943, Ra = 91.95
 [OTHER] CRI = 91.95,92.06,94.06,95.02,93.57,91.71,92.8,93.37,83.05,58.74,85.55,94.54,82.17,92.28,96.47

CHARACTERISTICS

Lumens Per Lamp	556.4 (1 lamp)
Total Lamp Lumens	556.4
Luminaire Lumens	563
Total Luminaire Efficiency	101 %
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	8.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.42
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	152.186	152.186	152.186	152.186	152.186	152.186	152.186	152.186	152.186	152.186
10	150.630	149.650	148.540	148.300	151.820	153.870	151.350	153.260	150.570	148.230
20	145.090	144.650	139.810	138.660	142.810	146.330	149.270	147.380	142.350	138.200
30	135.030	133.200	128.860	123.810	130.260	137.120	141.180	137.030	129.480	122.560
40	121.540	118.700	110.630	102.850	112.430	121.630	128.580	123.350	112.300	101.880
50	107.100	101.440	92.050	82.560	92.740	106.830	113.550	106.700	92.760	80.840
60	89.720	84.100	71.670	59.370	73.150	88.600	96.860	90.830	72.670	58.560
70	70.340	65.900	52.000	35.540	52.050	68.280	78.740	69.340	50.710	34.560
80	53.540	47.020	30.100	13.810	31.440	50.020	59.040	51.520	31.390	13.370
90	37.640	32.090	16.730	0.490	15.580	33.870	41.830	34.440	17.050	0.350
100	34.940	28.360	8.120	0.630	9.100	29.430	36.900	30.380	9.290	0.420
110	11.200	8.810	6.910	1.420	6.340	8.780	11.530	9.300	7.500	0.970
120	9.030	8.340	4.810	1.200	5.300	8.160	10.390	7.700	5.670	0.920
130	8.810	6.610	1.450	0.880	3.410	6.900	8.690	7.600	3.090	0.870
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0	152.186	152.186	152.186
10	149.170	150.680	150.630
20	138.970	143.830	145.090
30	126.790	132.410	135.030
40	108.770	117.500	121.540
50	89.790	101.990	107.100
60	70.220	83.370	89.720
70	49.100	66.530	70.340
80	28.500	46.740	53.540
90	15.250	32.390	37.640
100	8.940	28.750	34.940
110	6.620	9.010	11.200
120	5.020	7.320	9.030
130	2.930	7.000	8.810
180	0.000	0.000	0.000

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	56.06	10.10	10.00
0-30	119.61	21.50	21.20
0-40	197.03	35.40	35.00
0-60	358.05	64.40	63.60
0-80	476.23	85.60	84.50
0-90	509.61	91.60	90.50
10-90	495.16	89.00	87.90
20-40	140.97	25.30	25.00
20-50	223.21	40.10	39.60
40-70	228.52	41.10	40.60
60-80	118.18	21.20	21.00
70-80	50.67	9.10	9.00
80-90	33.38	6.00	5.90
90-110	36.69	6.60	6.50
90-120	43.40	7.80	7.70
90-130	48.34	8.70	8.60
90-150	48.34	8.70	8.60
90-180	53.79	9.70	9.50
110-180	17.10	3.10	3.00
0-180	563.39	101.30	100.00

Total Luminaire Efficiency = 101.30%

ZONAL LUMEN SUMMARY

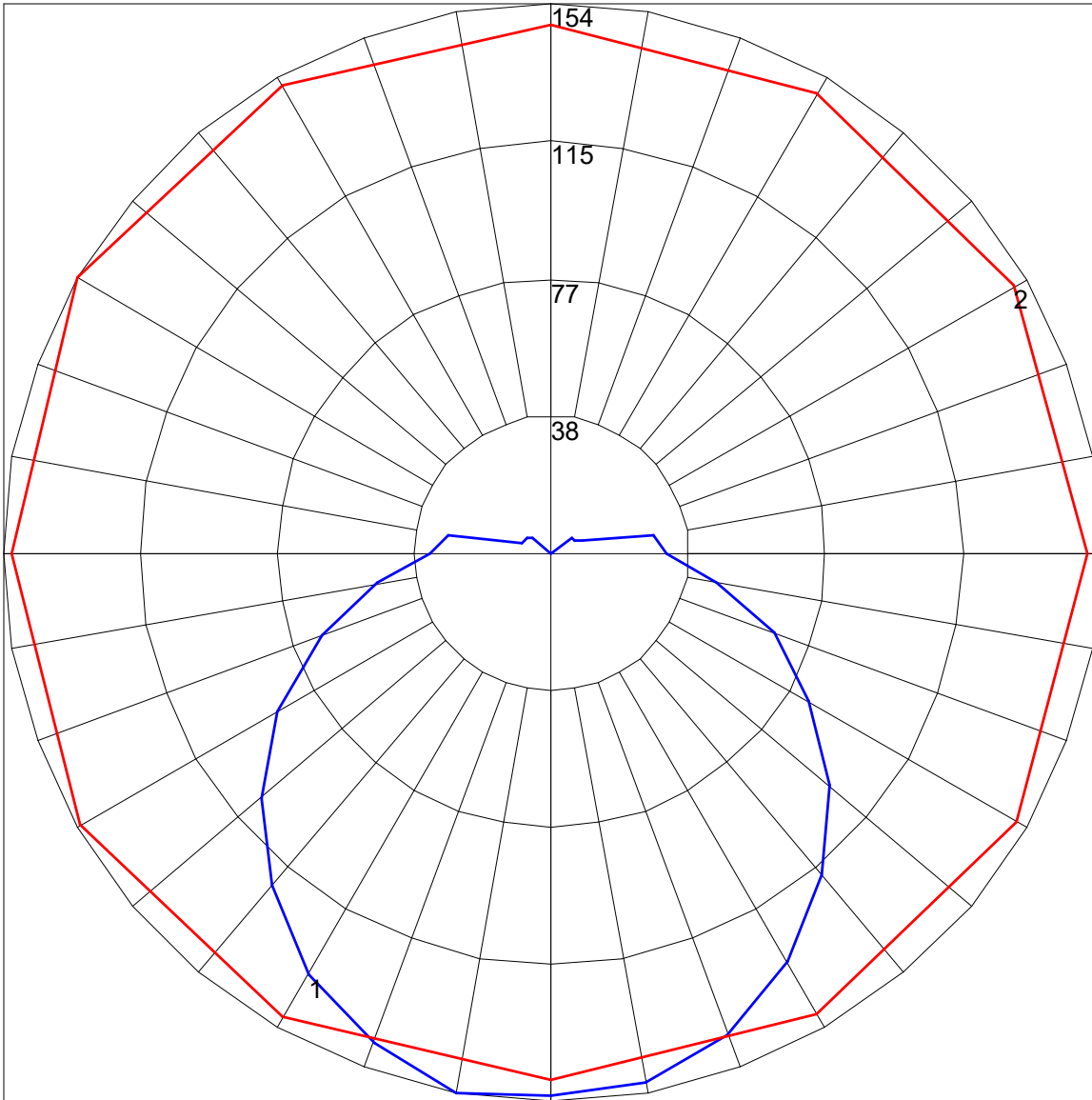
Zone	Lumens
0-10	14.45
10-20	41.62
20-30	63.55
30-40	77.42
40-50	82.24
50-60	78.78
60-70	67.51
70-80	50.67
80-90	33.38
90-100	22.87
100-110	13.83
110-120	6.71
120-130	4.94
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	5.45

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	118	118	118	118	114	114	114	114	107	107	107	101	101	101	94	94	94	92
1	106	100	95	90	102	97	92	88	91	87	83	85	82	79	80	77	75	72
2	95	86	78	72	92	83	76	70	78	72	67	73	68	64	69	65	61	58
3	86	75	66	59	83	73	64	58	68	61	55	64	58	53	60	55	51	48
4	79	66	57	49	76	64	55	48	60	53	47	57	50	45	53	48	43	41
5	72	59	49	42	69	57	48	41	54	46	40	51	44	39	48	42	37	35
6	67	53	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	30
7	62	48	38	32	59	46	38	32	44	36	31	42	35	30	39	33	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	54	40	31	25	52	39	31	25	37	30	24	35	29	24	33	27	23	21
10	50	37	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

POLAR GRAPH



Maximum Candela = 153.87 Located At Horizontal Angle = 150, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (150 - 330) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)