



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 200115 VFLT-SS20-3000K-36D-31-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] 200115
 [TESTLAB] QM
 [ISSUEDATE] 2020-01-15 2:27:48
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP] ,
 [BALLAST]
 [OTHER] Voltage = 12.56, Current = 1
 [OTHER] Cx = 0.4302, Cy = 0.4038, CCT = 3130, Ra = 97.95
 [OTHER] CRI = 97.95,99.05,98.73,96.39,99.66,98.48,97.84,98.23,95.23,86.86,95.54,98.06,86.06,99.12,97.11

CHARACTERISTICS

Lumens Per Lamp	940.2 (1 lamp)
Total Lamp Lumens	940.2
Luminaire Lumens	992
Total Luminaire Efficiency	106 %
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	12.56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.60
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	2180.27	2180.27	2180.27	2180.27	2180.27	2180.27	2180.27	2180.27	2180.27	2180.27
10	2005.05	1750.28	1800.59	1508.73	1736.11	1622.68	1862.74	2068.19	2075.26	2169.53
20	753.79	475.95	453.06	350.97	424.61	426.33	694.84	1114.85	1308.62	1654.26
30	203.54	159.46	133.91	119.08	124.53	138.69	193.77	253.07	266.91	351.17
40	70.55	59.13	49.32	47.28	50.63	54.93	69.59	80.95	91.77	105.47
50	29.55	23.66	20.95	19.13	21.38	22.36	28.82	35.00	40.80	44.62
60	11.46	7.90	5.34	5.46	6.41	6.18	11.79	13.44	16.22	19.14
70	0.00	0.76	0.00	0.00	0.22	0.00	1.34	3.17	5.07	5.75
80	0.46	0.00	0.19	0.09	0.54	0.00	0.15	0.00	0.42	0.00
90	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.99	0.44	0.05
100	0.64	0.57	0.36	0.03	0.27	0.59	0.53	0.00	0.00	0.45
110	0.47	0.00	0.93	0.22	0.00	0.46	0.24	0.10	0.23	0.16
120	0.97	0.99	1.78	1.97	1.78	1.42	1.29	1.17	0.05	0.93
130	2.11	3.16	2.31	4.15	3.88	3.28	2.55	2.00	1.79	1.95
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>300</u>	<u>330</u>	<u>360</u>
0	2180.27	2180.27	2180.27
10	2097.17	2111.29	2005.05
20	1372.71	1171.98	753.79
30	296.31	289.18	203.54
40	102.52	93.41	70.55
50	43.24	39.29	29.55
60	18.31	15.79	11.46
70	4.74	3.12	0.00
80	0.00	0.20	0.46
90	0.10	0.00	0.00
100	0.82	0.27	0.64
110	0.00	0.07	0.47
120	0.83	0.40	0.97
130	1.57	2.30	2.11
180	0.00	0.00	0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	584.65	62.20	58.90
0-30	830.19	88.30	83.70
0-40	919.32	97.80	92.60
0-60	978.40	104.10	98.60
0-80	986.24	104.90	99.40
0-90	986.41	104.90	99.40
10-90	791.64	84.20	79.80
20-40	334.67	35.60	33.70
20-50	374.83	39.90	37.80
40-70	65.76	7.00	6.60
60-80	7.84	0.80	0.80
70-80	1.16	0.10	0.10
80-90	0.17	0.00	0.00
90-110	0.61	0.10	0.10
90-120	1.29	0.10	0.10
90-130	2.96	0.30	0.30
90-150	2.96	0.30	0.30
90-180	5.86	0.60	0.60
110-180	5.25	0.60	0.50
0-180	992.28	105.50	100.00

Total Luminaire Efficiency = 105.50%

ZONAL LUMEN SUMMARY

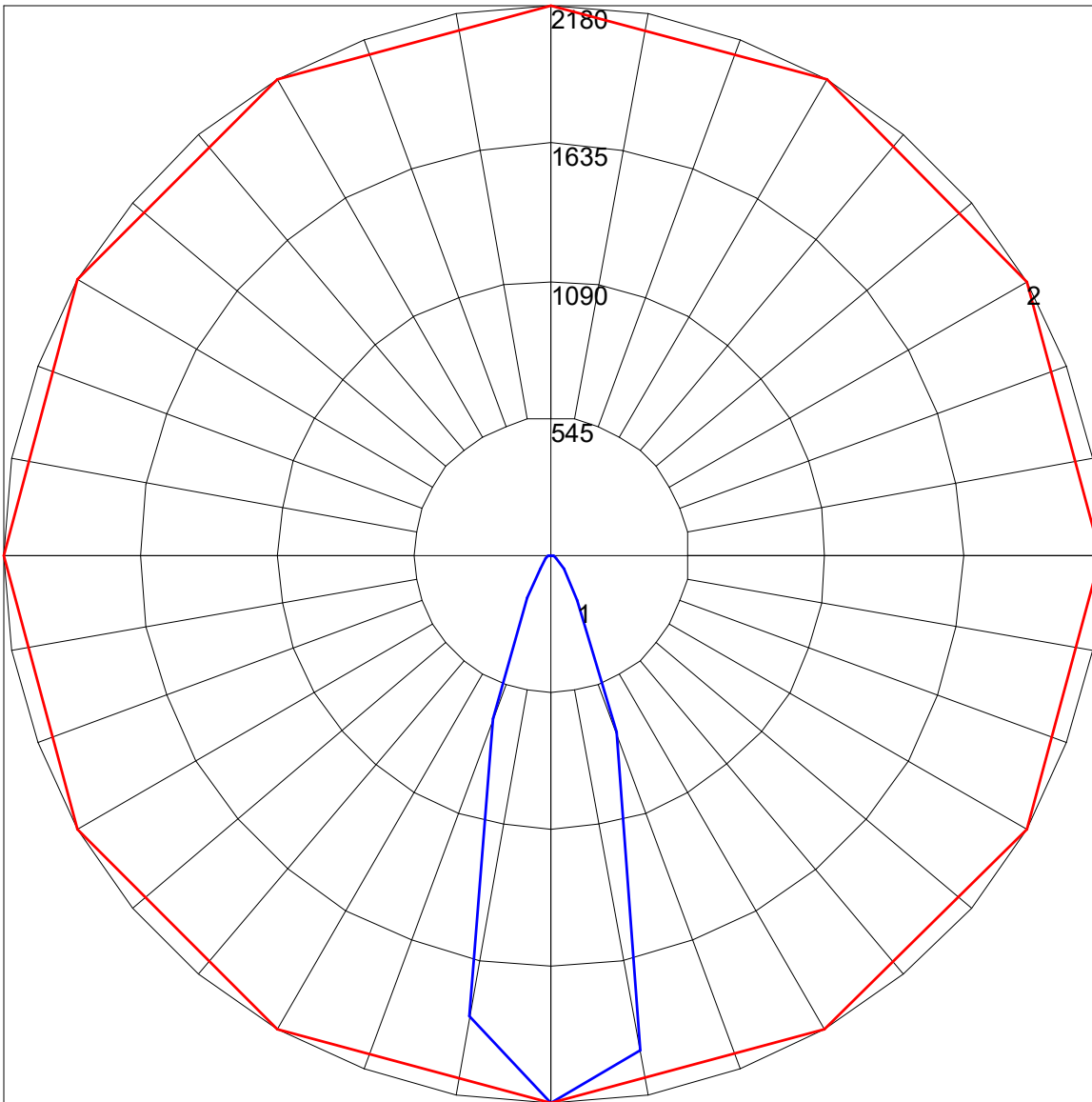
Zone	Lumens
0-10	194.77
10-20	389.88
20-30	245.54
30-40	89.13
40-50	40.15
50-60	18.92
60-70	6.68
70-80	1.16
80-90	0.17
90-100	0.29
100-110	0.33
110-120	0.68
120-130	1.67
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	2.90

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	123	123	123	123	117	117	117	112	112	112	107	107	107	105
1	120	118	115	113	118	115	113	111	111	109	108	107	106	104	103	102	101	99
2	115	111	107	104	113	109	105	102	105	102	100	102	100	98	99	97	96	94
3	110	104	100	96	108	103	98	95	100	96	93	97	94	92	95	93	90	89
4	106	99	93	90	104	97	93	89	95	91	88	93	90	87	91	88	86	84
5	101	94	88	84	100	93	88	84	91	86	83	89	85	82	87	84	81	80
6	97	89	84	80	96	88	83	79	87	82	79	85	81	78	84	80	78	76
7	93	85	79	76	92	84	79	75	83	78	75	82	78	74	80	77	74	73
8	90	81	76	72	89	81	75	72	79	75	71	78	74	71	77	74	71	70
9	86	78	72	69	85	77	72	69	76	72	68	75	71	68	74	71	68	67
10	83	75	69	66	82	74	69	66	73	69	65	72	68	65	72	68	65	64

POLAR GRAPH



Maximum Candela = 2180.27 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.)