



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VE2-C-RM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]2020/1/15 16:25:00
 [TESTLAB]
 [ISSUE DATE]
 [MANUFACTURER]
 [LUMCAT]VE2-C-RM
 [LUMINAIRE]1
 [LAMPCAT]
 [LAMP]
 [LUMINAIRE]1

CHARACTERISTICS

Total Lamp Lumens	1376.783
Luminaire Lumens	358
Total Luminaire Efficiency	26 %
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.10
Spacing Criterion (Diagonal)	0.32
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

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PHOTOMETRIC FILENAME : VE2-CRM.IES

CANDELA TABULATION

	<u>0</u>	<u>45</u>	<u>90</u>	<u>135</u>	<u>180</u>	<u>225</u>	<u>270</u>	<u>315</u>	<u>360</u>
0	833.031	833.031	833.031	833.031	833.031	833.031	833.031	833.031	833.031
1	956.749	504.367	663.803	434.578	589.908	1366.605	939.480	1432.647	851.440
2	974.062	382.682	507.758	375.854	616.325	1468.434	1180.352	1669.458	854.653
3	972.947	280.943	370.500	318.113	655.503	1464.596	1411.362	1848.215	861.435
4	968.217	215.125	277.819	268.091	696.511	1391.683	1570.530	1925.813	851.306
5	956.838	181.212	227.128	232.483	743.320	1260.226	1640.141	1862.717	846.576
6	941.176	153.546	191.207	194.911	788.165	1109.625	1626.843	1715.508	834.930
7	905.879	141.899	172.376	169.654	825.336	937.784	1518.723	1518.813	816.501
8	853.359	130.030	160.417	155.420	831.271	753.717	1328.364	1264.465	781.695
9	804.363	125.300	140.248	146.718	824.622	589.596	1096.863	1030.822	733.949
10	730.915	122.756	128.780	138.999	769.870	437.701	864.559	776.296	676.699
11	648.140	120.525	121.908	127.843	695.886	326.859	654.477	562.599	597.048
12	541.047	119.365	117.714	125.389	597.940	250.421	484.912	416.550	505.483
13	435.336	119.811	113.252	118.740	494.059	202.541	370.589	309.590	406.956
14	341.094	117.491	108.834	113.385	392.722	171.171	275.365	232.260	322.129
15	276.079	113.118	104.416	111.065	305.173	147.923	203.701	177.686	261.264
16	226.280	108.968	101.338	110.753	246.851	132.127	159.213	147.031	216.285
17	196.785	102.096	101.204	108.165	200.845	121.105	137.660	129.316	189.333
18	174.161	100.400	106.647	108.075	172.599	113.029	125.255	117.803	168.985
19	148.503	96.697	118.071	113.341	152.385	106.915	117.669	107.897	148.280
20	129.227	99.196	130.342	116.509	127.620	98.616	113.252	100.713	127.129
21	115.706	103.792	138.553	113.832	107.138	94.198	110.128	100.668	114.724
22	108.254	97.857	129.450	104.550	93.261	90.762	103.256	92.681	105.844
23	106.871	99.776	115.572	92.547	81.124	88.486	105.621	91.297	103.747
24	108.656	91.208	90.539	82.908	76.706	90.048	104.193	95.447	103.836
25	109.860	85.853	79.963	76.795	77.018	93.305	101.918	94.376	106.157
26	111.601	81.347	68.228	75.010	80.722	97.500	100.757	104.684	108.031
27	111.467	75.233	64.792	73.448	84.202	109.682	99.374	102.408	109.637
28	99.463	67.558	63.899	70.727	84.738	116.152	117.357	103.256	105.711
29	99.553	66.309	63.453	66.621	84.426	110.842	130.922	100.668	98.616
30	92.279	66.130	63.408	62.427	83.310	97.812	133.912	100.490	91.208
31	87.728	66.220	62.293	62.293	79.919	76.527	135.206	103.702	86.032
32	84.916	68.138	60.062	54.172	75.590	72.065	117.045	101.650	83.712
33	69.789	66.487	55.287	55.956	72.021	66.934	95.358	93.172	78.089
34	68.852	59.660	49.620	50.870	69.388	65.059	82.864	81.034	69.700
35	64.234	50.156	45.024	50.870	68.986	62.561	77.152	68.808	62.739
36	59.616	41.811	41.588	49.352	68.629	58.946	66.443	59.303	58.902
37	52.922	38.063	39.848	46.898	65.952	56.135	72.422	54.082	58.812
38	60.820	34.315	38.509	44.756	55.555	50.468	61.445	51.271	59.437
39	60.240	35.073	37.706	42.079	53.235	47.434	65.104	49.397	58.991
40	58.054	34.404	36.635	42.436	49.352	44.087	58.143	47.880	57.875
41	51.628	33.645	36.501	36.769	46.675	41.320	45.961	46.898	51.360
42	46.630	33.199	36.323	35.341	46.318	39.312	44.712	45.827	46.541
43	41.856	32.887	36.055	34.627	43.685	37.929	38.509	43.150	41.677
44	39.134	32.351	35.832	34.315	40.606	36.590	39.714	43.016	38.911
45	36.635	32.128	35.609	34.002	38.643	34.984	34.538	37.661	36.590
46	34.448	31.548	35.073	33.690	36.457	37.081	36.813	36.323	34.716
47	34.002	31.191	34.225	33.333	35.475	33.645	35.876	35.787	34.002
48	33.913	30.745	32.530	32.931	34.538	33.556	34.895	37.215	33.690
49	32.530	30.477	33.511	32.574	34.092	33.422	34.538	35.475	33.110
50	31.727	30.165	33.422	32.217	33.511	33.244	33.690	35.029	32.485
51	31.191	29.986	32.976	31.860	33.110	32.753	33.690	34.538	31.816
52	30.477	29.763	32.842	34.582	32.574	32.396	33.378	33.735	31.414
53	30.031	29.495	32.396	34.359	32.128	32.083	33.511	33.065	30.834

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VE2-CRM.IES

CANDELA TABULATION - (Cont.)

54	29.674	29.362	26.149	31.102	31.771	34.359	33.378	32.931	32.485
55	32.396	29.183	25.457	30.923	31.370	31.414	33.110	32.262	32.440
56	29.228	29.005	24.765	30.789	30.923	31.370	35.341	32.217	30.522
57	29.049	28.826	28.291	30.656	30.611	31.191	31.637	32.351	30.254
58	28.871	28.737	31.816	33.244	30.343	30.968	30.968	31.637	30.343
59	28.692	28.558	31.816	30.432	30.209	31.280	30.522	31.816	30.120
60	28.469	28.380	31.682	30.254	30.031	31.191	30.165	31.503	29.852
61	28.335	28.291	31.503	30.343	32.976	31.593	29.942	27.041	30.031
62	28.201	28.157	31.370	30.165	32.753	31.503	29.808	31.503	29.719
63	28.112	28.067	31.102	30.254	32.619	31.771	29.629	31.637	29.942
64	30.879	27.889	31.057	30.120	29.451	31.682	32.530	31.414	29.719
65	27.755	30.745	30.656	30.299	29.272	31.548	29.362	31.370	29.897
66	27.621	27.577	30.566	27.621	29.183	31.370	29.272	31.325	29.719
67	27.487	27.443	30.165	30.254	32.039	30.879	29.138	31.370	29.852
68	27.354	27.309	30.120	30.076	28.871	30.656	29.049	31.236	29.629
69	30.165	27.175	29.629	30.254	28.915	29.986	31.950	31.280	29.629
70	27.086	27.041	29.629	30.076	28.737	29.763	28.871	31.102	29.451
71	26.952	26.863	29.138	24.632	28.915	29.629	28.692	30.923	29.317
72	29.763	26.729	27.666	27.220	28.826	29.005	28.603	30.879	29.228
73	26.684	26.550	29.049	29.808	28.737	31.057	28.424	30.789	29.183
74	26.550	26.416	28.781	29.897	29.005	28.424	28.469	30.566	27.487
75	26.372	29.317	28.157	29.763	28.915	28.335	28.335	30.477	29.049
76	26.238	26.193	28.157	29.763	29.317	31.191	28.246	30.120	28.871
77	26.104	26.149	28.157	29.585	29.406	28.067	28.112	30.076	25.903
78	25.970	28.514	27.889	29.473	29.719	27.934	28.067	29.674	22.936
79	25.881	25.926	29.808	29.362	29.741	27.889	27.978	29.629	25.502
80	28.737	26.015	27.621	29.094	29.763	27.800	28.067	29.228	28.067
81	28.603	27.844	27.532	29.094	29.629	27.711	28.067	29.138	28.067
82	25.613	26.372	27.443	28.737	29.317	27.666	28.023	29.138	27.621
83	25.479	25.926	27.443	28.826	29.228	27.577	30.968	28.648	24.587
84	27.978	26.193	27.398	28.469	24.587	30.656	27.844	28.291	27.130
85	25.390	26.104	30.343	28.558	24.721	27.577	27.844	28.246	27.175
86	25.301	26.059	27.309	28.514	28.469	27.532	27.755	28.291	26.863
87	25.212	25.613	27.264	29.049	24.989	27.532	27.666	29.228	27.220
88	25.569	27.264	28.648	27.354	27.398	28.648	28.915	27.800	29.406
89	25.390	25.613	27.934	27.398	27.354	28.692	28.737	27.755	29.406
90	16.400	23.313	0.000	26.827	0.000	25.231	0.000	17.094	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	128.88	9.40	36.00
0-30	172.69	12.50	48.20
0-40	212.12	15.40	59.20
0-60	268.82	19.50	75.00
0-80	328.85	23.90	91.80
0-90	358.31	26.00	100.00
10-90	287.51	20.90	80.20
20-40	83.24	6.00	23.20
20-50	111.86	8.10	31.20
40-70	86.52	6.30	24.10
60-80	60.03	4.40	16.80
70-80	30.21	2.20	8.40
80-90	29.46	2.10	8.20
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	358.31	26.00	100.00

Total Luminaire Efficiency = 26.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.80
10-20	58.08
20-30	43.81
30-40	39.43
40-50	28.62
50-60	28.08
60-70	29.82
70-80	30.21
80-90	29.46
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

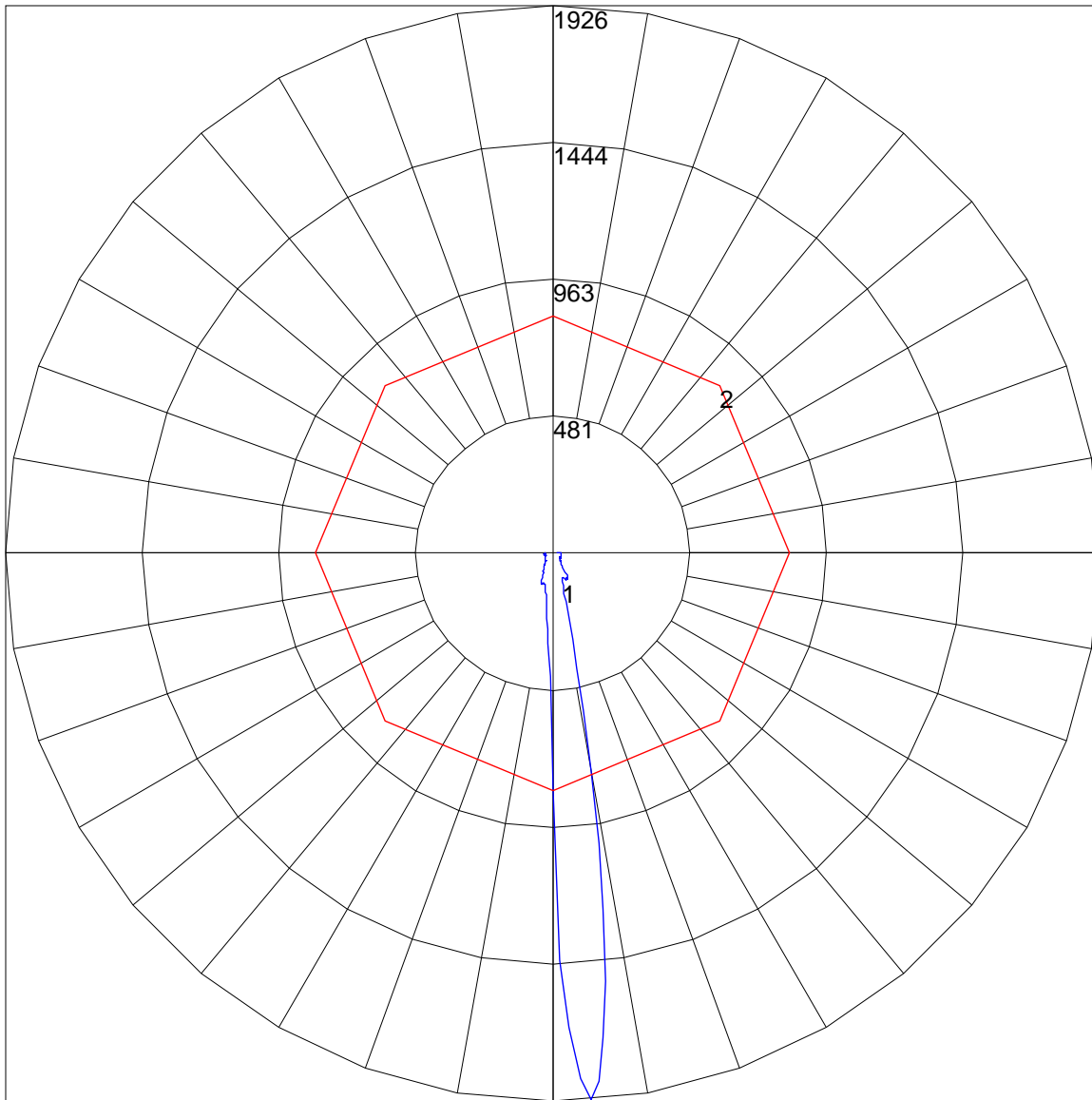
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	31	31	31	31	30	30	30	30	29	29	29	28	28	28	27	27	27	26
1	28	27	25	24	27	26	25	24	25	24	23	24	23	22	23	22	22	21
2	26	24	22	21	25	23	22	20	22	21	20	22	20	19	21	20	19	18
3	24	22	20	18	24	21	19	18	20	19	18	20	18	17	19	18	17	17
4	23	20	18	16	22	20	18	16	19	17	16	18	17	16	18	17	16	15
5	21	18	16	15	21	18	16	15	18	16	15	17	16	15	17	15	14	14
6	20	17	15	14	20	17	15	14	17	15	14	16	15	14	16	14	13	13
7	19	16	14	13	19	16	14	13	16	14	13	15	14	13	15	14	13	12
8	18	15	14	12	18	15	13	12	15	13	12	15	13	12	14	13	12	12
9	18	15	13	12	17	14	13	12	14	13	12	14	13	12	14	12	11	11
10	17	14	12	11	17	14	12	11	14	12	11	13	12	11	13	12	11	11

POLAR GRAPH



Maximum Candela = 1925.813 Located At Horizontal Angle = 315, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)