

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RACERAILLED.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] Photopia 2.0.0.17 PHOTOMETRIC REPORT  
[MANUFAC] VODE LIGHTING  
[TESTLAB] VODE PHOTOMETRIC  
[ISSUEDATE] 2009-12-07  
[LUMINAIRE] RACERAILLED  
[LAMP] LED

**CHARACTERISTICS**

Lumens Per Lamp	1285 (1 lamp)
Total Lumens	1285
Luminaire Lumens	1285
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.36
Spacing Criteria (90-270)	1.36
Spacing Criteria (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.03 m
Luminous Height	0.03 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11691	7393	6474
55	11038	6072	3687
65	9018	2653	468
75	5976	354	320
85	1625	103	69

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	471.37	471.37	471.37	471.37	471.37
<b>5</b>	476.66	472.79	485.14	492.74	489.44
<b>10</b>	485.69	485.79	483.89	487.17	485.72
<b>15</b>	478.31	482.23	481.86	481.84	482.03
<b>20</b>	468.86	468.09	469.07	469.38	474.09
<b>25</b>	452.37	455.33	457.17	456.74	453.07
<b>30</b>	434.19	435.51	434.96	435.12	435.01
<b>35</b>	408.22	407.83	415.08	409.68	410.45
<b>40</b>	383.28	383.63	384.09	385.40	387.37
<b>45</b>	349.18	351.24	350.26	351.58	351.07
<b>50</b>	313.80	314.21	314.35	313.76	311.58
<b>55</b>	270.08	270.43	271.78	236.98	194.24
<b>60</b>	221.60	222.42	206.26	113.58	77.73
<b>65</b>	165.27	169.70	108.15	28.29	23.17
<b>70</b>	114.89	108.86	30.69	18.11	18.68
<b>75</b>	69.48	47.57	12.58	13.95	14.35
<b>80</b>	31.93	12.76	8.27	8.67	8.86
<b>85</b>	7.43	2.99	3.01	2.65	2.69
<b>90</b>	0.99	0.58	0.44	0.34	0.25

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	391.54	30.5	30.5
0-40	648.71	50.5	50.5
0-60	1140.78	88.8	88.7
0-90	1285.48	100	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	1285.48	100	100

Total Luminaire Efficiency = 100%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.08
10-20	135.75
20-30	209.71
30-40	257.17
40-50	270.45
50-60	221.62
60-70	105.94
70-80	33.36
80-90	5.41
90-100	0
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

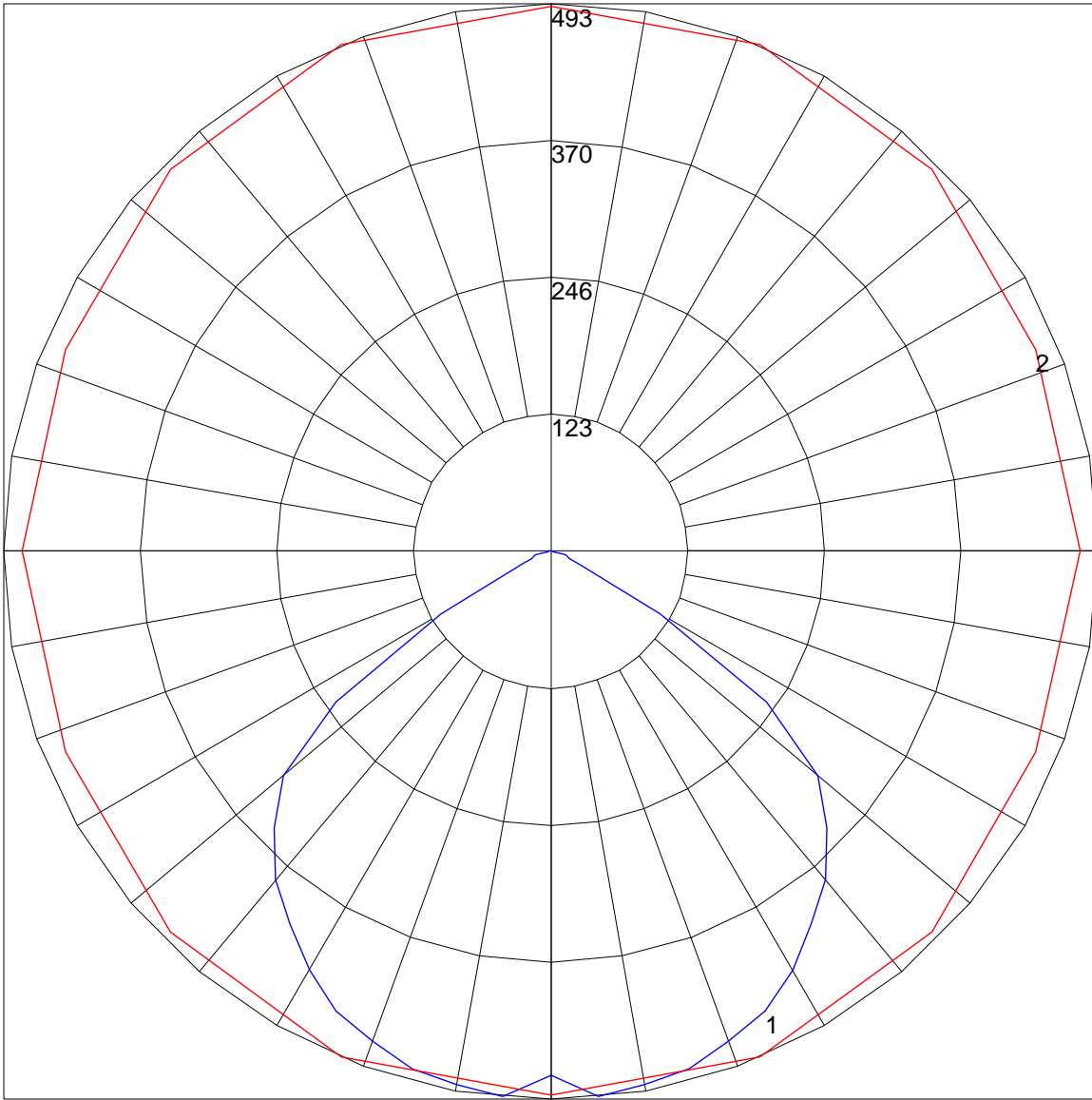
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	119	116	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99		108	104	101	98		100	97	95		96	94	92	93	91	89	87
2	101	94	88	83		99	92	87	82		89	84	80		86	82	78	83	79	77	75
3	93	83	76	70		91	82	75	69		79	73	68		76	71	67	74	70	66	64
4	85	74	66	60		83	73	65	60		71	64	59		68	63	58	66	61	57	55
5	79	67	58	52		77	66	58	52		63	56	51		62	55	51	60	54	50	48
6	73	60	52	45		71	59	51	45		57	50	45		56	49	45	54	49	44	42
7	68	55	46	40		66	54	46	40		52	45	40		51	44	40	49	44	39	37
8	63	50	42	36		61	49	41	36		48	41	36		47	40	35	45	40	35	33
9	59	46	38	32		57	45	37	32		44	37	32		43	36	32	42	36	32	30
10	55	42	34	29		54	42	34	29		41	34	29		40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 492.74 Located At Horizontal Angle = 67.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)