

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] Photopia 2.0.0.17 PHOTOMETRIC REPORT
[MANUFAC] VODE LIGHTING
[LUMINAIRE] RaceRail
[LAMP] 54W T5 HO

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	51.7 %
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.18
Spacing Criteria (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.23 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	23528	10927	10023
55	21319	9178	8078
65	18654	7023	5709
75	16079	4519	3863
85	12855	2614	2623

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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>
0	808.11	808.11	808.11	808.11	808.11
5	766.14	801.76	819.71	806.30	806.94
10	824.41	813.02	785.26	781.75	744.60
15	753.49	776.67	767.77	748.32	785.24
20	740.18	737.85	729.20	710.72	707.18
25	729.08	704.50	686.98	683.95	676.41
30	680.07	661.23	655.66	641.55	635.68
35	646.33	600.34	591.94	594.37	572.16
40	575.01	569.35	553.62	540.84	552.18
45	535.56	514.54	480.45	506.72	525.09
50	465.46	450.01	447.25	448.37	460.71
55	398.25	387.33	396.94	415.59	428.15
60	333.02	332.81	338.03	357.23	368.20
65	261.71	261.36	289.41	298.88	296.88
70	206.34	208.79	224.63	233.26	241.27
75	143.96	150.85	171.36	183.93	190.95
80	91.97	98.39	125.31	149.59	162.48
85	46.34	55.41	87.51	111.30	118.94
90	12.61	25.01	52.50	75.41	83.66
95	2.37	5.76	24.83	39.74	48.30
100	0.67	0.64	4.08	15.85	22.67
105	0.11	0.29	0.25	1.05	2.06
110	0.01	0.19	0.09	0.03	0.00
115	0.01	0.10	0.09	0.01	0.00
120	0.00	0.04	0.07	0.00	0.00
125	0.00	0.06	0.01	0.02	0.00
130	0.00	0.00	0.00	0.00	0.00
135	0.03	0.00	0.02	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	611.12	13.6	26.3
0-40	988.48	22	42.5
0-60	1738.55	38.6	74.8
0-90	2293.24	51	98.6
90-120	31.58	.7	1.4
90-130	31.6	.7	1.4
90-150	31.6	.7	1.4
90-180	31.6	.7	1.4
0-180	2324.84	51.7	100

Total Luminaire Efficiency = 51.7%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.32
10-20	215.21
20-30	319.59
30-40	377.36
40-50	391.19
50-60	358.88
60-70	280.24
70-80	180.75
80-90	93.71
90-100	29
100-110	2.53
110-120	.05
120-130	.02
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

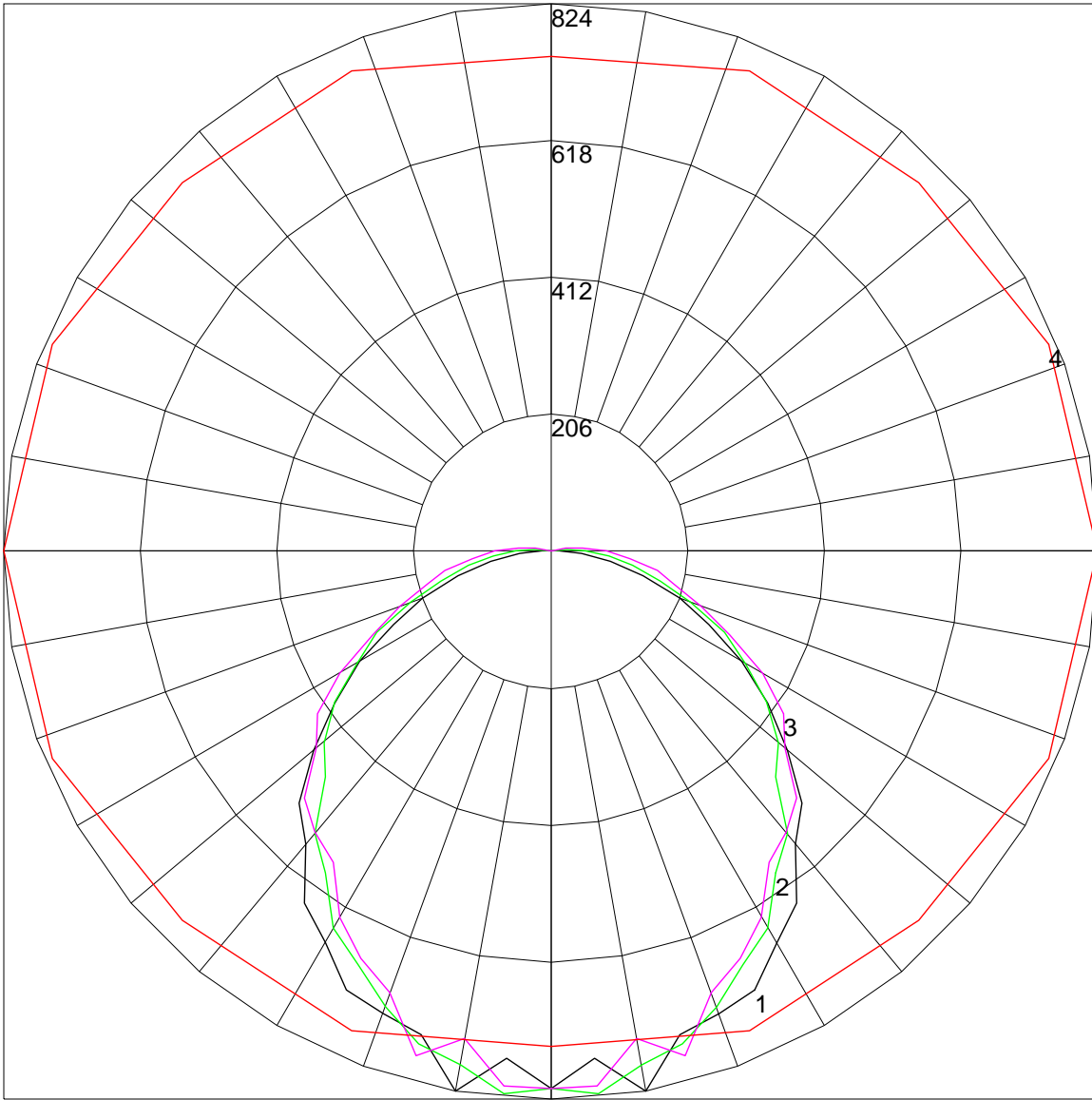
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	61	61	61	61	60	60	60	60	57	57	57	54	54	54	52	52	52	51
1	56	53	50	48	54	52	49	47	49	47	46	47	46	44	45	44	43	42
2	50	46	42	39	49	45	41	38	43	40	37	41	39	36	39	37	36	34
3	46	40	36	32	44	39	35	32	38	34	31	36	33	31	35	32	30	29
4	42	36	31	27	41	35	30	27	33	30	27	32	29	26	31	28	26	25
5	39	32	27	23	37	31	27	23	30	26	23	29	25	23	28	25	22	21
6	36	29	24	20	35	28	24	20	27	23	20	26	23	20	25	22	20	19
7	33	26	21	18	32	25	21	18	25	21	18	24	20	18	23	20	17	16
8	31	24	19	16	30	23	19	16	23	19	16	22	18	16	21	18	16	15
9	29	22	17	15	28	21	17	14	21	17	14	20	17	14	20	16	14	13
10	27	20	16	13	26	20	16	13	19	16	13	19	15	13	18	15	13	12

POLAR GRAPH



Maximum Candela = 824.41 Located At Horizontal Angle = 0, Vertical Angle = 10

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 4 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)