

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUERAILWITHSLOTS.IES

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	89.1 %
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.28
Spacing Criteria (90-270)	1.46
Spacing Criteria (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.03 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9726	8748	8811
55	9046	8489	8189
65	8901	7392	6946
75	8039	5410	4337
85	6881	1936	1736

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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	961.81	961.81	961.81	961.81	961.81
5	894.55	973.76	1007.07	940.61	958.00
10	970.26	939.47	949.60	979.57	1009.39
15	933.46	924.58	941.05	959.52	995.18
20	897.81	904.91	973.24	961.73	975.65
25	843.20	893.77	918.69	934.76	932.45
30	828.35	848.22	898.67	936.57	944.02
35	753.64	818.89	849.30	889.88	911.96
40	719.73	753.52	809.51	869.42	885.66
45	669.36	708.57	783.52	829.37	854.95
50	597.53	642.32	729.04	793.53	799.56
55	510.99	582.63	683.55	723.29	730.20
60	448.70	505.73	599.04	631.87	653.18
65	377.75	446.75	510.27	551.57	546.00
70	295.34	366.53	417.32	416.37	409.50
75	217.89	283.70	299.91	285.68	284.70
80	148.91	182.00	176.03	167.33	161.15
85	75.30	78.79	77.78	81.35	87.99
90	16.11	23.75	35.66	42.49	44.72
95	20.51	18.53	37.47	41.89	48.43
100	30.63	38.42	29.59	43.29	45.34
105	37.07	69.56	50.24	41.72	38.00
110	43.72	88.59	86.41	71.51	65.12
115	50.90	96.76	122.24	106.46	94.88
120	57.82	109.25	148.64	145.61	140.35
125	62.94	113.80	159.85	176.90	181.25
130	61.28	118.83	163.67	182.34	194.80
135	64.89	126.28	160.95	195.77	195.43
140	62.93	130.77	162.75	195.73	190.78
145	64.98	129.23	168.30	190.31	199.72
150	66.66	124.11	165.55	179.77	199.55
155	67.99	110.13	165.50	186.66	179.63
160	86.54	107.27	143.07	170.02	169.24
165	71.37	86.96	142.82	156.44	162.51
170	82.79	71.55	108.11	123.91	130.22
175	77.04	88.08	81.68	92.19	77.38
180	67.09	67.09	67.09	67.09	67.09

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	783.5	17.4	19.5
0-40	1316.12	29.2	32.8
0-60	2489.58	55.3	62.1
0-90	3365.4	74.8	84
90-120	192.24	4.3	4.8
90-130	317.73	7.1	7.9
90-150	532.14	11.8	13.3
90-180	643.21	14.3	16
0-180	4008.62	89.1	100

Total Luminaire Efficiency = 89.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.92
10-20	269.31
20-30	422.28
30-40	532.62
40-50	592.91
50-60	580.55
60-70	481.8
70-80	295.16
80-90	98.86
90-100	37.25
100-110	55.97
110-120	99.02
120-130	125.49
130-140	117.83
140-150	96.58
150-160	67.35
160-170	35.21
170-180	8.52

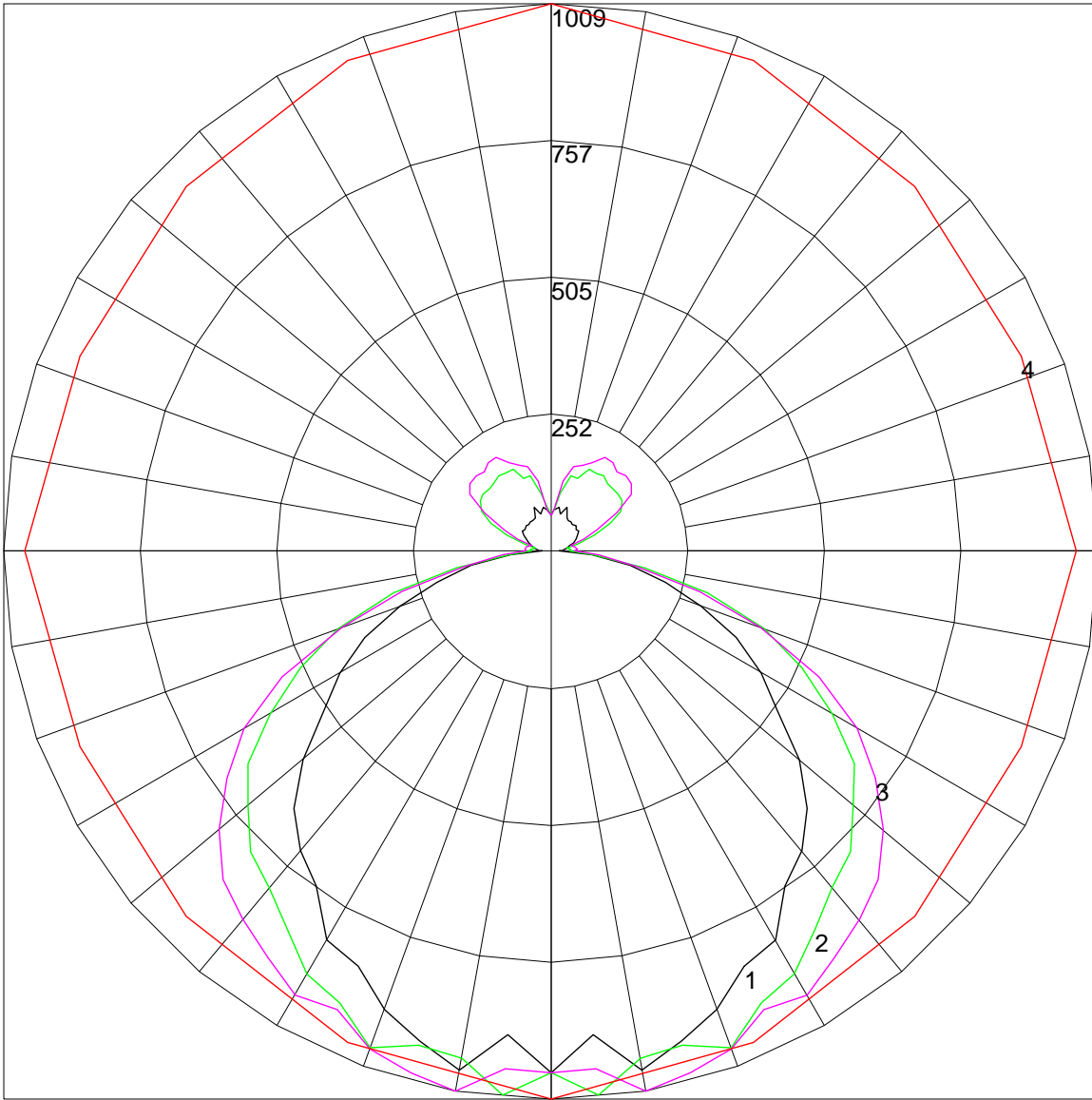
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	99	99	99	99	91	91	91	84	84	84	78	78	78	75	0
1	93	88	84	81	89	85	81	78	79	76	73	73	70	68	67	65	64	61	0
2	84	76	70	65	80	73	68	63	68	63	59	63	59	56	58	55	52	50	0
3	76	66	59	53	73	64	57	52	59	54	49	55	50	46	51	47	44	41	0
4	69	58	50	44	66	56	49	43	52	46	41	48	43	39	45	41	37	35	0
5	63	52	44	38	61	50	42	37	46	40	35	43	38	33	40	35	32	29	0
6	58	46	38	32	56	45	37	32	42	35	30	39	33	29	36	31	28	25	0
7	54	42	34	28	52	40	33	28	38	31	27	35	30	25	33	28	24	22	0
8	50	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20	0
9	47	35	27	22	45	34	27	22	31	25	21	30	24	20	28	23	19	18	0
10	44	32	25	20	42	31	24	20	29	23	19	27	22	18	26	21	18	16	0

POLAR GRAPH



Maximum Candela = 1009.39 Located At Horizontal Angle = 90, 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.)