

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WINGRAILWITHSLOTS.IES

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	78.9 %
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.56
Spacing Criteria (90-270)	1.26
Spacing Criteria (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.05 m
Luminous Width (90-270)	1.25 m
Luminous Height	0.03 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12550	12036	12716
55	11007	11976	12599
65	9341	10141	12286
75	5938	7213	10650
85	2185	2841	7722

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	935.49	935.49	935.49	935.49	935.49	935.49	935.49	935.49	935.49
5	977.01	1006.38	967.42	950.18	880.62	889.02	877.00	882.80	830.40
10	970.28	967.81	958.92	947.32	910.34	876.00	828.11	818.99	752.94
15	1001.66	1018.83	930.72	921.11	891.38	829.87	801.51	764.41	751.33
20	1051.91	1000.22	989.51	946.15	854.81	763.68	702.72	666.03	684.14
25	957.65	980.54	992.22	884.01	843.70	737.15	653.02	639.41	620.00
30	955.92	962.19	907.34	862.00	793.82	678.97	573.13	552.77	517.00
35	938.44	963.21	897.99	837.56	738.85	626.24	542.42	468.92	444.73
40	948.14	931.31	858.04	771.25	680.16	559.90	451.61	409.19	383.40
45	948.56	902.21	817.80	749.33	607.48	489.36	391.46	351.90	324.53
50	896.98	879.79	787.22	678.20	554.27	396.15	314.10	282.43	258.43
55	785.86	803.63	749.06	631.24	493.55	348.20	249.65	221.62	198.52
60	705.30	714.93	672.80	561.85	410.93	280.78	195.58	157.53	160.08
65	607.50	602.21	560.25	496.85	361.06	207.04	147.48	111.93	112.50
70	476.94	465.88	465.00	412.67	273.75	140.33	94.49	79.00	70.40
75	336.70	334.97	333.73	320.07	199.25	88.03	56.05	65.02	65.45
80	202.55	210.50	207.29	216.90	126.33	45.59	47.27	59.56	60.28
85	101.90	92.49	101.93	86.60	57.61	24.58	49.47	58.33	64.32
90	18.36	14.28	16.15	12.32	7.62	25.88	47.84	65.59	65.61
95	0.40	0.98	1.15	0.77	20.33	29.16	56.01	68.38	81.74
100	0.46	0.97	0.96	9.14	46.73	65.75	60.82	81.84	85.29
105	0.99	1.02	4.41	24.01	69.71	98.84	81.83	85.34	83.35
110	3.62	6.70	21.62	38.86	92.58	141.68	121.09	113.51	108.27
115	20.20	23.92	38.75	51.42	117.76	166.36	160.14	152.00	147.48
120	41.42	41.15	47.50	72.49	135.92	197.78	212.24	177.41	177.01
125	55.09	58.97	62.12	84.30	158.86	226.27	256.76	231.26	223.18
130	59.19	69.78	83.07	104.49	180.52	240.77	259.18	283.51	290.08
135	80.90	82.15	98.69	120.36	200.09	259.84	298.09	308.47	317.31
140	108.64	103.22	105.41	138.73	209.59	271.83	290.96	314.39	334.23
145	115.16	125.61	133.50	168.86	229.93	281.66	307.23	327.75	326.38
150	132.59	136.34	141.08	196.55	233.32	308.01	315.84	349.91	335.57
155	145.97	151.37	165.21	199.61	259.67	304.22	346.71	323.01	329.33
160	163.13	173.40	193.87	226.92	256.93	294.37	339.60	351.85	348.42
165	189.71	204.83	204.14	224.09	267.27	283.64	324.63	336.73	362.09
170	243.68	239.38	227.78	263.52	277.49	278.48	307.21	310.90	331.20
175	229.86	270.76	257.07	244.30	272.98	301.50	296.59	301.50	274.98
180	281.34	281.34	281.34	281.34	281.34	281.34	281.34	281.34	281.34

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	708.46	15.7	19.9
0-40	1157.65	25.7	32.6
0-60	2077.44	46.2	58.5
0-90	2721.84	60.5	76.6
90-120	188.1	4.2	5.3
90-130	323.03	7.2	9.1
90-150	612.71	13.6	17.3
90-180	829.61	18.4	23.4
0-180	3551.45	78.9	100

Total Luminaire Efficiency = 78.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.13
10-20	247.74
20-30	373.59
30-40	449.19
40-50	475.6
50-60	444.19
60-70	350.54
70-80	212.66
80-90	81.2
90-100	33.28
100-110	56.61
110-120	98.2
120-130	134.93
130-140	149.41
140-150	140.27
150-160	115.23
160-170	75.39
170-180	26.27

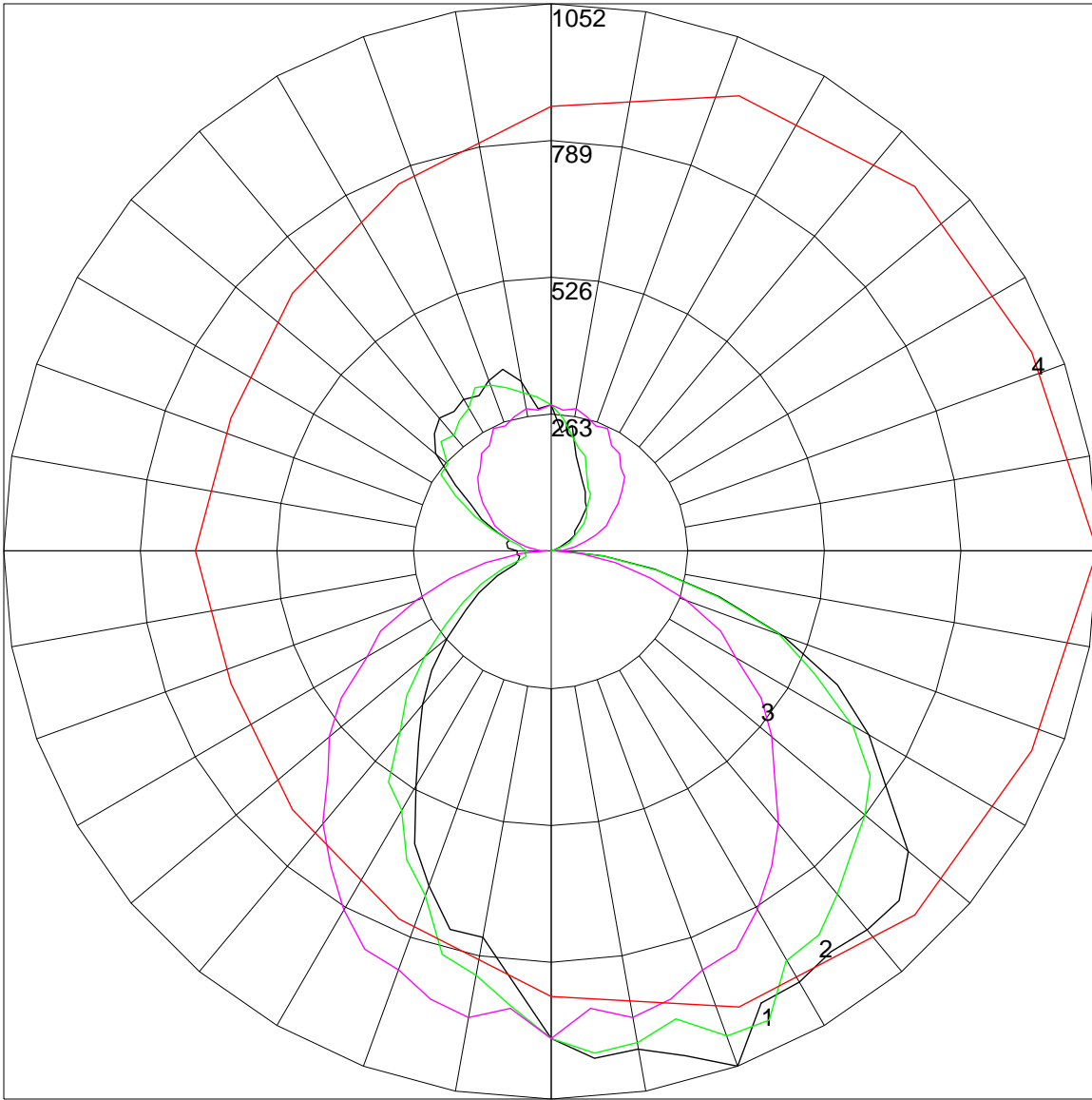
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	90	90	90	90	85	85	85	85	77	77	77	70	70	70	64	64	64	60
1	81	78	74	71	77	74	71	68	67	65	63	61	59	57	55	54	53	50
2	74	67	62	57	70	64	59	55	58	55	51	53	50	47	48	46	44	41
3	67	59	53	47	64	56	51	46	51	47	43	47	43	40	42	39	37	34
4	61	52	45	40	58	50	44	39	45	40	36	41	37	34	38	34	31	29
5	56	46	39	34	53	44	38	33	41	35	31	37	33	29	34	30	27	25
6	52	42	35	30	49	40	33	29	37	31	27	34	29	25	31	27	24	22
7	48	38	31	26	45	36	30	25	33	28	24	30	26	23	28	24	21	19
8	45	34	28	23	42	33	27	22	30	25	21	28	23	20	26	22	19	17
9	42	31	25	21	39	30	24	20	28	23	19	26	21	18	24	20	17	15
10	39	29	23	19	37	28	22	18	26	21	17	24	19	16	22	18	15	14

POLAR GRAPH



Maximum Candela = 1051.91 Located At Horizontal Angle = 0, Vertical Angle = 20

- # 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 (20) (Through Max. Cd.)