

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WINGRAILWITHBAFFLE.IES

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	59.6 %
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.54
Spacing Criteria (90-270)	1.14
Spacing Criteria (Diagonal)	1.28
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.05 m
Luminous Width (90-270)	1.25 m
Luminous Height	0.04 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13083	10843	12717
55	12001	9582	10966
65	8757	6979	9279
75	5576	3498	6613
85	2132	1479	6006

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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	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00
5	1139.15	1111.68	1104.56	1049.71	1089.54	970.15	1013.01	913.93	1042.05
10	1097.89	1083.99	1051.69	1100.73	989.80	1020.09	898.26	892.44	918.85
15	1094.65	1106.55	1074.92	1010.16	964.51	876.78	864.66	841.71	822.41
20	1114.73	1106.71	1061.02	956.93	899.56	853.73	817.77	755.57	781.38
25	1095.06	1090.76	994.91	936.82	882.98	778.95	722.92	690.94	715.45
30	1100.17	1041.66	962.18	856.26	794.25	699.98	640.29	633.37	645.43
35	1091.67	1001.91	883.36	801.02	720.45	614.71	596.93	548.53	555.49
40	1052.01	961.13	828.17	726.01	654.95	566.37	530.32	480.60	483.19
45	1032.27	928.19	758.37	654.81	589.38	505.55	441.70	415.76	397.45
50	988.96	882.48	707.58	570.04	501.16	423.06	383.10	347.20	311.48
55	909.48	800.37	626.71	475.33	417.54	352.03	306.86	270.36	250.38
60	765.40	663.28	531.28	387.38	333.28	286.32	242.71	220.20	203.42
65	616.20	533.10	410.93	291.69	265.81	222.37	184.45	166.13	135.93
70	480.45	395.46	284.49	196.80	182.00	167.88	138.24	106.45	104.40
75	350.27	278.85	176.89	122.43	121.32	119.80	99.47	85.50	64.76
80	225.47	173.96	106.65	85.66	83.20	75.62	67.49	53.63	36.72
85	113.75	87.78	60.22	49.41	44.97	36.28	45.59	34.78	16.98
90	33.59	45.05	39.71	29.32	20.68	26.09	31.11	23.46	5.16

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	773.26	17.2	28.8
0-40	1243.15	27.6	46.3
0-60	2153.04	47.8	80.2
0-90	2683.7	59.6	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	2683.7	59.6	100

Total Luminaire Efficiency = 59.6%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.55
10-20	272.26
20-30	402.45
30-40	469.88
40-50	482.85
50-60	427.04
60-70	303.54
70-80	163.75
80-90	63.38
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

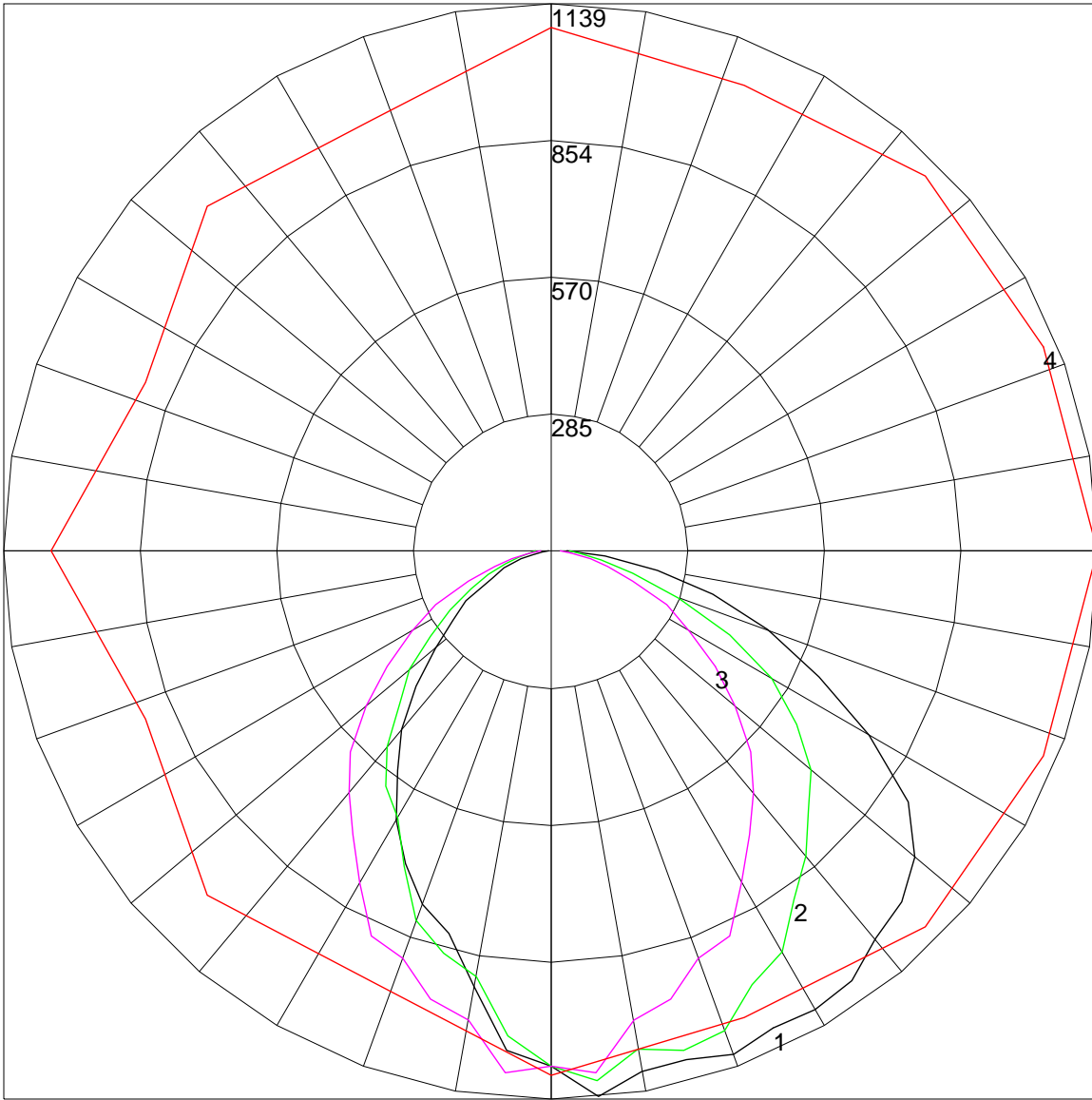
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	60
1	65	62	60	57	63	61	58	56	58	56	55	56	54	53	54	52	51	50
2	59	54	50	47	58	53	49	46	51	48	45	49	46	44	47	45	43	42
3	54	48	43	39	53	47	42	39	45	41	38	43	40	37	42	39	37	35
4	50	42	37	33	48	42	37	33	40	36	33	39	35	32	37	34	32	30
5	46	38	33	29	44	37	32	29	36	32	28	35	31	28	34	30	28	26
6	42	34	29	25	41	34	29	25	33	28	25	32	28	25	31	27	24	23
7	39	31	26	22	38	31	26	22	30	25	22	29	25	22	28	24	22	21
8	36	28	23	20	35	28	23	20	27	23	20	26	22	20	26	22	19	18
9	34	26	21	18	33	26	21	18	25	21	18	24	21	18	24	20	18	17
10	32	24	19	16	31	24	19	16	23	19	16	23	19	16	22	19	16	15

POLAR GRAPH



Maximum Candela = 1139.15 Located At Horizontal Angle = 0, Vertical Angle = 5

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