

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WINGRAIL.IES

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	65.4 %
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.66
Spacing Criteria (90-270)	1.28
Spacing Criteria (Diagonal)	1.40
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	13506	13386	13877
55	12861	13207	13741
65	10039	11489	13064
75	6216	7575	11795
85	2356	3080	8533

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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	982.50	982.50	982.50	982.50	982.50	982.50	982.50	982.50	982.50
5	985.82	1071.92	1053.23	1075.41	983.91	996.88	956.29	984.16	943.62
10	1036.14	1041.63	1072.35	1036.99	993.73	940.57	885.24	907.85	793.38
15	1080.00	1071.01	1065.49	985.90	971.79	902.14	815.18	820.84	791.29
20	1065.38	1065.64	1049.65	989.87	938.25	815.07	747.02	705.51	735.61
25	1126.48	1046.84	1038.39	974.19	906.44	784.26	718.25	642.81	633.75
30	1070.37	1053.07	1014.66	958.33	843.64	722.61	650.39	594.06	585.18
35	1032.39	1040.16	979.45	915.35	797.28	664.42	547.04	505.28	493.25
40	1067.05	1004.98	955.43	863.28	732.19	581.84	487.19	423.56	411.82
45	1020.81	1000.87	909.54	787.85	662.92	519.36	424.50	368.38	349.78
50	1001.38	970.79	848.06	746.44	597.90	440.32	360.70	299.10	278.41
55	918.21	921.80	826.01	690.32	538.30	361.32	286.04	239.54	220.91
60	781.92	769.83	755.97	612.70	466.11	298.76	215.20	174.02	172.79
65	652.87	638.82	634.72	550.42	383.93	223.03	154.00	125.27	118.00
70	478.53	500.97	494.72	459.69	308.31	157.98	101.65	87.55	83.87
75	352.44	356.74	350.47	360.00	220.67	101.03	63.51	58.27	53.98
80	244.97	227.04	234.16	230.93	140.86	49.16	41.67	33.22	32.97
85	109.90	118.99	110.52	102.63	63.66	18.63	11.89	10.56	8.50
90	37.02	34.64	32.36	25.81	11.98	2.15	0.91	0.26	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	763.21	17	25.9
0-40	1250.49	27.8	42.5
0-60	2258.43	50.2	76.7
0-90	2944.27	65.4	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	2944.27	65.4	100

Total Luminaire Efficiency = 65.4%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.84
10-20	266.16
20-30	402.22
30-40	487.27
40-50	517.18
50-60	490.76
60-70	382.32
70-80	228.14
80-90	75.39
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

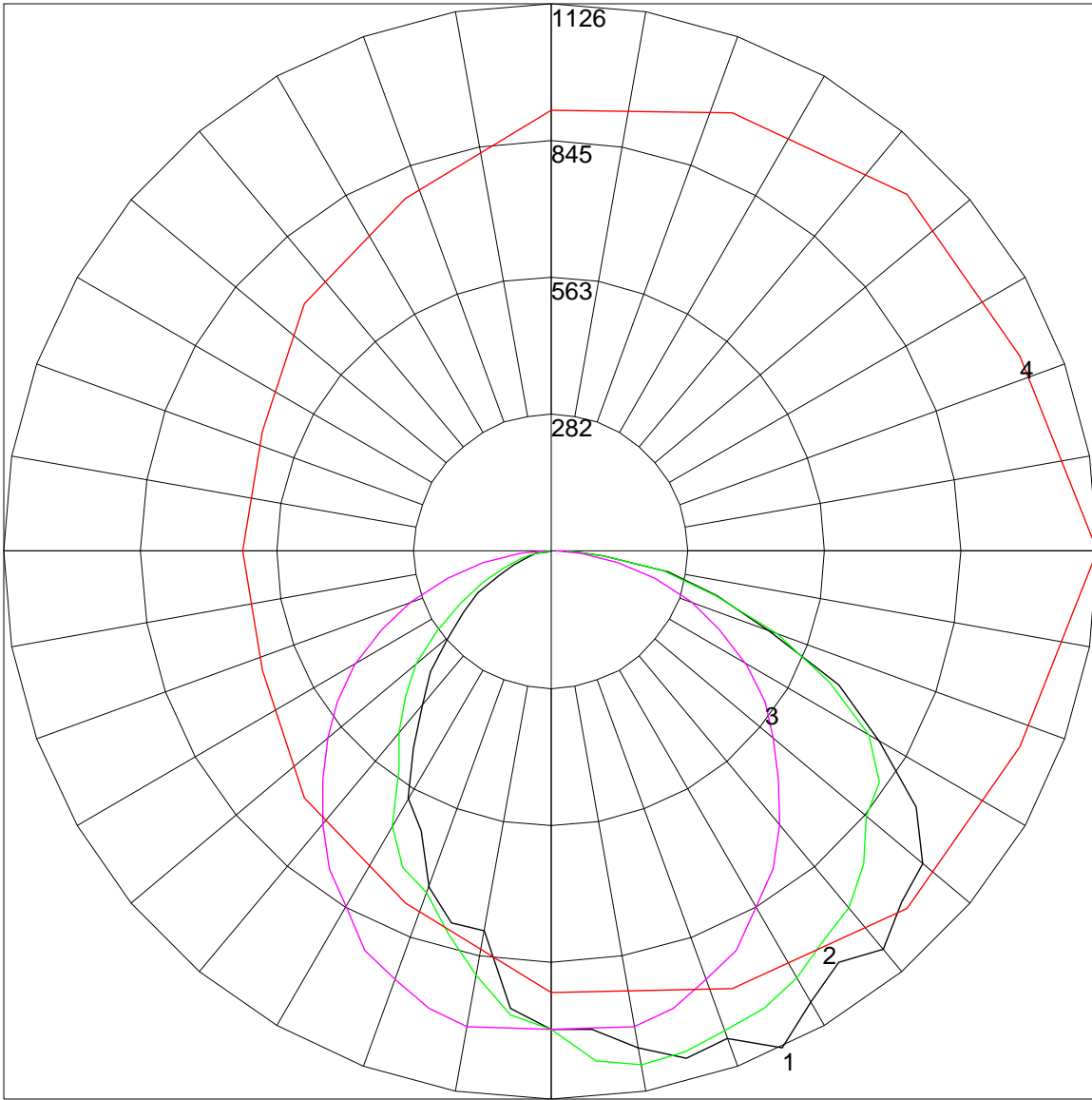
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	65
1	71	68	65	62	69	66	63	61	63	61	59	61	59	57	58	57	55	54
2	64	59	54	50	62	57	53	49	55	51	48	53	50	47	51	48	46	45
3	58	51	46	41	57	50	45	41	48	44	40	46	43	39	45	41	39	37
4	53	45	39	35	52	44	39	35	43	38	34	41	37	34	40	36	33	32
5	49	40	34	30	48	40	34	30	38	33	29	37	32	29	36	32	29	27
6	45	36	30	26	44	36	30	26	34	29	26	33	29	25	32	28	25	24
7	42	33	27	23	41	32	27	23	31	26	23	30	26	22	29	25	22	21
8	39	30	24	20	38	29	24	20	29	24	20	28	23	20	27	23	20	19
9	36	27	22	18	35	27	22	18	26	21	18	26	21	18	25	21	18	17
10	34	25	20	17	33	25	20	16	24	20	16	24	19	16	23	19	16	15

POLAR GRAPH



Maximum Candela = 1126.48 Located At Horizontal Angle = 0, Vertical Angle = 25

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