

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BOWPERF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] Photopia 2.0.0.17 PHOTOMETRIC REPORT
[MANUFAC] VODE LIGHTING
[LUMINAIRE] BowPerf
[LAMP] 1 54W T5 HO

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	84.1 %
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criteria (0-180)	N.A.
Spacing Criteria (90-270)	N.A.
Spacing Criteria (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.04 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4134	2933	2662
55	3808	2353	2307
65	3085	1966	2043
75	1741	1670	1847
85	736	1487	1751

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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	458.05	458.05	458.05	458.05	458.05
5	415.47	432.56	468.29	430.38	414.11
10	443.68	426.23	439.82	438.63	413.04
15	431.45	412.53	418.67	438.62	409.40
20	405.67	408.99	400.62	421.23	388.95
25	383.68	374.29	392.91	374.26	376.61
30	362.89	349.93	360.51	364.72	357.47
35	336.49	344.94	325.41	338.63	336.09
40	317.00	303.84	310.59	296.98	302.92
45	283.01	279.06	278.78	282.50	278.54
50	245.02	247.22	242.57	242.86	250.08
55	214.65	208.48	205.13	218.15	226.74
60	171.50	174.07	184.83	195.65	200.64
65	131.31	138.24	150.73	171.98	181.78
70	84.69	97.74	133.74	154.00	156.35
75	47.82	70.40	106.54	131.48	142.09
80	22.79	42.97	86.65	116.41	122.16
85	8.49	28.38	72.88	102.14	109.48
90	20.27	32.37	62.66	89.16	98.89
95	70.82	97.25	114.87	142.00	141.05
100	103.99	183.74	210.73	227.49	233.41
105	151.26	245.94	314.79	329.44	339.03
110	208.32	282.57	408.22	436.98	432.37
115	251.74	331.00	451.43	528.98	557.80
120	298.59	371.83	478.13	579.99	603.36
125	333.23	408.18	517.43	575.40	616.92
130	366.11	412.44	534.92	617.85	617.95
135	407.49	443.75	540.40	629.90	643.19
140	438.83	455.14	548.47	611.62	642.17
145	461.93	480.80	546.79	606.95	619.22
150	476.02	476.40	530.02	594.59	589.26
155	509.07	512.44	527.21	563.30	582.11
160	540.37	514.17	526.75	542.18	542.56
165	568.97	540.42	530.22	530.76	521.53
170	594.13	576.46	531.79	518.76	550.45
175	597.57	619.66	599.57	572.41	531.87
180	651.03	651.03	651.03	651.03	651.03

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	337.08	7.5	8.9
0-40	546.51	12.1	14.4
0-60	952.77	21.2	25.2
0-90	1288.25	28.6	34
90-120	849.71	18.9	22.4
90-130	1291.84	28.7	34.1
90-150	2041.92	45.4	53.9
90-180	2497.47	55.5	66
0-180	3785.71	84.1	100

Total Luminaire Efficiency = 84.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	41.81
10-20	119.14
20-30	176.14
30-40	209.42
40-50	214.58
50-60	191.68
60-70	153.66
70-80	107.71
80-90	74.11
90-100	133.14
100-110	297.65
110-120	418.92
120-130	442.13
130-140	410.82
140-150	339.27
150-160	247.52
160-170	152.45
170-180	55.57

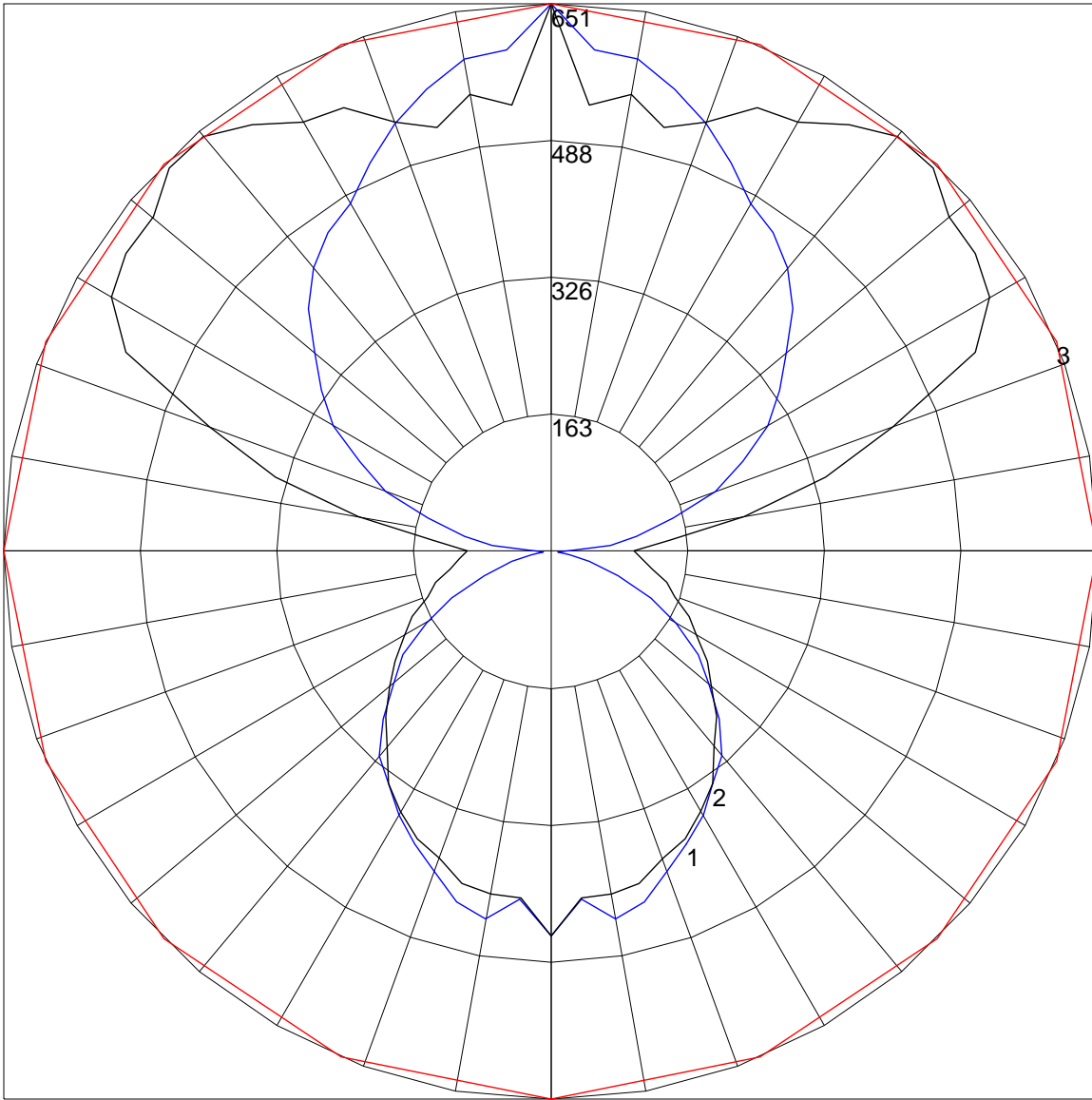
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	87	87	87	87	78	78	78	78	63	63	63	48	48	48	35	35	35	29
1	79	75	72	68	71	68	65	62	54	52	50	41	40	39	30	29	28	23
2	71	65	60	56	64	59	54	51	47	44	41	36	34	32	26	25	24	19
3	65	57	51	46	58	52	46	42	41	38	34	32	29	27	23	21	20	16
4	59	50	44	39	53	46	40	35	37	32	29	28	25	23	20	19	17	14
5	54	45	38	33	49	41	35	30	33	28	25	25	22	20	18	16	15	12
6	50	40	33	28	45	36	30	26	29	25	22	23	20	17	17	15	13	10
7	46	36	29	25	42	33	27	23	27	22	19	21	18	15	15	13	11	9
8	43	33	26	22	38	30	24	20	24	20	17	19	16	13	14	12	10	8
9	40	30	23	19	36	27	22	18	22	18	15	17	14	12	13	11	9	7
10	37	27	21	17	33	25	19	16	20	16	13	16	13	11	12	10	8	7

POLAR GRAPH



Maximum Candela = 651.03 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)