

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BOXRAIL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

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

**CHARACTERISTICS**

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	37.1 %
Luminaire Efficacy Rating (LER)	28
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.32
Spacing Criteria (90-270)	1.30
Spacing Criteria (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.25 m
Luminous Width (90-270)	0.03 m
Luminous Height	0.04 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17373	9090	6812
55	17056	6328	4567
65	14841	3706	2349
75	11079	1269	755
85	3871	125	80

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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>
<b>0</b>	615.10	615.10	615.10	615.10	615.10
<b>5</b>	640.19	648.66	604.15	634.32	607.90
<b>10</b>	621.75	622.64	626.44	632.60	624.63
<b>15</b>	632.35	625.06	632.25	624.56	628.78
<b>20</b>	586.91	597.50	607.57	615.72	637.86
<b>25</b>	550.22	592.53	609.04	603.13	604.15
<b>30</b>	546.26	567.28	577.26	557.02	549.77
<b>35</b>	519.90	529.48	531.48	501.62	496.48
<b>40</b>	463.72	500.63	477.34	450.19	447.97
<b>45</b>	420.73	450.18	429.31	381.12	383.85
<b>50</b>	388.22	401.85	355.56	329.55	317.14
<b>55</b>	339.20	338.58	294.52	262.83	260.83
<b>60</b>	285.71	271.81	224.83	201.90	196.19
<b>65</b>	221.91	200.12	164.70	146.76	131.85
<b>70</b>	167.14	140.02	103.60	86.92	81.27
<b>75</b>	105.95	79.59	52.04	41.48	40.34
<b>80</b>	54.44	32.79	19.44	16.43	15.13
<b>85</b>	15.03	6.68	4.52	4.24	3.92
<b>90</b>	0.68	0.40	0.27	0.26	0.24
<b>95</b>	0.00	0.00	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.00	0.00	0.00
<b>115</b>	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00
<b>125</b>	0.00	0.00	0.00	0.00	0.00
<b>130</b>	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00
<b>140</b>	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	508.8	11.3	30.4
0-40	832.81	18.5	49.8
0-60	1420.39	31.6	85
0-90	1671.41	37.1	100
90-120	.1	0	0
90-130	.1	0	0
90-150	.1	0	0
90-180	.1	0	0
0-180	1671.51	37.1	100

Total Luminaire Efficiency = 37.1%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.72
10-20	176.3
20-30	272.78
30-40	324.01
40-50	320.91
50-60	266.67
60-70	171.31
70-80	69.2
80-90	10.52
90-100	.1
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

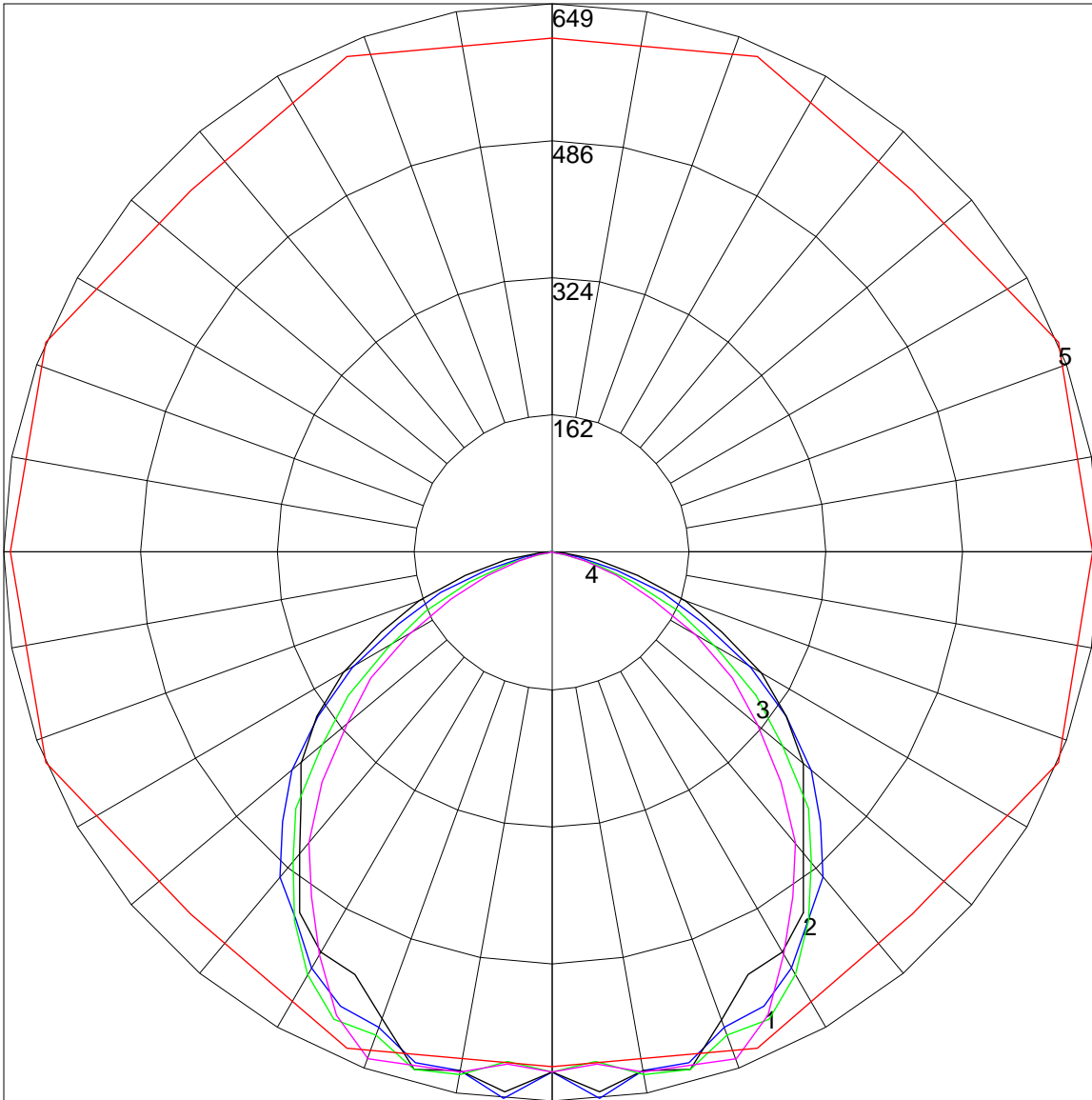
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	44	44	44	44	43	43	43	43	41	41	41	40	40	40	38	38	38	37
1	41	39	38	37	40	38	37	36	37	36	35	35	35	34	34	33	33	32
2	37	35	32	30	36	34	32	30	33	31	29	31	30	29	30	29	28	27
3	34	31	28	25	33	30	27	25	29	27	25	28	26	24	27	25	24	23
4	31	27	24	22	31	27	24	22	26	23	21	25	23	21	24	22	21	20
5	29	24	21	19	28	24	21	19	23	21	19	22	20	18	22	20	18	17
6	27	22	19	17	26	22	19	16	21	18	16	20	18	16	20	18	16	15
7	25	20	17	15	24	20	17	15	19	16	14	19	16	14	18	16	14	14
8	23	18	15	13	23	18	15	13	18	15	13	17	15	13	17	14	13	12
9	22	17	14	12	21	17	14	12	16	14	12	16	13	12	15	13	12	11
10	20	15	13	11	20	15	13	11	15	12	11	15	12	11	14	12	11	10

POLAR GRAPH



Maximum Candela = 648.66 Located At Horizontal Angle = 22.5, Vertical Angle = 5

- # 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
- # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 4 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 5 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)