

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BOXRAIL-T21575.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
[TEST] 21575  
[MANUFAC]VODE LIGHTING - RAIL MOUNT LUMINAIRE - BOX RAIL  
[LUMCAT]105-TBX-48-AL  
[LUMINAIRE]WITH DIFFUSE INTERIOR AND NO LENS  
[LAMP]ONE PHILIPS 54 WATT T5 LAMP  
[LAMPCAT]F54T5/841HO. LUMEN RATING = 4500 LMS.  
[OTHER]ONE ADVANCE ICN-2S54 BALLAST OPERATING AT 120 VAC AND 55 WATTS

**CHARACTERISTICS**

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	41.9 %
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.30
Spacing Criteria (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.08 ft
Luminous Height	0.01 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20936	20605	20466
55	19192	18937	18662
65	16619	16604	16134
75	12564	13005	12785
85	6472	8316	8995

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**CANDELA TABULATION**

	<b>0</b>	<b>22.5</b>	<b>45</b>	<b>67.5</b>	<b>90</b>
<b>0</b>	658.6	658.6	658.6	658.6	658.6
<b>2.5</b>	663.9	656.9	654.7	655.4	654.2
<b>5</b>	661.5	653.7	652.8	654.2	652
<b>7.5</b>	657.5	649.8	650.2	652.8	651.7
<b>10</b>	651.8	644.9	646.7	648.6	647.6
<b>12.5</b>	644.5	638.5	640.3	642.8	642.2
<b>15</b>	635.6	631.4	632.1	635.5	635
<b>17.5</b>	625.1	622.1	623.5	625.8	625.2
<b>20</b>	612.9	611.1	612.4	616.2	617.7
<b>22.5</b>	599.2	597.7	599.2	608.6	610
<b>25</b>	583.7	582.4	585.9	597.7	601.3
<b>27.5</b>	567	566.2	572.6	587.1	589
<b>30</b>	548.9	549.1	559.8	572.6	573.8
<b>32.5</b>	529.5	530.5	544.6	555.6	558.5
<b>35</b>	508.6	510.4	527.1	538.9	542.3
<b>37.5</b>	487.1	488.9	507.9	521	523.3
<b>40</b>	464.4	467.3	487.2	500.6	502.4
<b>42.5</b>	440.8	445.7	466.9	478.3	480.1
<b>45</b>	416.3	423.9	445.5	454.7	456.6
<b>47.5</b>	390.7	400.9	421.9	430.2	432.1
<b>50</b>	364.6	377.1	396.4	404.7	406.7
<b>52.5</b>	337.5	351.9	370.5	378.6	380.5
<b>55</b>	309.9	325.9	343.9	351.9	353.8
<b>57.5</b>	282.1	299.6	317.1	324.2	324.6
<b>60</b>	254.1	273.6	289.2	295	298
<b>62.5</b>	226	247.2	262.3	269.1	270.9
<b>65</b>	198.1	220.1	234.9	241	242.5
<b>67.5</b>	170.4	192.8	207.2	212.3	214.3
<b>70</b>	143.2	165.6	179.9	184.3	187.2
<b>72.5</b>	117	139.2	152.7	158.5	162.2
<b>75</b>	92.1	113.5	126.2	133.9	136.1
<b>77.5</b>	69.1	88.8	102.4	107.9	110.4
<b>80</b>	48.7	65.7	78.7	85.9	89.3
<b>82.5</b>	31	45	57.9	67.3	70.7
<b>85</b>	16.3	27.3	41.3	50.2	53.4
<b>87.5</b>	4.5	14.5	26.6	34.3	37.4
<b>90</b>	0	5.4	14	20.1	22.9
<b>92.5</b>	0	0.7	4.9	8.9	10.8
<b>95</b>	0	0	0.7	2.3	3.3
<b>97.5</b>	0	0	0	0.1	0.4
<b>100</b>	0	0	0	0	0
<b>102.5</b>	0	0	0	0	0
<b>105</b>	0	0	0	0	0
<b>107.5</b>	0	0	0	0	0
<b>110</b>	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0
<b>115</b>	0	0	0	0	0
<b>117.5</b>	0	0	0	0	0
<b>120</b>	0	0	0	0	0
<b>122.5</b>	0	0	0	0	0
<b>125</b>	0	0	0	0	0
<b>127.5</b>	0	0	0	0	0
<b>130</b>	0	0	0	0	0
<b>132.5</b>	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135	0	0	0	0	0
137.5	0	0	0	0	0
140	0	0	0	0	0
142.5	0	0	0	0	0
145	0	0	0	0	0
147.5	0	0	0	0	0
150	0	0	0	0	0
152.5	0	0	0	0	0
155	0	0	0	0	0
157.5	0	0	0	0	0
160	0	0	0	0	0
162.5	0	0	0	0	0
165	0	0	0	0	0
167.5	0	0	0	0	0
170	0	0	0	0	0
172.5	0	0	0	0	0
175	0	0	0	0	0
177.5	0	0	0	0	0
180	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	512.87	11.4	27.2
0-40	841.37	18.7	44.6
0-60	1482.77	33	78.6
0-90	1882.72	41.8	99.8
90-120	3.45	.1	.2
90-130	3.45	.1	.2
90-150	3.45	.1	.2
90-180	3.45	.1	.2
0-180	1886.16	41.9	100

Total Luminaire Efficiency = 41.9%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.27
10-20	178.77
20-30	271.83
30-40	328.49
40-50	339.16
50-60	302.24
60-70	226.52
70-80	129.45
80-90	43.98
90-100	3.45
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

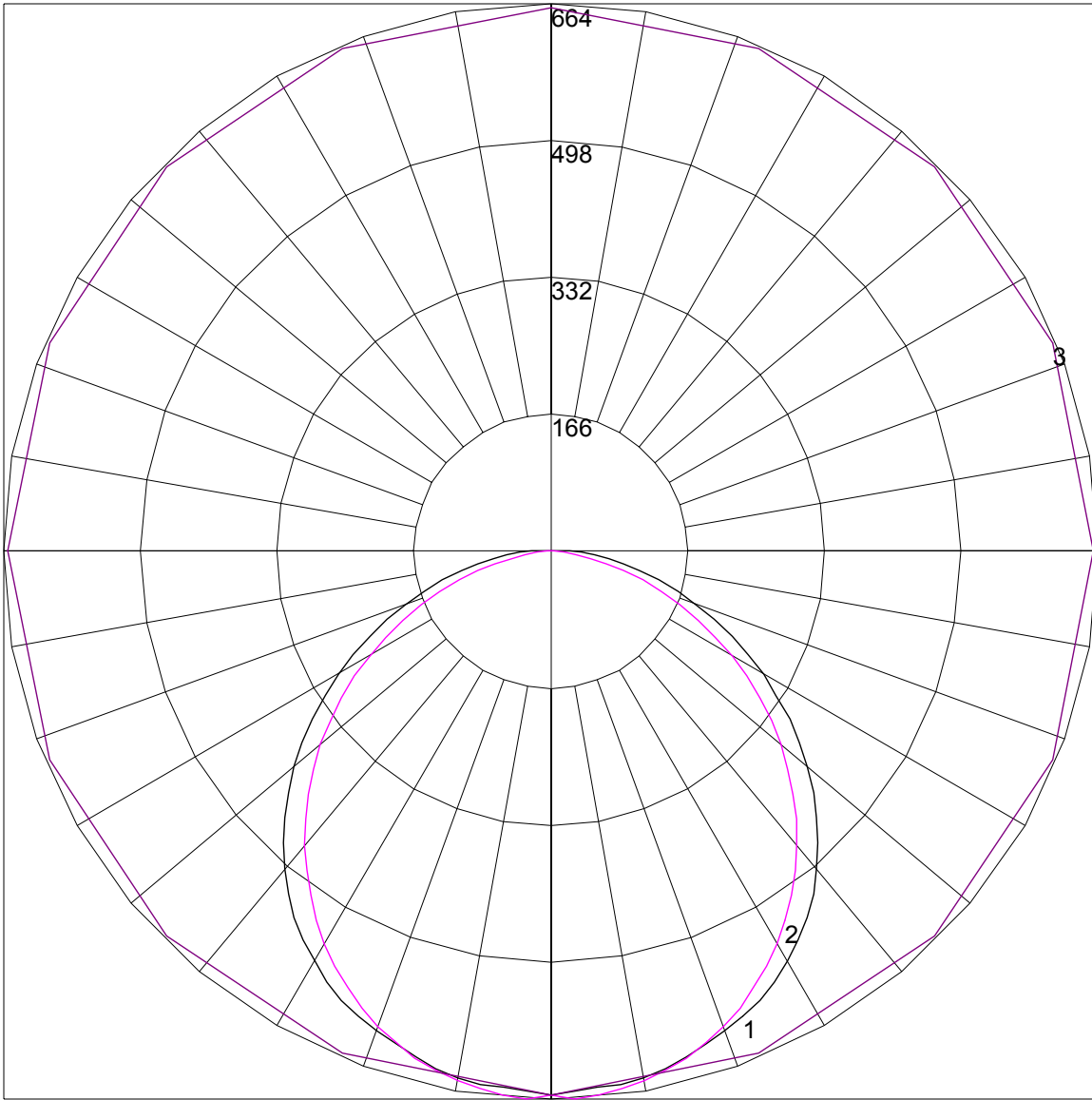
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	50	50	50	50	49	49	49	49	47	47	47	45	45	45	43	43	43	42	42
1	45	43	42	40	44	42	41	39	41	39	38	39	38	37	38	37	36	35	35
2	41	38	35	33	40	37	34	32	36	33	31	34	32	31	33	31	30	29	29
3	38	33	30	27	37	33	29	27	31	29	26	30	28	26	29	27	25	24	24
4	34	29	26	23	34	29	25	23	28	25	22	27	24	22	26	24	22	21	21
5	32	26	22	20	31	26	22	20	25	22	19	24	21	19	23	21	19	18	18
6	29	24	20	17	28	23	20	17	22	19	17	22	19	17	21	19	17	16	16
7	27	21	18	15	26	21	18	15	20	17	15	20	17	15	19	17	15	14	14
8	25	20	16	14	25	19	16	13	19	16	13	18	15	13	18	15	13	12	12
9	24	18	14	12	23	18	14	12	17	14	12	17	14	12	16	14	12	11	11
10	22	17	13	11	22	16	13	11	16	13	11	16	13	11	15	13	11	10	10

POLAR GRAPH



Maximum Candela = 663.9 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Horizontal Cone Through Vertical Angle (0)