



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : A1-ZAKY-SNK-3W-27K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 2021-0519  
[TESTLAB] ALUZ  
[ISSUE DATE] 2021-0519  
[MANUFAC] ALUZ  
[LUMCAT] A1-ZAKY-SNK-3W-27K  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]

**CHARACTERISTICS**

Lumens Per Lamp	363 (1 lamp)
Total Lamp Lumens	363
Luminaire Lumens	362
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.07 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9125	10451	17259
55	7317	8625	16558
65	5279	6330	14960
75	3010	3726	11295
85	567	913	4896

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**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	124	124	124	124	124	124	124	124	124	124
<b>3</b>	124	122	122	124	122	124	122	124	124	122
<b>6</b>	122	122	122	122	122	122	122	122	122	122
<b>9</b>	122	122	122	122	122	122	122	122	122	122
<b>12</b>	121	121	121	121	121	121	121	121	121	121
<b>15</b>	119	119	119	119	119	119	119	119	119	119
<b>18</b>	117	117	117	117	117	117	117	117	117	117
<b>21</b>	115	115	115	115	115	115	115	115	115	115
<b>24</b>	112	112	112	112	112	112	112	112	112	112
<b>27</b>	109	109	109	109	109	109	109	109	109	109
<b>30</b>	106	106	106	106	106	106	106	106	106	106
<b>33</b>	103	102	103	103	103	103	103	103	103	103
<b>36</b>	99	99	99	99	99	99	99	99	99	99
<b>39</b>	94	94	94	94	94	94	96	96	96	96
<b>42</b>	90	90	90	90	90	91	91	91	91	91
<b>45</b>	84	84	84	84	84	85	85	85	85	85
<b>48</b>	79	78	79	79	79	79	81	81	81	81
<b>51</b>	73	73	73	73	75	75	75	75	75	75
<b>54</b>	69	67	69	67	69	69	70	70	70	70
<b>57</b>	61	61	61	61	63	63	64	64	64	64
<b>60</b>	57	55	55	55	57	57	58	58	58	58
<b>63</b>	51	51	51	49	51	51	51	52	52	52
<b>66</b>	43	43	43	43	43	43	45	45	45	45
<b>69</b>	37	37	37	37	37	37	39	39	39	39
<b>72</b>	31	31	31	31	31	31	31	31	31	31
<b>75</b>	24	24	24	24	24	24	24	24	24	24
<b>78</b>	16	16	16	16	18	16	16	16	18	18
<b>81</b>	12	12	12	12	12	12	12	12	12	12
<b>84</b>	6	6	6	6	6	6	6	6	6	6
<b>87</b>	0	3	3	3	3	3	3	3	3	3
<b>90</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
<b>0</b>	124	124	124	124	124	124	124	124	124	124
<b>3</b>	124	124	122	124	122	124	122	122	124	122
<b>6</b>	122	122	122	122	122	122	122	122	122	122
<b>9</b>	122	122	122	122	122	122	122	122	122	122
<b>12</b>	121	121	121	121	121	121	121	121	121	121
<b>15</b>	119	119	119	119	119	119	119	119	119	119
<b>18</b>	117	117	117	117	117	117	117	117	117	117
<b>21</b>	115	115	115	115	115	115	115	115	115	115
<b>24</b>	112	112	112	112	112	112	112	112	112	112
<b>27</b>	109	109	109	109	109	109	109	109	109	109
<b>30</b>	106	106	106	106	106	106	106	106	106	106
<b>33</b>	103	103	103	103	103	103	103	102	103	102
<b>36</b>	99	99	99	99	99	99	99	99	99	99
<b>39</b>	96	96	96	94	94	94	94	94	94	94
<b>42</b>	91	91	91	91	90	90	90	90	90	90
<b>45</b>	85	85	85	85	84	84	84	84	84	84
<b>48</b>	81	81	81	79	79	79	79	78	79	78
<b>51</b>	75	75	75	75	75	73	73	73	73	73
<b>54</b>	70	70	70	69	69	67	69	67	69	67

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**CANDELA TABULATION - (Cont.)**

57	64	64	64	63	63	61	61	61	61	61
60	58	58	58	57	57	55	55	55	57	55
63	52	52	51	51	51	49	51	51	51	51
66	45	45	45	43	43	43	43	43	43	43
69	39	39	39	37	37	37	37	37	37	37
72	31	31	31	31	31	31	31	31	31	31
75	24	24	24	24	24	24	24	24	24	24
78	18	16	16	16	18	16	16	16	16	16
81	12	12	12	12	12	12	12	12	12	12
84	6	6	6	6	6	6	6	6	6	6
87	3	3	3	3	3	3	3	3	0	3
90	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	124	124	124	124	124	124	124	124	124	124
3	122	124	122	124	122	124	124	122	124	124
6	122	122	122	122	122	122	122	122	122	122
9	122	122	122	122	122	122	122	122	122	122
12	121	121	121	121	121	121	121	121	121	121
15	119	119	119	119	119	119	119	119	119	119
18	117	117	117	117	117	117	117	117	117	117
21	115	115	115	115	115	115	115	115	115	115
24	112	112	112	112	112	112	112	112	112	112
27	109	109	109	109	109	109	109	109	109	109
30	106	106	106	106	106	106	106	106	106	106
33	103	103	103	103	103	103	103	103	103	103
36	99	99	99	99	99	99	99	99	99	99
39	94	94	94	94	96	96	96	96	96	96
42	90	90	90	91	91	91	91	91	91	91
45	84	84	84	85	85	85	85	85	85	85
48	79	79	79	79	81	81	81	81	81	81
51	73	73	75	75	75	75	75	75	75	75
54	69	67	69	69	70	70	70	70	70	70
57	61	61	63	63	64	64	64	64	64	64
60	55	55	57	57	58	58	58	58	58	58
63	51	49	51	51	51	52	52	52	52	52
66	43	43	43	43	45	45	45	45	45	45
69	37	37	37	37	39	39	39	39	39	39
72	31	31	31	31	31	31	31	31	31	31
75	24	24	24	24	24	24	24	24	24	24
78	16	16	18	16	16	16	18	18	18	16
81	12	12	12	12	12	12	12	12	12	12
84	6	6	6	6	6	6	6	6	6	6
87	3	3	3	3	3	3	3	3	3	3
90	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	124	124	124	124	124	124	124
3	122	124	122	124	122	122	124
6	122	122	122	122	122	122	122
9	122	122	122	122	122	122	122
12	121	121	121	121	121	121	121

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**CANDELA TABULATION - (Cont.)**

<b>15</b>	119	119	119	119	119	119	119
<b>18</b>	117	117	117	117	117	117	117
<b>21</b>	115	115	115	115	115	115	115
<b>24</b>	112	112	112	112	112	112	112
<b>27</b>	109	109	109	109	109	109	109
<b>30</b>	106	106	106	106	106	106	106
<b>33</b>	103	103	103	103	103	102	103
<b>36</b>	99	99	99	99	99	99	99
<b>39</b>	96	94	94	94	94	94	94
<b>42</b>	91	91	90	90	90	90	90
<b>45</b>	85	85	84	84	84	84	84
<b>48</b>	81	79	79	79	79	78	79
<b>51</b>	75	75	75	73	73	73	73
<b>54</b>	70	69	69	67	69	67	69
<b>57</b>	64	63	63	61	61	61	61
<b>60</b>	58	57	57	55	55	55	57
<b>63</b>	51	51	51	49	51	51	51
<b>66</b>	45	43	43	43	43	43	43
<b>69</b>	39	37	37	37	37	37	37
<b>72</b>	31	31	31	31	31	31	31
<b>75</b>	24	24	24	24	24	24	24
<b>78</b>	16	16	18	16	16	16	16
<b>81</b>	12	12	12	12	12	12	12
<b>84</b>	6	6	6	6	6	6	6
<b>87</b>	3	3	3	3	3	3	0
<b>90</b>	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	36.99	10.20	10.20
0-30	96.53	26.60	26.70
0-40	152.69	42.10	42.20
0-60	284.38	78.30	78.60
0-80	352.25	97.00	97.40
0-90	361.72	99.60	100.00
10-90	352.26	97.00	97.40
20-40	115.71	31.90	32.00
20-50	174.90	48.20	48.40
40-70	173.73	47.90	48.00
60-80	67.87	18.70	18.80
70-80	25.82	7.10	7.10
80-90	9.47	2.60	2.60
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	361.72	99.60	100.00

Total Luminaire Efficiency = 99.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.46
10-20	27.52
20-30	59.55
30-40	56.16
40-50	59.19
50-60	72.49
60-70	42.05
70-80	25.82
80-90	9.47
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

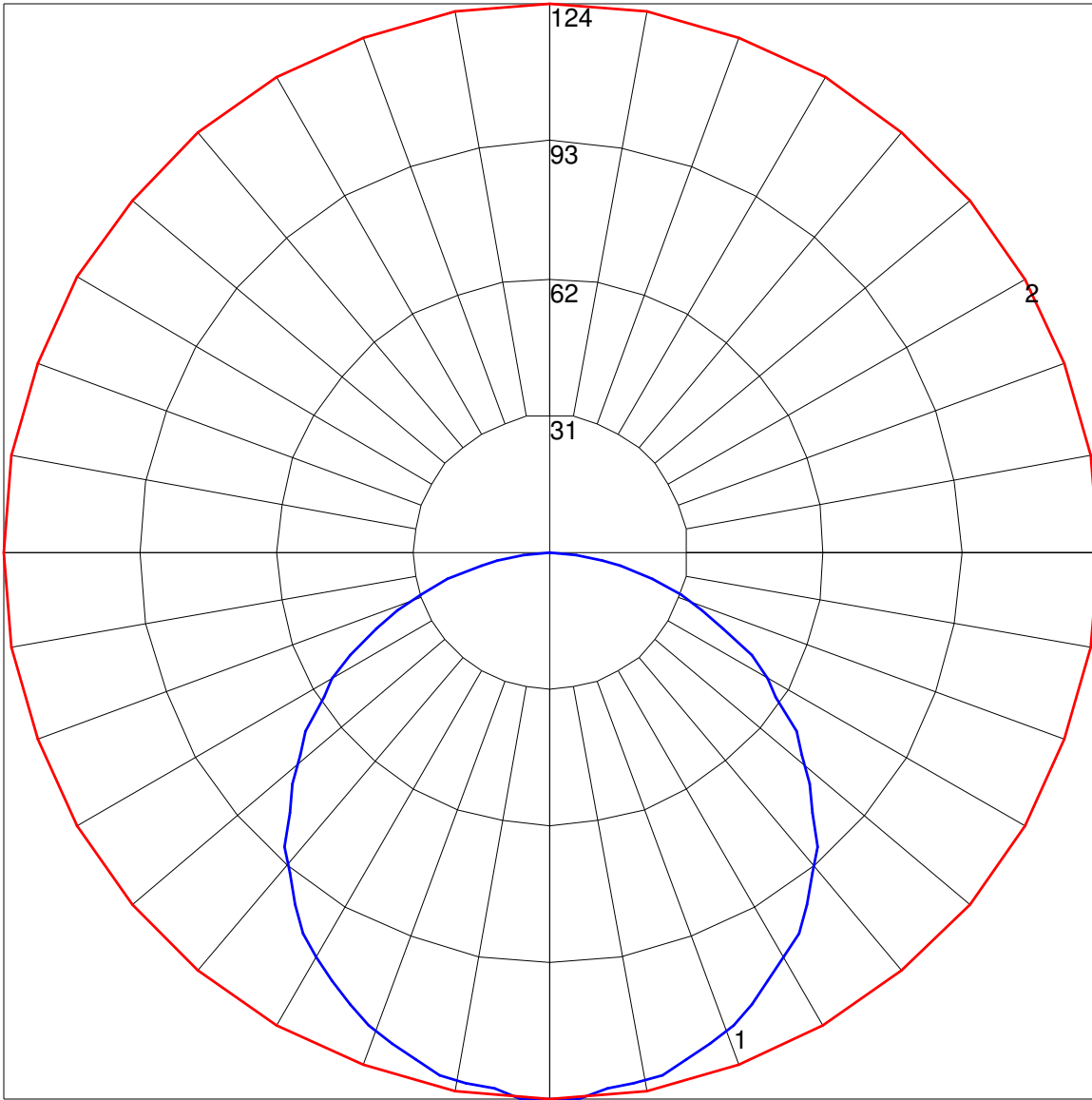
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	74	80	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	53	65	58	52	63	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 124 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)