



IES INDOOR REPORT
PHOTOMETRIC FILENAME : A1-ZYZY-STN-35K-SF-6W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2021-0329
[TESTLAB] ALUZ
[ISSUE DATE] 2021-0329
[MANUFAC] ALUZ
[LUMCAT] A1-ZYZY-STN-35K-SF-6W
[LUMINAIRE] A1-ZYZY-STN-35K-SF-6W
[LAMP CAT] A1-ZYZY-STN-35K-SF-6W
[LAMP] A1-ZYZY-STN-35K-SF-6W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	6
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)	0.16 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.16 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8414	9209	14287
55	6763	7524	13102
65	4910	5551	11191
75	2716	3208	7907
85	41	146	2669

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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>
0	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067
3	256.455	255.336	255.492	255.436	255.667	255.889	255.578	255.635	255.628	255.735
6	255.364	254.339	254.187	254.293	254.974	254.775	254.310	254.353	254.560	254.631
9	253.831	252.547	252.615	252.288	253.031	252.965	252.710	252.726	252.738	252.579
12	251.239	249.940	250.069	249.701	250.139	250.442	250.105	250.128	250.099	250.457
15	247.703	246.633	246.562	246.492	246.856	247.077	246.653	246.818	246.912	246.957
18	243.830	242.525	242.499	242.336	242.926	242.890	243.010	242.694	242.945	242.950
21	238.631	237.646	237.505	237.632	238.381	237.995	238.169	237.884	238.222	238.196
24	233.044	231.940	231.962	232.144	232.628	232.648	232.765	232.460	232.734	232.696
27	227.277	225.875	225.856	225.957	226.546	226.601	226.621	226.391	226.557	226.562
30	220.411	218.668	218.942	219.111	219.696	219.622	219.589	219.631	219.793	219.789
33	212.713	211.486	211.455	211.530	212.211	212.255	212.207	212.050	212.244	212.339
36	204.290	203.284	203.445	203.528	204.130	203.931	204.138	204.004	204.337	204.331
39	195.548	194.664	194.686	194.815	195.445	195.215	195.549	195.411	195.633	195.554
42	186.698	185.310	185.519	185.560	186.125	186.070	186.294	186.106	186.415	186.309
45	176.544	175.310	175.711	175.720	176.434	176.269	176.448	176.396	176.455	176.561
48	166.006	164.890	165.258	165.209	165.925	165.680	166.044	165.820	165.898	165.960
51	154.962	153.553	154.345	154.027	154.860	154.530	154.971	154.529	154.991	154.757
54	143.505	142.097	142.702	142.406	143.236	142.846	143.392	142.846	143.379	143.039
57	130.879	130.079	130.379	130.249	131.090	130.676	131.223	130.732	131.301	130.786
60	118.323	117.073	117.765	117.453	118.276	117.802	118.275	117.842	118.245	117.876
63	104.955	103.966	104.482	104.507	104.991	104.556	104.866	104.447	104.846	104.562
66	91.754	90.384	91.072	90.840	91.355	90.869	91.470	90.947	91.266	90.915
69	77.703	76.570	77.322	77.035	77.579	77.098	77.603	76.904	77.323	76.898
72	63.685	62.743	63.554	62.940	63.696	62.966	63.647	62.936	63.397	62.791
75	48.822	48.446	49.435	49.309	49.913	49.380	49.874	49.081	49.284	49.000
78	35.624	33.631	35.302	35.191	36.074	36.274	36.667	36.097	36.128	35.778
81	1.427	3.968	10.050	13.283	21.107	23.124	24.356	23.603	23.824	23.194
84	0.822	0.660	1.120	1.058	1.391	3.825	11.005	12.974	13.292	12.536
87	0.297	0.271	0.400	0.517	0.553	0.635	0.868	2.425	4.611	4.350
90	0.114	0.137	0.095	0.042	0.103	0.105	0.144	0.086	0.166	0.290

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>
0	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067
3	255.628	255.635	255.578	255.889	255.667	255.436	255.492	255.336	256.455	255.336
6	254.560	254.353	254.310	254.775	254.974	254.293	254.187	254.339	255.364	254.339
9	252.738	252.726	252.710	252.965	253.031	252.288	252.615	252.547	253.831	252.547
12	250.099	250.128	250.105	250.442	250.139	249.701	250.069	249.940	251.239	249.940
15	246.912	246.818	246.653	247.077	246.856	246.492	246.562	246.633	247.703	246.633
18	242.945	242.694	243.010	242.890	242.926	242.336	242.499	242.525	243.830	242.525
21	238.222	237.884	238.169	237.995	238.381	237.632	237.505	237.646	238.631	237.646
24	232.734	232.460	232.765	232.648	232.628	232.144	231.962	231.940	233.044	231.940
27	226.557	226.391	226.621	226.601	226.546	225.957	225.856	225.875	227.277	225.875
30	219.793	219.631	219.589	219.622	219.696	219.111	218.942	218.668	220.411	218.668
33	212.244	212.050	212.207	212.255	212.211	211.530	211.455	211.486	212.713	211.486
36	204.337	204.004	204.138	203.931	204.130	203.528	203.445	203.284	204.290	203.284
39	195.633	195.411	195.549	195.215	195.445	194.815	194.686	194.664	195.548	194.664
42	186.415	186.106	186.294	186.070	186.125	185.560	185.519	185.310	186.698	185.310
45	176.455	176.396	176.448	176.269	176.434	175.720	175.711	175.310	176.544	175.310
48	165.898	165.820	166.044	165.680	165.925	165.209	165.258	164.890	166.006	164.890
51	154.991	154.529	154.971	154.530	154.860	154.027	154.345	153.553	154.962	153.553
54	143.379	142.846	143.392	142.846	143.236	142.406	142.702	142.097	143.505	142.097

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CANDELA TABULATION - (Cont.)

57	131.301	130.732	131.223	130.676	131.090	130.249	130.379	130.079	130.879	130.079
60	118.245	117.842	118.275	117.802	118.276	117.453	117.765	117.073	118.323	117.073
63	104.846	104.447	104.866	104.556	104.991	104.507	104.482	103.966	104.955	103.966
66	91.266	90.947	91.470	90.869	91.355	90.840	91.072	90.384	91.754	90.384
69	77.323	76.904	77.603	77.098	77.579	77.035	77.322	76.570	77.703	76.570
72	63.397	62.936	63.647	62.966	63.696	62.940	63.554	62.743	63.685	62.743
75	49.284	49.081	49.874	49.380	49.913	49.309	49.435	48.446	48.822	48.446
78	36.128	36.097	36.667	36.274	36.074	35.191	35.302	33.631	35.624	33.631
81	23.824	23.603	24.356	23.124	21.107	13.283	10.050	3.968	1.427	3.968
84	13.292	12.974	11.005	3.825	1.391	1.058	1.120	0.660	0.822	0.660
87	4.611	2.425	0.868	0.635	0.553	0.517	0.400	0.271	0.297	0.271
90	0.166	0.086	0.144	0.105	0.103	0.042	0.095	0.137	0.114	0.137

Vert. Angles **Horizontal 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	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067	256.067
3	255.492	255.436	255.667	255.889	255.578	255.635	255.628	255.735	255.628	255.635
6	254.187	254.293	254.974	254.775	254.310	254.353	254.560	254.631	254.560	254.353
9	252.615	252.288	253.031	252.965	252.710	252.726	252.738	252.579	252.738	252.726
12	250.069	249.701	250.139	250.442	250.105	250.128	250.099	250.457	250.099	250.128
15	246.562	246.492	246.856	247.077	246.653	246.818	246.912	246.957	246.912	246.818
18	242.499	242.336	242.926	242.890	243.010	242.694	242.945	242.950	242.945	242.694
21	237.505	237.632	238.381	237.995	238.169	237.884	238.222	238.196	238.222	237.884
24	231.962	232.144	232.628	232.648	232.765	232.460	232.734	232.696	232.734	232.460
27	225.856	225.957	226.546	226.601	226.621	226.391	226.557	226.562	226.557	226.391
30	218.942	219.111	219.696	219.622	219.589	219.631	219.793	219.789	219.793	219.631
33	211.455	211.530	212.211	212.255	212.207	212.050	212.244	212.339	212.244	212.050
36	203.445	203.528	204.130	203.931	204.138	204.004	204.337	204.331	204.337	204.004
39	194.686	194.815	195.445	195.215	195.549	195.411	195.633	195.554	195.633	195.411
42	185.519	185.560	186.125	186.070	186.294	186.106	186.415	186.309	186.415	186.106
45	175.711	175.720	176.434	176.269	176.448	176.396	176.455	176.561	176.455	176.396
48	165.258	165.209	165.925	165.680	166.044	165.820	165.898	165.960	165.898	165.820
51	154.345	154.027	154.860	154.530	154.971	154.529	154.991	154.757	154.991	154.529
54	142.702	142.406	143.236	142.846	143.392	142.846	143.379	143.039	143.379	142.846
57	130.379	130.249	131.090	130.676	131.223	130.732	131.301	130.786	131.301	130.732
60	117.765	117.453	118.276	117.802	118.275	117.842	118.245	117.876	118.245	117.842
63	104.482	104.507	104.991	104.556	104.866	104.447	104.846	104.562	104.846	104.447
66	91.072	90.840	91.355	90.869	91.470	90.947	91.266	90.915	91.266	90.947
69	77.322	77.035	77.579	77.098	77.603	76.904	77.323	76.898	77.323	76.904
72	63.554	62.940	63.696	62.966	63.647	62.936	63.397	62.791	63.397	62.936
75	49.435	49.309	49.913	49.380	49.874	49.081	49.284	49.000	49.284	49.081
78	35.302	35.191	36.074	36.274	36.667	36.097	36.128	35.778	36.128	36.097
81	10.050	13.283	21.107	23.124	24.356	23.603	23.824	23.194	23.824	23.603
84	1.120	1.058	1.391	3.825	11.005	12.974	13.292	12.536	13.292	12.974
87	0.400	0.517	0.553	0.635	0.868	2.425	4.611	4.350	4.611	2.425
90	0.095	0.042	0.103	0.105	0.144	0.086	0.166	0.290	0.166	0.086

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	256.067	256.067	256.067	256.067	256.067	256.067	256.067
3	255.578	255.889	255.667	255.436	255.492	255.336	256.455
6	254.310	254.775	254.974	254.293	254.187	254.339	255.364
9	252.710	252.965	253.031	252.288	252.615	252.547	253.831
12	250.105	250.442	250.139	249.701	250.069	249.940	251.239

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15	246.653	247.077	246.856	246.492	246.562	246.633	247.703
18	243.010	242.890	242.926	242.336	242.499	242.525	243.830
21	238.169	237.995	238.381	237.632	237.505	237.646	238.631
24	232.765	232.648	232.628	232.144	231.962	231.940	233.044
27	226.621	226.601	226.546	225.957	225.856	225.875	227.277
30	219.589	219.622	219.696	219.111	218.942	218.668	220.411
33	212.207	212.255	212.211	211.530	211.455	211.486	212.713
36	204.138	203.931	204.130	203.528	203.445	203.284	204.290
39	195.549	195.215	195.445	194.815	194.686	194.664	195.548
42	186.294	186.070	186.125	185.560	185.519	185.310	186.698
45	176.448	176.269	176.434	175.720	175.711	175.310	176.544
48	166.044	165.680	165.925	165.209	165.258	164.890	166.006
51	154.971	154.530	154.860	154.027	154.345	153.553	154.962
54	143.392	142.846	143.236	142.406	142.702	142.097	143.505
57	131.223	130.676	131.090	130.249	130.379	130.079	130.879
60	118.275	117.802	118.276	117.453	117.765	117.073	118.323
63	104.866	104.556	104.991	104.507	104.482	103.966	104.955
66	91.470	90.869	91.355	90.840	91.072	90.384	91.754
69	77.603	77.098	77.579	77.035	77.322	76.570	77.703
72	63.647	62.966	63.696	62.940	63.554	62.743	63.685
75	49.874	49.380	49.913	49.309	49.435	48.446	48.822
78	36.667	36.274	36.074	35.191	35.302	33.631	35.624
81	24.356	23.124	21.107	13.283	10.050	3.968	1.427
84	11.005	3.825	1.391	1.058	1.120	0.660	0.822
87	0.868	0.635	0.553	0.517	0.400	0.271	0.297
90	0.144	0.105	0.103	0.042	0.095	0.137	0.114

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	76.70	N.A.	10.30
0-30	200.19	N.A.	26.90
0-40	315.98	N.A.	42.50
0-60	589.28	N.A.	79.30
0-80	729.15	N.A.	98.10
0-90	742.91	N.A.	100.00
10-90	723.23	N.A.	97.40
20-40	239.27	N.A.	32.20
20-50	361.77	N.A.	48.70
40-70	360.07	N.A.	48.50
60-80	139.88	N.A.	18.80
70-80	53.11	N.A.	7.10
80-90	13.75	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	742.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.68
10-20	57.03
20-30	123.48
30-40	115.79
40-50	122.50
50-60	150.80
60-70	86.77
70-80	53.11
80-90	13.75
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

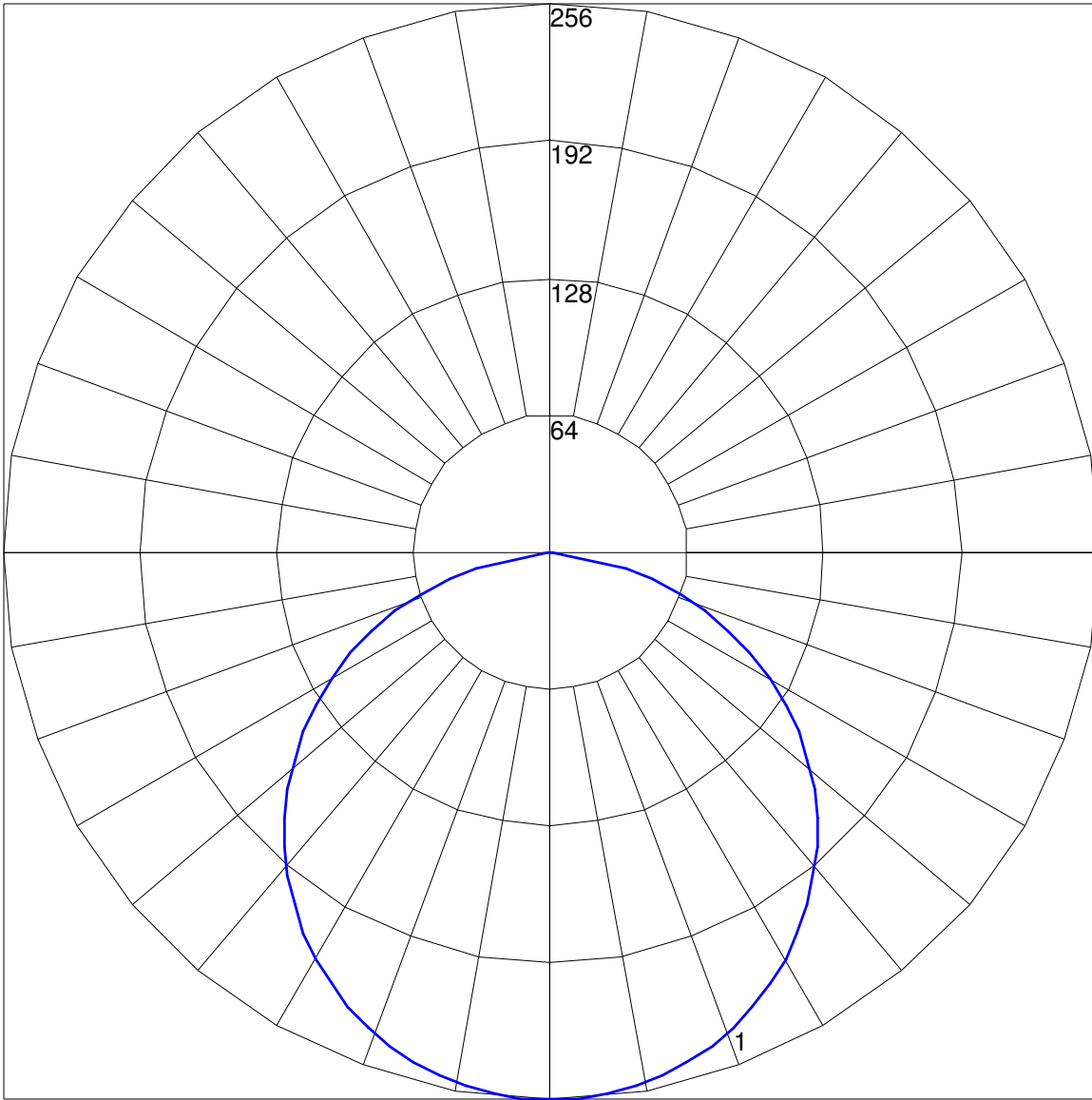
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 256.455 Located At Horizontal Angle = 0, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)