



IES INDOOR REPORT
PHOTOMETRIC FILENAME : A1-ZYZY-STN-35K-SF-8W.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-8W
[LUMINAIRE] A1-ZYZY-STN-35K-SF-8W
[LAMP CAT] A1-ZYZY-STN-35K-SF-8W
[LAMP] A1-ZYZY-STN-35K-SF-8W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	8
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	11219	12279	19049
55	9018	10032	17469
65	6546	7401	14921
75	3621	4278	10543
85	55	195	3559

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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	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422
3	341.940	340.449	340.656	340.582	340.890	341.186	340.770	340.846	340.837	340.980
6	340.484	339.119	338.916	339.057	339.966	339.700	339.081	339.138	339.413	339.509
9	338.440	336.729	336.820	336.384	337.375	337.286	336.946	336.969	336.984	336.772
12	334.985	333.253	333.425	332.936	333.519	333.922	333.473	333.505	333.464	333.942
15	330.271	328.843	328.750	328.656	329.141	329.436	328.871	329.090	329.215	329.277
18	325.107	323.367	323.333	323.114	323.901	323.853	324.014	323.593	323.926	323.934
21	318.175	316.861	316.673	316.842	317.840	317.327	317.558	317.178	317.629	317.594
24	310.726	309.253	309.282	309.524	310.170	310.196	310.354	309.947	310.313	310.261
27	303.036	301.167	301.141	301.277	302.061	302.135	302.161	301.854	302.076	302.083
30	293.882	291.557	291.922	292.149	292.928	292.830	292.786	292.842	293.057	293.051
33	283.616	281.981	281.941	282.040	282.948	283.007	282.943	282.734	282.992	283.119
36	272.387	271.045	271.260	271.371	272.172	271.908	272.184	272.005	272.449	272.442
39	260.731	259.552	259.581	259.753	260.594	260.287	260.732	260.549	260.844	260.738
42	248.931	247.080	247.360	247.413	248.167	248.093	248.392	248.141	248.553	248.411
45	235.392	233.747	234.280	234.294	235.246	235.025	235.265	235.194	235.274	235.414
48	221.341	219.854	220.344	220.279	221.234	220.906	221.392	221.094	221.198	221.280
51	206.616	204.737	205.793	205.369	206.481	206.040	206.629	206.038	206.655	206.343
54	191.341	189.462	190.269	189.875	190.982	190.460	191.190	190.462	191.173	190.718
57	174.505	173.440	173.838	173.666	174.787	174.235	174.963	174.309	175.067	174.381
60	157.764	156.098	157.021	156.604	157.701	157.069	157.700	157.123	157.659	157.168
63	139.941	138.620	139.309	139.342	139.988	139.409	139.822	139.263	139.794	139.416
66	122.338	120.512	121.429	121.119	121.807	121.159	121.959	121.262	121.688	121.220
69	103.604	102.093	103.096	102.714	103.439	102.797	103.471	102.538	103.098	102.531
72	84.914	83.657	84.739	83.920	84.928	83.955	84.863	83.914	84.529	83.721
75	65.095	64.595	65.913	65.746	66.550	65.839	66.499	65.441	65.713	65.334
78	47.499	44.841	47.069	46.921	48.099	48.366	48.889	48.129	48.171	47.703
81	1.902	5.290	13.400	17.709	28.143	30.831	32.475	31.470	31.764	30.924
84	1.096	0.879	1.493	1.410	1.856	5.100	14.673	17.298	17.723	16.715
87	0.396	0.361	0.533	0.690	0.737	0.847	1.157	3.233	6.149	5.800
90	0.152	0.182	0.127	0.056	0.138	0.140	0.192	0.115	0.222	0.386

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	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422
3	340.837	340.846	340.770	341.186	340.890	340.582	340.656	340.449	341.940	340.449
6	339.413	339.138	339.081	339.700	339.966	339.057	338.916	339.119	340.484	339.119
9	336.984	336.969	336.946	337.286	337.375	336.384	336.820	336.729	338.440	336.729
12	333.464	333.505	333.473	333.922	333.519	332.936	333.425	333.253	334.985	333.253
15	329.215	329.090	328.871	329.436	329.141	328.656	328.750	328.843	330.271	328.843
18	323.926	323.593	324.014	323.853	323.901	323.114	323.333	323.367	325.107	323.367
21	317.629	317.178	317.558	317.327	317.840	316.842	316.673	316.861	318.175	316.861
24	310.313	309.947	310.354	310.196	310.170	309.524	309.282	309.253	310.726	309.253
27	302.076	301.854	302.161	302.135	302.061	301.277	301.141	301.167	303.036	301.167
30	293.057	292.842	292.786	292.830	292.928	292.149	291.922	291.557	293.882	291.557
33	282.992	282.734	282.943	283.007	282.948	282.040	281.941	281.981	283.616	281.981
36	272.449	272.005	272.184	271.908	272.172	271.371	271.260	271.045	272.387	271.045
39	260.844	260.549	260.732	260.287	260.594	259.753	259.581	259.552	260.731	259.552
42	248.553	248.141	248.392	248.093	248.167	247.413	247.360	247.080	248.931	247.080
45	235.274	235.194	235.265	235.025	235.246	234.294	234.280	233.747	235.392	233.747
48	221.198	221.094	221.392	220.906	221.234	220.279	220.344	219.854	221.341	219.854
51	206.655	206.038	206.629	206.040	206.481	205.369	205.793	204.737	206.616	204.737
54	191.173	190.462	191.190	190.460	190.982	189.875	190.269	189.462	191.341	189.462

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CANDELA TABULATION - (Cont.)

57	175.067	174.309	174.963	174.235	174.787	173.666	173.838	173.440	174.505	173.440
60	157.659	157.123	157.700	157.069	157.701	156.604	157.021	156.098	157.764	156.098
63	139.794	139.263	139.822	139.409	139.988	139.342	139.309	138.620	139.941	138.620
66	121.688	121.262	121.959	121.159	121.807	121.119	121.429	120.512	122.338	120.512
69	103.098	102.538	103.471	102.797	103.439	102.714	103.096	102.093	103.604	102.093
72	84.529	83.914	84.863	83.955	84.928	83.920	84.739	83.657	84.914	83.657
75	65.713	65.441	66.499	65.839	66.550	65.746	65.913	64.595	65.095	64.595
78	48.171	48.129	48.889	48.366	48.099	46.921	47.069	44.841	47.499	44.841
81	31.764	31.470	32.475	30.831	28.143	17.709	13.400	5.290	1.902	5.290
84	17.723	17.298	14.673	5.100	1.856	1.410	1.493	0.879	1.096	0.879
87	6.149	3.233	1.157	0.847	0.737	0.690	0.533	0.361	0.396	0.361
90	0.222	0.115	0.192	0.140	0.138	0.056	0.127	0.182	0.152	0.182

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	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422	341.422
3	340.656	340.582	340.890	341.186	340.770	340.846	340.837	340.980	340.837	340.846
6	338.916	339.057	339.966	339.700	339.081	339.138	339.413	339.509	339.413	339.138
9	336.820	336.384	337.375	337.286	336.946	336.969	336.984	336.772	336.984	336.969
12	333.425	332.936	333.519	333.922	333.473	333.505	333.464	333.942	333.464	333.505
15	328.750	328.656	329.141	329.436	328.871	329.090	329.215	329.277	329.215	329.090
18	323.333	323.114	323.901	323.853	324.014	323.593	323.926	323.934	323.926	323.593
21	316.673	316.842	317.840	317.327	317.558	317.178	317.629	317.594	317.629	317.178
24	309.282	309.524	310.170	310.196	310.354	309.947	310.313	310.261	310.313	309.947
27	301.141	301.277	302.061	302.135	302.161	301.854	302.076	302.083	302.076	301.854
30	291.922	292.149	292.928	292.830	292.786	292.842	293.057	293.051	293.057	292.842
33	281.941	282.040	282.948	283.007	282.943	282.734	282.992	283.119	282.992	282.734
36	271.260	271.371	272.172	271.908	272.184	272.005	272.449	272.442	272.449	272.005
39	259.581	259.753	260.594	260.287	260.732	260.549	260.844	260.738	260.844	260.549
42	247.360	247.413	248.167	248.093	248.392	248.141	248.553	248.411	248.553	248.141
45	234.280	234.294	235.246	235.025	235.265	235.194	235.274	235.414	235.274	235.194
48	220.344	220.279	221.234	220.906	221.392	221.094	221.198	221.280	221.198	221.094
51	205.793	205.369	206.481	206.040	206.629	206.038	206.655	206.343	206.655	206.038
54	190.269	189.875	190.982	190.460	191.190	190.462	191.173	190.718	191.173	190.462
57	173.838	173.666	174.787	174.235	174.963	174.309	175.067	174.381	175.067	174.309
60	157.021	156.604	157.701	157.069	157.700	157.123	157.659	157.168	157.659	157.123
63	139.309	139.342	139.988	139.409	139.822	139.263	139.794	139.416	139.794	139.263
66	121.429	121.119	121.807	121.159	121.959	121.262	121.688	121.220	121.688	121.262
69	103.096	102.714	103.439	102.797	103.471	102.538	103.098	102.531	103.098	102.538
72	84.739	83.920	84.928	83.955	84.863	83.914	84.529	83.721	84.529	83.914
75	65.913	65.746	66.550	65.839	66.499	65.441	65.713	65.334	65.713	65.441
78	47.069	46.921	48.099	48.366	48.889	48.129	48.171	47.703	48.171	48.129
81	13.400	17.709	28.143	30.831	32.475	31.470	31.764	30.924	31.764	31.470
84	1.493	1.410	1.856	5.100	14.673	17.298	17.723	16.715	17.723	17.298
87	0.533	0.690	0.737	0.847	1.157	3.233	6.149	5.800	6.149	3.233
90	0.127	0.056	0.138	0.140	0.192	0.115	0.222	0.386	0.222	0.115

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	341.422	341.422	341.422	341.422	341.422	341.422	341.422
3	340.770	341.186	340.890	340.582	340.656	340.449	341.940
6	339.081	339.700	339.966	339.057	338.916	339.119	340.484
9	336.946	337.286	337.375	336.384	336.820	336.729	338.440
12	333.473	333.922	333.519	332.936	333.425	333.253	334.985

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CANDELA TABULATION - (Cont.)

15	328.871	329.436	329.141	328.656	328.750	328.843	330.271
18	324.014	323.853	323.901	323.114	323.333	323.367	325.107
21	317.558	317.327	317.840	316.842	316.673	316.861	318.175
24	310.354	310.196	310.170	309.524	309.282	309.253	310.726
27	302.161	302.135	302.061	301.277	301.141	301.167	303.036
30	292.786	292.830	292.928	292.149	291.922	291.557	293.882
33	282.943	283.007	282.948	282.040	281.941	281.981	283.616
36	272.184	271.908	272.172	271.371	271.260	271.045	272.387
39	260.732	260.287	260.594	259.753	259.581	259.552	260.731
42	248.392	248.093	248.167	247.413	247.360	247.080	248.931
45	235.265	235.025	235.246	234.294	234.280	233.747	235.392
48	221.392	220.906	221.234	220.279	220.344	219.854	221.341
51	206.629	206.040	206.481	205.369	205.793	204.737	206.616
54	191.190	190.460	190.982	189.875	190.269	189.462	191.341
57	174.963	174.235	174.787	173.666	173.838	173.440	174.505
60	157.700	157.069	157.701	156.604	157.021	156.098	157.764
63	139.822	139.409	139.988	139.342	139.309	138.620	139.941
66	121.959	121.159	121.807	121.119	121.429	120.512	122.338
69	103.471	102.797	103.439	102.714	103.096	102.093	103.604
72	84.863	83.955	84.928	83.920	84.739	83.657	84.914
75	66.499	65.839	66.550	65.746	65.913	64.595	65.095
78	48.889	48.366	48.099	46.921	47.069	44.841	47.499
81	32.475	30.831	28.143	17.709	13.400	5.290	1.902
84	14.673	5.100	1.856	1.410	1.493	0.879	1.096
87	1.157	0.847	0.737	0.690	0.533	0.361	0.396
90	0.192	0.140	0.138	0.056	0.127	0.182	0.152

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	102.27	N.A.	10.30
0-30	266.92	N.A.	26.90
0-40	421.30	N.A.	42.50
0-60	785.70	N.A.	79.30
0-80	972.20	N.A.	98.10
0-90	990.54	N.A.	100.00
10-90	964.31	N.A.	97.40
20-40	319.03	N.A.	32.20
20-50	482.35	N.A.	48.70
40-70	480.09	N.A.	48.50
60-80	186.50	N.A.	18.80
70-80	70.81	N.A.	7.10
80-90	18.34	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	990.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.24
10-20	76.04
20-30	164.65
30-40	154.38
40-50	163.33
50-60	201.07
60-70	115.69
70-80	70.81
80-90	18.34
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

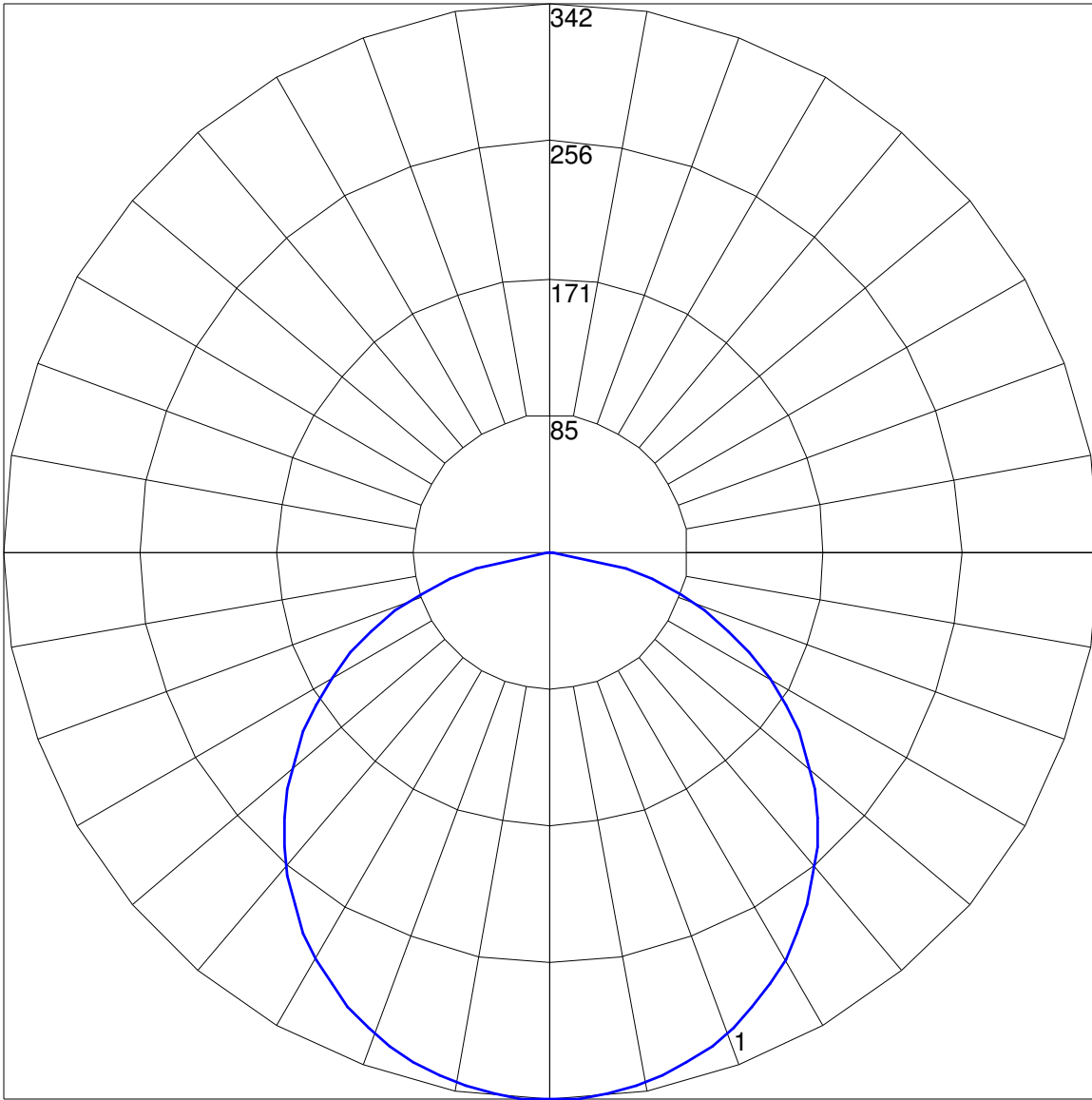
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	116	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	95	106	101	97	94	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	77	96	88	82	76	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	64	87	77	69	63	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	53	53	79	68	60	53	53	65	58	52	63	57	52	61	55	51	49
5	75	62	52	46	46	73	61	52	45	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	40	67	54	46	39	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	35	62	49	41	35	35	48	40	34	46	39	34	45	39	34	32
8	59	45	37	31	31	58	45	36	31	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	28	54	41	33	27	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	25	50	38	30	25	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 341.94 Located At Horizontal Angle = 0, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)