



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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	9616	10525	16328
55	7729	8599	14974
65	5611	6344	12789
75	3104	3667	9037
85	47	167	3051

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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	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648
3	293.092	291.813	291.991	291.927	292.191	292.445	292.088	292.154	292.146	292.268
6	291.844	290.673	290.499	290.621	291.399	291.171	290.641	290.690	290.926	291.008
9	290.092	288.625	288.703	288.329	289.178	289.103	288.811	288.830	288.843	288.662
12	287.130	285.646	285.793	285.374	285.873	286.219	285.834	285.861	285.827	286.236
15	283.089	281.866	281.786	281.705	282.121	282.374	281.889	282.077	282.185	282.237
18	278.663	277.172	277.142	276.955	277.630	277.589	277.727	277.365	277.651	277.658
21	272.721	271.595	271.434	271.579	272.435	271.994	272.192	271.867	272.254	272.224
24	266.336	265.074	265.099	265.307	265.860	265.883	266.018	265.669	265.982	265.938
27	259.745	258.143	258.121	258.237	258.910	258.973	258.995	258.732	258.923	258.929
30	251.899	249.906	250.219	250.413	251.081	250.997	250.959	251.007	251.192	251.186
33	243.100	241.698	241.664	241.748	242.527	242.577	242.522	242.343	242.564	242.673
36	233.474	232.325	232.508	232.604	233.291	233.064	233.300	233.147	233.528	233.522
39	223.484	222.473	222.498	222.646	223.367	223.103	223.484	223.328	223.580	223.490
42	213.369	211.783	212.023	212.069	212.714	212.651	212.908	212.693	213.046	212.924
45	201.764	200.354	200.812	200.823	201.639	201.450	201.656	201.595	201.663	201.784
48	189.721	188.447	188.867	188.810	189.629	189.348	189.764	189.509	189.599	189.668
51	177.099	175.489	176.394	176.030	176.984	176.606	177.110	176.604	177.133	176.865
54	164.006	162.396	163.088	162.750	163.699	163.252	163.877	163.253	163.862	163.472
57	149.576	148.663	149.004	148.856	149.817	149.345	149.969	149.408	150.058	149.470
60	135.227	133.799	134.589	134.232	135.173	134.630	135.171	134.677	135.137	134.715
63	119.949	118.817	119.408	119.436	119.990	119.493	119.848	119.369	119.824	119.499
66	104.861	103.296	104.082	103.817	104.406	103.850	104.537	103.939	104.304	103.903
69	88.803	87.509	88.368	88.040	88.662	88.112	88.689	87.890	88.370	87.884
72	72.783	71.706	72.634	71.931	72.795	71.961	72.740	71.927	72.454	71.761
75	55.796	55.367	56.497	56.354	57.043	56.434	56.999	56.093	56.325	56.000
78	40.713	38.435	40.345	40.218	41.228	41.456	41.905	41.254	41.289	40.889
81	1.631	4.535	11.486	15.179	24.122	26.426	27.836	26.975	27.227	26.507
84	0.939	0.754	1.280	1.208	1.591	4.372	12.577	14.827	15.191	14.327
87	0.339	0.310	0.457	0.591	0.632	0.726	0.992	2.771	5.270	4.972
90	0.131	0.156	0.109	0.048	0.119	0.120	0.164	0.098	0.191	0.331

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	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648
3	292.146	292.154	292.088	292.445	292.191	291.927	291.991	291.813	293.092	291.813
6	290.926	290.690	290.641	291.171	291.399	290.621	290.499	290.673	291.844	290.673
9	288.843	288.830	288.811	289.103	289.178	288.329	288.703	288.625	290.092	288.625
12	285.827	285.861	285.834	286.219	285.873	285.374	285.793	285.646	287.130	285.646
15	282.185	282.077	281.889	282.374	282.121	281.705	281.786	281.866	283.089	281.866
18	277.651	277.365	277.727	277.589	277.630	276.955	277.142	277.172	278.663	277.172
21	272.254	271.867	272.192	271.994	272.435	271.579	271.434	271.595	272.721	271.595
24	265.982	265.669	266.018	265.883	265.860	265.307	265.099	265.074	266.336	265.074
27	258.923	258.732	258.995	258.973	258.910	258.237	258.121	258.143	259.745	258.143
30	251.192	251.007	250.959	250.997	251.081	250.413	250.219	249.906	251.899	249.906
33	242.564	242.343	242.522	242.577	242.527	241.748	241.664	241.698	243.100	241.698
36	233.528	233.147	233.300	233.064	233.291	232.604	232.508	232.325	233.474	232.325
39	223.580	223.328	223.484	223.103	223.367	222.646	222.498	222.473	223.484	222.473
42	213.046	212.693	212.908	212.651	212.714	212.069	212.023	211.783	213.369	211.783
45	201.663	201.595	201.656	201.450	201.639	200.823	200.812	200.354	201.764	200.354
48	189.599	189.509	189.764	189.348	189.629	188.810	188.867	188.447	189.721	188.447
51	177.133	176.604	177.110	176.606	176.984	176.030	176.394	175.489	177.099	175.489
54	163.862	163.253	163.877	163.252	163.699	162.750	163.088	162.396	164.006	162.396

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CANDELA TABULATION - (Cont.)

57	150.058	149.408	149.969	149.345	149.817	148.856	149.004	148.663	149.576	148.663
60	135.137	134.677	135.171	134.630	135.173	134.232	134.589	133.799	135.227	133.799
63	119.824	119.369	119.848	119.493	119.990	119.436	119.408	118.817	119.949	118.817
66	104.304	103.939	104.537	103.850	104.406	103.817	104.082	103.296	104.861	103.296
69	88.370	87.890	88.689	88.112	88.662	88.040	88.368	87.509	88.803	87.509
72	72.454	71.927	72.740	71.961	72.795	71.931	72.634	71.706	72.783	71.706
75	56.325	56.093	56.999	56.434	57.043	56.354	56.497	55.367	55.796	55.367
78	41.289	41.254	41.905	41.456	41.228	40.218	40.345	38.435	40.713	38.435
81	27.227	26.975	27.836	26.426	24.122	15.179	11.486	4.535	1.631	4.535
84	15.191	14.827	12.577	4.372	1.591	1.208	1.280	0.754	0.939	0.754
87	5.270	2.771	0.992	0.726	0.632	0.591	0.457	0.310	0.339	0.310
90	0.191	0.098	0.164	0.120	0.119	0.048	0.109	0.156	0.131	0.156

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	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648	292.648
3	291.991	291.927	292.191	292.445	292.088	292.154	292.146	292.268	292.146	292.154
6	290.499	290.621	291.399	291.171	290.641	290.690	290.926	291.008	290.926	290.690
9	288.703	288.329	289.178	289.103	288.811	288.830	288.843	288.662	288.843	288.830
12	285.793	285.374	285.873	286.219	285.834	285.861	285.827	286.236	285.827	285.861
15	281.786	281.705	282.121	282.374	281.889	282.077	282.185	282.237	282.185	282.077
18	277.142	276.955	277.630	277.589	277.727	277.365	277.651	277.658	277.651	277.365
21	271.434	271.579	272.435	271.994	272.192	271.867	272.254	272.224	272.254	271.867
24	265.099	265.307	265.860	265.883	266.018	265.669	265.982	265.938	265.982	265.669
27	258.121	258.237	258.910	258.973	258.995	258.732	258.923	258.929	258.923	258.732
30	250.219	250.413	251.081	250.997	250.959	251.007	251.192	251.186	251.192	251.007
33	241.664	241.748	242.527	242.577	242.522	242.343	242.564	242.673	242.564	242.343
36	232.508	232.604	233.291	233.064	233.300	233.147	233.528	233.522	233.528	233.147
39	222.498	222.646	223.367	223.103	223.484	223.328	223.580	223.490	223.580	223.328
42	212.023	212.069	212.714	212.651	212.908	212.693	213.046	212.924	213.046	212.693
45	200.812	200.823	201.639	201.450	201.656	201.595	201.663	201.784	201.663	201.595
48	188.867	188.810	189.629	189.348	189.764	189.509	189.599	189.668	189.599	189.509
51	176.394	176.030	176.984	176.606	177.110	176.604	177.133	176.865	177.133	176.604
54	163.088	162.750	163.699	163.252	163.877	163.253	163.862	163.472	163.862	163.253
57	149.004	148.856	149.817	149.345	149.969	149.408	150.058	149.470	150.058	149.408
60	134.589	134.232	135.173	134.630	135.171	134.677	135.137	134.715	135.137	134.677
63	119.408	119.436	119.990	119.493	119.848	119.369	119.824	119.499	119.824	119.369
66	104.082	103.817	104.406	103.850	104.537	103.939	104.304	103.903	104.304	103.939
69	88.368	88.040	88.662	88.112	88.689	87.890	88.370	87.884	88.370	87.890
72	72.634	71.931	72.795	71.961	72.740	71.927	72.454	71.761	72.454	71.927
75	56.497	56.354	57.043	56.434	56.999	56.093	56.325	56.000	56.325	56.093
78	40.345	40.218	41.228	41.456	41.905	41.254	41.289	40.889	41.289	41.254
81	11.486	15.179	24.122	26.426	27.836	26.975	27.227	26.507	27.227	26.975
84	1.280	1.208	1.591	4.372	12.577	14.827	15.191	14.327	15.191	14.827
87	0.457	0.591	0.632	0.726	0.992	2.771	5.270	4.972	5.270	2.771
90	0.109	0.048	0.119	0.120	0.164	0.098	0.191	0.331	0.191	0.098

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	292.648	292.648	292.648	292.648	292.648	292.648	292.648
3	292.088	292.445	292.191	291.927	291.991	291.813	293.092
6	290.641	291.171	291.399	290.621	290.499	290.673	291.844
9	288.811	289.103	289.178	288.329	288.703	288.625	290.092
12	285.834	286.219	285.873	285.374	285.793	285.646	287.130

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15	281.889	282.374	282.121	281.705	281.786	281.866	283.089
18	277.727	277.589	277.630	276.955	277.142	277.172	278.663
21	272.192	271.994	272.435	271.579	271.434	271.595	272.721
24	266.018	265.883	265.860	265.307	265.099	265.074	266.336
27	258.995	258.973	258.910	258.237	258.121	258.143	259.745
30	250.959	250.997	251.081	250.413	250.219	249.906	251.899
33	242.522	242.577	242.527	241.748	241.664	241.698	243.100
36	233.300	233.064	233.291	232.604	232.508	232.325	233.474
39	223.484	223.103	223.367	222.646	222.498	222.473	223.484
42	212.908	212.651	212.714	212.069	212.023	211.783	213.369
45	201.656	201.450	201.639	200.823	200.812	200.354	201.764
48	189.764	189.348	189.629	188.810	188.867	188.447	189.721
51	177.110	176.606	176.984	176.030	176.394	175.489	177.099
54	163.877	163.252	163.699	162.750	163.088	162.396	164.006
57	149.969	149.345	149.817	148.856	149.004	148.663	149.576
60	135.171	134.630	135.173	134.232	134.589	133.799	135.227
63	119.848	119.493	119.990	119.436	119.408	118.817	119.949
66	104.537	103.850	104.406	103.817	104.082	103.296	104.861
69	88.689	88.112	88.662	88.040	88.368	87.509	88.803
72	72.740	71.961	72.795	71.931	72.634	71.706	72.783
75	56.999	56.434	57.043	56.354	56.497	55.367	55.796
78	41.905	41.456	41.228	40.218	40.345	38.435	40.713
81	27.836	26.426	24.122	15.179	11.486	4.535	1.631
84	12.577	4.372	1.591	1.208	1.280	0.754	0.939
87	0.992	0.726	0.632	0.591	0.457	0.310	0.339
90	0.164	0.120	0.119	0.048	0.109	0.156	0.131

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	87.66	N.A.	10.30
0-30	228.79	N.A.	26.90
0-40	361.11	N.A.	42.50
0-60	673.46	N.A.	79.30
0-80	833.32	N.A.	98.10
0-90	849.04	N.A.	100.00
10-90	826.55	N.A.	97.40
20-40	273.45	N.A.	32.20
20-50	413.45	N.A.	48.70
40-70	411.51	N.A.	48.50
60-80	159.86	N.A.	18.80
70-80	60.69	N.A.	7.10
80-90	15.72	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	849.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.49
10-20	65.17
20-30	141.13
30-40	132.33
40-50	139.99
50-60	172.35
60-70	99.17
70-80	60.69
80-90	15.72
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

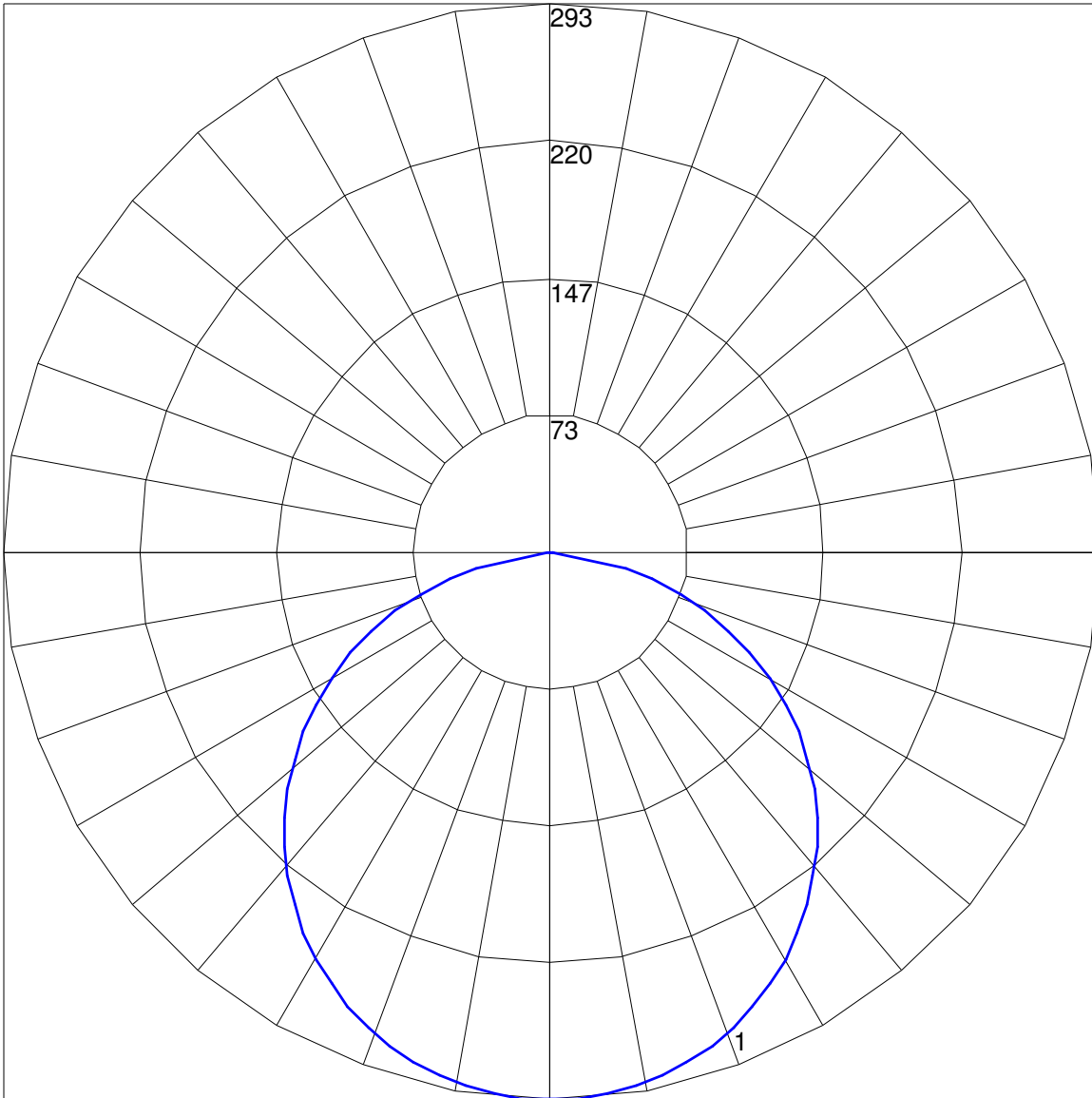
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 293.092 Located At Horizontal Angle = 0, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)