



IES INDOOR REPORT
PHOTOMETRIC FILENAME : A1-ZYZY-STN-35K-F-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-F-6W
[LUMINAIRE] A1-ZYZY-STN-35K-F-6W
[LAMPCAT] A1-ZYZY-STN-35K-F-6W
[LAMP] A1-ZYZY-STN-35K-F-6W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	7212	7894	12246
55	5797	6449	11230
65	4208	4758	9592
75	2328	2750	6778
85	35	125	2288

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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	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486
3	219.818	218.860	218.993	218.945	219.143	219.334	219.067	219.116	219.110	219.201
6	218.883	218.005	217.874	217.965	218.549	218.378	217.980	218.017	218.195	218.255
9	217.569	216.469	216.527	216.247	216.884	216.827	216.608	216.623	216.632	216.497
12	215.348	214.235	214.345	214.030	214.405	214.664	214.376	214.396	214.370	214.677
15	212.317	211.400	211.339	211.279	211.591	211.781	211.417	211.559	211.639	211.678
18	208.997	207.878	207.857	207.716	208.223	208.191	208.295	208.024	208.238	208.243
21	204.541	203.696	203.576	203.684	204.326	203.996	204.145	203.900	204.191	204.168
24	199.752	198.806	198.824	198.980	199.395	199.412	199.513	199.252	199.487	199.454
27	194.809	193.607	193.591	193.678	194.183	194.230	194.246	194.049	194.192	194.196
30	188.924	187.430	187.664	187.810	188.311	188.248	188.219	188.255	188.394	188.390
33	182.325	181.274	181.247	181.311	181.895	181.933	181.892	181.757	181.923	182.005
36	175.106	174.244	174.381	174.452	174.968	174.798	174.975	174.860	175.146	175.141
39	167.612	166.855	166.874	166.985	167.525	167.327	167.613	167.495	167.685	167.618
42	160.027	158.837	159.017	159.051	159.536	159.488	159.680	159.519	159.785	159.693
45	151.323	150.266	150.609	150.617	151.229	151.088	151.241	151.196	151.247	151.338
48	142.291	141.335	141.650	141.608	142.222	142.011	142.324	142.132	142.199	142.252
51	132.824	131.617	132.296	132.023	132.737	132.455	132.833	132.453	132.850	132.649
54	123.005	121.797	122.316	122.063	122.774	122.439	122.908	122.440	122.897	122.605
57	112.182	111.497	111.753	111.642	112.363	112.008	112.477	112.056	112.544	112.103
60	101.420	100.349	100.942	100.674	101.379	100.973	101.378	101.008	101.353	101.036
63	89.962	89.114	89.556	89.577	89.993	89.620	89.885	89.526	89.868	89.624
66	78.647	77.472	78.062	77.863	78.305	77.888	78.403	77.954	78.228	77.927
69	66.602	65.632	66.276	66.030	66.497	66.084	66.517	65.918	66.277	65.912
72	54.587	53.780	54.475	53.948	54.596	53.971	54.554	53.945	54.341	53.821
75	41.847	41.525	42.373	42.265	42.782	42.326	42.749	42.070	42.244	42.000
78	30.535	28.826	30.259	30.164	30.920	31.092	31.429	30.941	30.967	30.667
81	1.223	3.401	8.615	11.385	18.092	19.820	20.876	20.231	20.420	19.880
84	0.704	0.566	0.960	0.907	1.193	3.278	9.433	11.120	11.393	10.745
87	0.254	0.233	0.343	0.443	0.474	0.545	0.744	2.078	3.953	3.728
90	0.098	0.117	0.082	0.036	0.089	0.090	0.123	0.074	0.143	0.248

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	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486
3	219.110	219.116	219.067	219.334	219.143	218.945	218.993	218.860	219.818	218.860
6	218.195	218.017	217.980	218.378	218.549	217.965	217.874	218.005	218.883	218.005
9	216.632	216.623	216.608	216.827	216.884	216.247	216.527	216.469	217.569	216.469
12	214.370	214.396	214.376	214.664	214.405	214.030	214.345	214.235	215.348	214.235
15	211.639	211.559	211.417	211.781	211.591	211.279	211.339	211.400	212.317	211.400
18	208.238	208.024	208.295	208.191	208.223	207.716	207.857	207.878	208.997	207.878
21	204.191	203.900	204.145	203.996	204.326	203.684	203.576	203.696	204.541	203.696
24	199.487	199.252	199.513	199.412	199.395	198.980	198.824	198.806	199.752	198.806
27	194.192	194.049	194.246	194.230	194.183	193.678	193.591	193.607	194.809	193.607
30	188.394	188.255	188.219	188.248	188.311	187.810	187.664	187.430	188.924	187.430
33	181.923	181.757	181.892	181.933	181.895	181.311	181.247	181.274	182.325	181.274
36	175.146	174.860	174.975	174.798	174.968	174.452	174.381	174.244	175.106	174.244
39	167.685	167.495	167.613	167.327	167.525	166.985	166.874	166.855	167.612	166.855
42	159.785	159.519	159.680	159.488	159.536	159.051	159.017	158.837	160.027	158.837
45	151.247	151.196	151.241	151.088	151.229	150.617	150.609	150.266	151.323	150.266
48	142.199	142.132	142.324	142.011	142.222	141.608	141.650	141.335	142.291	141.335
51	132.850	132.453	132.833	132.455	132.737	132.023	132.296	131.617	132.824	131.617
54	122.897	122.440	122.908	122.439	122.774	122.063	122.316	121.797	123.005	121.797

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CANDELA TABULATION - (Cont.)

57	112.544	112.056	112.477	112.008	112.363	111.642	111.753	111.497	112.182	111.497
60	101.353	101.008	101.378	100.973	101.379	100.674	100.942	100.349	101.420	100.349
63	89.868	89.526	89.885	89.620	89.993	89.577	89.556	89.114	89.962	89.114
66	78.228	77.954	78.403	77.888	78.305	77.863	78.062	77.472	78.647	77.472
69	66.277	65.918	66.517	66.084	66.497	66.030	66.276	65.632	66.602	65.632
72	54.341	53.945	54.554	53.971	54.596	53.948	54.475	53.780	54.587	53.780
75	42.244	42.070	42.749	42.326	42.782	42.265	42.373	41.525	41.847	41.525
78	30.967	30.941	31.429	31.092	30.920	30.164	30.259	28.826	30.535	28.826
81	20.420	20.231	20.876	19.820	18.092	11.385	8.615	3.401	1.223	3.401
84	11.393	11.120	9.433	3.278	1.193	0.907	0.960	0.566	0.704	0.566
87	3.953	2.078	0.744	0.545	0.474	0.443	0.343	0.233	0.254	0.233
90	0.143	0.074	0.123	0.090	0.089	0.036	0.082	0.117	0.098	0.117

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	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486	219.486
3	218.993	218.945	219.143	219.334	219.067	219.116	219.110	219.201	219.110	219.116
6	217.874	217.965	218.549	218.378	217.980	218.017	218.195	218.255	218.195	218.017
9	216.527	216.247	216.884	216.827	216.608	216.623	216.632	216.497	216.632	216.623
12	214.345	214.030	214.405	214.664	214.376	214.396	214.370	214.677	214.370	214.396
15	211.339	211.279	211.591	211.781	211.417	211.559	211.639	211.678	211.639	211.559
18	207.857	207.716	208.223	208.191	208.295	208.024	208.238	208.243	208.238	208.024
21	203.576	203.684	204.326	203.996	204.145	203.900	204.191	204.168	204.191	203.900
24	198.824	198.980	199.395	199.412	199.513	199.252	199.487	199.454	199.487	199.252
27	193.591	193.678	194.183	194.230	194.246	194.049	194.192	194.196	194.192	194.049
30	187.664	187.810	188.311	188.248	188.219	188.255	188.394	188.390	188.394	188.255
33	181.247	181.311	181.895	181.933	181.892	181.757	181.923	182.005	181.923	181.757
36	174.381	174.452	174.968	174.798	174.975	174.860	175.146	175.141	175.146	174.860
39	166.874	166.985	167.525	167.327	167.613	167.495	167.685	167.618	167.685	167.495
42	159.017	159.051	159.536	159.488	159.680	159.519	159.785	159.693	159.785	159.519
45	150.609	150.617	151.229	151.088	151.241	151.196	151.247	151.338	151.247	151.196
48	141.650	141.608	142.222	142.011	142.324	142.132	142.199	142.252	142.199	142.132
51	132.296	132.023	132.737	132.455	132.833	132.453	132.850	132.649	132.850	132.453
54	122.316	122.063	122.774	122.439	122.908	122.440	122.897	122.605	122.897	122.440
57	111.753	111.642	112.363	112.008	112.477	112.056	112.544	112.103	112.544	112.056
60	100.942	100.674	101.379	100.973	101.378	101.008	101.353	101.036	101.353	101.008
63	89.556	89.577	89.993	89.620	89.885	89.526	89.868	89.624	89.868	89.526
66	78.062	77.863	78.305	77.888	78.403	77.954	78.228	77.927	78.228	77.954
69	66.276	66.030	66.497	66.084	66.517	65.918	66.277	65.912	66.277	65.918
72	54.475	53.948	54.596	53.971	54.554	53.945	54.341	53.821	54.341	53.945
75	42.373	42.265	42.782	42.326	42.749	42.070	42.244	42.000	42.244	42.070
78	30.259	30.164	30.920	31.092	31.429	30.941	30.967	30.667	30.967	30.941
81	8.615	11.385	18.092	19.820	20.876	20.231	20.420	19.880	20.420	20.231
84	0.960	0.907	1.193	3.278	9.433	11.120	11.393	10.745	11.393	11.120
87	0.343	0.443	0.474	0.545	0.744	2.078	3.953	3.728	3.953	2.078
90	0.082	0.036	0.089	0.090	0.123	0.074	0.143	0.248	0.143	0.074

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	219.486	219.486	219.486	219.486	219.486	219.486	219.486
3	219.067	219.334	219.143	218.945	218.993	218.860	219.818
6	217.980	218.378	218.549	217.965	217.874	218.005	218.883
9	216.608	216.827	216.884	216.247	216.527	216.469	217.569
12	214.376	214.664	214.405	214.030	214.345	214.235	215.348

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CANDELA TABULATION - (Cont.)

15	211.417	211.781	211.591	211.279	211.339	211.400	212.317
18	208.295	208.191	208.223	207.716	207.857	207.878	208.997
21	204.145	203.996	204.326	203.684	203.576	203.696	204.541
24	199.513	199.412	199.395	198.980	198.824	198.806	199.752
27	194.246	194.230	194.183	193.678	193.591	193.607	194.809
30	188.219	188.248	188.311	187.810	187.664	187.430	188.924
33	181.892	181.933	181.895	181.311	181.247	181.274	182.325
36	174.975	174.798	174.968	174.452	174.381	174.244	175.106
39	167.613	167.327	167.525	166.985	166.874	166.855	167.612
42	159.680	159.488	159.536	159.051	159.017	158.837	160.027
45	151.241	151.088	151.229	150.617	150.609	150.266	151.323
48	142.324	142.011	142.222	141.608	141.650	141.335	142.291
51	132.833	132.455	132.737	132.023	132.296	131.617	132.824
54	122.908	122.439	122.774	122.063	122.316	121.797	123.005
57	112.477	112.008	112.363	111.642	111.753	111.497	112.182
60	101.378	100.973	101.379	100.674	100.942	100.349	101.420
63	89.885	89.620	89.993	89.577	89.556	89.114	89.962
66	78.403	77.888	78.305	77.863	78.062	77.472	78.647
69	66.517	66.084	66.497	66.030	66.276	65.632	66.602
72	54.554	53.971	54.596	53.948	54.475	53.780	54.587
75	42.749	42.326	42.782	42.265	42.373	41.525	41.847
78	31.429	31.092	30.920	30.164	30.259	28.826	30.535
81	20.876	19.820	18.092	11.385	8.615	3.401	1.223
84	9.433	3.278	1.193	0.907	0.960	0.566	0.704
87	0.744	0.545	0.474	0.443	0.343	0.233	0.254
90	0.123	0.090	0.089	0.036	0.082	0.117	0.098

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	65.75	N.A.	10.30
0-30	171.59	N.A.	26.90
0-40	270.84	N.A.	42.50
0-60	505.09	N.A.	79.30
0-80	624.99	N.A.	98.10
0-90	636.78	N.A.	100.00
10-90	619.91	N.A.	97.40
20-40	205.09	N.A.	32.20
20-50	310.08	N.A.	48.70
40-70	308.63	N.A.	48.50
60-80	119.89	N.A.	18.80
70-80	45.52	N.A.	7.10
80-90	11.79	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	636.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.87
10-20	48.88
20-30	105.84
30-40	99.24
40-50	105.00
50-60	129.26
60-70	74.37
70-80	45.52
80-90	11.79
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

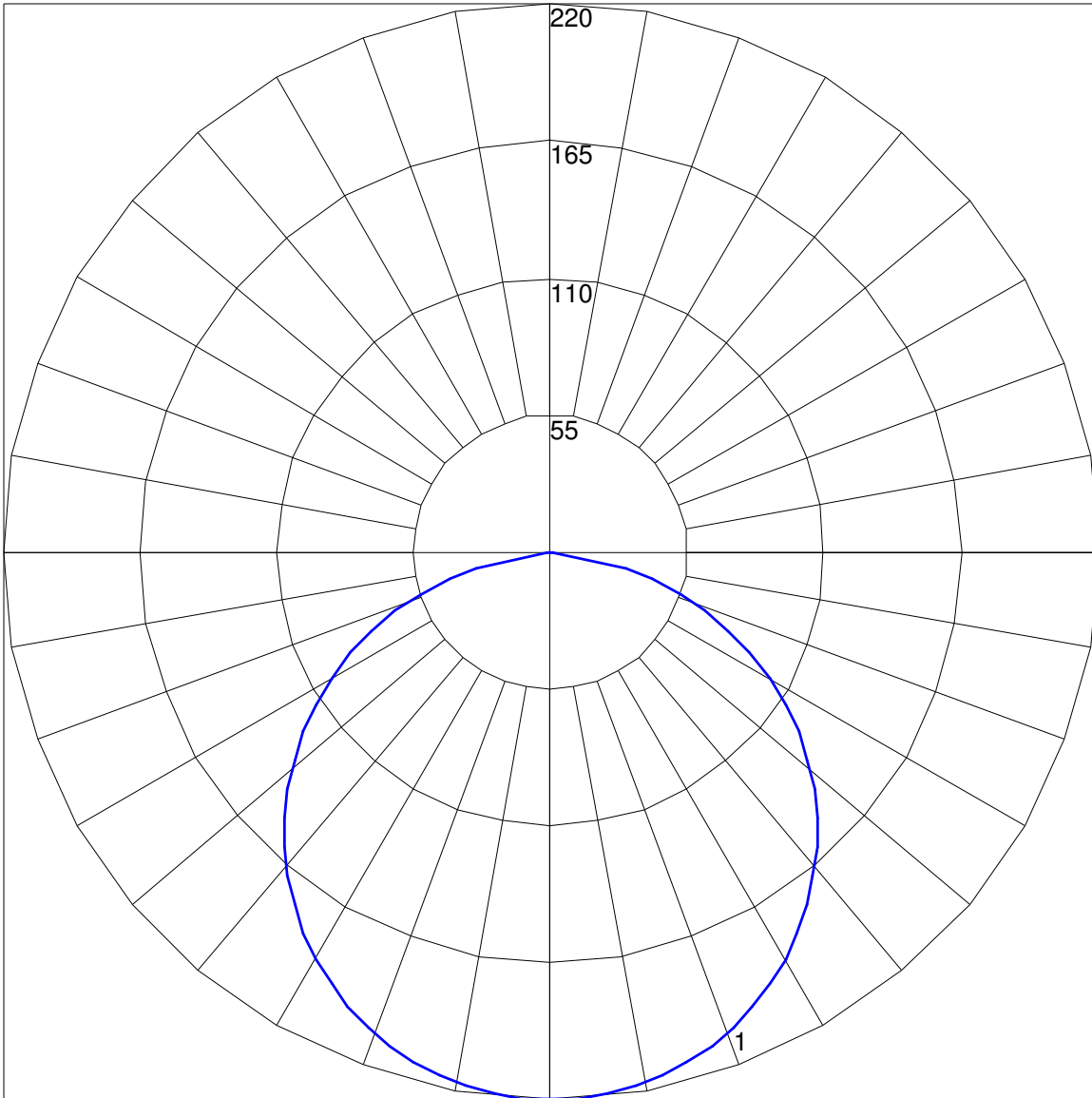
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90	88	90	87	85	83
2	98	90	83	77	77	96	88	82	76	84	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	57
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	52	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 = 219.818 Located At Horizontal Angle = 0, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)