

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SAP1824LAJUDXX_IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 102046181CHI-043
 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [TESTDATE] 2/2/2019
 [MANUFAC] AFX INC.
 [LUMCAT] SAP1824LAJUDSN-JT
 [LUMINAIRE] LED LUMINAIRE
 [LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3657	3613	3638
55	3759	3703	3733
65	4001	3903	3941
75	4678	4472	4537
85	8640	8041	8340

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	395.06	395.06	395.06	395.06	395.06	395.06	395.06	395.06	395.06	395.06
2.5	395.03	395.16	395.00	394.79	394.63	394.86	395.00	395.21	395.36	395.21
5.0	394.71	394.72	394.67	394.48	394.36	394.70	394.92	395.07	395.13	395.07
7.5	393.86	393.71	393.79	393.65	393.48	393.91	394.23	394.29	394.30	394.29
10.0	392.23	391.91	392.10	392.06	391.89	392.45	392.75	392.76	392.66	392.76
12.5	389.77	389.25	389.58	389.70	389.62	390.12	390.49	390.42	390.25	390.42
15.0	386.65	385.98	386.31	386.51	386.50	387.13	387.53	387.30	387.07	387.30
17.5	382.82	381.90	382.30	382.56	382.76	383.32	383.74	383.50	382.99	383.50
20.0	378.38	377.07	377.47	377.83	378.27	378.76	379.20	378.90	378.15	378.90
22.5	373.94	371.47	371.86	372.44	372.98	373.51	373.95	373.66	372.62	373.66
25.0	367.85	365.21	365.71	366.38	366.88	367.71	368.03	367.75	366.57	367.75
27.5	360.81	358.26	358.80	359.56	360.17	361.14	361.39	361.05	359.93	361.05
30.0	353.51	350.54	351.10	351.86	352.71	353.71	353.92	353.63	352.28	353.63
32.5	345.58	342.12	342.73	343.52	344.59	345.58	345.87	345.38	343.85	345.38
35.0	336.68	332.94	333.78	334.48	335.71	336.82	337.19	336.49	334.76	336.49
37.5	326.82	323.21	324.21	324.80	325.94	327.52	327.74	326.96	325.01	326.96
40.0	316.55	312.97	313.84	314.43	315.52	317.48	317.54	316.83	314.62	316.83
42.5	306.05	302.23	302.91	303.59	304.76	306.84	306.96	306.18	303.60	306.18
45.0	295.12	290.90	291.53	292.27	293.53	295.59	296.02	295.05	292.12	295.05
47.5	283.57	279.16	279.85	280.49	281.74	284.15	284.65	283.39	280.55	283.39
50.0	271.18	267.09	267.83	268.28	269.53	272.25	272.67	271.48	268.67	271.48
52.5	258.69	254.82	255.31	255.74	257.10	259.96	260.32	259.25	256.29	259.25
55.0	246.04	242.11	242.39	242.92	244.35	247.29	247.76	246.76	243.29	246.76
57.5	233.55	229.01	229.13	229.82	231.15	234.18	234.87	233.86	229.99	233.86
60.0	220.64	215.59	215.73	216.22	217.51	220.73	221.61	220.46	216.54	220.46
62.5	207.03	201.91	202.09	202.31	203.79	206.99	207.93	206.82	203.03	206.82
65.0	192.97	188.13	188.22	188.28	190.06	193.20	194.15	193.15	189.37	193.15
67.5	179.15	174.34	174.18	174.12	176.20	179.36	180.40	179.50	175.47	179.50
70.0	165.53	160.55	160.09	159.88	162.12	165.46	166.48	165.72	161.49	165.72
72.5	151.94	146.75	146.02	145.62	147.90	151.43	152.43	151.76	147.59	151.76
75.0	138.16	132.99	132.07	131.51	134.01	137.68	138.57	137.91	133.80	137.91
77.5	124.36	119.42	118.20	117.67	120.50	123.95	124.99	124.24	120.08	124.24
80.0	110.68	106.05	104.72	104.17	107.22	110.48	111.76	110.71	106.63	110.71
82.5	97.74	93.42	91.92	91.28	94.58	97.90	98.97	97.64	93.57	97.64
85.0	85.93	81.83	79.97	79.25	82.95	86.54	87.16	85.41	81.04	85.41
87.5	76.13	72.84	70.46	69.69	73.50	77.26	77.35	74.96	70.03	74.96
90.0	70.46	68.58	67.63	66.67	68.17	70.23	69.62	67.86	64.50	67.86
92.5	69.52	68.11	67.44	66.18	67.10	68.83	68.23	66.91	63.93	66.91
95.0	70.31	68.62	68.00	66.83	67.76	69.48	69.09	67.92	64.81	67.92
97.5	71.40	69.46	68.69	67.61	68.66	70.25	69.92	68.77	65.65	68.77
100.0	72.33	70.32	69.54	68.51	69.55	71.05	70.67	69.62	66.70	69.62
102.5	73.16	71.16	70.37	69.35	70.34	71.75	71.46	70.59	67.52	70.59
105.0	74.00	72.05	71.19	70.19	71.19	72.41	72.32	71.60	68.56	71.60
107.5	75.06	73.12	72.13	71.17	72.13	73.34	73.31	72.66	69.75	72.66
110.0	76.14	74.19	73.06	72.13	73.11	74.23	74.23	73.71	70.98	73.71
112.5	77.10	75.20	73.98	73.02	74.09	75.11	75.08	74.65	72.08	74.65
115.0	78.16	76.19	74.87	73.88	74.93	75.97	75.84	75.56	73.33	75.56
117.5	79.29	77.27	75.73	74.65	75.82	76.93	76.78	76.54	74.53	76.54
120.0	80.41	78.25	76.55	75.52	76.79	77.91	77.79	77.57	75.74	77.57
122.5	81.39	79.13	77.38	76.40	77.65	78.72	78.64	78.60	77.12	78.60
125.0	82.20	79.88	78.19	77.27	78.34	79.50	79.47	79.62	78.33	79.62
127.5	82.93	80.61	78.99	78.06	79.10	80.39	80.35	80.63	79.49	80.63
130.0	83.55	81.44	79.82	78.93	80.04	81.32	81.40	81.73	80.68	81.73
132.5	84.17	82.34	80.75	79.83	80.99	82.22	82.39	83.01	82.00	83.01

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135.0	84.67	83.28	81.80	80.78	81.59	83.17	83.45	83.91	83.33	83.91
137.5	85.55	84.13	82.69	81.82	82.35	84.16	84.63	84.68	84.20	84.68
140.0	86.23	85.07	83.70	82.82	83.14	85.29	85.55	85.61	84.75	85.61
142.5	86.89	85.95	84.57	83.87	83.89	86.09	86.54	86.19	85.84	86.19
145.0	87.26	86.35	85.42	84.60	84.50	86.30	86.97	86.73	86.61	86.73
147.5	87.35	86.51	85.98	85.85	85.16	86.62	86.95	87.16	87.54	87.16
150.0	87.13	86.87	86.30	86.42	85.29	86.24	87.01	87.51	87.88	87.51
152.5	87.04	86.90	87.14	86.33	85.57	86.22	87.07	87.93	87.92	87.93
155.0	87.33	87.39	86.56	85.76	85.52	86.72	87.20	87.79	87.47	87.79
157.5	88.46	87.28	86.28	85.27	84.96	85.66	86.76	86.59	85.24	86.59
160.0	85.55	85.82	84.19	83.30	83.67	84.20	84.45	84.29	84.19	84.29
162.5	84.90	83.76	82.62	81.73	81.78	82.51	82.54	83.21	82.50	83.21
165.0	81.30	81.26	80.85	80.14	79.49	79.37	80.17	80.86	80.47	80.86
167.5	79.06	79.11	78.78	78.38	78.17	77.84	78.26	78.80	78.42	78.80
170.0	77.55	77.38	77.25	76.85	76.48	76.61	77.01	77.26	76.80	77.26
172.5	76.32	76.17	75.74	75.61	75.39	75.55	75.75	75.85	75.33	75.85
175.0	75.02	75.01	74.55	74.43	74.23	74.45	74.61	74.74	74.21	74.74
177.5	73.97	74.15	73.89	73.77	73.59	73.77	73.85	73.97	73.53	73.97
180.0	73.50	73.50	73.50	73.50	73.50	73.50	73.50	73.50	73.50	73.50

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	395.06	395.06	395.06	395.06	395.06	395.06	395.06
2.5	395.00	394.86	394.63	394.79	395.00	395.16	395.03
5.0	394.92	394.70	394.36	394.48	394.67	394.72	394.71
7.5	394.23	393.91	393.48	393.65	393.79	393.71	393.86
10.0	392.75	392.45	391.89	392.06	392.10	391.91	392.23
12.5	390.49	390.12	389.62	389.70	389.58	389.25	389.77
15.0	387.53	387.13	386.50	386.51	386.31	385.98	386.65
17.5	383.74	383.32	382.76	382.56	382.30	381.90	382.82
20.0	379.20	378.76	378.27	377.83	377.47	377.07	378.38
22.5	373.95	373.51	372.98	372.44	371.86	371.47	373.94
25.0	368.03	367.71	366.88	366.38	365.71	365.21	367.85
27.5	361.39	361.14	360.17	359.56	358.80	358.26	360.81
30.0	353.92	353.71	352.71	351.86	351.10	350.54	353.51
32.5	345.87	345.58	344.59	343.52	342.73	342.12	345.58
35.0	337.19	336.82	335.71	334.48	333.78	332.94	336.68
37.5	327.74	327.52	325.94	324.80	324.21	323.21	326.82
40.0	317.54	317.48	315.52	314.43	313.84	312.97	316.55
42.5	306.96	306.84	304.76	303.59	302.91	302.23	306.05
45.0	296.02	295.59	293.53	292.27	291.53	290.90	295.12
47.5	284.65	284.15	281.74	280.49	279.85	279.16	283.57
50.0	272.67	272.25	269.53	268.28	267.83	267.09	271.18
52.5	260.32	259.96	257.10	255.74	255.31	254.82	258.69
55.0	247.76	247.29	244.35	242.92	242.39	242.11	246.04
57.5	234.87	234.18	231.15	229.82	229.13	229.01	233.55
60.0	221.61	220.73	217.51	216.22	215.73	215.59	220.64
62.5	207.93	206.99	203.79	202.31	202.09	201.91	207.03
65.0	194.15	193.20	190.06	188.28	188.22	188.13	192.97
67.5	180.40	179.36	176.20	174.12	174.18	174.34	179.15
70.0	166.48	165.46	162.12	159.88	160.09	160.55	165.53
72.5	152.43	151.43	147.90	145.62	146.02	146.75	151.94
75.0	138.57	137.68	134.01	131.51	132.07	132.99	138.16
77.5	124.99	123.95	120.50	117.67	118.20	119.42	124.36
80.0	111.76	110.48	107.22	104.17	104.72	106.05	110.68

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CANDELA TABULATION - (Cont.)

82.5	98.97	97.90	94.58	91.28	91.92	93.42	97.74
85.0	87.16	86.54	82.95	79.25	79.97	81.83	85.93
87.5	77.35	77.26	73.50	69.69	70.46	72.84	76.13
90.0	69.62	70.23	68.17	66.67	67.63	68.58	70.46
92.5	68.23	68.83	67.10	66.18	67.44	68.11	69.52
95.0	69.09	69.48	67.76	66.83	68.00	68.62	70.31
97.5	69.92	70.25	68.66	67.61	68.69	69.46	71.40
100.0	70.67	71.05	69.55	68.51	69.54	70.32	72.33
102.5	71.46	71.75	70.34	69.35	70.37	71.16	73.16
105.0	72.32	72.41	71.19	70.19	71.19	72.05	74.00
107.5	73.31	73.34	72.13	71.17	72.13	73.12	75.06
110.0	74.23	74.23	73.11	72.13	73.06	74.19	76.14
112.5	75.08	75.11	74.09	73.02	73.98	75.20	77.10
115.0	75.84	75.97	74.93	73.88	74.87	76.19	78.16
117.5	76.78	76.93	75.82	74.65	75.73	77.27	79.29
120.0	77.79	77.91	76.79	75.52	76.55	78.25	80.41
122.5	78.64	78.72	77.65	76.40	77.38	79.13	81.39
125.0	79.47	79.50	78.34	77.27	78.19	79.88	82.20
127.5	80.35	80.39	79.10	78.06	78.99	80.61	82.93
130.0	81.40	81.32	80.04	78.93	79.82	81.44	83.55
132.5	82.39	82.22	80.99	79.83	80.75	82.34	84.17
135.0	83.45	83.17	81.59	80.78	81.80	83.28	84.67
137.5	84.63	84.16	82.35	81.82	82.69	84.13	85.55
140.0	85.55	85.29	83.14	82.82	83.70	85.07	86.23
142.5	86.54	86.09	83.89	83.87	84.57	85.95	86.89
145.0	86.97	86.30	84.50	84.60	85.42	86.35	87.26
147.5	86.95	86.62	85.16	85.85	85.98	86.51	87.35
150.0	87.01	86.24	85.29	86.42	86.30	86.87	87.13
152.5	87.07	86.22	85.57	86.33	87.14	86.90	87.04
155.0	87.20	86.72	85.52	85.76	86.56	87.39	87.33
157.5	86.76	85.66	84.96	85.27	86.28	87.28	88.46
160.0	84.45	84.20	83.67	83.30	84.19	85.82	85.55
162.5	82.54	82.51	81.78	81.73	82.62	83.76	84.90
165.0	80.17	79.37	79.49	80.14	80.85	81.26	81.30
167.5	78.26	77.84	78.17	78.38	78.78	79.11	79.06
170.0	77.01	76.61	76.48	76.85	77.25	77.38	77.55
172.5	75.75	75.55	75.39	75.61	75.74	76.17	76.32
175.0	74.61	74.45	74.23	74.43	74.55	75.01	75.02
177.5	73.85	73.77	73.59	73.77	73.89	74.15	73.97
180.0	73.50	73.50	73.50	73.50	73.50	73.50	73.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	146.87	N.A.	7.80
0-30	316.08	N.A.	16.80
0-40	526.00	N.A.	28.00
0-60	971.55	N.A.	51.70
0-80	1303.39	N.A.	69.30
0-90	1396.15	N.A.	74.20
10-90	1358.54	N.A.	72.20
20-40	379.12	N.A.	20.20
20-50	605.74	N.A.	32.20
40-70	634.54	N.A.	33.70
60-80	331.83	N.A.	17.60
70-80	142.85	N.A.	7.60
80-90	92.76	N.A.	4.90
90-110	150.38	N.A.	8.00
90-120	225.19	N.A.	12.00
90-130	296.10	N.A.	15.70
90-150	414.06	N.A.	22.00
90-180	484.19	N.A.	25.80
110-180	333.82	N.A.	17.80
0-180	1880.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.60
10-20	109.27
20-30	169.20
30-40	209.92
40-50	226.62
50-60	218.94
60-70	188.98
70-80	142.85
80-90	92.76
90-100	74.64
100-110	75.74
110-120	74.82
120-130	70.91
130-140	64.04
140-150	53.92
150-160	39.99
160-170	22.95
170-180	7.20

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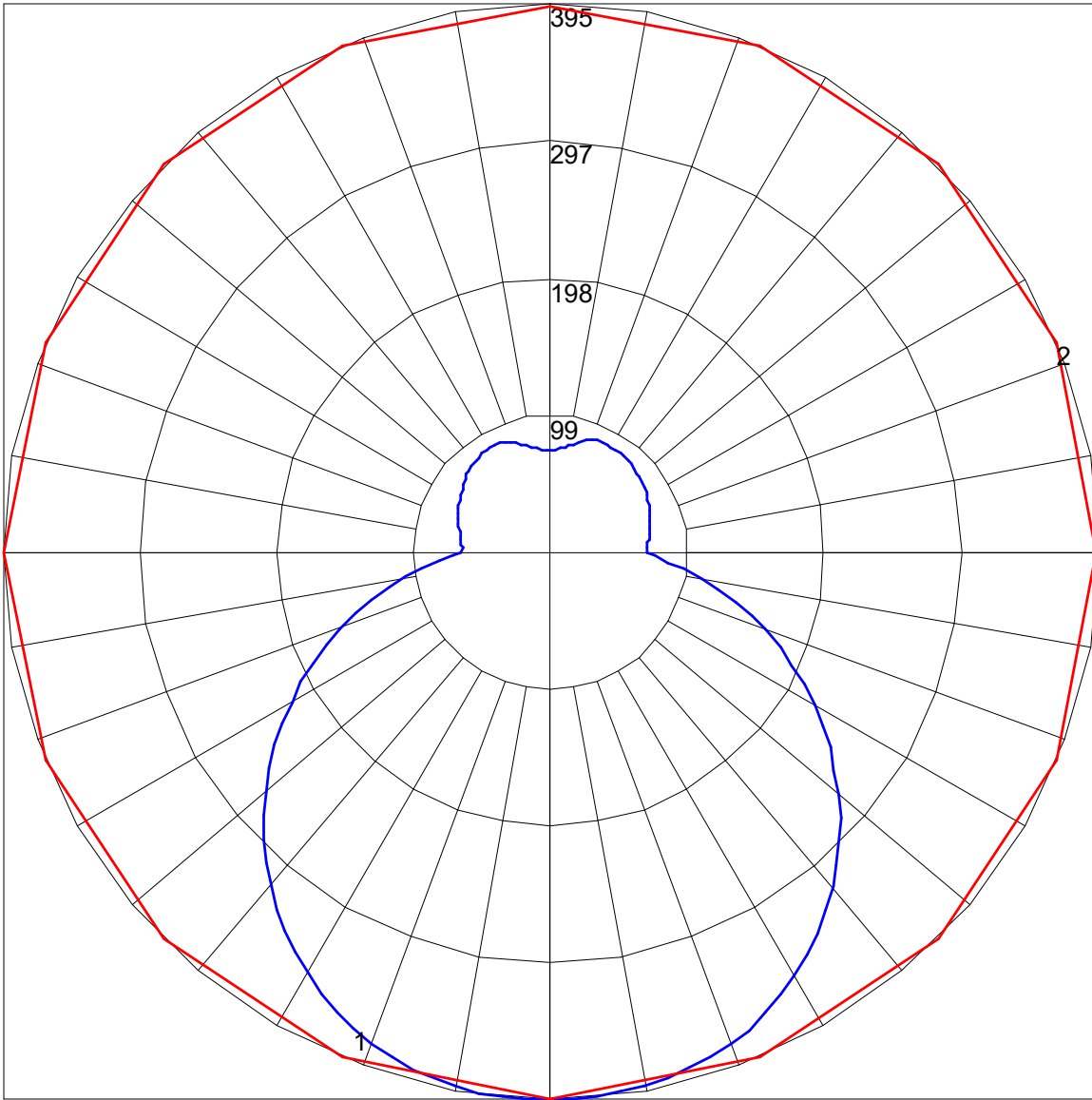
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74	74
1	101	96	91	86	96	91	87	83	82	78	75	74	71	68	66	64	62	58	58
2	91	82	75	69	86	78	72	66	71	65	61	63	59	56	57	53	51	47	47
3	83	72	63	56	78	68	60	54	61	55	50	55	50	46	50	46	42	39	39
4	75	63	54	47	71	60	52	45	54	47	42	49	43	39	44	39	36	33	33
5	69	56	47	40	65	53	45	39	48	41	36	44	38	33	39	35	31	28	28
6	64	50	41	35	60	48	40	34	43	36	31	39	33	29	35	31	27	24	24
7	59	45	36	30	55	43	35	29	39	32	27	36	30	25	32	27	24	21	21
8	55	41	33	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19	19
9	51	38	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17	17
10	48	34	27	21	45	33	26	21	30	24	20	28	22	18	25	21	17	15	15

POLAR GRAPH



Maximum Candela = 395.36 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)