

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CZS063121LAJUDRBWHWH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTDATE] 9/13/2018
 [LUMCAT] CZS063121LAJUDRBWHWH
 [LUMINAIRE] WALL SCONCE
 [LAMP] LED
 [TEST] 102046181CHI-034
 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [MANUFAC] AFX

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	26.1
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	0.37 ft
Luminous Height	1.92 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2836	1971	1784
55	3178	2202	1998
65	3456	2397	2188
75	3676	2549	2349
85	3811	2641	2466

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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	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74
2.5	30.26	24.86	20.77	16.41	14.48	15.20	15.44	15.46	18.94	15.46
5.0	45.56	40.42	35.65	25.68	20.12	21.17	22.94	24.15	25.19	24.15
7.5	61.53	58.26	44.24	30.74	21.95	22.18	26.90	24.77	23.88	24.77
10.0	63.65	63.63	52.17	36.65	24.59	24.01	26.65	20.70	18.47	20.70
12.5	70.85	68.94	49.98	42.31	29.47	27.59	25.40	17.34	15.00	17.34
15.0	75.41	68.98	55.43	47.43	34.61	29.92	24.94	15.62	12.96	15.62
17.5	70.21	71.21	59.19	52.52	36.99	31.17	23.94	15.89	13.55	15.89
20.0	63.32	68.19	62.90	55.47	39.46	31.54	22.99	16.34	14.39	16.34
22.5	68.84	68.50	65.99	56.52	42.70	32.08	22.83	17.00	15.37	17.00
25.0	75.87	75.54	65.88	57.59	45.71	32.68	22.52	17.78	16.38	17.78
27.5	84.28	83.45	71.14	59.50	48.13	33.04	22.51	18.38	17.21	18.38
30.0	92.83	91.63	77.65	62.56	49.80	33.19	22.55	19.00	17.94	19.00
32.5	101.28	100.01	84.25	66.68	51.59	33.53	22.85	19.60	18.47	19.60
35.0	110.06	108.62	91.05	71.00	53.91	34.48	23.30	20.13	18.77	20.13
37.5	119.45	117.56	98.13	75.60	56.69	35.90	23.82	20.57	18.96	20.57
40.0	129.51	126.85	105.45	80.63	59.99	37.72	24.54	21.04	19.18	21.04
42.5	139.76	136.41	113.17	86.08	63.35	39.85	25.45	21.54	19.42	21.54
45.0	149.70	146.16	121.08	91.69	67.17	42.14	26.49	22.04	19.59	22.04
47.5	159.40	155.87	129.01	97.50	71.11	44.54	27.60	22.55	19.89	22.55
50.0	168.95	165.33	136.90	103.31	75.06	47.02	28.72	23.11	20.17	23.11
52.5	178.46	174.53	144.58	109.03	79.03	49.55	29.83	23.63	20.37	23.63
55.0	187.66	183.39	152.04	114.68	82.90	52.01	30.94	24.12	20.60	24.12
57.5	196.32	191.80	159.28	120.09	86.60	54.37	32.04	24.63	20.80	24.63
60.0	204.46	199.84	166.22	125.12	90.08	56.61	33.13	25.12	20.98	25.12
62.5	212.14	207.49	172.71	129.99	93.33	58.65	34.16	25.60	21.18	25.60
65.0	219.46	214.70	178.76	134.55	96.47	60.56	35.14	26.04	21.37	26.04
67.5	226.28	221.39	184.41	138.85	99.42	62.18	36.07	26.43	21.54	26.43
70.0	232.44	227.46	189.62	142.70	102.02	63.67	36.95	26.81	21.68	26.81
72.5	237.93	232.78	194.32	146.17	104.34	65.13	37.78	27.17	21.85	27.17
75.0	242.72	237.49	198.41	149.21	106.49	66.46	38.52	27.51	21.98	27.51
77.5	246.79	241.43	201.76	151.85	108.29	67.55	39.15	27.75	22.04	27.75
80.0	249.83	244.56	204.42	153.91	109.68	68.37	39.66	27.86	22.01	27.86
82.5	252.07	246.85	206.46	155.44	110.73	69.07	40.02	27.90	22.01	27.90
85.0	253.64	248.43	207.94	156.55	111.50	69.50	40.25	28.00	22.06	28.00
87.5	254.46	249.34	208.76	157.18	111.93	69.76	40.36	28.08	22.13	28.08
90.0	254.55	249.61	208.99	157.41	112.08	69.90	40.39	28.13	22.19	28.13
92.5	253.93	249.22	208.67	157.23	111.98	69.84	40.35	28.12	22.23	28.12
95.0	252.86	248.21	207.88	156.66	111.66	69.66	40.25	28.11	22.30	28.11
97.5	251.20	246.51	206.56	155.67	111.09	69.37	40.09	28.11	22.38	28.11
100.0	248.78	244.02	204.49	154.18	110.11	68.81	39.79	28.05	22.43	28.05
102.5	245.49	240.80	201.68	152.13	108.70	68.04	39.37	27.92	22.45	27.92
105.0	241.55	236.87	198.25	149.59	106.99	67.03	38.83	27.72	22.45	27.72
107.5	236.91	232.24	194.35	146.63	104.97	65.84	38.21	27.45	22.39	27.45
110.0	231.53	226.96	189.81	143.22	102.64	64.66	37.49	27.12	22.31	27.12
112.5	225.29	220.81	184.66	139.34	100.04	63.10	36.66	26.73	22.19	26.73
115.0	218.59	214.18	179.11	135.16	97.20	61.40	35.76	26.32	22.06	26.32
117.5	211.60	207.24	173.18	130.79	94.29	59.71	34.85	25.87	21.88	25.87
120.0	204.04	199.78	166.94	126.28	91.22	58.04	33.89	25.39	21.68	25.39
122.5	195.89	191.74	160.30	121.46	87.85	56.05	32.85	24.86	21.46	24.86
125.0	187.17	183.22	153.30	116.31	84.26	53.88	31.74	24.27	21.18	24.27
127.5	178.35	174.51	146.11	111.05	80.68	51.65	30.57	23.64	20.82	23.64
130.0	169.41	165.59	138.82	105.73	77.02	49.42	29.40	23.00	20.46	23.00
132.5	160.36	156.60	131.38	100.30	73.27	47.16	28.21	22.32	20.16	22.32

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135.0	150.91	147.41	123.83	94.78	69.36	44.74	26.94	21.59	19.86	21.59
137.5	141.30	138.22	116.20	89.06	65.29	42.12	25.38	20.72	19.34	20.72
140.0	131.83	128.99	108.52	83.31	61.40	39.43	23.73	19.62	18.57	19.62
142.5	122.42	119.63	100.76	77.38	57.37	36.69	22.05	18.35	17.71	18.35
145.0	112.66	109.99	92.70	71.27	52.96	33.84	20.32	17.07	16.80	17.07
147.5	102.51	99.97	84.46	65.04	48.40	30.91	18.61	15.84	15.99	15.84
150.0	92.21	90.04	76.26	59.25	43.91	27.99	16.99	14.61	15.14	14.61
152.5	82.13	80.33	68.31	53.21	39.48	25.16	15.44	13.43	14.21	13.43
155.0	72.35	70.75	60.79	47.23	35.14	22.45	13.94	12.26	13.00	12.26
157.5	62.84	61.41	54.30	41.38	30.80	19.71	12.45	11.11	11.46	11.11
160.0	54.26	53.12	48.22	35.89	26.53	17.08	10.98	9.93	9.51	9.93
162.5	45.73	45.00	40.50	30.81	22.55	14.56	9.57	8.67	7.22	8.67
165.0	38.85	37.70	33.73	26.43	18.98	12.09	8.27	7.31	5.02	7.31
167.5	32.41	31.23	27.94	21.78	15.74	10.09	7.02	5.72	3.28	5.72
170.0	26.37	24.84	22.22	17.48	12.62	8.18	5.72	3.95	1.93	3.95
172.5	20.17	18.04	16.06	12.75	9.29	6.20	4.11	2.02	0.91	2.02
175.0	12.62	10.53	9.30	7.70	5.70	3.85	1.90	0.68	0.53	0.68
177.5	2.17	1.73	2.62	2.70	2.09	1.20	0.47	0.42	0.51	0.42
180.0	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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	10.74	10.74	10.74	10.74	10.74	10.74	10.74
2.5	15.44	15.20	14.48	16.41	20.77	24.86	30.26
5.0	22.94	21.17	20.12	25.68	35.65	40.42	45.56
7.5	26.90	22.18	21.95	30.74	44.24	58.26	61.53
10.0	26.65	24.01	24.59	36.65	52.17	63.63	63.65
12.5	25.40	27.59	29.47	42.31	49.98	68.94	70.85
15.0	24.94	29.92	34.61	47.43	55.43	68.98	75.41
17.5	23.94	31.17	36.99	52.52	59.19	71.21	70.21
20.0	22.99	31.54	39.46	55.47	62.90	68.19	63.32
22.5	22.83	32.08	42.70	56.52	65.99	68.50	68.84
25.0	22.52	32.68	45.71	57.59	65.88	75.54	75.87
27.5	22.51	33.04	48.13	59.50	71.14	83.45	84.28
30.0	22.55	33.19	49.80	62.56	77.65	91.63	92.83
32.5	22.85	33.53	51.59	66.68	84.25	100.01	101.28
35.0	23.30	34.48	53.91	71.00	91.05	108.62	110.06
37.5	23.82	35.90	56.69	75.60	98.13	117.56	119.45
40.0	24.54	37.72	59.99	80.63	105.45	126.85	129.51
42.5	25.45	39.85	63.35	86.08	113.17	136.41	139.76
45.0	26.49	42.14	67.17	91.69	121.08	146.16	149.70
47.5	27.60	44.54	71.11	97.50	129.01	155.87	159.40
50.0	28.72	47.02	75.06	103.31	136.90	165.33	168.95
52.5	29.83	49.55	79.03	109.03	144.58	174.53	178.46
55.0	30.94	52.01	82.90	114.68	152.04	183.39	187.66
57.5	32.04	54.37	86.60	120.09	159.28	191.80	196.32
60.0	33.13	56.61	90.08	125.12	166.22	199.84	204.46
62.5	34.16	58.65	93.33	129.99	172.71	207.49	212.14
65.0	35.14	60.56	96.47	134.55	178.76	214.70	219.46
67.5	36.07	62.18	99.42	138.85	184.41	221.39	226.28
70.0	36.95	63.67	102.02	142.70	189.62	227.46	232.44
72.5	37.78	65.13	104.34	146.17	194.32	232.78	237.93
75.0	38.52	66.46	106.49	149.21	198.41	237.49	242.72
77.5	39.15	67.55	108.29	151.85	201.76	241.43	246.79
80.0	39.66	68.37	109.68	153.91	204.42	244.56	249.83

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CANDELA TABULATION - (Cont.)

82.5	40.02	69.07	110.73	155.44	206.46	246.85	252.07
85.0	40.25	69.50	111.50	156.55	207.94	248.43	253.64
87.5	40.36	69.76	111.93	157.18	208.76	249.34	254.46
90.0	40.39	69.90	112.08	157.41	208.99	249.61	254.55
92.5	40.35	69.84	111.98	157.23	208.67	249.22	253.93
95.0	40.25	69.66	111.66	156.66	207.88	248.21	252.86
97.5	40.09	69.37	111.09	155.67	206.56	246.51	251.20
100.0	39.79	68.81	110.11	154.18	204.49	244.02	248.78
102.5	39.37	68.04	108.70	152.13	201.68	240.80	245.49
105.0	38.83	67.03	106.99	149.59	198.25	236.87	241.55
107.5	38.21	65.84	104.97	146.63	194.35	232.24	236.91
110.0	37.49	64.66	102.64	143.22	189.81	226.96	231.53
112.5	36.66	63.10	100.04	139.34	184.66	220.81	225.29
115.0	35.76	61.40	97.20	135.16	179.11	214.18	218.59
117.5	34.85	59.71	94.29	130.79	173.18	207.24	211.60
120.0	33.89	58.04	91.22	126.28	166.94	199.78	204.04
122.5	32.85	56.05	87.85	121.46	160.30	191.74	195.89
125.0	31.74	53.88	84.26	116.31	153.30	183.22	187.17
127.5	30.57	51.65	80.68	111.05	146.11	174.51	178.35
130.0	29.40	49.42	77.02	105.73	138.82	165.59	169.41
132.5	28.21	47.16	73.27	100.30	131.38	156.60	160.36
135.0	26.94	44.74	69.36	94.78	123.83	147.41	150.91
137.5	25.38	42.12	65.29	89.06	116.20	138.22	141.30
140.0	23.73	39.43	61.40	83.31	108.52	128.99	131.83
142.5	22.05	36.69	57.37	77.38	100.76	119.63	122.42
145.0	20.32	33.84	52.96	71.27	92.70	109.99	112.66
147.5	18.61	30.91	48.40	65.04	84.46	99.97	102.51
150.0	16.99	27.99	43.91	59.25	76.26	90.04	92.21
152.5	15.44	25.16	39.48	53.21	68.31	80.33	82.13
155.0	13.94	22.45	35.14	47.23	60.79	70.75	72.35
157.5	12.45	19.71	30.80	41.38	54.30	61.41	62.84
160.0	10.98	17.08	26.53	35.89	48.22	53.12	54.26
162.5	9.57	14.56	22.55	30.81	40.50	45.00	45.73
165.0	8.27	12.09	18.98	26.43	33.73	37.70	38.85
167.5	7.02	10.09	15.74	21.78	27.94	31.23	32.41
170.0	5.72	8.18	12.62	17.48	22.22	24.84	26.37
172.5	4.11	6.20	9.29	12.75	16.06	18.04	20.17
175.0	1.90	3.85	5.70	7.70	9.30	10.53	12.62
177.5	0.47	1.20	2.09	2.70	2.62	1.73	2.17
180.0	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	14.24	N.A.	1.20
0-30	35.67	N.A.	3.10
0-40	72.63	N.A.	6.30
0-60	214.56	N.A.	18.50
0-80	448.20	N.A.	38.60
0-90	584.30	N.A.	50.40
10-90	581.41	N.A.	50.10
20-40	58.39	N.A.	5.00
20-50	116.84	N.A.	10.10
40-70	249.35	N.A.	21.50
60-80	233.63	N.A.	20.10
70-80	126.21	N.A.	10.90
80-90	136.11	N.A.	11.70
90-110	262.50	N.A.	22.60
90-120	370.33	N.A.	31.90
90-130	454.64	N.A.	39.20
90-150	550.73	N.A.	47.50
90-180	575.69	N.A.	49.60
110-180	313.20	N.A.	27.00
0-180	1160.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.90
10-20	11.35
20-30	21.42
30-40	36.97
40-50	58.44
50-60	83.49
60-70	107.43
70-80	126.21
80-90	136.11
90-100	136.14
100-110	126.36
110-120	107.84
120-130	84.30
130-140	59.55
140-150	36.54
150-160	17.98
160-170	6.19
170-180	0.80

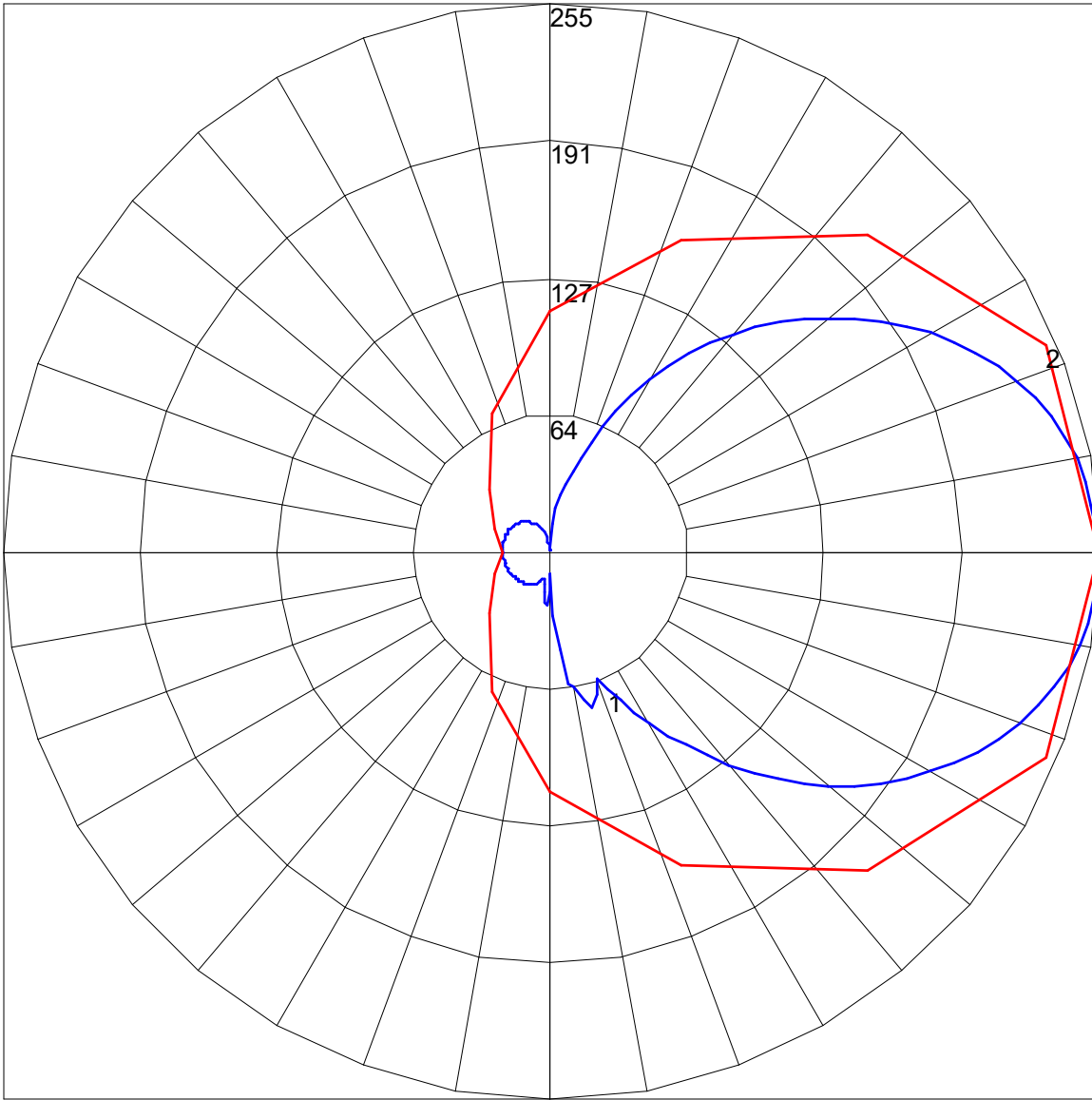
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	49	46	40	38	36	30
2	81	71	62	55	74	65	57	51	53	47	42	42	38	34	32	29	26	21
3	73	61	51	43	66	55	47	40	45	38	33	36	30	26	27	23	19	15
4	66	52	43	35	60	48	39	32	39	32	26	31	25	21	23	19	15	11
5	60	46	36	29	54	42	33	27	34	27	22	27	21	17	20	16	12	9
6	55	41	31	24	50	37	29	22	30	23	18	24	18	14	18	14	10	7
7	50	36	27	21	46	33	25	19	27	20	16	21	16	12	16	12	9	6
8	47	33	24	18	42	30	22	16	24	18	13	19	14	10	15	11	7	5
9	43	30	21	16	39	27	20	14	22	16	12	18	13	9	13	9	7	4
10	40	27	19	14	37	25	17	13	20	14	10	16	11	8	12	9	6	4

POLAR GRAPH



Maximum Candela = 254.55 Located At Horizontal Angle = 0, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)