

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CZS062214LAJUDRBWHWH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTDATE] 9/14/2018
 [LUMCAT] CZS062214LAJUDRBWHWH
 [LUMINAIRE] WALL SCONCE
 [LAMP] LED
 [TEST] 102046181CHI-033
 [TESTLAB] INTERTEK
 [ISSUEDATE]
 [MANUFAC] AFX

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	557
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	30
Total Luminaire Watts	18.4
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)	0.29 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	1.42 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1909	1176	940
55	2114	1287	1016
65	2320	1400	1094
75	2516	1508	1160
85	2653	1585	1229

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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	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38
2.5	13.95	14.89	13.80	12.48	11.90	11.25	9.98	9.29	9.73	9.29
5.0	19.70	26.02	23.13	18.27	15.85	14.52	14.79	14.85	14.76	14.85
7.5	24.52	34.82	28.33	19.95	16.29	15.44	17.12	16.12	14.90	16.12
10.0	28.16	39.46	30.91	22.35	17.40	16.23	16.87	14.55	11.17	14.55
12.5	30.25	41.97	32.54	23.45	16.57	17.00	16.22	12.22	8.13	12.22
15.0	32.16	44.50	33.83	23.90	17.27	17.31	15.68	10.95	7.40	10.95
17.5	35.30	45.36	34.61	26.01	19.92	17.78	15.63	11.45	8.80	11.45
20.0	36.33	45.89	35.74	28.17	21.84	18.58	16.08	12.80	10.55	12.80
22.5	38.31	47.23	35.51	29.94	23.87	19.53	16.44	14.04	12.28	14.04
25.0	40.76	49.52	35.92	31.30	25.24	20.21	16.72	15.20	13.61	15.20
27.5	43.73	46.51	38.93	32.51	26.71	20.56	16.79	16.07	15.03	16.07
30.0	47.25	50.36	39.62	34.55	27.86	20.76	16.77	16.72	16.04	16.72
32.5	51.03	50.12	41.89	35.72	28.41	20.75	16.71	17.29	16.88	17.29
35.0	55.04	57.82	44.63	36.81	28.92	20.63	16.76	17.65	17.57	17.65
37.5	59.06	57.85	47.37	36.24	29.51	20.59	16.75	17.82	18.08	17.82
40.0	63.15	61.59	50.06	38.67	30.15	20.53	16.61	18.02	18.54	18.02
42.5	67.25	65.37	52.68	39.45	30.79	20.60	16.56	18.12	18.87	18.12
45.0	70.85	69.33	55.52	41.32	31.37	20.86	16.66	18.12	19.06	18.12
47.5	74.66	72.94	58.44	43.07	32.47	21.36	16.89	18.15	19.22	18.15
50.0	78.51	76.75	61.41	45.05	33.89	22.23	17.17	18.26	19.33	18.26
52.5	82.39	80.48	64.51	47.23	35.48	23.47	17.54	18.24	19.43	18.24
55.0	86.24	84.23	67.61	49.50	37.07	24.68	17.95	18.28	19.54	18.28
57.5	90.09	87.86	70.38	51.68	38.46	25.83	18.46	18.34	19.69	18.34
60.0	93.70	91.32	73.23	53.76	39.73	26.87	18.96	18.38	19.81	18.38
62.5	97.11	94.71	76.04	55.76	40.91	27.77	19.44	18.45	19.93	18.45
65.0	100.36	97.99	78.74	57.67	42.07	28.54	19.88	18.52	20.08	18.52
67.5	103.58	101.11	81.29	59.41	43.16	29.26	20.33	18.61	20.24	18.61
70.0	106.65	103.94	83.66	60.96	44.10	29.92	20.75	18.72	20.36	18.72
72.5	109.37	106.54	85.82	62.39	44.76	30.49	21.10	18.79	20.48	18.79
75.0	111.69	108.83	87.77	63.73	45.58	31.02	21.40	18.88	20.56	18.88
77.5	113.62	110.79	89.49	64.95	46.44	31.50	21.66	18.93	20.62	18.93
80.0	115.14	112.35	90.85	65.93	47.09	31.88	21.85	18.91	20.62	18.91
82.5	116.37	113.57	91.91	66.68	47.56	32.14	21.97	18.85	20.56	18.85
85.0	117.24	114.42	92.66	67.25	47.85	32.29	22.04	18.77	20.44	18.77
87.5	117.78	114.97	93.16	67.57	47.98	32.35	22.05	18.63	20.31	18.63
90.0	117.98	115.24	93.34	67.72	48.02	32.37	22.01	18.60	20.32	18.60
92.5	117.95	115.26	93.37	67.75	48.08	32.39	21.98	18.61	20.37	18.61
95.0	117.68	115.05	93.24	67.67	48.07	32.38	21.94	18.61	20.40	18.61
97.5	117.08	114.45	92.76	67.37	47.92	32.28	21.89	18.62	20.45	18.62
100.0	116.16	113.47	91.96	66.81	47.56	32.06	21.78	18.61	20.48	18.61
102.5	114.79	112.11	90.80	65.98	47.05	31.72	21.62	18.58	20.50	18.58
105.0	113.08	110.39	89.32	64.94	46.35	31.28	21.40	18.49	20.46	18.49
107.5	111.03	108.27	87.57	63.66	45.50	30.73	21.14	18.39	20.36	18.39
110.0	108.45	105.77	85.43	62.15	44.52	30.11	20.78	18.26	20.25	18.26
112.5	105.49	102.91	83.01	60.43	43.45	29.47	20.39	18.10	20.16	18.10
115.0	102.29	99.85	80.49	58.64	42.33	28.81	19.99	17.93	20.08	17.93
117.5	99.05	96.59	77.83	56.79	41.20	28.13	19.60	17.76	19.95	17.76
120.0	95.55	93.07	74.92	54.87	39.99	27.39	19.18	17.56	19.76	17.56
122.5	91.77	89.20	71.79	52.81	38.68	26.58	18.72	17.32	19.49	17.32
125.0	87.56	85.14	68.87	50.67	37.28	25.72	18.23	17.07	19.22	17.07
127.5	83.21	80.94	65.49	48.49	35.85	24.83	17.73	16.81	18.94	16.81
130.0	78.78	76.64	62.16	46.30	34.37	23.92	17.22	16.54	18.64	16.54
132.5	74.37	72.25	58.83	44.04	32.90	22.98	16.69	16.28	18.35	16.28

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135.0	69.92	68.18	55.50	41.75	31.38	22.01	16.11	16.00	18.05	16.00
137.5	65.47	63.79	52.18	39.45	29.86	20.99	15.55	15.70	17.70	15.70
140.0	60.88	59.48	48.91	37.16	28.31	20.00	14.99	15.40	17.23	15.40
142.5	56.33	55.22	45.67	34.84	26.78	19.00	14.47	15.07	16.78	15.07
145.0	51.94	51.01	42.43	32.59	25.20	18.01	13.94	14.71	16.32	14.71
147.5	47.55	46.84	39.24	30.38	23.70	17.05	13.46	14.25	15.84	14.25
150.0	43.27	42.71	36.21	28.28	22.24	16.14	13.04	13.72	15.32	13.72
152.5	39.00	38.65	33.34	26.22	20.78	15.23	12.64	13.17	14.73	13.17
155.0	34.85	34.75	30.52	24.36	19.21	14.25	12.07	12.48	13.96	12.48
157.5	31.06	32.36	28.08	22.69	17.60	13.07	11.12	11.51	12.70	11.51
160.0	27.94	28.22	26.03	20.75	15.80	11.53	9.59	10.01	10.85	10.01
162.5	25.11	25.50	24.14	18.75	13.76	9.87	7.96	8.18	8.01	8.18
165.0	22.61	23.46	21.41	16.70	11.56	8.03	6.35	6.37	5.52	6.37
167.5	20.20	21.02	18.70	13.74	9.46	6.33	4.99	4.74	3.26	4.74
170.0	17.13	16.63	14.82	11.19	7.63	4.86	3.87	3.33	1.59	3.33
172.5	11.95	11.34	10.75	8.41	5.95	3.66	2.95	1.92	0.72	1.92
175.0	7.15	6.08	5.97	5.14	3.83	2.51	1.62	0.59	0.30	0.59
177.5	1.16	1.18	1.39	1.37	1.23	0.79	0.27	0.21	0.24	0.21
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21

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	7.38	7.38	7.38	7.38	7.38	7.38	7.38
2.5	9.98	11.25	11.90	12.48	13.80	14.89	13.95
5.0	14.79	14.52	15.85	18.27	23.13	26.02	19.70
7.5	17.12	15.44	16.29	19.95	28.33	34.82	24.52
10.0	16.87	16.23	17.40	22.35	30.91	39.46	28.16
12.5	16.22	17.00	16.57	23.45	32.54	41.97	30.25
15.0	15.68	17.31	17.27	23.90	33.83	44.50	32.16
17.5	15.63	17.78	19.92	26.01	34.61	45.36	35.30
20.0	16.08	18.58	21.84	28.17	35.74	45.89	36.33
22.5	16.44	19.53	23.87	29.94	35.51	47.23	38.31
25.0	16.72	20.21	25.24	31.30	35.92	49.52	40.76
27.5	16.79	20.56	26.71	32.51	38.93	46.51	43.73
30.0	16.77	20.76	27.86	34.55	39.62	50.36	47.25
32.5	16.71	20.75	28.41	35.72	41.89	50.12	51.03
35.0	16.76	20.63	28.92	36.81	44.63	57.82	55.04
37.5	16.75	20.59	29.51	36.24	47.37	57.85	59.06
40.0	16.61	20.53	30.15	38.67	50.06	61.59	63.15
42.5	16.56	20.60	30.79	39.45	52.68	65.37	67.25
45.0	16.66	20.86	31.37	41.32	55.52	69.33	70.85
47.5	16.89	21.36	32.47	43.07	58.44	72.94	74.66
50.0	17.17	22.23	33.89	45.05	61.41	76.75	78.51
52.5	17.54	23.47	35.48	47.23	64.51	80.48	82.39
55.0	17.95	24.68	37.07	49.50	67.61	84.23	86.24
57.5	18.46	25.83	38.46	51.68	70.38	87.86	90.09
60.0	18.96	26.87	39.73	53.76	73.23	91.32	93.70
62.5	19.44	27.77	40.91	55.76	76.04	94.71	97.11
65.0	19.88	28.54	42.07	57.67	78.74	97.99	100.36
67.5	20.33	29.26	43.16	59.41	81.29	101.11	103.58
70.0	20.75	29.92	44.10	60.96	83.66	103.94	106.65
72.5	21.10	30.49	44.76	62.39	85.82	106.54	109.37
75.0	21.40	31.02	45.58	63.73	87.77	108.83	111.69
77.5	21.66	31.50	46.44	64.95	89.49	110.79	113.62
80.0	21.85	31.88	47.09	65.93	90.85	112.35	115.14

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CANDELA TABULATION - (Cont.)

82.5	21.97	32.14	47.56	66.68	91.91	113.57	116.37
85.0	22.04	32.29	47.85	67.25	92.66	114.42	117.24
87.5	22.05	32.35	47.98	67.57	93.16	114.97	117.78
90.0	22.01	32.37	48.02	67.72	93.34	115.24	117.98
92.5	21.98	32.39	48.08	67.75	93.37	115.26	117.95
95.0	21.94	32.38	48.07	67.67	93.24	115.05	117.68
97.5	21.89	32.28	47.92	67.37	92.76	114.45	117.08
100.0	21.78	32.06	47.56	66.81	91.96	113.47	116.16
102.5	21.62	31.72	47.05	65.98	90.80	112.11	114.79
105.0	21.40	31.28	46.35	64.94	89.32	110.39	113.08
107.5	21.14	30.73	45.50	63.66	87.57	108.27	111.03
110.0	20.78	30.11	44.52	62.15	85.43	105.77	108.45
112.5	20.39	29.47	43.45	60.43	83.01	102.91	105.49
115.0	19.99	28.81	42.33	58.64	80.49	99.85	102.29
117.5	19.60	28.13	41.20	56.79	77.83	96.59	99.05
120.0	19.18	27.39	39.99	54.87	74.92	93.07	95.55
122.5	18.72	26.58	38.68	52.81	71.79	89.20	91.77
125.0	18.23	25.72	37.28	50.67	68.87	85.14	87.56
127.5	17.73	24.83	35.85	48.49	65.49	80.94	83.21
130.0	17.22	23.92	34.37	46.30	62.16	76.64	78.78
132.5	16.69	22.98	32.90	44.04	58.83	72.25	74.37
135.0	16.11	22.01	31.38	41.75	55.50	68.18	69.92
137.5	15.55	20.99	29.86	39.45	52.18	63.79	65.47
140.0	14.99	20.00	28.31	37.16	48.91	59.48	60.88
142.5	14.47	19.00	26.78	34.84	45.67	55.22	56.33
145.0	13.94	18.01	25.20	32.59	42.43	51.01	51.94
147.5	13.46	17.05	23.70	30.38	39.24	46.84	47.55
150.0	13.04	16.14	22.24	28.28	36.21	42.71	43.27
152.5	12.64	15.23	20.78	26.22	33.34	38.65	39.00
155.0	12.07	14.25	19.21	24.36	30.52	34.75	34.85
157.5	11.12	13.07	17.60	22.69	28.08	32.36	31.06
160.0	9.59	11.53	15.80	20.75	26.03	28.22	27.94
162.5	7.96	9.87	13.76	18.75	24.14	25.50	25.11
165.0	6.35	8.03	11.56	16.70	21.41	23.46	22.61
167.5	4.99	6.33	9.46	13.74	18.70	21.02	20.20
170.0	3.87	4.86	7.63	11.19	14.82	16.63	17.13
172.5	2.95	3.66	5.95	8.41	10.75	11.34	11.95
175.0	1.62	2.51	3.83	5.14	5.97	6.08	7.15
177.5	0.27	0.79	1.23	1.37	1.39	1.18	1.16
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8.46	N.A.	1.50
0-30	21.26	N.A.	3.80
0-40	41.47	N.A.	7.50
0-60	109.97	N.A.	19.80
0-80	218.56	N.A.	39.30
0-90	281.73	N.A.	50.60
10-90	279.92	N.A.	50.30
20-40	33.01	N.A.	5.90
20-50	62.00	N.A.	11.10
40-70	118.56	N.A.	21.30
60-80	108.60	N.A.	19.50
70-80	58.54	N.A.	10.50
80-90	63.17	N.A.	11.30
90-110	122.66	N.A.	22.00
90-120	173.42	N.A.	31.20
90-130	213.40	N.A.	38.30
90-150	260.34	N.A.	46.80
90-180	274.85	N.A.	49.40
110-180	152.19	N.A.	27.30
0-180	556.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.81
10-20	6.65
20-30	12.80
30-40	20.21
40-50	28.99
50-60	39.52
60-70	50.06
70-80	58.54
80-90	63.17
90-100	63.42
100-110	59.24
110-120	50.76
120-130	39.97
130-140	28.61
140-150	18.33
150-160	10.06
160-170	3.93
170-180	0.52

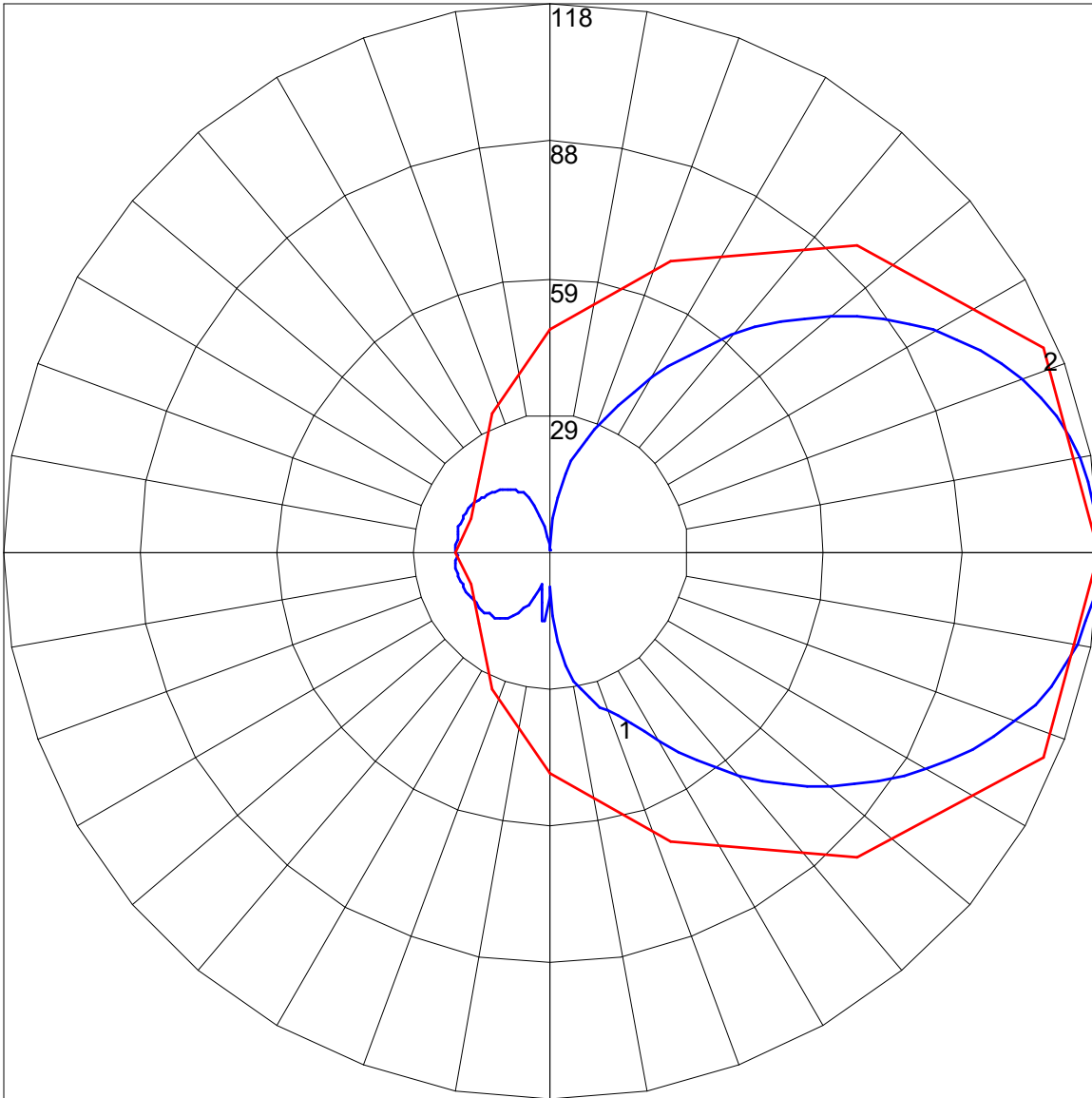
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	70	70	70	57	57	57	51
1	92	85	79	74	84	78	73	68	65	61	57	52	49	46	41	39	36	31
2	82	71	63	56	74	65	58	51	54	48	43	43	38	34	33	30	27	22
3	73	61	52	44	66	56	47	41	46	39	34	36	31	27	28	24	20	16
4	66	53	43	36	60	48	40	33	39	33	27	31	26	22	24	20	16	12
5	60	47	37	30	55	42	34	27	35	28	22	28	22	18	21	17	13	10
6	55	41	32	25	50	38	29	23	31	24	19	24	19	15	19	14	11	8
7	51	37	28	21	46	34	26	20	28	21	16	22	17	13	17	13	9	7
8	47	33	25	19	43	30	23	17	25	19	14	20	15	11	15	11	8	6
9	44	30	22	16	40	28	20	15	23	17	12	18	13	10	14	10	7	5
10	41	27	20	14	37	25	18	13	21	15	11	17	12	9	13	9	6	4

POLAR GRAPH



Maximum Candela = 117.98 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.)