

Photometric Toolbox

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EVNS0512LAJUDXX_IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 104559123CHI-003
 [TESTDATE] 3/12/2021
 [TESTLAB] Intertek
 [ISSUE DATE]
 [MANUFAC] AFX INC
 [LUMCAT] EVNS0512LAJUDSN
 [LUMINAIRE] Sconce
 [LAMP] LED
 [_TOTALLUMINAIRELUMENS] 783.6

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	17
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	Unknown
Luminous Length (0-180)	0.42 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	1.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
2.5	14.8	15.4	15.4	15.2	15.2	15.1	15.1	15.1	15.3	15.1
5.0	16.7	17.4	17.3	16.8	16.4	16.1	15.9	15.8	15.9	15.8
7.5	19.2	19.9	19.6	19.0	18.0	17.3	16.9	16.8	16.8	16.8
10.0	22.0	22.8	22.3	21.4	19.9	18.6	18.0	18.0	17.8	18.0
12.5	24.9	25.8	25.2	23.9	21.8	19.9	19.1	19.3	18.7	19.3
15.0	28.0	28.9	28.3	26.5	23.8	21.2	20.1	20.5	19.8	20.5
17.5	31.2	32.2	31.5	29.2	25.9	22.6	21.2	21.5	21.1	21.5
20.0	34.7	35.7	34.9	32.3	28.1	24.1	22.1	22.5	22.4	22.5
22.5	38.2	39.5	38.5	35.4	30.5	25.6	23.0	23.5	23.8	23.5
25.0	41.8	43.4	42.2	38.7	32.9	27.1	23.8	24.5	25.4	24.5
27.5	45.7	47.4	46.1	42.1	35.5	28.6	24.7	25.7	26.9	25.7
30.0	49.7	51.4	50.1	45.6	38.0	30.2	25.5	26.8	28.5	26.8
32.5	54.0	55.5	54.1	49.1	40.7	31.8	26.4	27.8	30.1	27.8
35.0	58.2	59.7	58.2	52.6	43.3	33.4	27.3	28.7	31.7	28.7
37.5	62.3	63.6	62.2	56.1	45.9	34.9	28.0	29.5	33.3	29.5
40.0	65.9	67.5	65.8	59.5	48.5	36.4	28.7	30.3	34.6	30.3
42.5	69.8	71.4	69.6	62.7	50.9	37.9	29.4	30.9	35.9	30.9
45.0	73.7	75.3	73.3	65.8	53.4	39.3	30.1	31.5	37.0	31.5
47.5	77.4	79.1	77.0	69.1	55.8	40.8	30.7	32.2	38.1	32.2
50.0	81.1	82.9	80.7	72.2	58.2	42.2	31.3	32.7	39.1	32.7
52.5	84.7	86.6	84.2	75.3	60.4	43.5	31.9	33.1	40.1	33.1
55.0	88.4	90.1	87.6	78.2	62.4	44.8	32.4	33.5	40.9	33.5
57.5	91.9	93.4	90.8	81.0	64.4	46.1	33.0	33.8	41.6	33.8
60.0	95.2	96.5	93.7	83.6	66.1	47.2	33.5	34.1	42.2	34.1
62.5	98.0	99.4	96.6	86.0	67.9	48.3	34.0	34.4	42.7	34.4
65.0	100.7	102.1	99.2	88.2	69.5	49.2	34.4	34.6	43.3	34.6
67.5	103.2	104.6	101.6	90.2	71.0	50.1	34.7	34.8	43.8	34.8
70.0	105.6	106.9	103.8	92.1	72.2	50.8	35.0	35.1	44.3	35.1
72.5	107.7	108.8	105.6	93.7	73.4	51.4	35.3	35.4	45.0	35.4
75.0	109.5	110.6	107.3	95.1	74.3	52.0	35.5	35.7	45.4	35.7
77.5	111.1	112.1	108.7	96.2	75.1	52.3	35.8	35.8	45.6	35.8
80.0	112.2	113.1	109.8	97.1	75.6	52.5	35.9	35.8	45.6	35.8
82.5	113.1	113.9	110.5	97.6	75.9	52.6	35.7	35.5	45.4	35.5
85.0	113.8	114.4	110.9	97.9	76.0	52.6	35.4	35.1	45.0	35.1
87.5	114.2	114.8	111.3	98.2	76.1	52.4	35.1	34.7	44.9	34.7
90.0	114.7	115.2	111.7	98.5	76.3	52.4	35.6	34.9	45.6	34.9
92.5	114.7	115.3	111.7	98.6	76.4	52.6	36.8	36.3	47.5	36.3
95.0	114.4	115.0	111.6	98.9	77.2	53.4	37.6	37.2	48.2	37.2
97.5	114.1	114.7	111.6	99.0	77.4	53.9	38.2	37.8	48.6	37.8
100.0	113.7	114.3	111.2	98.8	77.5	54.2	38.6	38.4	49.2	38.4
102.5	113.0	113.6	110.6	98.4	77.4	54.3	39.0	38.9	49.6	38.9
105.0	112.1	112.6	109.7	97.7	77.0	54.4	39.3	39.3	49.9	39.3
107.5	111.1	111.4	108.5	96.7	76.5	54.2	39.5	39.6	50.0	39.6
110.0	109.7	109.8	107.0	95.5	75.7	53.9	39.5	39.8	50.0	39.8
112.5	108.0	107.9	105.1	94.0	74.8	53.5	39.5	39.9	49.9	39.9
115.0	106.1	105.9	103.2	92.4	73.7	53.0	39.4	40.0	49.8	40.0
117.5	104.1	103.8	101.1	90.7	72.5	52.5	39.3	40.0	49.6	40.0
120.0	101.6	101.3	98.7	88.8	71.2	51.8	38.9	40.0	49.3	40.0
122.5	98.9	98.6	96.1	86.4	69.6	51.0	38.6	39.7	48.9	39.7
125.0	95.9	95.6	93.2	84.0	67.9	50.1	38.2	39.4	48.3	39.4
127.5	92.7	92.5	90.2	81.4	66.0	49.1	37.9	39.0	47.6	39.0
130.0	89.5	89.2	87.0	78.6	64.3	48.1	37.5	38.6	46.8	38.6
132.5	85.9	85.6	83.6	75.7	62.2	47.0	37.0	38.3	46.0	38.3

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CANDELA TABULATION - (Cont.)

135.0	82.2	82.0	80.0	72.7	60.1	45.8	36.6	38.0	45.1	38.0
137.5	78.3	78.2	76.4	69.5	57.9	44.6	36.1	37.6	44.3	37.6
140.0	74.5	74.4	72.8	66.4	55.6	43.3	35.7	37.1	43.4	37.1
142.5	70.6	70.6	69.1	63.3	53.4	42.1	35.2	36.6	42.2	36.6
145.0	66.6	66.6	65.4	60.2	51.1	40.8	34.8	36.0	40.9	36.0
147.5	63.1	62.8	61.8	57.1	48.8	39.6	34.2	35.3	39.5	35.3
150.0	59.3	59.1	58.2	54.1	46.5	38.3	33.6	34.4	38.0	34.4
152.5	55.5	55.5	54.5	51.0	44.2	37.0	33.0	33.5	36.4	33.5
155.0	51.6	51.9	51.1	48.0	41.9	35.6	32.2	32.5	34.6	32.5
157.5	48.2	48.3	47.6	45.2	39.7	34.1	31.2	31.4	32.8	31.4
160.0	45.0	44.7	46.0	42.4	37.7	32.6	30.2	30.3	31.0	30.3
162.5	41.8	41.0	43.2	39.8	35.4	31.0	29.1	29.1	29.1	29.1
165.0	39.0	39.3	40.8	37.0	33.1	29.6	28.0	27.9	27.5	27.9
167.5	34.6	35.4	36.8	34.4	31.0	28.4	26.9	26.8	26.5	26.8
170.0	31.4	31.1	33.3	32.1	29.3	27.2	25.8	25.8	25.6	25.8
172.5	28.1	27.8	29.3	29.3	27.6	26.0	24.9	24.6	24.6	24.6
175.0	25.5	24.9	25.9	26.2	25.8	24.8	24.1	23.8	23.7	23.8
177.5	23.4	22.8	22.9	23.4	23.6	23.4	23.1	23.0	22.7	23.0
180.0	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8

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	14.7	14.7	14.7	14.7	14.7	14.7	14.7
2.5	15.1	15.1	15.2	15.2	15.4	15.4	14.8
5.0	15.9	16.1	16.4	16.8	17.3	17.4	16.7
7.5	16.9	17.3	18.0	19.0	19.6	19.9	19.2
10.0	18.0	18.6	19.9	21.4	22.3	22.8	22.0
12.5	19.1	19.9	21.8	23.9	25.2	25.8	24.9
15.0	20.1	21.2	23.8	26.5	28.3	28.9	28.0
17.5	21.2	22.6	25.9	29.2	31.5	32.2	31.2
20.0	22.1	24.1	28.1	32.3	34.9	35.7	34.7
22.5	23.0	25.6	30.5	35.4	38.5	39.5	38.2
25.0	23.8	27.1	32.9	38.7	42.2	43.4	41.8
27.5	24.7	28.6	35.5	42.1	46.1	47.4	45.7
30.0	25.5	30.2	38.0	45.6	50.1	51.4	49.7
32.5	26.4	31.8	40.7	49.1	54.1	55.5	54.0
35.0	27.3	33.4	43.3	52.6	58.2	59.7	58.2
37.5	28.0	34.9	45.9	56.1	62.2	63.6	62.3
40.0	28.7	36.4	48.5	59.5	65.8	67.5	65.9
42.5	29.4	37.9	50.9	62.7	69.6	71.4	69.8
45.0	30.1	39.3	53.4	65.8	73.3	75.3	73.7
47.5	30.7	40.8	55.8	69.1	77.0	79.1	77.4
50.0	31.3	42.2	58.2	72.2	80.7	82.9	81.1
52.5	31.9	43.5	60.4	75.3	84.2	86.6	84.7
55.0	32.4	44.8	62.4	78.2	87.6	90.1	88.4
57.5	33.0	46.1	64.4	81.0	90.8	93.4	91.9
60.0	33.5	47.2	66.1	83.6	93.7	96.5	95.2
62.5	34.0	48.3	67.9	86.0	96.6	99.4	98.0
65.0	34.4	49.2	69.5	88.2	99.2	102.1	100.7
67.5	34.7	50.1	71.0	90.2	101.6	104.6	103.2
70.0	35.0	50.8	72.2	92.1	103.8	106.9	105.6
72.5	35.3	51.4	73.4	93.7	105.6	108.8	107.7
75.0	35.5	52.0	74.3	95.1	107.3	110.6	109.5
77.5	35.8	52.3	75.1	96.2	108.7	112.1	111.1
80.0	35.9	52.5	75.6	97.1	109.8	113.1	112.2

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CANDELA TABULATION - (Cont.)

82.5	35.7	52.6	75.9	97.6	110.5	113.9	113.1
85.0	35.4	52.6	76.0	97.9	110.9	114.4	113.8
87.5	35.1	52.4	76.1	98.2	111.3	114.8	114.2
90.0	35.6	52.4	76.3	98.5	111.7	115.2	114.7
92.5	36.8	52.6	76.4	98.6	111.7	115.3	114.7
95.0	37.6	53.4	77.2	98.9	111.6	115.0	114.4
97.5	38.2	53.9	77.4	99.0	111.6	114.7	114.1
100.0	38.6	54.2	77.5	98.8	111.2	114.3	113.7
102.5	39.0	54.3	77.4	98.4	110.6	113.6	113.0
105.0	39.3	54.4	77.0	97.7	109.7	112.6	112.1
107.5	39.5	54.2	76.5	96.7	108.5	111.4	111.1
110.0	39.5	53.9	75.7	95.5	107.0	109.8	109.7
112.5	39.5	53.5	74.8	94.0	105.1	107.9	108.0
115.0	39.4	53.0	73.7	92.4	103.2	105.9	106.1
117.5	39.3	52.5	72.5	90.7	101.1	103.8	104.1
120.0	38.9	51.8	71.2	88.8	98.7	101.3	101.6
122.5	38.6	51.0	69.6	86.4	96.1	98.6	98.9
125.0	38.2	50.1	67.9	84.0	93.2	95.6	95.9
127.5	37.9	49.1	66.0	81.4	90.2	92.5	92.7
130.0	37.5	48.1	64.3	78.6	87.0	89.2	89.5
132.5	37.0	47.0	62.2	75.7	83.6	85.6	85.9
135.0	36.6	45.8	60.1	72.7	80.0	82.0	82.2
137.5	36.1	44.6	57.9	69.5	76.4	78.2	78.3
140.0	35.7	43.3	55.6	66.4	72.8	74.4	74.5
142.5	35.2	42.1	53.4	63.3	69.1	70.6	70.6
145.0	34.8	40.8	51.1	60.2	65.4	66.6	66.6
147.5	34.2	39.6	48.8	57.1	61.8	62.8	63.1
150.0	33.6	38.3	46.5	54.1	58.2	59.1	59.3
152.5	33.0	37.0	44.2	51.0	54.5	55.5	55.5
155.0	32.2	35.6	41.9	48.0	51.1	51.9	51.6
157.5	31.2	34.1	39.7	45.2	47.6	48.3	48.2
160.0	30.2	32.6	37.7	42.4	46.0	44.7	45.0
162.5	29.1	31.0	35.4	39.8	43.2	41.0	41.8
165.0	28.0	29.6	33.1	37.0	40.8	39.3	39.0
167.5	26.9	28.4	31.0	34.4	36.8	35.4	34.6
170.0	25.8	27.2	29.3	32.1	33.3	31.1	31.4
172.5	24.9	26.0	27.6	29.3	29.3	27.8	28.1
175.0	24.1	24.8	25.8	26.2	25.9	24.9	25.5
177.5	23.1	23.4	23.6	23.4	22.9	22.8	23.4
180.0	21.8	21.8	21.8	21.8	21.8	21.8	21.8

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8.67	N.A.	1.10
0-30	24.24	N.A.	3.10
0-40	51.66	N.A.	6.60
0-60	148.16	N.A.	18.90
0-80	293.85	N.A.	37.50
0-90	375.90	N.A.	48.00
10-90	374.21	N.A.	47.80
20-40	42.99	N.A.	5.50
20-50	84.12	N.A.	10.70
40-70	164.58	N.A.	21.00
60-80	145.69	N.A.	18.60
70-80	77.61	N.A.	9.90
80-90	82.05	N.A.	10.50
90-110	163.99	N.A.	20.90
90-120	236.59	N.A.	30.20
90-130	297.19	N.A.	37.90
90-150	375.80	N.A.	48.00
90-180	407.51	N.A.	52.00
110-180	243.52	N.A.	31.10
0-180	783.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.69
10-20	6.98
20-30	15.57
30-40	27.42
40-50	41.14
50-60	55.36
60-70	68.09
70-80	77.61
80-90	82.05
90-100	83.35
100-110	80.65
110-120	72.60
120-130	60.60
130-140	46.40
140-150	32.20
150-160	19.60
160-170	9.61
170-180	2.51

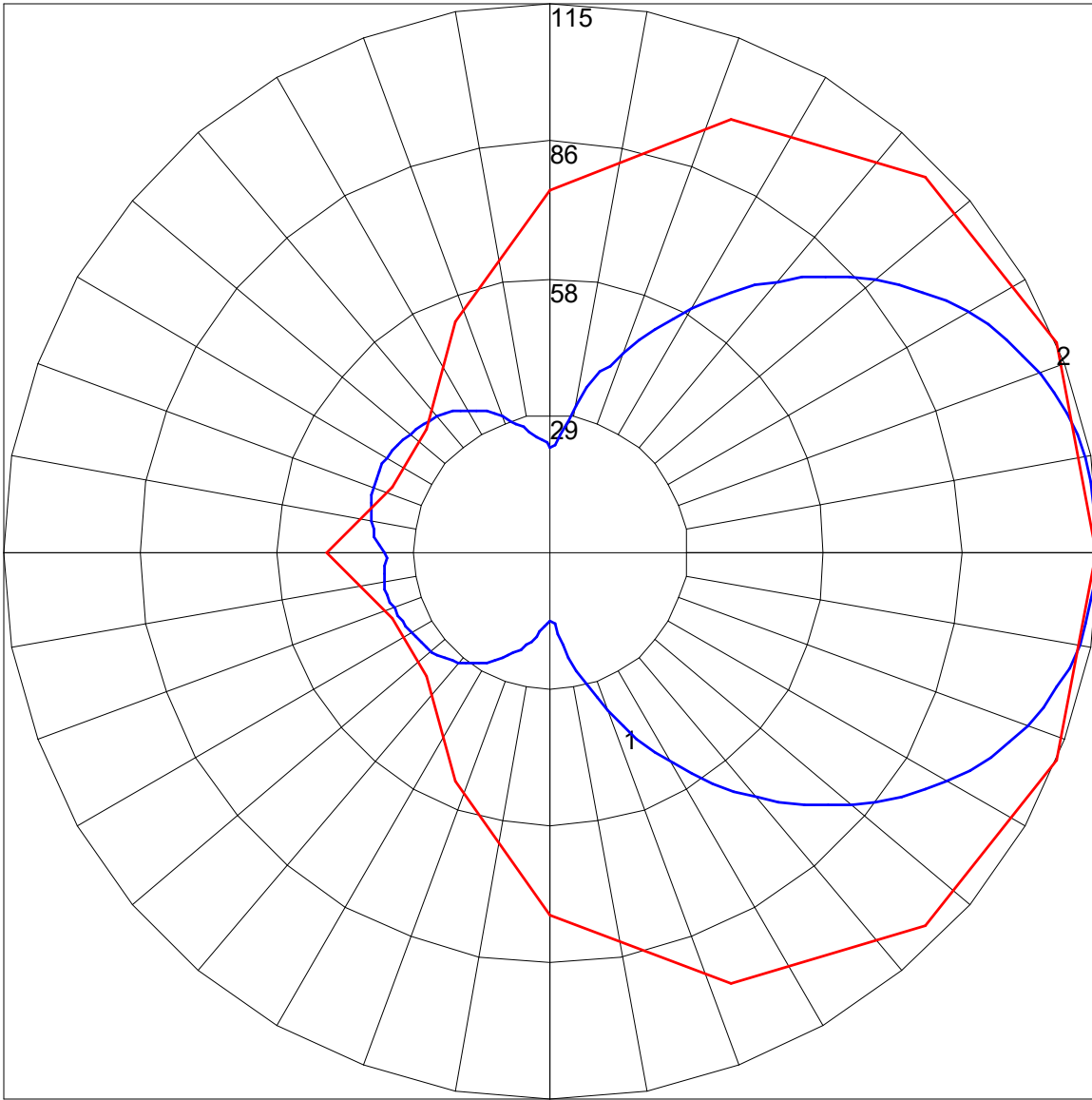
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	92	85	79	74	84	78	73	68	64	60	56	51	48	45	40	37	35	29
2	82	72	63	56	74	65	58	52	53	47	43	42	38	34	32	29	26	20
3	73	61	52	45	66	56	47	41	45	39	33	35	31	26	26	23	20	15
4	66	53	43	36	60	48	40	33	39	32	27	31	25	21	23	19	15	11
5	60	47	37	30	54	42	34	27	34	28	22	27	22	17	20	16	13	9
6	55	41	32	25	50	38	29	23	30	24	19	24	19	15	18	14	10	7
7	51	37	28	22	46	34	25	20	27	21	16	21	16	12	16	12	9	6
8	47	33	25	19	42	30	22	17	25	18	14	19	14	11	14	11	8	5
9	43	30	22	16	39	27	20	15	22	16	12	18	13	9	13	9	7	4
10	41	27	19	14	37	25	18	13	20	15	11	16	11	8	12	8	6	4

POLAR GRAPH



Maximum Candela = 115.3 Located At Horizontal Angle = 22.5, Vertical Angle = 92.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (92.5) (Through Max. Cd.)