

IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 80 CRI | LO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-35-U1S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	105	108	110	110
Total Lumens, 4' rail length (1219mm)	3109	3207	3273	3273
Lumens per foot (305mm)	777	802	818	818
Lumens per foot UP (305mm)	486	502	512	512
Lumens per foot DOWN (305mm)	291	300	306	306
Input Power (W), 4' rail length (1219mm)	29.8	29.8	29.8	29.8
Watts per foot (305mm)	7.5	7.5	7.5	7.5
CRI	82	82	82	82

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on vode.com.



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z3_CC_LO_35_U1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911547 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-CC-LO-35-U1S2-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/60° symmetric lens down,

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	29.78
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.26 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2276	3453	4364
55	1335	2087	3026
65	955	1408	2258
75	724	996	1669
85	405	499	981

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	766.76	766.76	766.76	766.76	766.76	766.76	766.76	766.76	766.76	766.76
1.0	766.76	766.76	766.18	766.18	766.76	766.76	766.76	766.76	766.76	766.76
3.0	764.44	764.44	765.02	765.02	765.02	765.02	765.02	765.02	765.02	765.02
5.0	760.38	760.38	760.96	760.96	760.96	760.96	761.54	761.54	761.54	762.12
7.0	754.00	754.00	754.00	754.58	754.58	755.16	755.74	756.32	756.90	757.48
9.0	744.14	744.14	745.30	745.30	745.88	746.46	747.62	748.78	749.36	750.52
11.0	731.38	731.96	732.54	733.12	733.70	735.44	736.60	738.34	740.08	741.24
13.0	715.72	716.30	716.88	718.04	719.20	721.52	723.26	725.58	727.32	729.64
15.0	696.58	697.16	698.32	700.06	702.38	704.70	707.02	709.92	713.40	716.30
17.0	674.54	674.54	676.28	678.02	680.92	684.40	687.88	691.94	696.00	700.06
19.5	640.32	641.48	643.22	646.12	650.18	654.82	660.04	665.84	671.06	676.28
22.5	592.18	593.34	595.66	599.72	605.52	611.90	618.86	626.40	633.36	640.90
25.5	536.50	537.66	541.14	546.36	553.90	562.02	571.30	580.58	590.44	599.14
29.0	463.42	465.16	469.22	476.18	484.88	495.90	507.50	519.68	531.86	542.30
33.0	375.84	377.00	382.22	390.34	401.36	414.12	428.04	442.54	457.04	469.80
37.5	281.88	283.62	288.84	296.96	307.98	321.32	336.40	352.06	367.72	382.22
42.5	197.20	198.36	203.00	209.96	219.24	231.42	244.76	259.26	274.34	288.26
47.5	136.30	137.46	140.94	146.16	153.70	162.40	172.84	184.44	196.62	208.80
55.0	81.78	82.36	84.10	87.58	91.64	96.86	102.66	109.62	117.16	124.70
65.0	45.24	45.82	46.40	47.56	49.88	51.62	54.52	57.42	60.90	64.38
75.0	23.20	23.20	23.78	23.78	24.94	25.52	26.68	27.84	29.00	30.16
85.0	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.96	6.96	6.96
90.0	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
95.0	16.24	16.24	16.24	16.24	16.82	16.82	16.82	17.40	17.40	17.98
100.0	44.08	44.08	44.66	45.24	46.40	47.56	48.72	50.46	51.62	53.36
105.0	86.42	87.00	87.58	88.16	89.90	91.06	92.80	94.54	96.28	98.02
110.0	137.46	137.46	138.04	139.20	140.94	142.68	144.42	146.74	148.48	150.80
115.0	196.62	196.62	197.78	198.94	200.68	202.42	204.74	207.06	209.38	212.28
120.0	264.48	264.48	265.64	266.80	268.54	270.28	273.18	276.66	280.14	283.62
125.0	339.30	339.30	340.46	342.20	344.52	346.84	349.74	352.64	356.12	358.44
130.0	418.18	418.76	419.34	420.50	422.24	423.98	426.30	428.04	430.36	432.10
135.0	492.42	493.00	493.00	494.16	495.32	496.48	497.64	499.38	500.54	501.70
140.0	558.54	558.54	559.12	559.70	560.28	560.86	562.02	562.60	563.76	564.92
145.0	614.80	615.38	615.38	615.96	615.96	616.54	617.70	618.28	618.86	620.02
150.0	662.94	662.94	662.94	663.52	663.52	664.10	664.68	665.26	665.84	666.42
155.0	702.38	702.38	702.38	702.96	702.96	703.54	703.54	704.12	704.70	705.28
160.0	734.28	733.70	734.28	734.28	734.28	734.28	734.86	734.86	735.44	735.44
165.0	757.48	757.48	757.48	758.06	758.06	758.06	758.06	758.06	758.06	758.06
170.0	773.72	773.72	773.72	773.72	773.72	773.72	773.72	773.72	773.72	773.72
175.0	783.00	783.00	783.00	783.00	783.00	783.00	783.00	783.00	783.00	783.00
180.0	785.32	785.32	785.32	785.32	785.32	785.32	785.32	785.32	785.32	785.32

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	766.76	766.76	766.76	766.76	766.76	766.76	766.76	766.76	766.76
1.0	766.76	766.18	766.76	766.18	766.76	766.18	766.76	766.18	766.18
3.0	765.60	765.02	765.60	765.60	765.60	765.60	765.60	765.60	765.60
5.0	762.12	762.70	762.70	763.28	763.28	763.28	763.86	763.86	763.86
7.0	758.06	758.64	758.64	759.22	759.80	760.38	760.38	760.38	760.38
9.0	751.68	752.26	753.42	754.00	754.58	755.16	755.74	755.74	755.74
11.0	742.98	744.14	745.88	746.46	747.62	748.20	748.78	748.78	748.78
13.0	731.96	733.70	735.44	737.18	738.34	739.50	740.08	740.66	740.66
15.0	719.20	721.52	723.84	726.16	727.90	729.06	729.64	730.22	730.22

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CANDELA TABULATION - (Cont.)

17.0	703.54	707.02	709.34	712.24	714.56	715.72	716.88	717.46	717.46
19.5	680.92	684.98	688.46	691.94	694.26	696.00	697.16	697.74	698.32
22.5	647.28	653.08	657.72	660.62	663.52	665.84	667.00	668.16	668.74
25.5	607.26	614.22	619.44	624.08	627.56	629.88	631.04	632.20	632.78
29.0	552.74	561.44	567.82	573.04	577.10	579.42	581.16	581.74	581.74
33.0	481.98	491.84	499.38	505.76	509.82	512.14	513.30	514.46	515.04
37.5	396.14	406.58	415.28	421.66	425.72	428.62	430.36	430.94	431.52
42.5	302.18	312.62	321.32	328.28	332.34	335.82	337.56	338.72	338.72
47.5	220.40	229.68	238.38	244.76	249.98	253.46	256.36	257.52	258.10
55.0	132.82	139.78	146.16	152.54	157.76	161.82	165.30	167.04	168.20
65.0	68.44	72.50	75.98	80.04	84.10	87.58	89.90	91.64	92.80
75.0	31.90	33.06	34.80	36.54	38.28	40.02	41.18	41.76	42.34
85.0	7.54	7.54	8.12	8.12	8.70	8.70	8.70	8.70	8.70
90.0	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95.0	18.56	19.14	20.30	20.88	21.46	21.46	22.04	22.62	22.62
100.0	54.52	55.68	56.26	56.84	57.42	59.16	59.74	59.74	60.32
105.0	99.18	100.92	102.08	103.82	105.56	106.72	107.30	107.88	107.88
110.0	152.54	154.86	157.76	160.08	161.82	162.98	163.56	164.14	164.14
115.0	215.76	219.24	221.56	223.88	225.04	226.20	227.36	227.94	227.94
120.0	287.10	289.42	291.74	293.48	295.22	296.38	297.54	298.12	298.70
125.0	360.76	363.08	364.82	366.56	367.72	369.46	370.62	371.20	371.78
130.0	433.84	435.58	437.32	439.06	440.80	441.96	442.54	443.12	443.70
135.0	503.44	504.60	506.34	507.50	508.66	509.82	510.98	510.98	511.56
140.0	566.08	567.24	568.40	569.56	570.72	571.30	571.88	571.88	571.88
145.0	620.60	621.76	622.92	623.50	624.08	624.66	624.66	625.24	625.24
150.0	667.58	668.16	668.74	669.32	669.32	669.90	669.90	670.48	670.48
155.0	705.28	705.86	706.44	706.44	706.44	707.02	707.02	707.02	707.02
160.0	736.02	736.02	736.02	736.02	736.02	736.60	736.60	736.60	736.60
165.0	758.64	758.64	758.64	758.64	758.64	758.64	758.64	758.64	758.64
170.0	774.30	773.72	773.72	773.72	774.30	773.72	774.30	774.30	774.30
175.0	783.00	783.00	783.00	783.00	783.00	783.00	783.00	783.00	783.00
180.0	785.32	785.32	785.32	785.32	785.32	785.32	785.32	785.32	785.32

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	260.46	N.A.	8.00
0-30	518.49	N.A.	15.80
0-40	748.07	N.A.	22.90
0-60	1060.31	N.A.	32.40
0-80	1201.41	N.A.	36.70
0-90	1224.75	N.A.	37.40
10-90	1166.04	N.A.	35.60
20-40	487.61	N.A.	14.90
20-50	694.87	N.A.	21.20
40-70	402.94	N.A.	12.30
60-80	141.10	N.A.	4.30
70-80	50.40	N.A.	1.50
80-90	23.34	N.A.	0.70
90-110	129.97	N.A.	4.00
90-120	342.39	N.A.	10.50
90-130	661.43	N.A.	20.20
90-150	1434.89	N.A.	43.80
90-180	2047.94	N.A.	62.60
110-180	1917.97	N.A.	58.60
0-180	3272.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.70
10-20	201.76
20-30	258.02
30-40	229.58
40-50	207.26
50-60	104.98
60-70	90.70
70-80	50.40
80-90	23.34
90-100	24.89
100-110	105.09
110-120	212.41
120-130	319.05
130-140	386.22
140-150	387.24
150-160	324.63
160-170	213.98
170-180	74.44

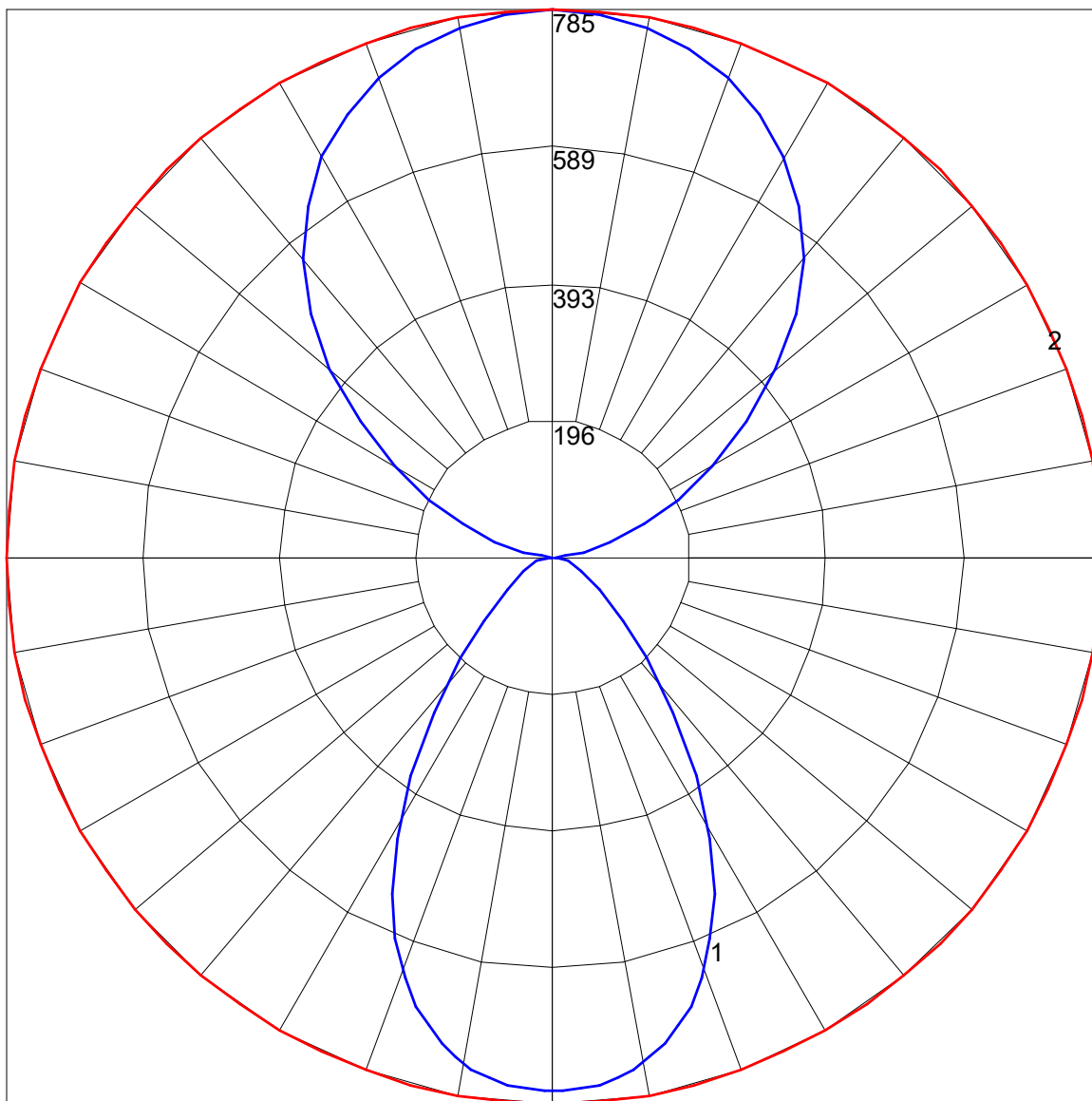
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	88	85	86	83	80	77	68	65	64	53	52	51	40	39	39	33
2	87	81	75	70	79	73	69	65	60	57	54	48	45	43	36	35	34	28
3	80	71	65	59	73	65	59	55	54	49	46	43	40	38	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	39	35	33	30	28	26	22
5	68	57	50	44	62	52	46	41	43	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	47	41	36	39	34	31	32	28	26	25	23	21	18
7	58	47	39	34	53	43	36	32	36	31	27	29	26	23	23	21	19	16
8	54	43	35	30	49	39	33	28	33	28	25	27	23	21	21	19	17	15
9	51	39	32	27	46	36	30	25	30	26	22	25	21	19	20	17	16	13
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 785.32 Located At Horizontal Angle = 0, Vertical Angle = 180

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)