

IES Report

Nexa™ | 3.25" Critical Edge™ | 807 | 90 CRI | VLO

807-NX3-XX-4-48-XX-XX-XX-XX-XX-Z-VLO-359-CE-XX-AL-X / BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	90	93	95	96
Total Lumens, 4' rail length (1219mm)	742	766	781	789
Lumens per foot (305mm)	186	191	195	197
Input Power (W), 4' rail length (1219mm)	8.3	8.3	8.3	8.3
Watts per foot (305mm)	2.1	2.1	2.1	2.1
CRI	90	90	90	90

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 : 807 - NEXA3 - 35K - 90CRI -VLO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L092212503
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 9/30/2022
[MANUFAC] Vode Lighting LLC
[LUMCAT] 807-NX3-SL-48-XX-0-XX-XX-2-0-Z-VLO-359-CE-0-AL-0
[LUMINAIRE] System 807, Nexa3, Surface, 48, Surface Mount, 35k, 90CRI
[MORE] Critical Edge, Very 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	798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	8.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.27 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2565	2558	2545
55	2487	2483	2462
65	2403	2386	2369
75	2308	2290	2262
85	2413	2385	2331

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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	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52
5	268.08	268.08	268.08	268.32	268.08	268.56	268.32	268.08	268.32	268.56
10	264.72	264.72	264.48	264.96	264.48	264.72	264.96	264.96	264.72	264.72
15	259.20	259.20	258.96	258.96	258.96	258.96	258.96	258.96	259.20	258.96
20	251.04	250.80	250.56	250.80	250.56	250.56	251.04	251.04	250.80	250.80
25	240.72	240.48	240.72	240.48	240.48	240.48	240.72	240.24	240.72	240.48
30	228.48	228.24	228.24	228.24	228.24	228.24	228.24	227.76	228.24	227.76
35	214.56	214.56	214.32	214.32	214.08	213.84	214.08	213.84	213.84	213.36
40	199.68	199.68	199.68	199.68	199.68	199.68	199.44	199.44	199.20	198.96
45	182.16	182.16	182.16	182.16	182.16	182.16	181.92	181.92	181.92	181.68
50	163.44	163.44	163.44	163.20	163.20	163.20	163.20	162.96	162.96	162.96
55	143.28	143.28	143.28	143.28	143.28	143.28	143.28	143.04	143.04	143.04
60	122.88	122.88	122.88	122.88	122.88	122.64	122.64	122.40	122.40	122.40
65	102.00	101.76	101.76	101.76	101.76	101.76	101.52	101.52	101.28	101.28
70	80.88	80.88	80.88	80.88	80.64	80.64	80.64	80.40	80.40	80.16
75	60.00	60.00	60.00	60.00	60.00	60.00	59.76	59.76	59.52	59.52
80	40.08	40.08	40.08	40.08	40.08	39.84	39.84	39.84	39.84	39.60
85	21.12	21.12	21.12	21.12	21.12	21.12	21.12	20.88	20.88	20.88
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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>	<u>95</u>
0	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52
5	268.32	268.08	268.32	268.32	268.32	268.32	268.56	268.56	268.56	268.56
10	264.72	264.72	264.96	265.20	264.96	265.20	265.20	265.20	265.20	265.44
15	258.96	259.20	258.96	259.20	258.96	259.20	259.20	259.20	259.20	258.96
20	250.80	250.80	250.80	250.80	250.80	250.80	250.80	251.04	250.80	251.04
25	240.24	240.48	240.24	240.24	240.24	240.00	240.24	240.48	240.48	240.48
30	227.76	227.76	227.76	227.52	228.00	227.76	227.76	227.76	227.76	227.52
35	213.36	213.36	213.36	213.36	213.36	213.36	213.36	213.36	213.36	213.36
40	198.72	198.72	198.48	198.48	198.48	198.48	198.48	198.48	198.48	198.48
45	181.44	181.20	180.96	180.96	180.72	180.72	180.72	180.72	180.72	180.72
50	162.72	162.48	162.48	162.24	162.00	162.00	162.00	161.76	162.00	162.00
55	142.80	142.80	142.56	142.32	142.08	142.08	142.08	141.84	141.84	142.08
60	122.16	122.16	122.16	121.92	121.68	121.44	121.44	121.44	121.44	121.44
65	101.28	101.04	101.04	101.04	100.80	100.56	100.56	100.32	100.56	100.56
70	80.16	79.92	79.92	79.92	79.92	79.68	79.44	79.44	79.44	79.44
75	59.52	59.28	59.28	59.04	59.04	59.04	59.04	59.04	58.80	58.80
80	39.60	39.36	39.36	39.36	39.12	39.12	39.12	39.12	39.12	39.12
85	20.88	20.64	20.64	20.64	20.64	20.40	20.40	20.40	20.40	20.40
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52	269.52
5	268.56	268.80	268.80	268.80	269.04	268.80	268.80	268.80	268.80	268.80
10	265.20	265.20	265.44	265.44	265.44	265.44	265.20	265.44	265.44	265.44
15	259.20	259.20	259.20	259.20	259.20	259.44	259.20	259.44	259.68	259.68
20	250.80	251.04	251.04	251.28	251.28	251.76	251.52	251.76	251.76	251.52
25	240.72	240.72	240.72	240.72	240.72	240.72	240.96	240.96	241.44	241.20
30	228.00	227.76	228.00	228.24	228.24	228.24	228.48	228.48	228.72	228.96
35	213.36	213.36	213.36	213.84	213.84	214.08	214.32	214.56	214.56	214.56

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CANDELA TABULATION - (Cont.)

40	198.48	198.72	198.72	198.96	199.20	199.20	199.44	199.68	199.92	200.16
45	180.96	180.96	180.96	181.20	181.44	181.68	181.92	182.16	182.40	182.64
50	162.00	162.00	162.24	162.24	162.48	162.96	163.20	163.44	163.44	163.68
55	142.08	142.08	142.32	142.56	142.80	143.04	143.28	143.28	143.52	143.76
60	121.44	121.68	121.68	122.16	122.16	122.40	122.64	122.64	122.88	123.12
65	100.56	100.56	100.80	101.04	101.28	101.28	101.52	101.52	101.76	101.76
70	79.68	79.68	79.92	79.92	79.92	80.16	80.16	80.40	80.64	80.88
75	59.04	59.04	59.04	59.28	59.28	59.28	59.52	59.76	59.76	60.00
80	39.12	39.12	39.12	39.36	39.36	39.36	39.60	39.60	39.84	39.84
85	20.40	20.40	20.64	20.64	20.64	20.64	20.88	20.88	20.88	20.88
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	269.52	269.52	269.52	269.52	269.52	269.52	269.52
5	268.80	269.04	269.04	269.04	269.04	269.04	268.80
10	265.44	265.44	265.44	265.68	265.68	265.44	265.44
15	259.68	259.92	259.68	259.92	259.68	259.92	259.92
20	251.76	251.76	251.76	251.76	251.76	251.76	251.76
25	241.44	241.44	241.68	241.44	241.44	241.68	241.44
30	228.96	229.20	229.44	229.44	229.44	229.44	229.44
35	214.80	215.04	215.04	215.04	215.52	215.76	215.28
40	200.40	200.88	200.64	200.88	201.12	201.36	202.32
45	182.64	182.88	182.88	183.12	183.12	183.12	183.12
50	163.92	163.92	164.16	164.16	164.16	164.40	164.40
55	143.76	144.00	144.00	144.24	144.24	144.24	144.24
60	123.12	123.12	123.36	123.36	123.36	123.60	123.60
65	102.00	102.24	102.24	102.24	102.48	102.48	102.48
70	80.88	81.12	81.12	81.12	81.12	81.36	81.36
75	60.00	60.24	60.24	60.24	60.24	60.24	60.48
80	40.08	40.08	40.08	40.08	40.08	40.08	40.08
85	21.12	21.12	21.12	21.12	21.12	21.12	21.12
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	98.70	N.A	12.40
0-30	209.65	N.A	26.30
0-40	343.77	N.A	43.10
0-60	611.89	N.A	76.70
0-80	775.44	N.A	97.20
0-90	797.56	N.A	100.00
10-90	772.04	N.A	96.80
20-40	245.07	N.A	30.70
20-50	385.31	N.A	48.30
40-70	368.55	N.A	46.20
60-80	163.54	N.A	20.50
70-80	63.12	N.A	7.90
80-90	22.13	N.A	2.80
90-110	0.00	N.A	0.00
90-120	0.00	N.A	0.00
90-130	0.00	N.A	0.00
90-150	0.00	N.A	0.00
90-180	0.00	N.A	0.00
110-180	0.00	N.A	0.00
0-180	797.56	N.A	100.00

Total Luminaire Efficiency = N.A%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.53
10-20	73.17
20-30	110.95
30-40	134.12
40-50	140.24
50-60	127.88
60-70	100.42
70-80	63.12
80-90	22.13
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

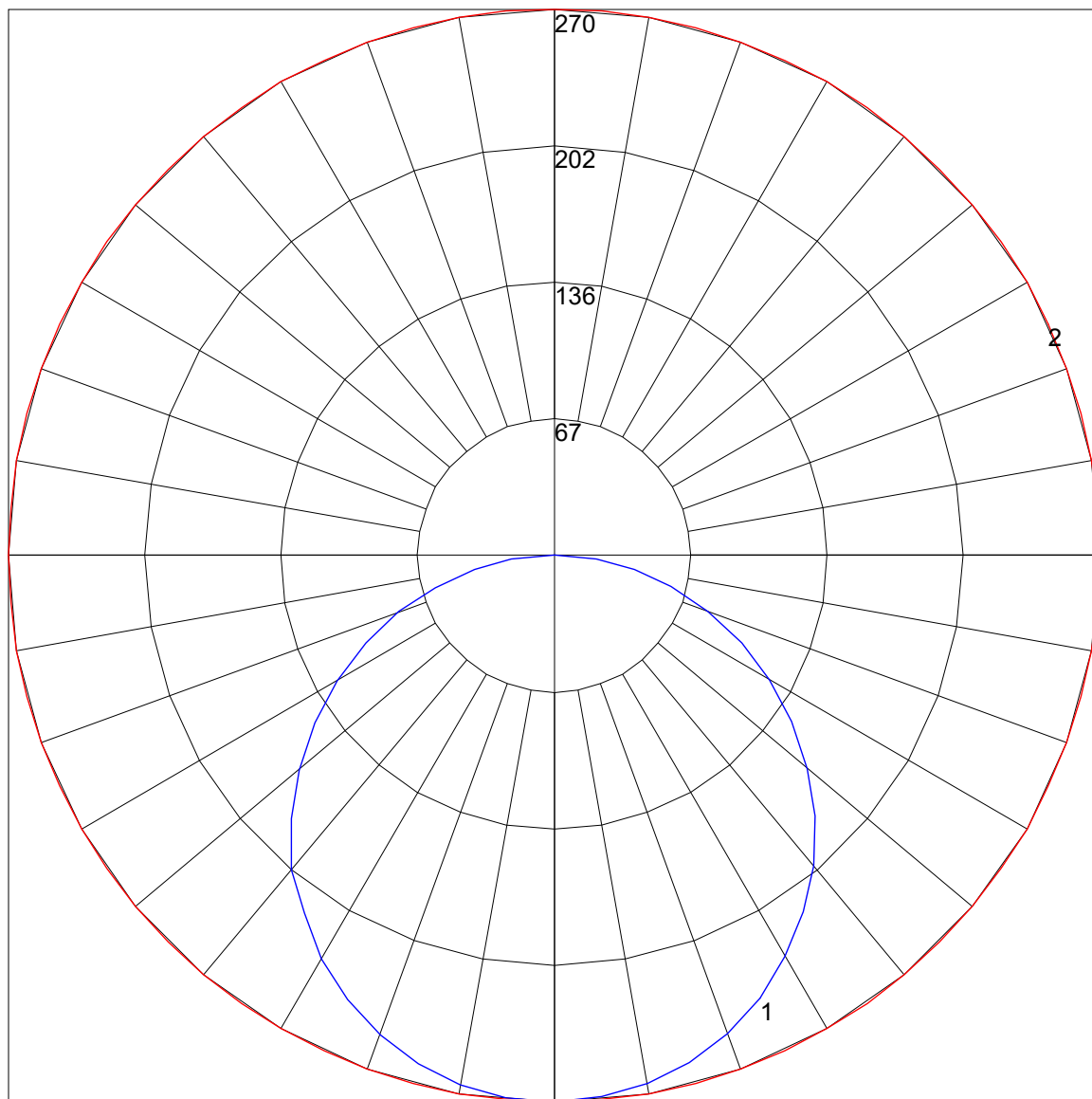
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 270 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)