

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LNS-8-90-MVD-8.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]P218261  
 [MORE]TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)  
 [TESTLAB]INNOVATION CENTER-P3  
 [ISSUEDATE]5/23/2017  
 [LUMCAT]8TSNLED-LD5-91SL-LN-UNV-L840-CD1-U  
 [LUMINAIRE]LED STRIP LIGHT - SNLED SERIES 8FOOT  
 [MORE]  
 [MORE]  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_CRI] 80  
 [\_SEARCH\_COLORTEMP] 4000  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Area, Classroom, Commercial, Educational, Entertainment, Hallway, Healthcare,  
 [\_SEARCH\_MOUNTING] Ceiling, Suspended, Wall  
 [\_ABSOLUTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
 [MORE]ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS  
 [MORE]CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER  
 [MORE]WITH TEST DISTANCE OF 28.75 FEET  
 [\_ABSOLUTELUMENS]9324

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	69.18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.17 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28867	11821	9087
55	22827	7977	6530
65	15403	5434	4523
75	9354	3888	3099
85	4392	3139	2409

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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>
<b>0.0</b>	4038.0	4038.0	4038.0	4038.0	4038.0
<b>2.5</b>	4062.6	4042.9	4003.6	4028.2	4013.4
<b>5.0</b>	4057.6	4033.1	3979.0	3998.7	3974.1
<b>7.5</b>	4042.9	4013.4	3939.7	3949.6	3910.3
<b>10.0</b>	4018.3	3979.0	3885.7	3875.9	3836.6
<b>12.5</b>	3988.9	3939.7	3826.8	3792.4	3753.1
<b>15.0</b>	3954.5	3885.7	3743.3	3699.0	3649.9
<b>17.5</b>	3915.2	3821.9	3659.7	3591.0	3536.9
<b>20.0</b>	3861.2	3748.2	3551.7	3468.2	3409.2
<b>22.5</b>	3807.1	3659.7	3438.7	3325.7	3261.8
<b>25.0</b>	3728.5	3561.5	3306.0	3173.4	3089.9
<b>27.5</b>	3640.1	3448.5	3158.7	2986.7	2893.4
<b>30.0</b>	3536.9	3315.9	2996.6	2795.2	2711.6
<b>32.5</b>	3423.9	3168.5	2800.1	2583.9	2490.6
<b>35.0</b>	3296.2	3001.5	2598.7	2372.7	2274.4
<b>37.5</b>	3139.0	2819.7	2397.3	2166.4	2087.8
<b>40.0</b>	2981.8	2628.1	2195.8	1979.7	1896.2
<b>42.5</b>	2805.0	2416.9	1989.5	1793.0	1734.1
<b>45.0</b>	2588.8	2200.8	1788.1	1635.8	1596.5
<b>47.5</b>	2377.6	1979.7	1606.4	1498.3	1463.9
<b>50.0</b>	2161.5	1763.6	1434.4	1365.6	1341.1
<b>52.5</b>	1910.9	1552.3	1292.0	1247.8	1237.9
<b>55.0</b>	1675.1	1360.7	1154.4	1134.8	1129.9
<b>57.5</b>	1449.2	1179.0	1026.7	1041.4	1031.6
<b>60.0</b>	1237.9	1012.0	913.7	933.4	928.4
<b>62.5</b>	1031.6	859.7	810.5	849.8	840.0
<b>65.0</b>	844.9	727.0	727.0	756.5	746.7
<b>67.5</b>	682.8	619.0	648.4	677.9	668.1
<b>70.0</b>	545.3	520.7	579.7	604.2	594.4
<b>72.5</b>	422.5	437.2	510.9	540.4	525.6
<b>75.0</b>	324.2	368.4	461.8	486.3	471.6
<b>77.5</b>	230.9	309.5	417.6	437.2	422.5
<b>80.0</b>	162.1	260.4	378.3	397.9	383.2
<b>82.5</b>	103.2	221.1	343.9	363.5	353.7
<b>85.0</b>	58.9	186.7	314.4	334.0	324.2
<b>87.5</b>	29.5	162.1	284.9	309.5	299.7
<b>90.0</b>	0.0	137.5	265.3	289.8	280.0
<b>92.5</b>	0.0	122.8	245.6	270.2	260.4
<b>95.0</b>	0.0	108.1	226.0	250.5	245.6
<b>97.5</b>	0.0	98.2	211.2	235.8	226.0
<b>100.0</b>	0.0	83.5	191.6	216.1	211.2
<b>102.5</b>	0.0	78.6	176.8	201.4	196.5
<b>105.0</b>	0.0	68.8	162.1	186.7	186.7
<b>107.5</b>	0.0	63.9	152.3	176.8	171.9
<b>110.0</b>	0.0	54.0	137.5	162.1	162.1
<b>112.5</b>	0.0	49.1	127.7	152.3	147.4
<b>115.0</b>	0.0	44.2	117.9	142.5	137.5
<b>117.5</b>	0.0	44.2	108.1	127.7	127.7
<b>120.0</b>	0.0	39.3	98.2	117.9	117.9
<b>122.5</b>	0.0	34.4	88.4	108.1	108.1
<b>125.0</b>	0.0	29.5	78.6	98.2	98.2
<b>127.5</b>	0.0	29.5	73.7	93.3	93.3
<b>130.0</b>	0.0	24.6	63.9	83.5	83.5
<b>132.5</b>	0.0	19.6	58.9	73.7	73.7

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.0	19.6	54.0	68.8	68.8
<b>137.5</b>	0.0	14.7	44.2	58.9	58.9
<b>140.0</b>	0.0	14.7	39.3	54.0	54.0
<b>142.5</b>	0.0	9.8	34.4	49.1	44.2
<b>145.0</b>	0.0	9.8	29.5	39.3	39.3
<b>147.5</b>	0.0	4.9	24.6	34.4	34.4
<b>150.0</b>	0.0	4.9	19.6	29.5	24.6
<b>152.5</b>	0.0	0.0	0.0	0.0	0.0
<b>155.0</b>	0.0	0.0	0.0	0.0	0.0
<b>157.5</b>	0.0	0.0	0.0	0.0	0.0
<b>160.0</b>	0.0	0.0	0.0	0.0	0.0
<b>162.5</b>	0.0	0.0	0.0	0.0	0.0
<b>165.0</b>	0.0	0.0	0.0	0.0	0.0
<b>167.5</b>	0.0	0.0	0.0	0.0	0.0
<b>170.0</b>	0.0	0.0	0.0	0.0	0.0
<b>172.5</b>	0.0	0.0	0.0	0.0	0.0
<b>175.0</b>	0.0	0.0	0.0	0.0	0.0
<b>177.5</b>	0.0	0.0	0.0	0.0	0.0
<b>180.0</b>	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1445.05	N.A.	15.50
0-30	2987.89	N.A.	32.00
0-40	4667.06	N.A.	50.10
0-60	7293.53	N.A.	78.20
0-80	8506.46	N.A.	91.20
0-90	8791.05	N.A.	94.30
10-90	8411.42	N.A.	90.20
20-40	3222.01	N.A.	34.60
20-50	4713.32	N.A.	50.60
40-70	3380.15	N.A.	36.30
60-80	1212.93	N.A.	13.00
70-80	459.25	N.A.	4.90
80-90	284.58	N.A.	3.10
90-110	330.76	N.A.	3.50
90-120	423.67	N.A.	4.50
90-130	482.61	N.A.	5.20
90-150	531.83	N.A.	5.70
90-180	532.92	N.A.	5.70
110-180	202.16	N.A.	2.20
0-180	9323.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	379.62
10-20	1065.43
20-30	1542.84
30-40	1679.17
40-50	1491.31
50-60	1135.16
60-70	753.68
70-80	459.25
80-90	284.58
90-100	194.36
100-110	136.40
110-120	92.90
120-130	58.94
130-140	33.49
140-150	15.73
150-160	1.09
160-170	0.00
170-180	0.00

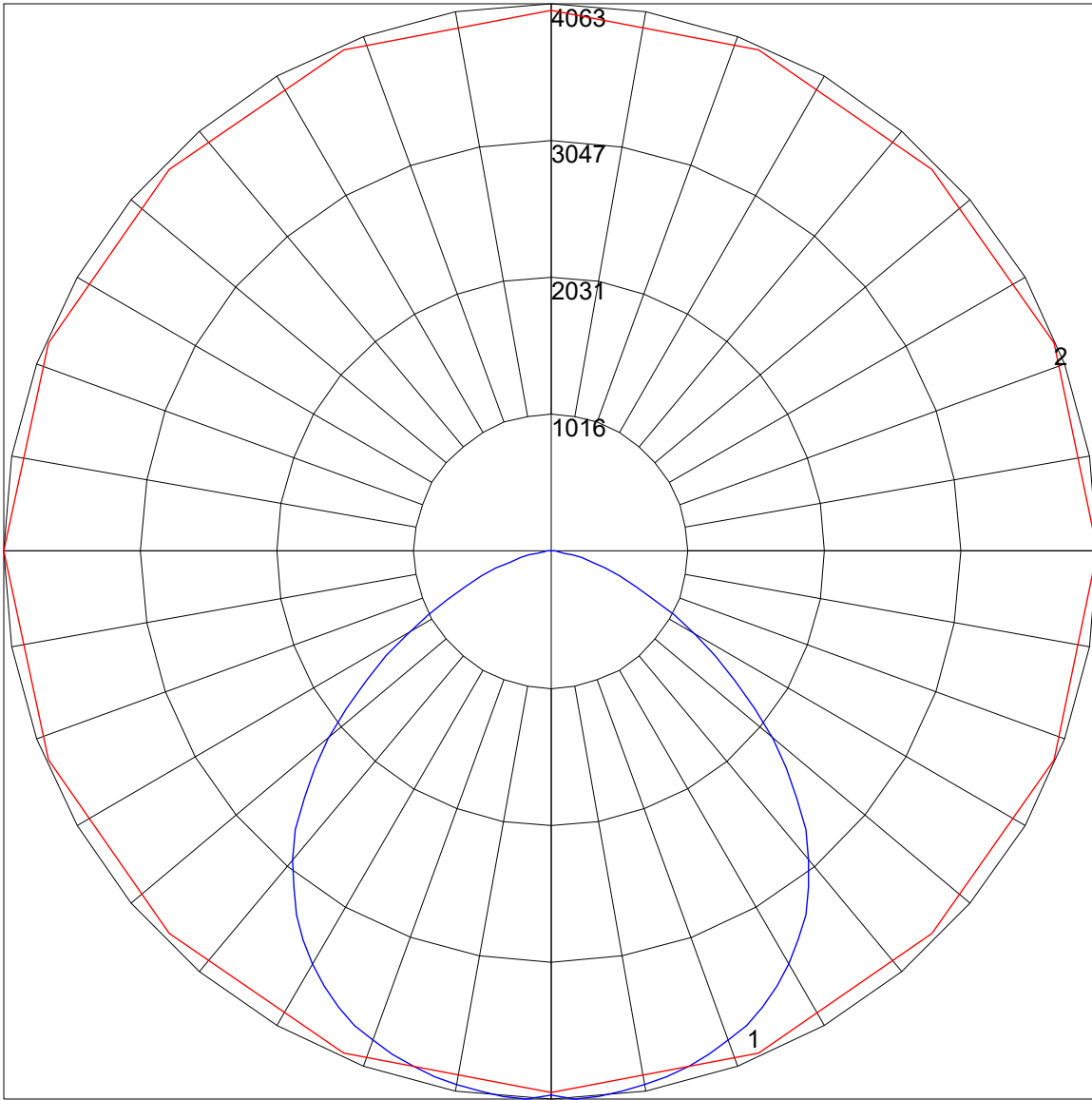
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	99	91	85	79	79	96	89	83	78	84	79	75	80	76	73	76	73	70	68
3	91	81	73	67	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	73	64	58	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	45	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40
7	67	54	46	40	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36
8	63	50	42	36	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32
9	59	46	38	33	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29
10	55	42	35	30	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27

POLAR GRAPH



Maximum Candela = 4062.6 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)