



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 SL UV FRA 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-008A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 7/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] NVL G2 8 SL UV FRA 935

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed  
[MORE] white painted steel LED tray/reflector, translucent linear stepped plastic  
[MORE] lens.

[LAMP] 112 white LEDs on four LS3872A6-3500K-R90 LED boards with 28 LEDs  
[MORE] each.

[BALLAST] One ULT Everline D10CC30UNVPW-C LED driver labeled as 680mA

[OTHER] 120.0Vac, 60.00Hz

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4074
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	29.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.27 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.16 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2756	2373	2297
55	2381	2036	2066
65	1949	1741	1917
75	1524	1531	1780
85	1063	1406	1608

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	499.58	N.A.	12.30
0-30	1042.39	N.A.	25.60
0-40	1686.7	N.A.	41.40
0-60	2912.56	N.A.	71.50
0-80	3676.63	N.A.	90.20
0-90	3859.66	N.A.	94.70
10-90	3728.58	N.A.	91.50
20-40	1187.12	N.A.	29.10
20-50	1839.04	N.A.	45.10
40-70	1677.44	N.A.	41.20
60-80	764.07	N.A.	18.80
70-80	312.49	N.A.	7.70
80-90	183.03	N.A.	4.50
90-110	166.72	N.A.	4.10
90-120	198.71	N.A.	4.90
90-130	211.16	N.A.	5.20
90-150	214.20	N.A.	5.30
90-180	214.43	N.A.	5.30
110-180	47.71	N.A.	1.20
0-180	4074.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.08
10-20	368.50
20-30	542.81
30-40	644.31
40-50	651.92
50-60	573.94
60-70	451.58
70-80	312.49
80-90	183.03
90-100	104.70
100-110	62.03
110-120	31.99
120-130	12.44
130-140	2.41
140-150	0.64
150-160	0.23
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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	82	79	77
2	97	88	81	75	93	85	79	73	81	76	71	77	72	68	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	58	65	60	56	53
4	81	68	59	52	78	67	58	52	63	56	51	60	54	49	58	52	48	46
5	74	61	52	45	72	60	51	45	57	49	44	54	48	43	52	46	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	38	47	41	37	35
7	63	50	41	35	61	49	40	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	22

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**UGR TABLE - CORRECTED**

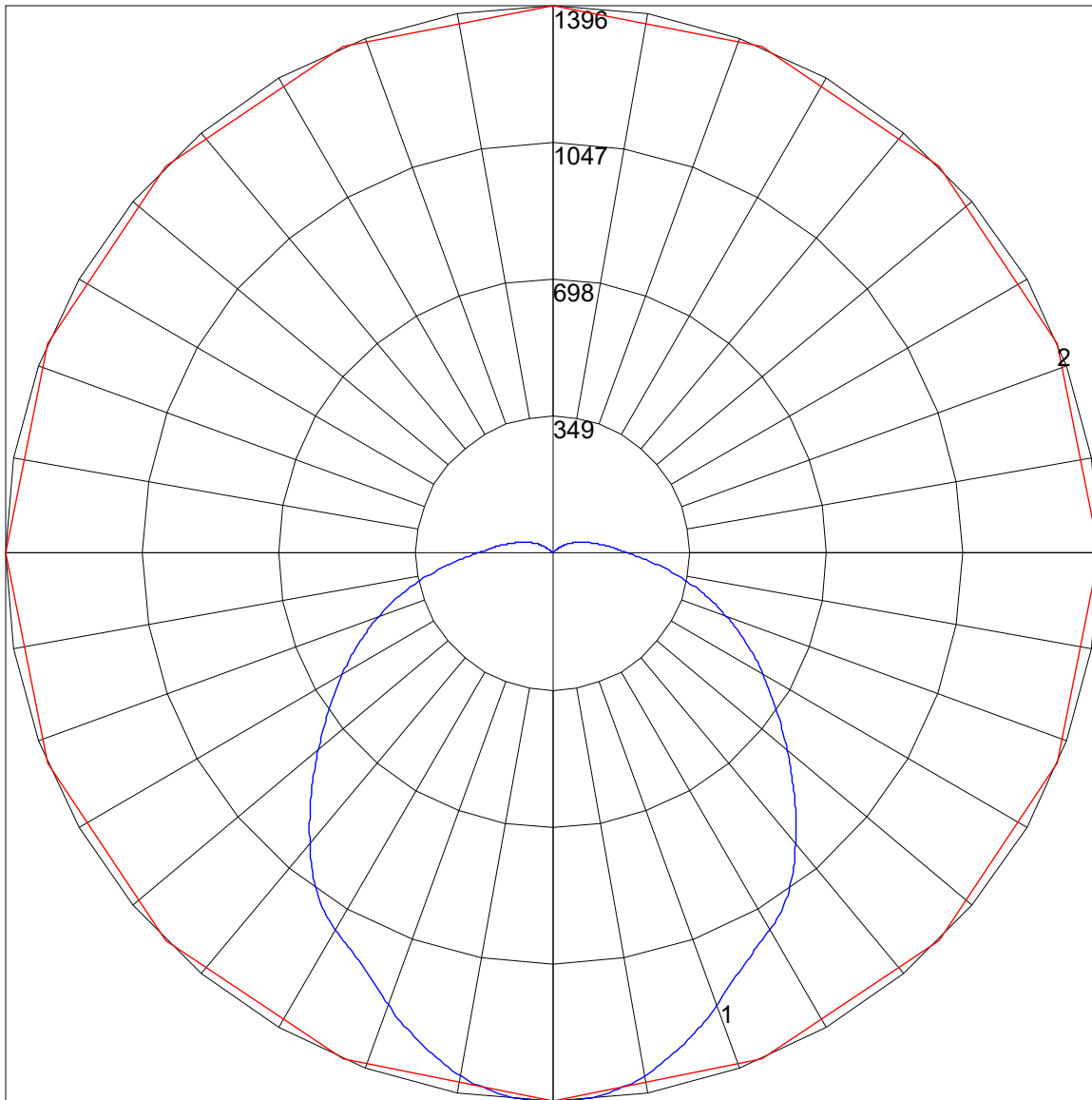
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.1	14.7	13.6	15.1	15.5	14.9	16.5	15.4	16.9	17.3
	3H	14.4	15.8	14.9	16.2	16.7	17.3	18.7	17.8	19.2	19.6
	4H	14.8	16.2	15.3	16.6	17.1	18.5	19.8	18.9	20.2	20.7
	6H	15.1	16.3	15.6	16.8	17.3	19.6	20.8	20.1	21.3	21.8
	8H	15.1	16.3	15.6	16.8	17.3	20.1	21.3	20.6	21.8	22.3
	12H	15.2	16.3	15.7	16.8	17.3	20.7	21.9	21.2	22.3	22.9
4H	2H	13.9	15.2	14.3	15.6	16.1	15.3	16.6	15.8	17.1	17.6
	3H	15.4	16.6	15.9	17.0	17.6	17.9	19.1	18.4	19.6	20.1
	4H	16.0	17.0	16.5	17.5	18.0	19.3	20.3	19.8	20.8	21.3
	6H	16.3	17.2	16.9	17.8	18.3	20.6	21.5	21.1	22.0	22.6
	8H	16.4	17.3	17.0	17.8	18.4	21.2	22.1	21.8	22.6	23.2
	12H	16.5	17.3	17.1	17.8	18.4	21.9	22.7	22.5	23.3	23.9
8H	4H	16.6	17.4	17.1	18.0	18.6	19.5	20.3	20.0	20.8	21.4
	6H	17.1	17.9	17.7	18.4	19.0	20.9	21.7	21.5	22.2	22.8
	8H	17.3	18.0	17.9	18.6	19.1	21.7	22.4	22.3	23.0	23.6
	12H	17.4	18.0	18.0	18.6	19.3	22.6	23.2	23.2	23.8	24.4
12H	4H	16.8	17.5	17.3	18.1	18.7	19.5	20.2	20.0	20.8	21.4
	6H	17.4	18.1	18.0	18.6	19.3	21.0	21.6	21.6	22.2	22.8
	8H	17.7	18.2	18.2	18.8	19.5	21.8	22.4	22.4	23.0	23.6

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1395.663 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)