



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 VL UV FRA 930.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 4 VL UV FRA 930

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

[LAMP] 56 white LEDs on two LS3872A6-3000K-R90 LED boards with 28 LEDs  
[MORE] each.

[BALLAST] One ULT Everline D700C20UNVPW-C LED driver labeled as 340mA

[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	2029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	16.1
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)	4.27 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	2612	2265	2214
55	2241	1936	1992
65	1813	1649	1849
75	1384	1439	1716
85	879	1303	1550

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	248.75	N.A.	12.30
0-30	519.02	N.A.	25.60
0-40	839.83	N.A.	41.40
0-60	1450.2	N.A.	71.50
0-80	1830.64	N.A.	90.20
0-90	1921.77	N.A.	94.70
10-90	1856.51	N.A.	91.50
20-40	591.08	N.A.	29.10
20-50	915.68	N.A.	45.10
40-70	835.22	N.A.	41.20
60-80	380.44	N.A.	18.80
70-80	155.59	N.A.	7.70
80-90	91.13	N.A.	4.50
90-110	83.01	N.A.	4.10
90-120	98.94	N.A.	4.90
90-130	105.14	N.A.	5.20
90-150	106.66	N.A.	5.30
90-180	106.77	N.A.	5.30
110-180	23.75	N.A.	1.20
0-180	2028.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.27
10-20	183.48
20-30	270.27
30-40	320.81
40-50	324.60
50-60	285.77
60-70	224.85
70-80	155.59
80-90	91.13
90-100	52.13
100-110	30.88
110-120	15.93
120-130	6.20
130-140	1.20
140-150	0.32
150-160	0.11
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

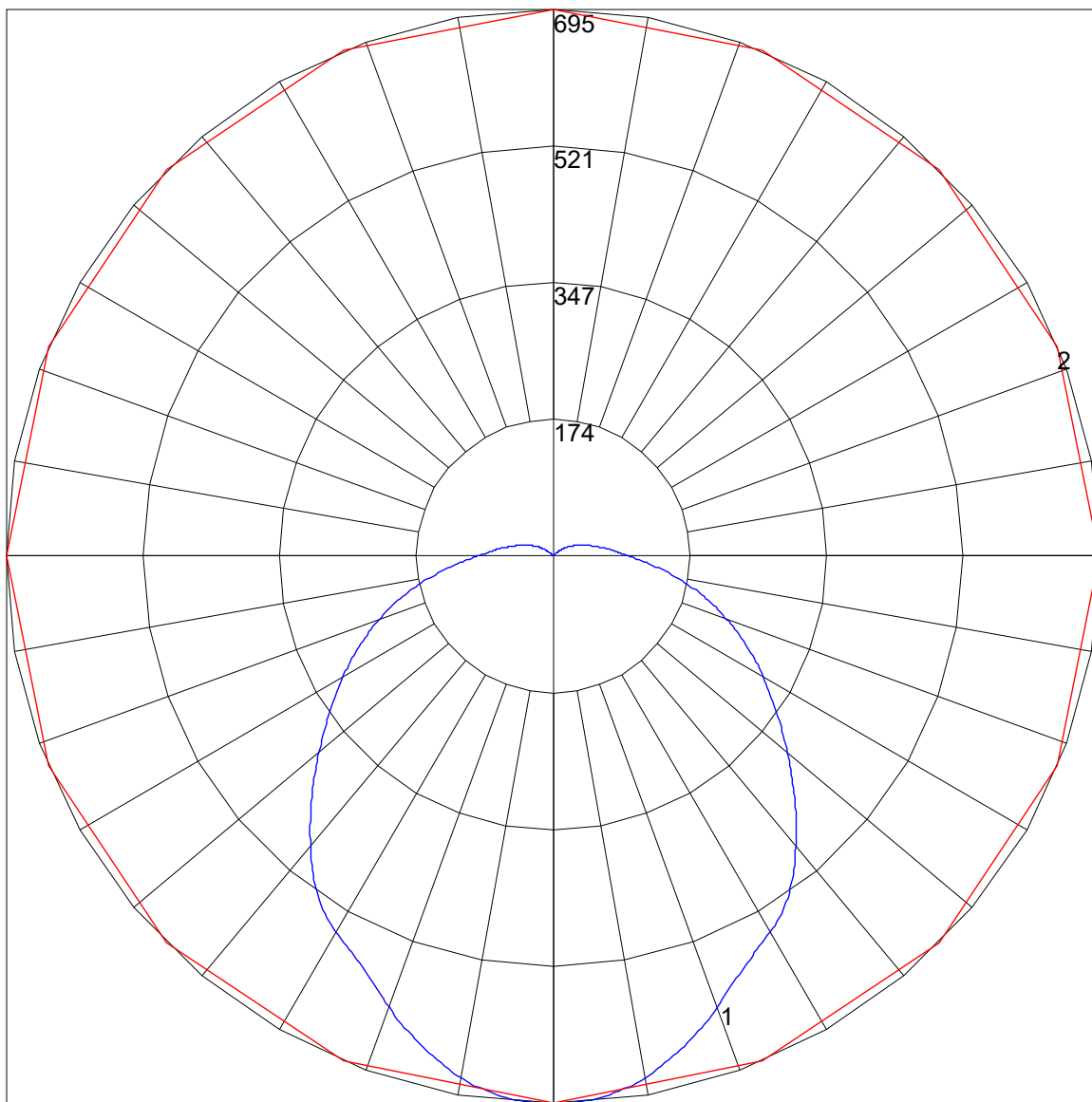
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**UGR TABLE - CORRECTED**

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	13.0	14.5	13.4	15.0	15.4	14.7	16.3	15.2	16.7	17.1
	3H	14.3	15.7	14.7	16.1	16.6	17.1	18.5	17.6	18.9	19.4
	4H	14.7	16.0	15.2	16.5	17.0	18.2	19.6	18.7	20.0	20.5
	6H	15.0	16.2	15.5	16.7	17.2	19.3	20.6	19.8	21.0	21.5
	8H	15.0	16.2	15.5	16.7	17.2	19.8	21.0	20.3	21.5	22.0
	12H	15.0	16.2	15.6	16.7	17.2	20.4	21.5	20.9	22.0	22.6
4H	2H	13.7	15.1	14.2	15.5	16.0	15.1	16.5	15.6	16.9	17.4
	3H	15.3	16.4	15.8	16.9	17.4	17.7	18.9	18.2	19.4	19.9
	4H	15.8	16.9	16.3	17.4	17.9	19.0	20.1	19.5	20.6	21.1
	6H	16.2	17.1	16.7	17.6	18.2	20.3	21.2	20.9	21.8	22.3
	8H	16.3	17.2	16.8	17.7	18.3	21.0	21.8	21.5	22.3	22.9
	12H	16.4	17.1	16.9	17.7	18.3	21.6	22.4	22.2	23.0	23.5
8H	4H	16.4	17.3	17.0	17.8	18.4	19.2	20.1	19.8	20.6	21.2
	6H	17.0	17.7	17.5	18.3	18.9	20.7	21.4	21.2	22.0	22.6
	8H	17.2	17.8	17.8	18.4	19.0	21.4	22.1	22.0	22.7	23.3
	12H	17.3	17.9	17.9	18.5	19.1	22.3	22.9	22.9	23.4	24.1
12H	4H	16.6	17.4	17.2	17.9	18.5	19.2	20.0	19.8	20.6	21.2
	6H	17.3	17.9	17.8	18.5	19.1	20.7	21.4	21.3	21.9	22.6
	8H	17.5	18.1	18.1	18.7	19.3	21.5	22.1	22.1	22.7	23.4

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 694.919 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.)