



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 SH UV FRA 930.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-008A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 7/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] NVL G2 4 SH 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] 168 white LEDs on two LS3872A10-3000K-R90 LED boards with 84 LEDs

[MORE] each.

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 2000mA

[OTHER] 120.0Vac, 60.00Hz, 0.7374A, 88.30W, 0.998PF, 5.3%THD(i)

[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	11483
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	88.3
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	14784	12819	12534
55	12684	10961	11278
65	10263	9332	10466
75	7836	8146	9714
85	4974	7373	8774

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1408.04	N.A.	12.30
0-30	2937.93	N.A.	25.60
0-40	4753.87	N.A.	41.40
0-60	8208.88	N.A.	71.50
0-80	10362.37	N.A.	90.20
0-90	10878.23	N.A.	94.70
10-90	10508.78	N.A.	91.50
20-40	3345.83	N.A.	29.10
20-50	5183.22	N.A.	45.10
40-70	4727.76	N.A.	41.20
60-80	2153.49	N.A.	18.80
70-80	880.74	N.A.	7.70
80-90	515.86	N.A.	4.50
90-110	469.90	N.A.	4.10
90-120	560.06	N.A.	4.90
90-130	595.13	N.A.	5.20
90-150	603.72	N.A.	5.30
90-180	604.36	N.A.	5.30
110-180	134.46	N.A.	1.20
0-180	11482.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	369.45
10-20	1038.6
20-30	1529.88
30-40	1815.94
40-50	1837.4
50-60	1617.61
60-70	1272.75
70-80	880.74
80-90	515.86
90-100	295.08
100-110	174.82
110-120	90.16
120-130	35.07
130-140	6.78
140-150	1.81
150-160	0.64
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

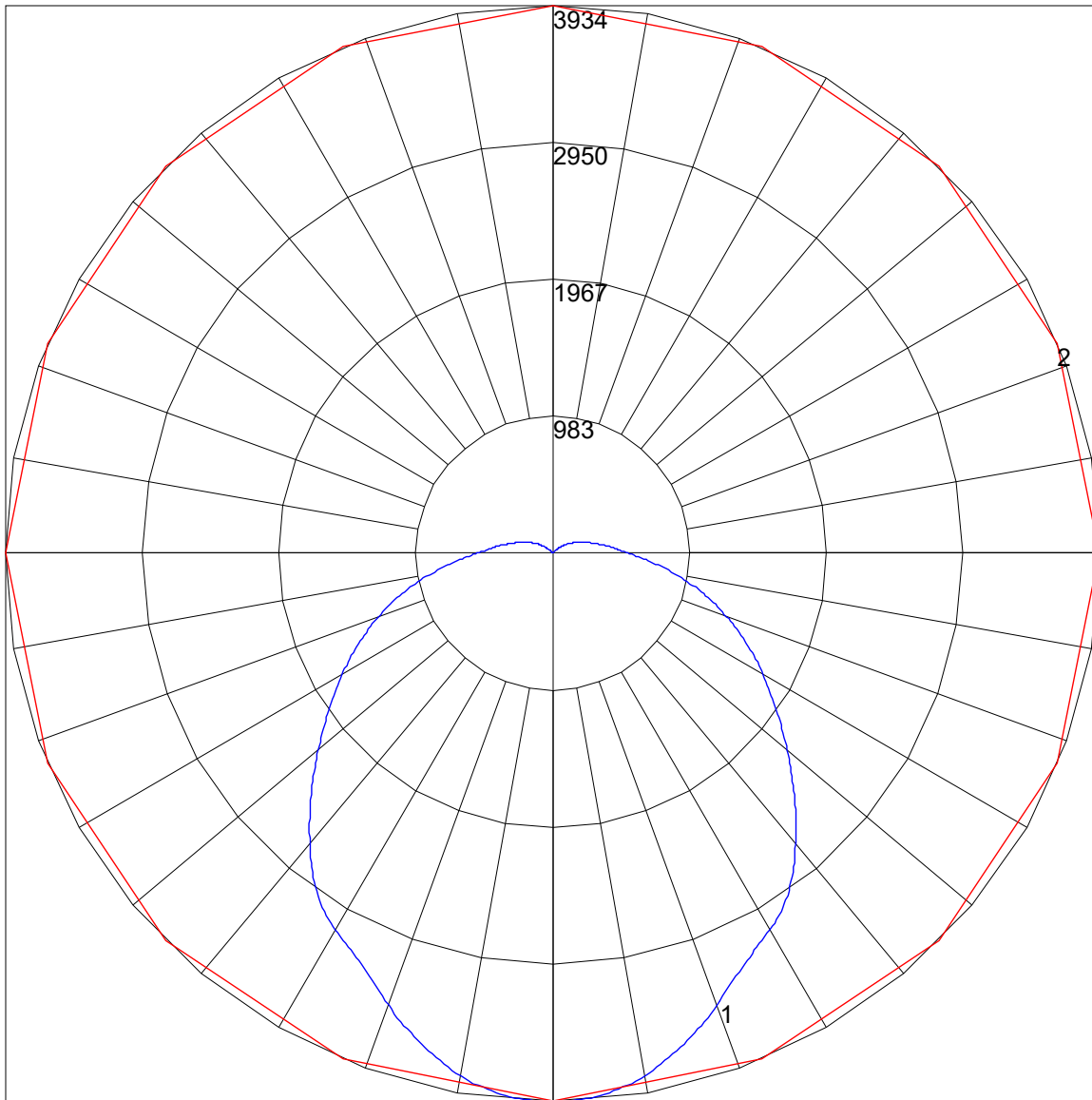
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**UGR TABLE - CORRECTED**

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	19.0	20.5	19.4	21.0	21.4	20.7	22.3	21.2	22.7	23.1
	3H	20.3	21.7	20.7	22.1	22.6	23.1	24.5	23.6	24.9	25.4
	4H	20.7	22.0	21.2	22.5	23.0	24.2	25.6	24.7	26.0	26.5
	6H	21.0	22.2	21.5	22.7	23.2	25.3	26.6	25.8	27.0	27.5
	8H	21.0	22.2	21.5	22.7	23.2	25.8	27.0	26.3	27.5	28.0
	12H	21.0	22.2	21.6	22.7	23.2	26.4	27.5	26.9	28.0	28.6
4H	2H	19.7	21.1	20.2	21.5	22.0	21.1	22.5	21.6	22.9	23.4
	3H	21.3	22.4	21.8	22.9	23.4	23.7	24.9	24.2	25.4	25.9
	4H	21.8	22.9	22.3	23.4	23.9	25.0	26.1	25.5	26.6	27.1
	6H	22.2	23.1	22.7	23.6	24.2	26.3	27.2	26.9	27.8	28.3
	8H	22.3	23.2	22.8	23.7	24.3	27.0	27.8	27.5	28.3	28.9
	12H	22.4	23.1	22.9	23.7	24.3	27.6	28.4	28.2	29.0	29.5
8H	4H	22.4	23.3	23.0	23.8	24.4	25.2	26.1	25.8	26.6	27.2
	6H	23.0	23.7	23.5	24.3	24.9	26.7	27.4	27.2	28.0	28.6
	8H	23.2	23.8	23.7	24.4	25.0	27.4	28.1	28.0	28.7	29.3
	12H	23.3	23.9	23.9	24.5	25.1	28.3	28.9	28.9	29.4	30.1
12H	4H	22.6	23.4	23.2	23.9	24.5	25.2	26.0	25.8	26.6	27.2
	6H	23.3	23.9	23.8	24.5	25.1	26.7	27.4	27.3	27.9	28.6
	8H	23.5	24.1	24.1	24.7	25.3	27.5	28.1	28.1	28.7	29.4

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 3933.599 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.)