



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 SH 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 4 SH 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] 168 white LEDs on two LS3872A10-3500K-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	11531
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	14847	12873	12587
55	12737	11007	11325
65	10306	9371	10510
75	7869	8181	9755
85	4995	7404	8811

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1413.98	N.A.	12.30
0-30	2950.31	N.A.	25.60
0-40	4773.91	N.A.	41.40
0-60	8243.48	N.A.	71.50
0-80	10406.05	N.A.	90.20
0-90	10924.08	N.A.	94.70
10-90	10553.08	N.A.	91.50
20-40	3359.93	N.A.	29.10
20-50	5205.07	N.A.	45.10
40-70	4747.69	N.A.	41.20
60-80	2162.57	N.A.	18.80
70-80	884.45	N.A.	7.70
80-90	518.03	N.A.	4.50
90-110	471.88	N.A.	4.10
90-120	562.42	N.A.	4.90
90-130	597.64	N.A.	5.20
90-150	606.27	N.A.	5.30
90-180	606.91	N.A.	5.30
110-180	135.02	N.A.	1.20
0-180	11530.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	371.00
10-20	1042.97
20-30	1536.33
30-40	1823.6
40-50	1845.14
50-60	1624.43
60-70	1278.12
70-80	884.45
80-90	518.03
90-100	296.32
100-110	175.56
110-120	90.54
120-130	35.22
130-140	6.81
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

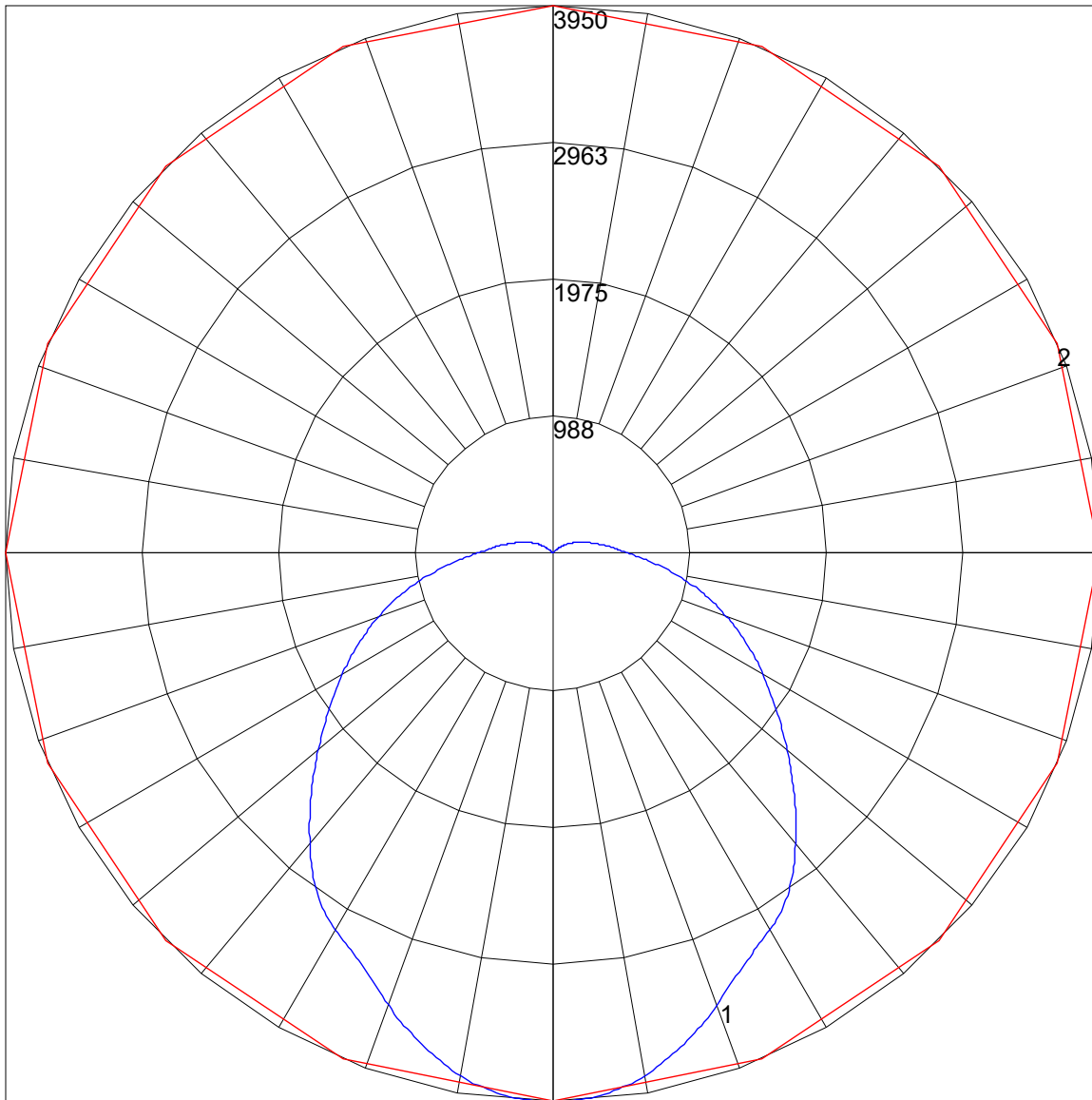
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**UGR TABLE - CORRECTED**

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 = 3950.179 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.)