



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 MD 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 MD 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] 192 white LEDs on four LS3872A7-3500K-R90 LED boards with 48 LEDs

[MORE] each.

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 1420mA

[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	9645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	69.8
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	6524	5617	5437
55	5637	4819	4892
65	4613	4122	4539
75	3608	3625	4213
85	2516	3329	3806

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1182.71	N.A.	12.30
0-30	2467.77	N.A.	25.60
0-40	3993.1	N.A.	41.40
0-60	6895.2	N.A.	71.50
0-80	8704.06	N.A.	90.20
0-90	9137.36	N.A.	94.70
10-90	8827.04	N.A.	91.50
20-40	2810.39	N.A.	29.10
20-50	4353.74	N.A.	45.10
40-70	3971.17	N.A.	41.20
60-80	1808.86	N.A.	18.80
70-80	739.79	N.A.	7.70
80-90	433.30	N.A.	4.50
90-110	394.70	N.A.	4.10
90-120	470.43	N.A.	4.90
90-130	499.89	N.A.	5.20
90-150	507.11	N.A.	5.30
90-180	507.64	N.A.	5.30
110-180	112.94	N.A.	1.20
0-180	9645.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	310.32
10-20	872.39
20-30	1285.05
30-40	1525.34
40-50	1543.35
50-60	1358.74
60-70	1069.07
70-80	739.79
80-90	433.30
90-100	247.86
100-110	146.84
110-120	75.73
120-130	29.46
130-140	5.70
140-150	1.52
150-160	0.53
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

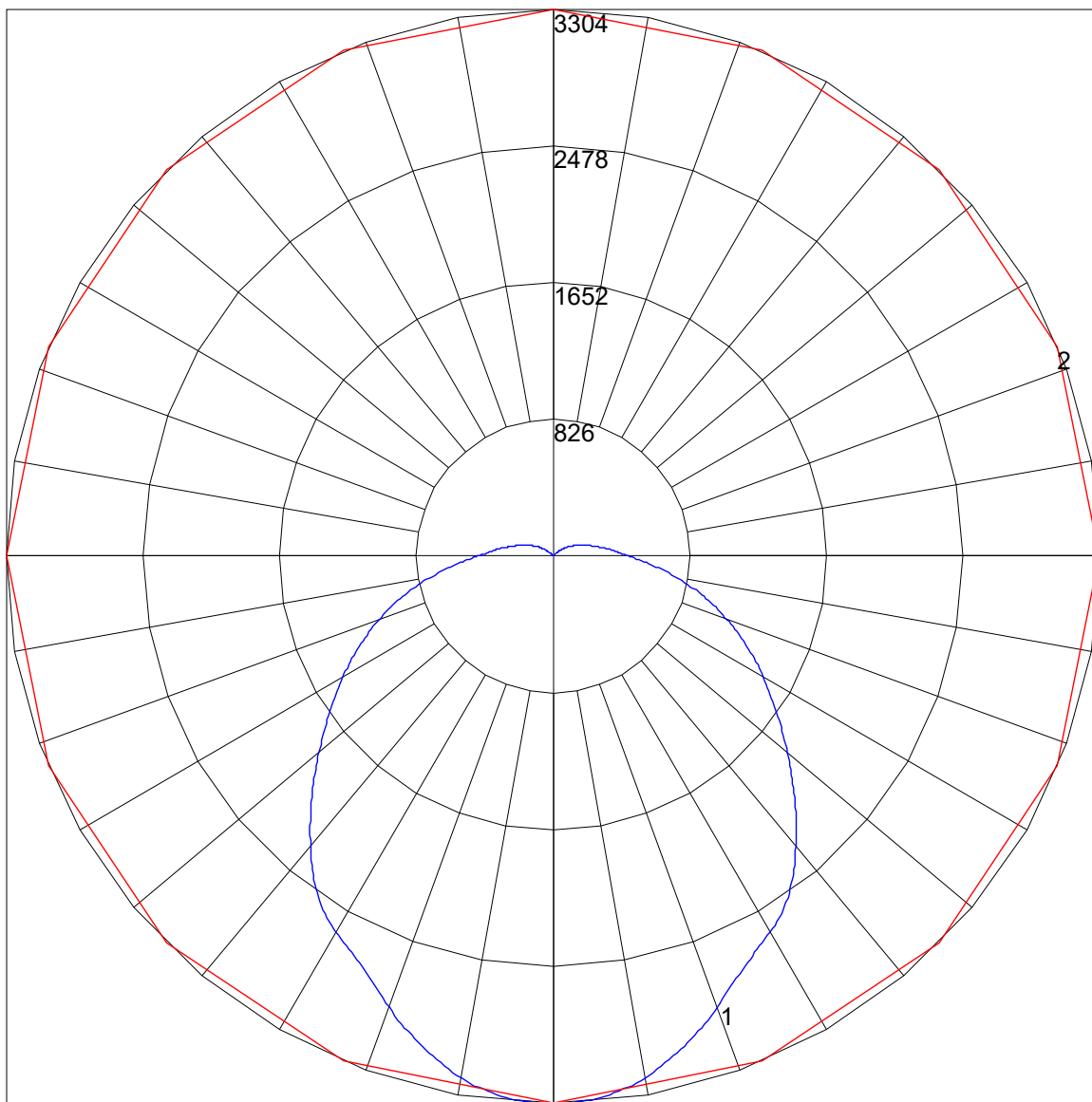
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**UGR TABLE - CORRECTED**

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	16.1	17.7	16.6	18.1	18.5	17.9	19.5	18.4	19.9	20.3
	3H	17.4	18.8	17.9	19.2	19.7	20.3	21.7	20.8	22.2	22.6
	4H	17.8	19.2	18.3	19.6	20.1	21.5	22.8	21.9	23.2	23.7
	6H	18.1	19.3	18.6	19.8	20.3	22.6	23.8	23.1	24.3	24.8
	8H	18.1	19.3	18.6	19.8	20.3	23.1	24.3	23.6	24.8	25.3
	12H	18.2	19.3	18.7	19.8	20.3	23.7	24.9	24.2	25.3	25.9
4H	2H	16.9	18.2	17.3	18.6	19.1	18.3	19.6	18.8	20.1	20.6
	3H	18.4	19.6	18.9	20.0	20.6	20.9	22.1	21.4	22.6	23.1
	4H	19.0	20.0	19.5	20.5	21.0	22.3	23.3	22.8	23.8	24.3
	6H	19.3	20.2	19.9	20.8	21.3	23.6	24.5	24.1	25.0	25.6
	8H	19.4	20.3	20.0	20.8	21.4	24.2	25.1	24.8	25.6	26.2
	12H	19.5	20.3	20.1	20.8	21.4	24.9	25.7	25.5	26.3	26.9
8H	4H	19.6	20.4	20.1	21.0	21.6	22.5	23.3	23.0	23.8	24.4
	6H	20.1	20.9	20.7	21.4	22.0	23.9	24.7	24.5	25.2	25.8
	8H	20.3	21.0	20.9	21.6	22.1	24.7	25.4	25.3	26.0	26.6
	12H	20.4	21.0	21.0	21.6	22.3	25.6	26.2	26.2	26.8	27.4
12H	4H	19.8	20.5	20.3	21.1	21.7	22.5	23.2	23.0	23.8	24.4
	6H	20.4	21.1	21.0	21.6	22.3	24.0	24.6	24.6	25.2	25.8
	8H	20.7	21.2	21.2	21.8	22.5	24.8	25.4	25.4	26.0	26.6

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 3304.096 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.)