



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 MD UV FRA 940.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 940

[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 LS3872A7-4000K-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	9874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	6679	5751	5566
55	5771	4933	5008
65	4723	4219	4647
75	3694	3711	4313
85	2576	3408	3896

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1210.8	N.A.	12.30
0-30	2526.38	N.A.	25.60
0-40	4087.94	N.A.	41.40
0-60	7058.97	N.A.	71.50
0-80	8910.79	N.A.	90.20
0-90	9354.39	N.A.	94.70
10-90	9036.69	N.A.	91.50
20-40	2877.14	N.A.	29.10
20-50	4457.15	N.A.	45.10
40-70	4065.49	N.A.	41.20
60-80	1851.83	N.A.	18.80
70-80	757.36	N.A.	7.70
80-90	443.59	N.A.	4.50
90-110	404.08	N.A.	4.10
90-120	481.61	N.A.	4.90
90-130	511.77	N.A.	5.20
90-150	519.15	N.A.	5.30
90-180	519.70	N.A.	5.30
110-180	115.62	N.A.	1.20
0-180	9874.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	317.69
10-20	893.11
20-30	1315.57
30-40	1561.56
40-50	1580.01
50-60	1391.02
60-70	1094.46
70-80	757.36
80-90	443.59
90-100	253.75
100-110	150.33
110-120	77.53
120-130	30.16
130-140	5.83
140-150	1.55
150-160	0.55
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**

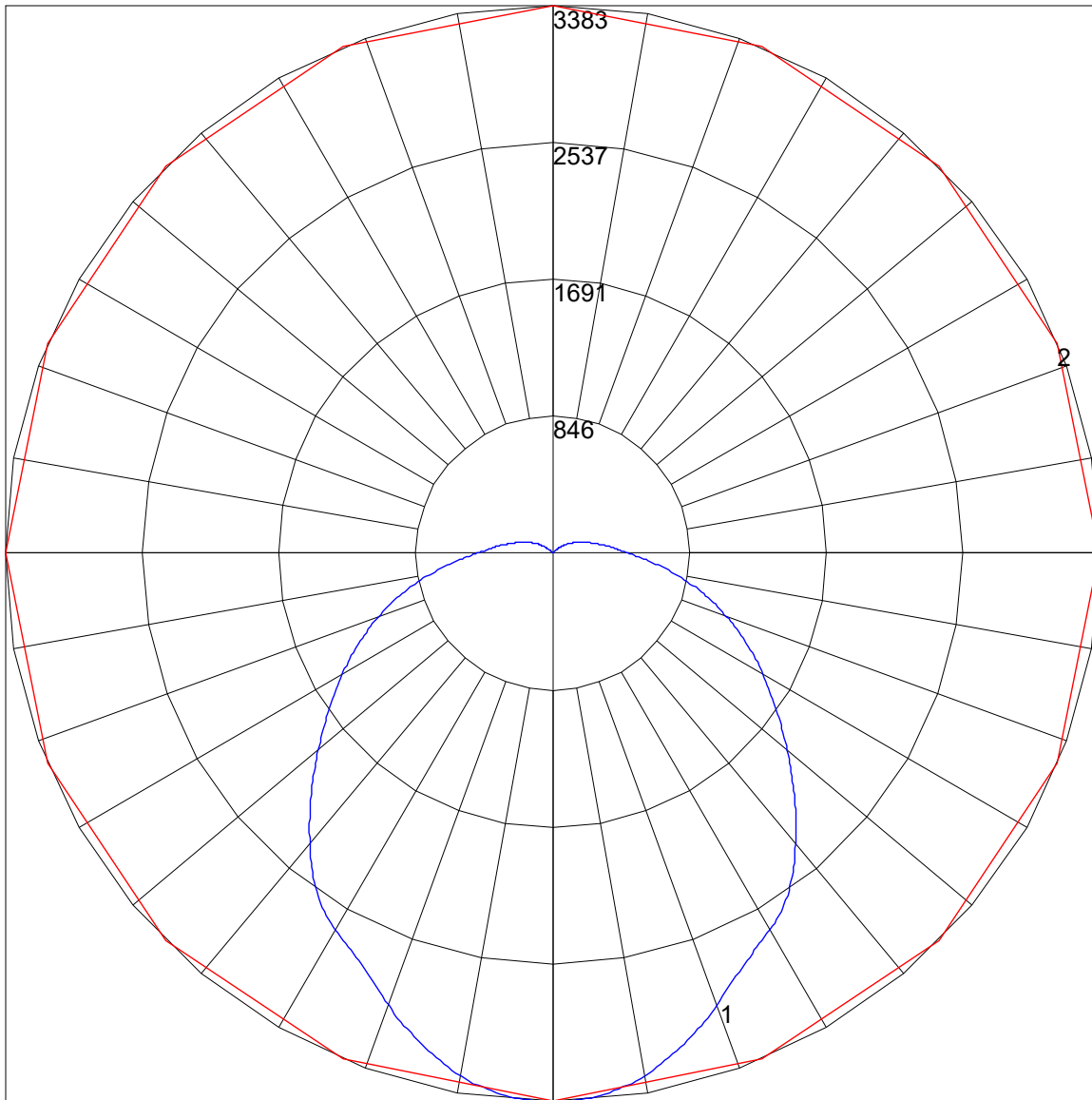
Reflectances

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	16.2	17.8	16.7	18.2	18.6	18.0	19.6	18.5	20.0	20.4
	3H	17.5	18.9	18.0	19.3	19.8	20.4	21.8	20.9	22.3	22.7
	4H	17.9	19.3	18.4	19.7	20.2	21.6	22.9	22.0	23.3	23.8
	6H	18.2	19.4	18.7	19.9	20.4	22.7	23.9	23.2	24.4	24.9
	8H	18.2	19.4	18.7	19.9	20.4	23.2	24.4	23.7	24.9	25.4
	12H	18.3	19.4	18.8	19.9	20.4	23.8	25.0	24.3	25.4	26.0
4H	2H	17.0	18.3	17.4	18.7	19.2	18.4	19.7	18.9	20.2	20.7
	3H	18.5	19.7	19.0	20.1	20.7	21.0	22.2	21.5	22.7	23.2
	4H	19.1	20.1	19.6	20.6	21.1	22.4	23.4	22.9	23.9	24.4
	6H	19.4	20.3	20.0	20.9	21.4	23.7	24.6	24.2	25.1	25.7
	8H	19.5	20.4	20.1	20.9	21.5	24.3	25.2	24.9	25.7	26.3
	12H	19.6	20.4	20.2	20.9	21.5	25.0	25.8	25.6	26.4	27.0
8H	4H	19.7	20.5	20.2	21.1	21.7	22.6	23.4	23.1	23.9	24.5
	6H	20.2	21.0	20.8	21.5	22.1	24.0	24.8	24.6	25.3	25.9
	8H	20.4	21.1	21.0	21.7	22.3	24.8	25.5	25.4	26.1	26.7
	12H	20.5	21.1	21.1	21.7	22.4	25.7	26.3	26.3	26.9	27.5
12H	4H	19.9	20.6	20.4	21.2	21.8	22.6	23.3	23.1	23.9	24.5
	6H	20.5	21.2	21.1	21.7	22.4	24.1	24.7	24.7	25.3	25.9
	8H	20.8	21.4	21.3	21.9	22.6	24.9	25.5	25.5	26.1	26.7

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 3382.572 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.)