



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 VH UV FRA 940.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 8 VH 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] 336 white LEDs on four LS3872A10-4000K-R90 LED boards with 84 LEDs  
[MORE] each.

[BALLAST] Two ULT Everline D21CC80UNVPW-C LED drivers labeled as 1630mA

[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	19670
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	142.2
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	13304	11455	11088
55	11495	9828	9976
65	9408	8405	9258
75	7358	7392	8592
85	5131	6790	7761

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2411.99	N.A.	12.30
0-30	5032.69	N.A.	25.60
0-40	8143.42	N.A.	41.40
0-60	14061.88	N.A.	71.50
0-80	17750.83	N.A.	90.20
0-90	18634.5	N.A.	94.70
10-90	18001.63	N.A.	91.50
20-40	5731.43	N.A.	29.10
20-50	8878.9	N.A.	45.10
40-70	8098.7	N.A.	41.20
60-80	3688.95	N.A.	18.80
70-80	1508.71	N.A.	7.70
80-90	883.67	N.A.	4.50
90-110	804.94	N.A.	4.10
90-120	959.39	N.A.	4.90
90-130	1019.47	N.A.	5.20
90-150	1034.18	N.A.	5.30
90-180	1035.27	N.A.	5.30
110-180	230.33	N.A.	1.20
0-180	19669.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	632.87
10-20	1779.13
20-30	2620.7
30-40	3110.73
40-50	3147.48
50-60	2770.99
60-70	2180.24
70-80	1508.71
80-90	883.67
90-100	505.48
100-110	299.47
110-120	154.44
120-130	60.08
130-140	11.62
140-150	3.09
150-160	1.09
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**

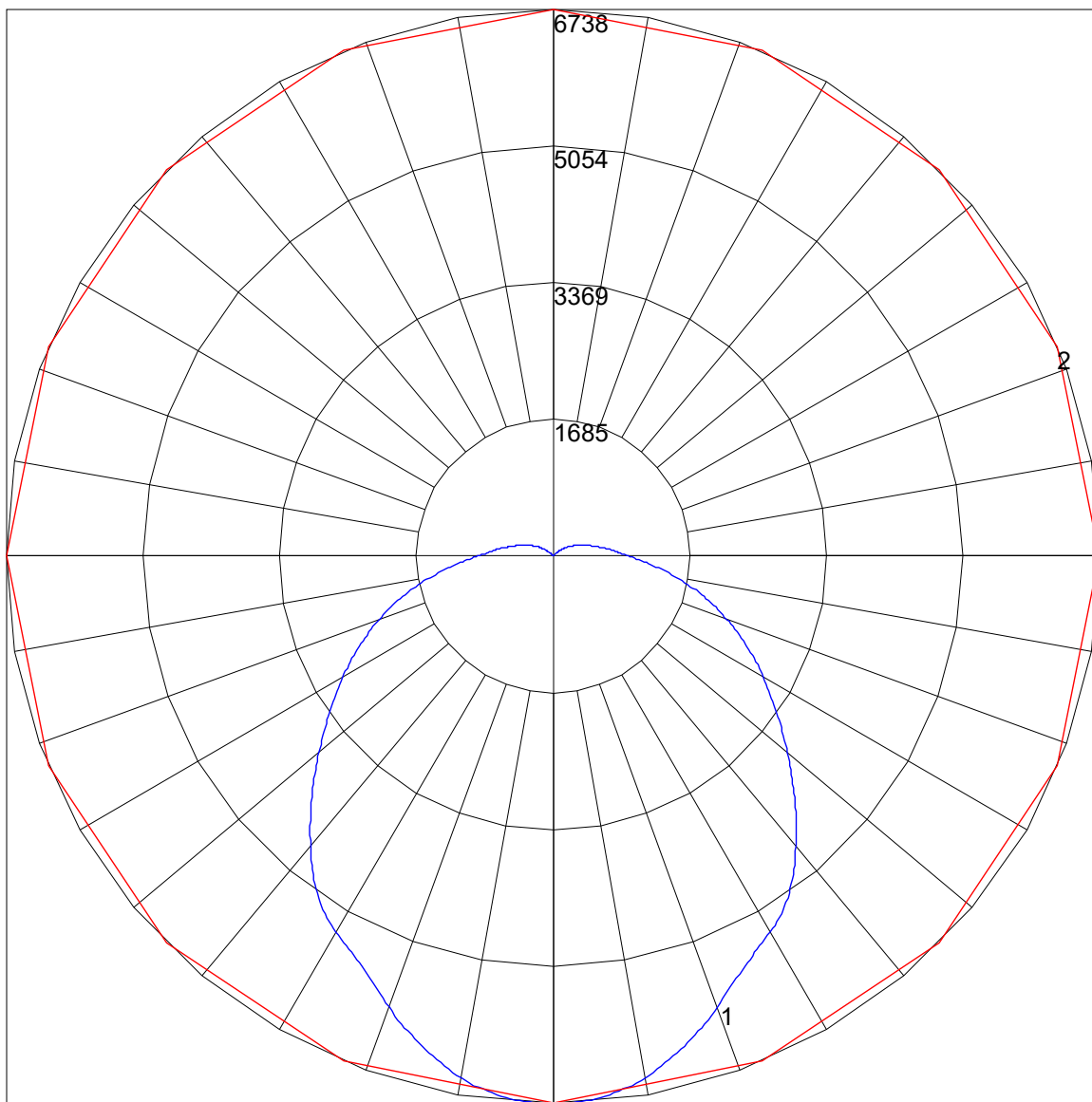
Reflectances

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	18.6	20.2	19.1	20.6	21.0	20.4	22.0	20.9	22.4	22.8
	3H	19.9	21.3	20.4	21.7	22.2	22.8	24.2	23.3	24.7	25.1
	4H	20.3	21.7	20.8	22.1	22.6	24.0	25.3	24.4	25.7	26.2
	6H	20.6	21.8	21.1	22.3	22.8	25.1	26.3	25.6	26.8	27.3
	8H	20.6	21.8	21.1	22.3	22.8	25.6	26.8	26.1	27.3	27.8
	12H	20.7	21.8	21.2	22.3	22.8	26.2	27.4	26.7	27.8	28.4
4H	2H	19.4	20.7	19.8	21.1	21.6	20.8	22.1	21.3	22.6	23.1
	3H	20.9	22.1	21.4	22.5	23.1	23.4	24.6	23.9	25.1	25.6
	4H	21.5	22.5	22.0	23.0	23.5	24.8	25.8	25.3	26.3	26.8
	6H	21.8	22.7	22.4	23.3	23.8	26.1	27.0	26.6	27.5	28.1
	8H	21.9	22.8	22.5	23.3	23.9	26.7	27.6	27.3	28.1	28.7
	12H	22.0	22.8	22.6	23.3	23.9	27.4	28.2	28.0	28.8	29.4
8H	4H	22.1	22.9	22.6	23.5	24.1	25.0	25.8	25.5	26.3	26.9
	6H	22.6	23.4	23.2	23.9	24.5	26.4	27.2	27.0	27.7	28.3
	8H	22.8	23.5	23.4	24.1	24.7	27.2	27.9	27.8	28.5	29.1
	12H	22.9	23.5	23.5	24.1	24.8	28.1	28.7	28.7	29.3	29.9
12H	4H	22.3	23.0	22.8	23.6	24.2	25.0	25.7	25.5	26.3	26.9
	6H	22.9	23.6	23.5	24.1	24.8	26.5	27.1	27.1	27.7	28.3
	8H	23.2	23.8	23.7	24.3	25.0	27.3	27.9	27.9	28.5	29.1

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 6738.287 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.)