



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 LW UV FRA 935.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 LW 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] 96 white LEDs on two LS3872A7-3500K-R90 LED boards with 48 LEDs  
[MORE] each.

[BALLAST] One ULT Everline D10CC30UNVPW-C LED driver labeled as 580mA

[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	3964
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	29.3
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	5104	4426	4328
55	4379	3784	3894
65	3543	3222	3613
75	2705	2813	3354
85	1717	2546	3029

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	486.14	N.A.	12.30
0-30	1014.35	N.A.	25.60
0-40	1641.33	N.A.	41.40
0-60	2834.21	N.A.	71.50
0-80	3577.72	N.A.	90.20
0-90	3755.83	N.A.	94.70
10-90	3628.27	N.A.	91.50
20-40	1155.18	N.A.	29.10
20-50	1789.57	N.A.	45.10
40-70	1632.31	N.A.	41.20
60-80	743.52	N.A.	18.80
70-80	304.08	N.A.	7.70
80-90	178.10	N.A.	4.50
90-110	162.24	N.A.	4.10
90-120	193.37	N.A.	4.90
90-130	205.48	N.A.	5.20
90-150	208.44	N.A.	5.30
90-180	208.66	N.A.	5.30
110-180	46.42	N.A.	1.20
0-180	3964.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.56
10-20	358.59
20-30	528.21
30-40	626.98
40-50	634.38
50-60	558.50
60-70	439.43
70-80	304.08
80-90	178.10
90-100	101.88
100-110	60.36
110-120	31.13
120-130	12.11
130-140	2.34
140-150	0.62
150-160	0.22
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	86	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

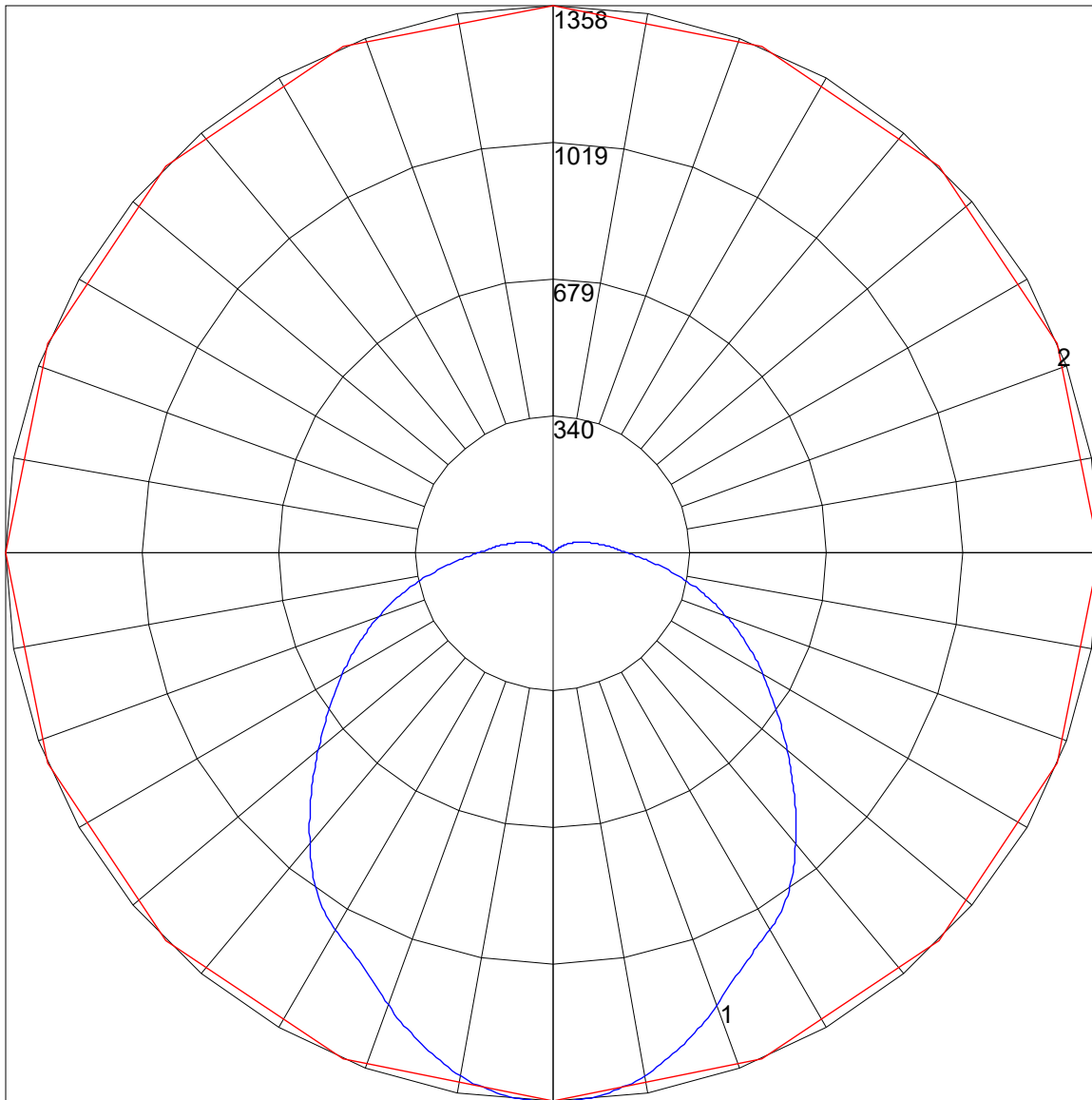
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**UGR TABLE - CORRECTED**

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	15.3	16.8	15.7	17.3	17.7	17.0	18.6	17.5	19.0	19.4
	3H	16.6	18.0	17.0	18.4	18.9	19.4	20.8	19.9	21.2	21.7
	4H	17.0	18.3	17.5	18.8	19.3	20.5	21.9	21.0	22.3	22.8
	6H	17.3	18.5	17.8	19.0	19.5	21.6	22.9	22.1	23.3	23.8
	8H	17.3	18.5	17.8	19.0	19.5	22.1	23.3	22.6	23.8	24.3
	12H	17.3	18.5	17.9	19.0	19.5	22.7	23.8	23.2	24.3	24.9
4H	2H	16.0	17.4	16.5	17.8	18.3	17.4	18.8	17.9	19.2	19.7
	3H	17.6	18.7	18.1	19.2	19.7	20.0	21.2	20.5	21.7	22.2
	4H	18.1	19.2	18.6	19.7	20.2	21.3	22.4	21.8	22.9	23.4
	6H	18.5	19.4	19.0	19.9	20.5	22.6	23.5	23.2	24.1	24.6
	8H	18.6	19.5	19.1	20.0	20.6	23.3	24.1	23.8	24.6	25.2
	12H	18.7	19.4	19.2	20.0	20.6	23.9	24.7	24.5	25.3	25.8
8H	4H	18.7	19.6	19.3	20.1	20.7	21.5	22.4	22.1	22.9	23.5
	6H	19.3	20.0	19.8	20.6	21.2	23.0	23.7	23.5	24.3	24.9
	8H	19.5	20.1	20.0	20.7	21.3	23.7	24.4	24.3	25.0	25.6
	12H	19.6	20.2	20.2	20.8	21.4	24.6	25.2	25.2	25.7	26.4
12H	4H	18.9	19.7	19.5	20.2	20.8	21.5	22.3	22.1	22.9	23.4
	6H	19.6	20.2	20.1	20.8	21.4	23.0	23.7	23.6	24.2	24.9
	8H	19.8	20.4	20.4	21.0	21.6	23.8	24.4	24.4	25.0	25.7

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1358.119 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.)