



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 SH 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 SH 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 2000mA

[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	23609
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	177.5
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	15969	13750	13308
55	13798	11796	11974
65	11293	10089	11112
75	8832	8872	10313
85	6159	8149	9316

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2895.09	N.A.	12.30
0-30	6040.69	N.A.	25.60
0-40	9774.46	N.A.	41.40
0-60	16878.33	N.A.	71.50
0-80	21306.14	N.A.	90.20
0-90	22366.79	N.A.	94.70
10-90	21607.17	N.A.	91.50
20-40	6879.38	N.A.	29.10
20-50	10657.26	N.A.	45.10
40-70	9720.78	N.A.	41.20
60-80	4427.81	N.A.	18.80
70-80	1810.89	N.A.	7.70
80-90	1060.65	N.A.	4.50
90-110	966.17	N.A.	4.10
90-120	1151.54	N.A.	4.90
90-130	1223.66	N.A.	5.20
90-150	1241.32	N.A.	5.30
90-180	1242.63	N.A.	5.30
110-180	276.46	N.A.	1.20
0-180	23609.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	759.62
10-20	2135.47
20-30	3145.6
30-40	3733.77
40-50	3777.88
50-60	3325.99
60-70	2616.91
70-80	1810.89
80-90	1060.65
90-100	606.72
100-110	359.45
110-120	185.38
120-130	72.12
130-140	13.95
140-150	3.71
150-160	1.31
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

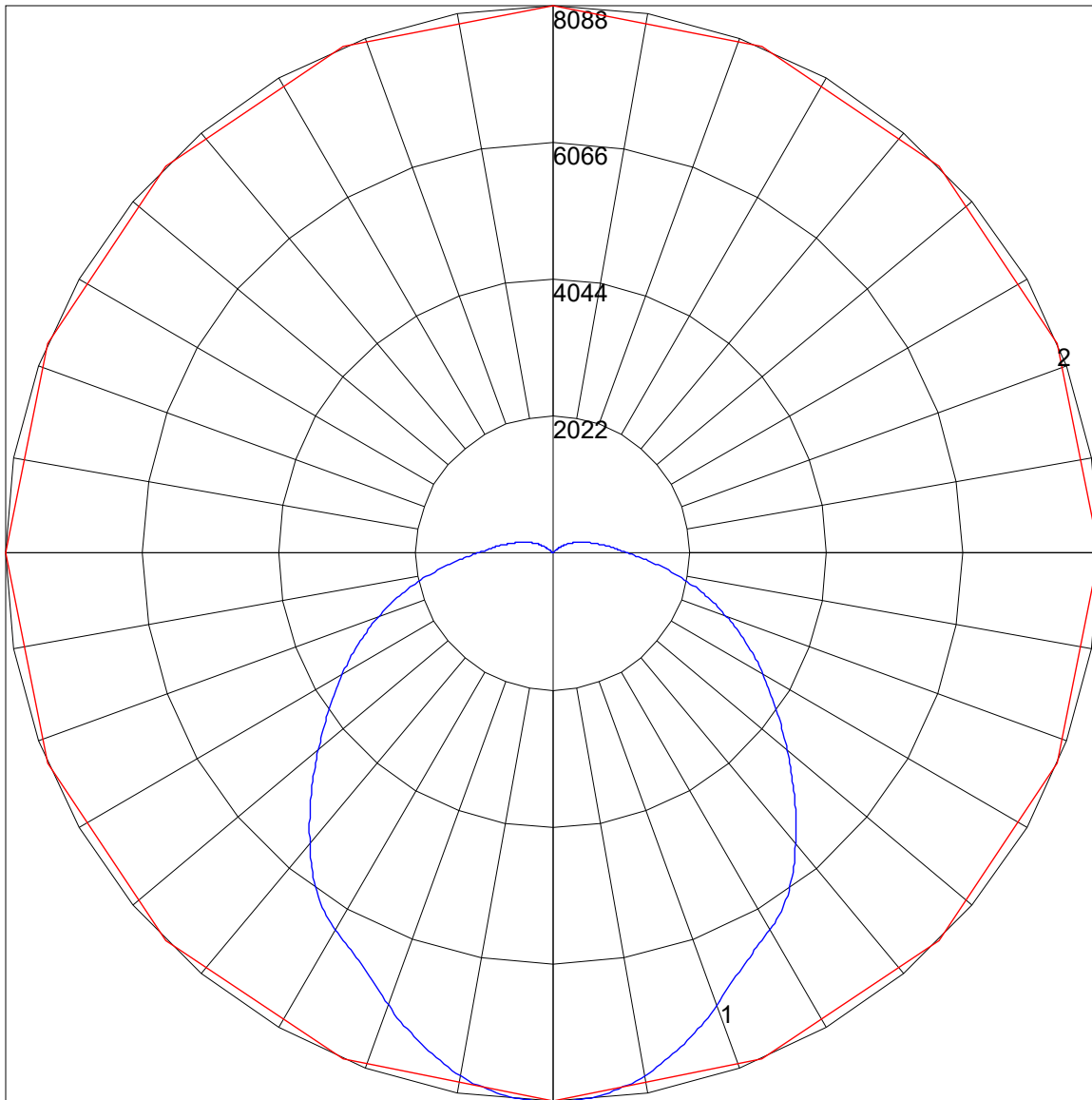
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**UGR TABLE - CORRECTED**

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	19.2	20.8	19.7	21.2	21.6	21.0	22.6	21.5	23.0	23.4
	3H	20.5	21.9	21.0	22.3	22.8	23.4	24.8	23.9	25.3	25.7
	4H	20.9	22.3	21.4	22.7	23.2	24.6	25.9	25.0	26.3	26.8
	6H	21.2	22.4	21.7	22.9	23.4	25.7	26.9	26.2	27.4	27.9
	8H	21.2	22.4	21.7	22.9	23.4	26.2	27.4	26.7	27.9	28.4
	12H	21.3	22.4	21.8	22.9	23.4	26.8	28.0	27.3	28.4	29.0
4H	2H	20.0	21.3	20.4	21.7	22.2	21.4	22.7	21.9	23.2	23.7
	3H	21.5	22.7	22.0	23.1	23.7	24.0	25.2	24.5	25.7	26.2
	4H	22.1	23.1	22.6	23.6	24.1	25.4	26.4	25.9	26.9	27.4
	6H	22.4	23.3	23.0	23.9	24.4	26.7	27.6	27.2	28.1	28.7
	8H	22.5	23.4	23.1	23.9	24.5	27.3	28.2	27.9	28.7	29.3
	12H	22.6	23.4	23.2	23.9	24.5	28.0	28.8	28.6	29.4	30.0
8H	4H	22.7	23.5	23.2	24.1	24.7	25.6	26.4	26.1	26.9	27.5
	6H	23.2	24.0	23.8	24.5	25.1	27.0	27.8	27.6	28.3	28.9
	8H	23.4	24.1	24.0	24.7	25.3	27.8	28.5	28.4	29.1	29.7
	12H	23.5	24.1	24.1	24.7	25.4	28.7	29.3	29.3	29.9	30.5
12H	4H	22.9	23.6	23.4	24.2	24.8	25.6	26.3	26.1	26.9	27.5
	6H	23.5	24.2	24.1	24.7	25.4	27.1	27.7	27.7	28.3	28.9
	8H	23.8	24.4	24.3	24.9	25.6	27.9	28.5	28.5	29.1	29.7

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 8087.895 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.)