



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 VL 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 4 VL 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] 56 white LEDs on two LS3872A6-4000K-R90 LED boards with 28 LEDs
[MORE] each.

[BALLAST] One ULT Everline D700C20UNVPW-C LED driver labeled as 340mA

[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	2085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	16.1
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	2685	2328	2277
55	2304	1991	2048
65	1864	1695	1901
75	1423	1480	1764
85	903	1339	1594

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	255.73	N.A.	12.30
0-30	533.59	N.A.	25.60
0-40	863.40	N.A.	41.40
0-60	1490.9	N.A.	71.50
0-80	1882.02	N.A.	90.20
0-90	1975.71	N.A.	94.70
10-90	1908.61	N.A.	91.50
20-40	607.67	N.A.	29.10
20-50	941.38	N.A.	45.10
40-70	858.66	N.A.	41.20
60-80	391.12	N.A.	18.80
70-80	159.96	N.A.	7.70
80-90	93.69	N.A.	4.50
90-110	85.34	N.A.	4.10
90-120	101.72	N.A.	4.90
90-130	108.09	N.A.	5.20
90-150	109.65	N.A.	5.30
90-180	109.76	N.A.	5.30
110-180	24.42	N.A.	1.20
0-180	2085.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.10
10-20	188.63
20-30	277.86
30-40	329.81
40-50	333.71
50-60	293.79
60-70	231.16
70-80	159.96
80-90	93.69
90-100	53.59
100-110	31.75
110-120	16.37
120-130	6.37
130-140	1.23
140-150	0.33
150-160	0.12
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	97	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

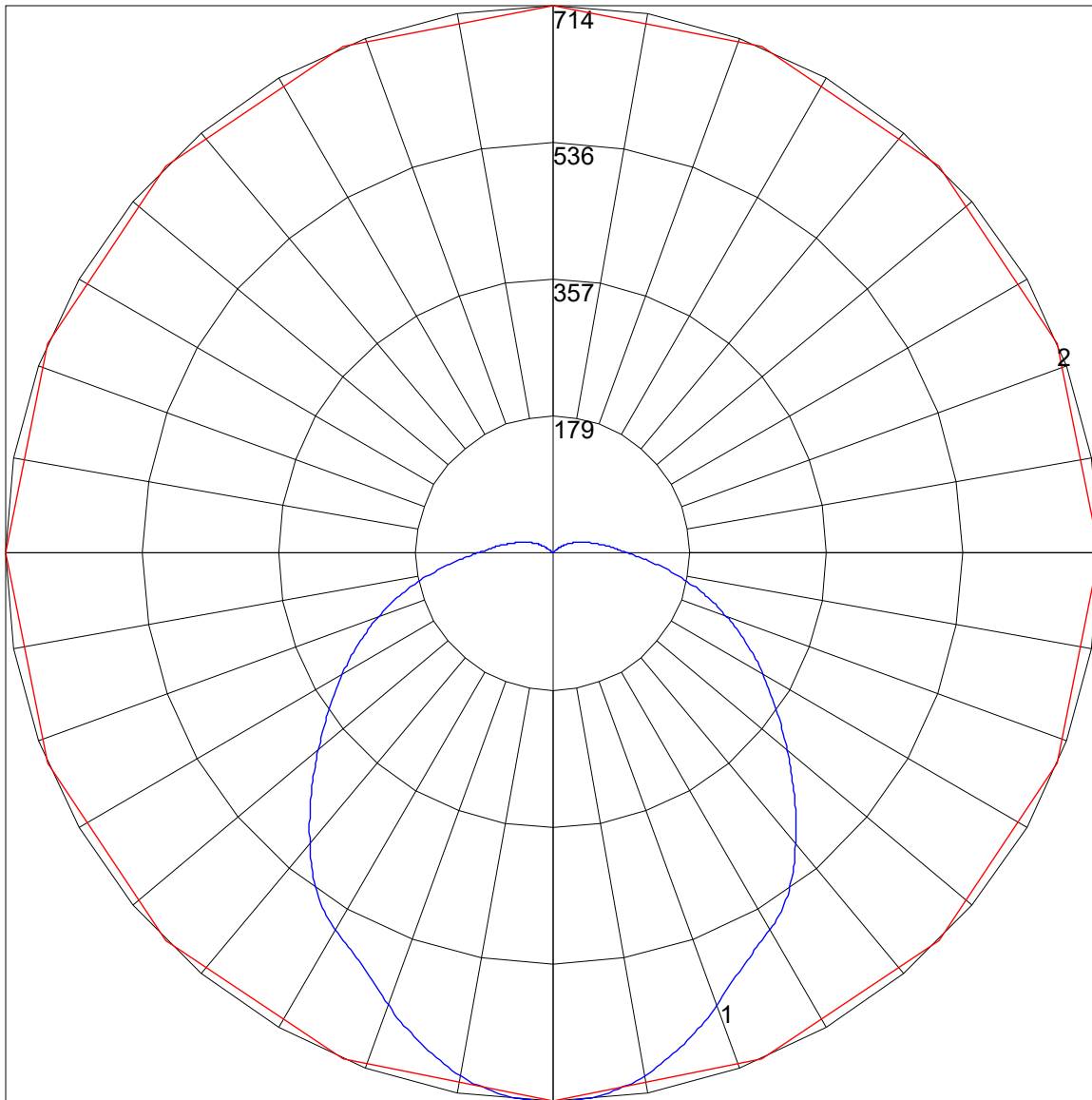
X=2H	Y=2H	13.1	14.6	13.5	15.1	15.5	14.8	16.4	15.3	16.8	17.2
	3H	14.4	15.8	14.8	16.2	16.7	17.2	18.6	17.7	19.0	19.5
	4H	14.8	16.1	15.3	16.6	17.1	18.3	19.7	18.8	20.1	20.6
	6H	15.1	16.3	15.6	16.8	17.3	19.4	20.7	19.9	21.1	21.6
	8H	15.1	16.3	15.6	16.8	17.3	19.9	21.1	20.4	21.6	22.1
	12H	15.1	16.3	15.7	16.8	17.3	20.5	21.6	21.0	22.1	22.7

UGR Viewed Endwise

4H	2H	13.8	15.2	14.3	15.6	16.1	15.2	16.6	15.7	17.0	17.5
	3H	15.4	16.5	15.9	17.0	17.5	17.8	19.0	18.3	19.5	20.0
	4H	15.9	17.0	16.4	17.5	18.0	19.1	20.2	19.6	20.7	21.2
	6H	16.3	17.2	16.8	17.7	18.3	20.4	21.3	21.0	21.9	22.4
	8H	16.4	17.3	16.9	17.8	18.4	21.1	21.9	21.6	22.4	23.0
	12H	16.5	17.2	17.0	17.8	18.4	21.7	22.5	22.3	23.1	23.6
8H	4H	16.5	17.4	17.1	17.9	18.5	19.3	20.2	19.9	20.7	21.3
	6H	17.1	17.8	17.6	18.4	19.0	20.8	21.5	21.3	22.1	22.7
	8H	17.3	17.9	17.9	18.5	19.1	21.5	22.2	22.1	22.8	23.4
	12H	17.4	18.0	18.0	18.6	19.2	22.4	23.0	23.0	23.5	24.2
12H	4H	16.7	17.5	17.3	18.0	18.6	19.3	20.1	19.9	20.7	21.3
	6H	17.4	18.0	17.9	18.6	19.2	20.8	21.5	21.4	22.0	22.7
	8H	17.6	18.2	18.2	18.8	19.4	21.6	22.2	22.2	22.8	23.5

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 714.423 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.)