



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 MH 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 8 MH 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] 192 white LEDs on four LS3872A7-3500K-R90 LED boards with 48 LEDs

[MORE] each.

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 1730mA

[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	11595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	86.1
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)	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	7843	6753	6536
55	6776	5793	5881
65	5546	4955	5457
75	4338	4357	5065
85	3025	4002	4575

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1421.82	N.A.	12.30
0-30	2966.68	N.A.	25.60
0-40	4800.4	N.A.	41.40
0-60	8289.22	N.A.	71.50
0-80	10463.79	N.A.	90.20
0-90	10984.69	N.A.	94.70
10-90	10611.63	N.A.	91.50
20-40	3378.57	N.A.	29.10
20-50	5233.95	N.A.	45.10
40-70	4774.03	N.A.	41.20
60-80	2174.57	N.A.	18.80
70-80	889.36	N.A.	7.70
80-90	520.90	N.A.	4.50
90-110	474.50	N.A.	4.10
90-120	565.54	N.A.	4.90
90-130	600.96	N.A.	5.20
90-150	609.63	N.A.	5.30
90-180	610.27	N.A.	5.30
110-180	135.77	N.A.	1.20
0-180	11594.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	373.06
10-20	1048.76
20-30	1544.86
30-40	1833.72
40-50	1855.38
50-60	1633.45
60-70	1285.21
70-80	889.36
80-90	520.90
90-100	297.97
100-110	176.53
110-120	91.04
120-130	35.42
130-140	6.85
140-150	1.82
150-160	0.64
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

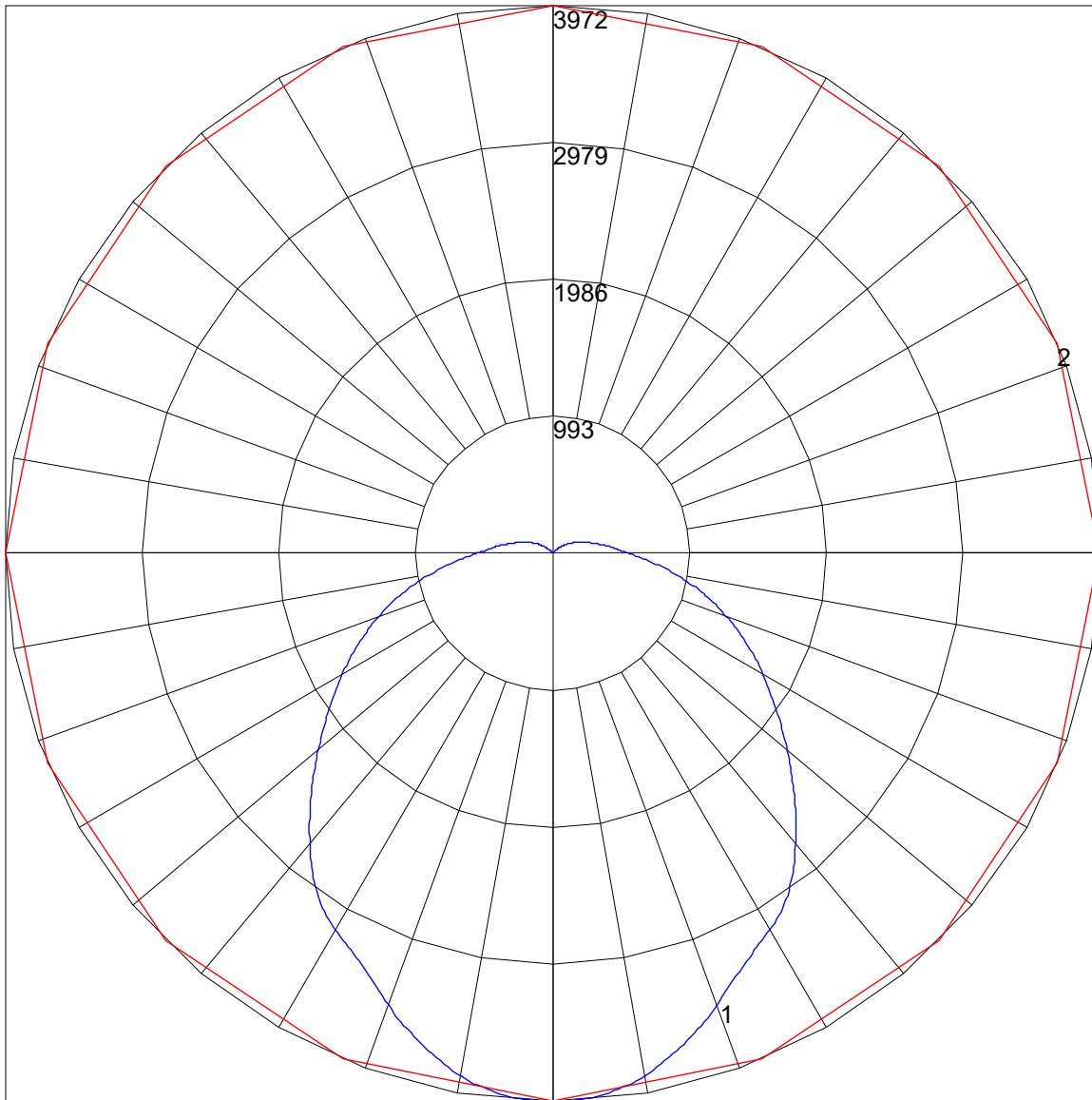
Reflectances

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	16.7	18.3	17.2	18.7	19.1	18.5	20.1	19.0	20.5	20.9
	3H	18.0	19.4	18.5	19.8	20.3	20.9	22.3	21.4	22.8	23.2
	4H	18.4	19.8	18.9	20.2	20.7	22.1	23.4	22.5	23.8	24.3
	6H	18.7	19.9	19.2	20.4	20.9	23.2	24.4	23.7	24.9	25.4
	8H	18.7	19.9	19.2	20.4	20.9	23.7	24.9	24.2	25.4	25.9
	12H	18.8	19.9	19.3	20.4	20.9	24.3	25.5	24.8	25.9	26.5
4H	2H	17.5	18.8	17.9	19.2	19.7	18.9	20.2	19.4	20.7	21.2
	3H	19.0	20.2	19.5	20.6	21.2	21.5	22.7	22.0	23.2	23.7
	4H	19.6	20.6	20.1	21.1	21.6	22.9	23.9	23.4	24.4	24.9
	6H	19.9	20.8	20.5	21.4	21.9	24.2	25.1	24.7	25.6	26.2
	8H	20.0	20.9	20.6	21.4	22.0	24.8	25.7	25.4	26.2	26.8
	12H	20.1	20.9	20.7	21.4	22.0	25.5	26.3	26.1	26.9	27.5
8H	4H	20.2	21.0	20.7	21.6	22.2	23.1	23.9	23.6	24.4	25.0
	6H	20.7	21.5	21.3	22.0	22.6	24.5	25.3	25.1	25.8	26.4
	8H	20.9	21.6	21.5	22.2	22.8	25.3	26.0	25.9	26.6	27.2
	12H	21.0	21.6	21.6	22.2	22.9	26.2	26.8	26.8	27.4	28.0
12H	4H	20.4	21.1	20.9	21.7	22.3	23.1	23.8	23.6	24.4	25.0
	6H	21.0	21.7	21.6	22.2	22.9	24.6	25.2	25.2	25.8	26.4
	8H	21.3	21.9	21.8	22.4	23.1	25.4	26.0	26.0	26.6	27.2

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 3972.095 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.)