



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 MH UV FRA 950.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 950

[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 LS3872A7-5000K-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	11870
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	8029	6913	6691
55	6937	5931	6020
65	5678	5072	5587
75	4441	4461	5185
85	3096	4097	4684

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1455.59	N.A.	12.30
0-30	3037.14	N.A.	25.60
0-40	4914.41	N.A.	41.40
0-60	8486.1	N.A.	71.50
0-80	10712.31	N.A.	90.20
0-90	11245.59	N.A.	94.70
10-90	10863.66	N.A.	91.50
20-40	3458.82	N.A.	29.10
20-50	5358.26	N.A.	45.10
40-70	4887.42	N.A.	41.20
60-80	2226.21	N.A.	18.80
70-80	910.48	N.A.	7.70
80-90	533.28	N.A.	4.50
90-110	485.77	N.A.	4.10
90-120	578.97	N.A.	4.90
90-130	615.23	N.A.	5.20
90-150	624.11	N.A.	5.30
90-180	624.77	N.A.	5.30
110-180	139.00	N.A.	1.20
0-180	11870.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	381.92
10-20	1073.67
20-30	1581.55
30-40	1877.27
40-50	1899.45
50-60	1672.24
60-70	1315.73
70-80	910.48
80-90	533.28
90-100	305.05
100-110	180.72
110-120	93.20
120-130	36.26
130-140	7.01
140-150	1.87
150-160	0.66
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

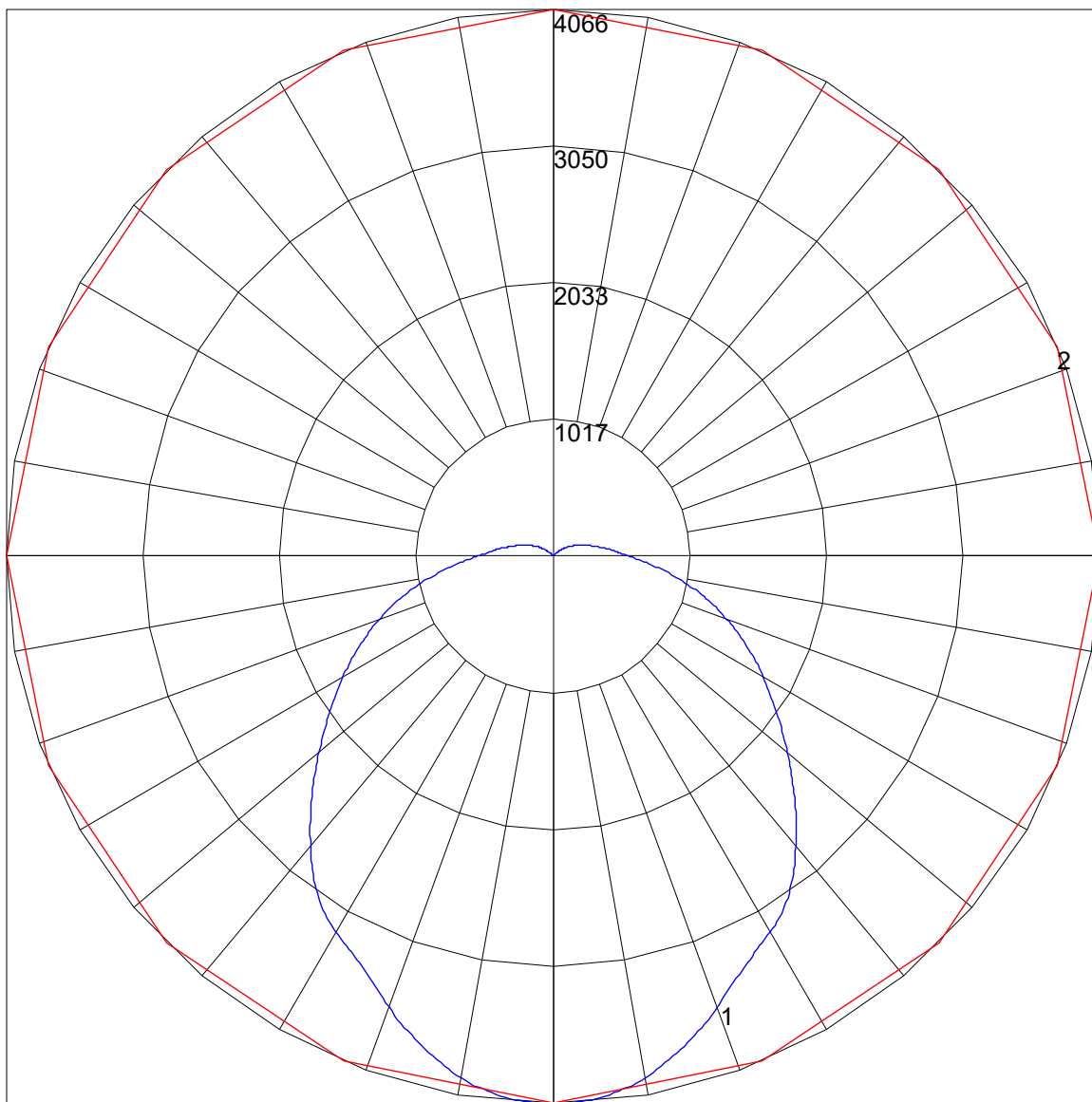
Reflectances

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	16.8	18.4	17.3	18.8	19.2	18.6	20.2	19.1	20.6	21.0
	3H	18.1	19.5	18.6	19.9	20.4	21.0	22.4	21.5	22.9	23.3
	4H	18.5	19.9	19.0	20.3	20.8	22.2	23.5	22.6	23.9	24.4
	6H	18.8	20.0	19.3	20.5	21.0	23.3	24.5	23.8	25.0	25.5
	8H	18.8	20.0	19.3	20.5	21.0	23.8	25.0	24.3	25.5	26.0
	12H	18.9	20.0	19.4	20.5	21.0	24.4	25.6	24.9	26.0	26.6
4H	2H	17.6	18.9	18.0	19.3	19.8	19.0	20.3	19.5	20.8	21.3
	3H	19.1	20.3	19.6	20.7	21.3	21.6	22.8	22.1	23.3	23.8
	4H	19.7	20.7	20.2	21.2	21.7	23.0	24.0	23.5	24.5	25.0
	6H	20.0	20.9	20.6	21.5	22.0	24.3	25.2	24.8	25.7	26.3
	8H	20.1	21.0	20.7	21.5	22.1	24.9	25.8	25.5	26.3	26.9
	12H	20.2	21.0	20.8	21.5	22.1	25.6	26.4	26.2	27.0	27.6
8H	4H	20.3	21.1	20.8	21.7	22.3	23.2	24.0	23.7	24.5	25.1
	6H	20.8	21.6	21.4	22.1	22.7	24.6	25.4	25.2	25.9	26.5
	8H	21.0	21.7	21.6	22.3	22.9	25.4	26.1	26.0	26.7	27.3
	12H	21.1	21.7	21.7	22.3	23.0	26.3	26.9	26.9	27.5	28.1
12H	4H	20.5	21.2	21.0	21.8	22.4	23.2	23.9	23.7	24.5	25.1
	6H	21.1	21.8	21.7	22.3	23.0	24.7	25.3	25.3	25.9	26.5
	8H	21.4	22.0	21.9	22.5	23.2	25.5	26.1	26.1	26.7	27.3

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 4066.436 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.)