



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 VH UV FRA 930.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 VH UV FRA 930

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed

[MORE] white painted steel LED tray/reflector, translucent linear stepped plastic

[MORE] lens.

[LAMP] 168 white LEDs on two LS3872A10-3000K-R90 LED boards with 84 LEDs

[MORE] each.

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 1640mA

[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	9621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	71.6
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	12387	10740	10502
55	10627	9183	9449
65	8598	7818	8769
75	6565	6825	8138
85	4168	6177	7351

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1179.72	N.A.	12.30
0-30	2461.51	N.A.	25.60
0-40	3982.98	N.A.	41.40
0-60	6877.73	N.A.	71.50
0-80	8682.01	N.A.	90.20
0-90	9114.22	N.A.	94.70
10-90	8804.68	N.A.	91.50
20-40	2803.27	N.A.	29.10
20-50	4342.71	N.A.	45.10
40-70	3961.11	N.A.	41.20
60-80	1804.28	N.A.	18.80
70-80	737.92	N.A.	7.70
80-90	432.20	N.A.	4.50
90-110	393.70	N.A.	4.10
90-120	469.24	N.A.	4.90
90-130	498.63	N.A.	5.20
90-150	505.82	N.A.	5.30
90-180	506.36	N.A.	5.30
110-180	112.65	N.A.	1.20
0-180	9620.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	309.54
10-20	870.18
20-30	1281.8
30-40	1521.47
40-50	1539.44
50-60	1355.3
60-70	1066.36
70-80	737.92
80-90	432.20
90-100	247.23
100-110	146.47
110-120	75.54
120-130	29.39
130-140	5.68
140-150	1.51
150-160	0.53
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

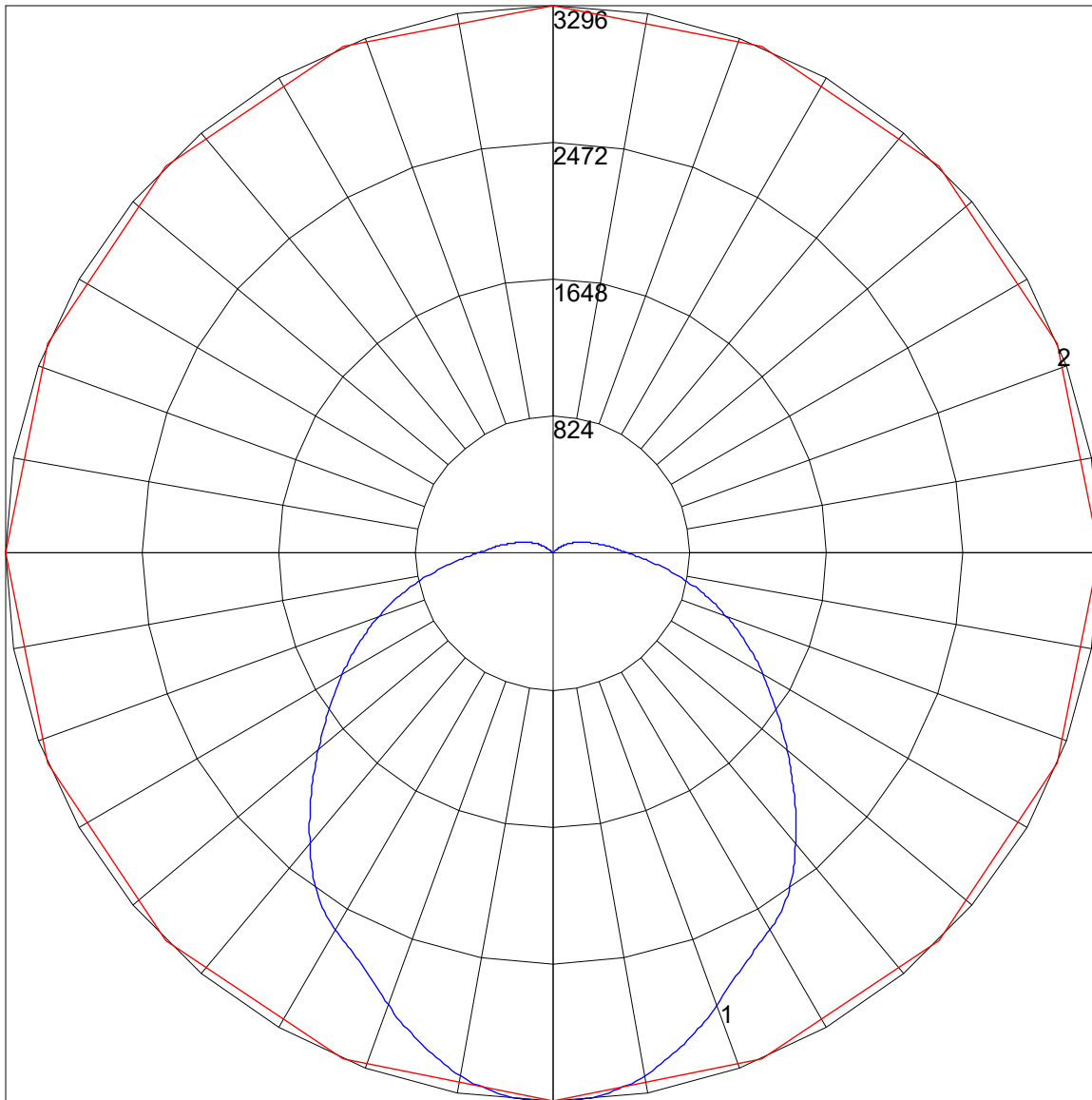
Reflectances

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	18.4	19.9	18.8	20.4	20.8	20.1	21.7	20.6	22.1	22.5
	3H	19.7	21.1	20.1	21.5	22.0	22.5	23.9	23.0	24.3	24.8
	4H	20.1	21.4	20.6	21.9	22.4	23.6	25.0	24.1	25.4	25.9
	6H	20.4	21.6	20.9	22.1	22.6	24.7	26.0	25.2	26.4	26.9
	8H	20.4	21.6	20.9	22.1	22.6	25.2	26.4	25.7	26.9	27.4
	12H	20.4	21.6	21.0	22.1	22.6	25.8	26.9	26.3	27.4	28.0
4H	2H	19.1	20.5	19.6	20.9	21.4	20.5	21.9	21.0	22.3	22.8
	3H	20.7	21.8	21.2	22.3	22.8	23.1	24.3	23.6	24.8	25.3
	4H	21.2	22.3	21.7	22.8	23.3	24.4	25.5	24.9	26.0	26.5
	6H	21.6	22.5	22.1	23.0	23.6	25.7	26.6	26.3	27.2	27.7
	8H	21.7	22.6	22.2	23.1	23.7	26.4	27.2	26.9	27.7	28.3
	12H	21.8	22.5	22.3	23.1	23.7	27.0	27.8	27.6	28.4	28.9
8H	4H	21.8	22.7	22.4	23.2	23.8	24.6	25.5	25.2	26.0	26.6
	6H	22.4	23.1	22.9	23.7	24.3	26.1	26.8	26.6	27.4	28.0
	8H	22.6	23.2	23.1	23.8	24.4	26.8	27.5	27.4	28.1	28.7
	12H	22.7	23.3	23.3	23.9	24.5	27.7	28.3	28.3	28.8	29.5
12H	4H	22.0	22.8	22.6	23.3	23.9	24.6	25.4	25.2	26.0	26.6
	6H	22.7	23.3	23.2	23.9	24.5	26.1	26.8	26.7	27.3	28.0
	8H	22.9	23.5	23.5	24.1	24.7	26.9	27.5	27.5	28.1	28.8

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 3295.726 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.)