



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 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 4 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] 168 white LEDs on two LS3872A10-4000K-R90 LED boards with 84 LEDs
[MORE] each.

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 2000mA

[OTHER] 120.0Vac, 60.00Hz, 0.7374A, 88.30W, 0.998PF, 5.3%THD(i)

[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	11805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	88.3
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	15199	13179	12886
55	13040	11268	11594
65	10551	9593	10760
75	8056	8375	9986
85	5114	7580	9021

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1447.56	N.A.	12.30
0-30	3020.38	N.A.	25.60
0-40	4887.29	N.A.	41.40
0-60	8439.28	N.A.	71.50
0-80	10653.21	N.A.	90.20
0-90	11183.54	N.A.	94.70
10-90	10803.72	N.A.	91.50
20-40	3439.73	N.A.	29.10
20-50	5328.7	N.A.	45.10
40-70	4860.45	N.A.	41.20
60-80	2213.93	N.A.	18.80
70-80	905.46	N.A.	7.70
80-90	530.33	N.A.	4.50
90-110	483.09	N.A.	4.10
90-120	575.78	N.A.	4.90
90-130	611.84	N.A.	5.20
90-150	620.67	N.A.	5.30
90-180	621.32	N.A.	5.30
110-180	138.23	N.A.	1.20
0-180	11804.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	379.82
10-20	1067.75
20-30	1572.82
30-40	1866.91
40-50	1888.97
50-60	1663.02
60-70	1308.47
70-80	905.46
80-90	530.33
90-100	303.36
100-110	179.73
110-120	92.69
120-130	36.06
130-140	6.97
140-150	1.86
150-160	0.65
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

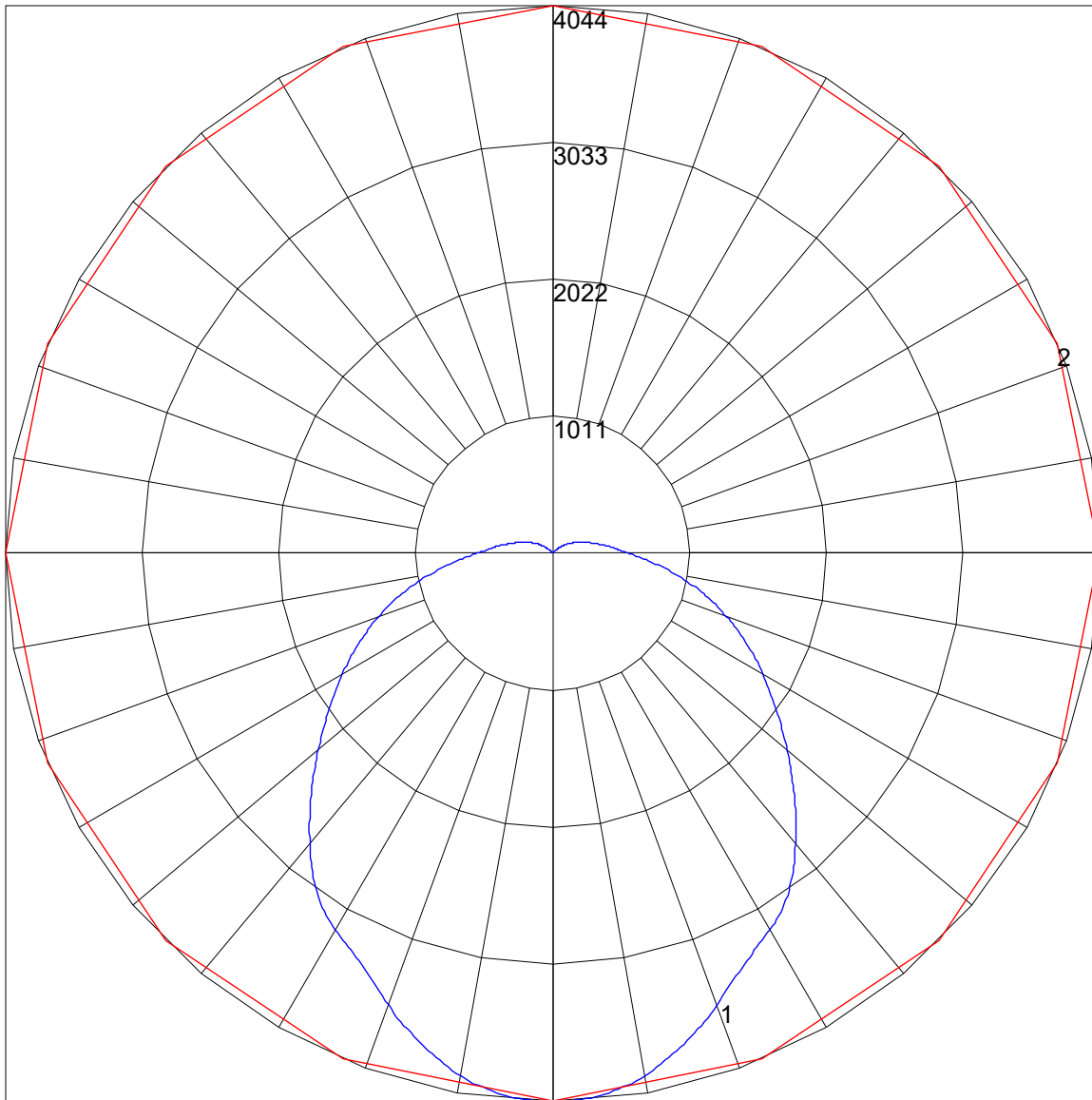
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UGR TABLE - CORRECTED

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	19.1	20.6	19.5	21.1	21.5	20.8	22.4	21.3	22.8	23.2
	3H	20.4	21.8	20.8	22.2	22.7	23.2	24.6	23.7	25.0	25.5
	4H	20.8	22.1	21.3	22.6	23.1	24.3	25.7	24.8	26.1	26.6
	6H	21.1	22.3	21.6	22.8	23.3	25.4	26.7	25.9	27.1	27.6
	8H	21.1	22.3	21.6	22.8	23.3	25.9	27.1	26.4	27.6	28.1
	12H	21.1	22.3	21.7	22.8	23.3	26.5	27.6	27.0	28.1	28.7
4H	2H	19.8	21.2	20.3	21.6	22.1	21.2	22.6	21.7	23.0	23.5
	3H	21.4	22.5	21.9	23.0	23.5	23.8	25.0	24.3	25.5	26.0
	4H	21.9	23.0	22.4	23.5	24.0	25.1	26.2	25.6	26.7	27.2
	6H	22.3	23.2	22.8	23.7	24.3	26.4	27.3	27.0	27.9	28.4
	8H	22.4	23.3	22.9	23.8	24.4	27.1	27.9	27.6	28.4	29.0
	12H	22.5	23.2	23.0	23.8	24.4	27.7	28.5	28.3	29.1	29.6
8H	4H	22.5	23.4	23.1	23.9	24.5	25.3	26.2	25.9	26.7	27.3
	6H	23.1	23.8	23.6	24.4	25.0	26.8	27.5	27.3	28.1	28.7
	8H	23.3	23.9	23.8	24.5	25.1	27.5	28.2	28.1	28.8	29.4
	12H	23.4	24.0	24.0	24.6	25.2	28.4	29.0	29.0	29.5	30.2
12H	4H	22.7	23.5	23.3	24.0	24.6	25.3	26.1	25.9	26.7	27.2
	6H	23.4	24.0	23.9	24.6	25.2	26.8	27.5	27.4	28.0	28.7
	8H	23.6	24.2	24.2	24.8	25.4	27.6	28.2	28.2	28.8	29.5

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 4044 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.)