



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 LW UV FRA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-008A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 7/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] NVL G2 4 LW 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] 96 white LEDs on two LS3872A7-4000K-R90 LED boards with 48 LEDs
[MORE] each.

[BALLAST] One ULT Everline D10CC30UNVPW-C LED driver labeled as 580mA

[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	4059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	29.3
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	5226	4531	4430
55	4483	3874	3986
65	3627	3298	3699
75	2770	2879	3433
85	1758	2606	3101

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	497.69	N.A.	12.30
0-30	1038.44	N.A.	25.60
0-40	1680.31	N.A.	41.40
0-60	2901.52	N.A.	71.50
0-80	3662.7	N.A.	90.20
0-90	3845.03	N.A.	94.70
10-90	3714.45	N.A.	91.50
20-40	1182.62	N.A.	29.10
20-50	1832.07	N.A.	45.10
40-70	1671.08	N.A.	41.20
60-80	761.18	N.A.	18.80
70-80	311.31	N.A.	7.70
80-90	182.34	N.A.	4.50
90-110	166.09	N.A.	4.10
90-120	197.96	N.A.	4.90
90-130	210.36	N.A.	5.20
90-150	213.39	N.A.	5.30
90-180	213.62	N.A.	5.30
110-180	47.53	N.A.	1.20
0-180	4058.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.59
10-20	367.10
20-30	540.75
30-40	641.87
40-50	649.45
50-60	571.76
60-70	449.87
70-80	311.31
80-90	182.34
90-100	104.30
100-110	61.79
110-120	31.87
120-130	12.40
130-140	2.40
140-150	0.64
150-160	0.22
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

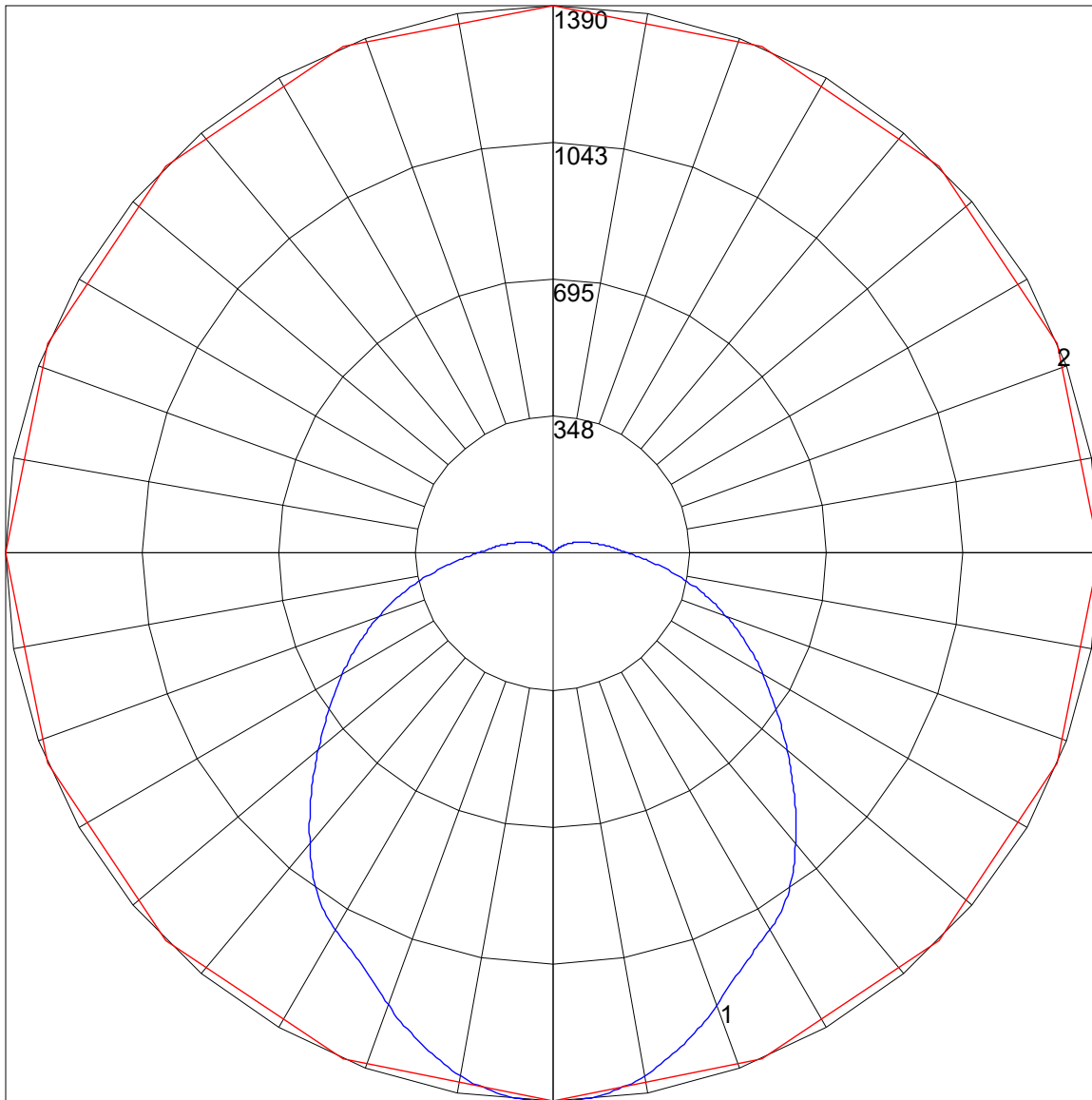
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UGR TABLE - CORRECTED

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	15.4	16.9	15.8	17.4	17.8	17.1	18.7	17.6	19.1	19.5
	3H	16.7	18.1	17.1	18.5	19.0	19.5	20.9	20.0	21.3	21.8
	4H	17.1	18.4	17.6	18.9	19.4	20.6	22.0	21.1	22.4	22.9
	6H	17.4	18.6	17.9	19.1	19.6	21.7	23.0	22.2	23.4	23.9
	8H	17.4	18.6	17.9	19.1	19.6	22.2	23.4	22.7	23.9	24.4
	12H	17.4	18.6	18.0	19.1	19.6	22.8	23.9	23.3	24.4	25.0
4H	2H	16.1	17.5	16.6	17.9	18.4	17.5	18.9	18.0	19.3	19.8
	3H	17.7	18.8	18.2	19.3	19.8	20.1	21.3	20.6	21.8	22.3
	4H	18.2	19.3	18.7	19.8	20.3	21.4	22.5	21.9	23.0	23.5
	6H	18.6	19.5	19.1	20.0	20.6	22.7	23.6	23.3	24.2	24.7
	8H	18.7	19.6	19.2	20.1	20.7	23.4	24.2	23.9	24.7	25.3
	12H	18.8	19.5	19.3	20.1	20.7	24.0	24.8	24.6	25.4	25.9
8H	4H	18.8	19.7	19.4	20.2	20.8	21.6	22.5	22.2	23.0	23.6
	6H	19.4	20.1	19.9	20.7	21.3	23.1	23.8	23.6	24.4	25.0
	8H	19.6	20.2	20.1	20.8	21.4	23.8	24.5	24.4	25.1	25.7
	12H	19.7	20.3	20.3	20.9	21.5	24.7	25.3	25.3	25.8	26.5
12H	4H	19.0	19.8	19.6	20.3	20.9	21.6	22.4	22.2	23.0	23.6
	6H	19.7	20.3	20.2	20.9	21.5	23.1	23.8	23.7	24.3	25.0
	8H	19.9	20.5	20.5	21.1	21.7	23.9	24.5	24.5	25.1	25.8

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 1390.375 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.)