



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 VH 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 VH 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 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	9891
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	12734	11042	10797
55	10925	9441	9714
65	8840	8038	9015
75	6749	7017	8367
85	4285	6351	7558

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1212.83	N.A.	12.30
0-30	2530.6	N.A.	25.60
0-40	4094.77	N.A.	41.40
0-60	7070.76	N.A.	71.50
0-80	8925.68	N.A.	90.20
0-90	9370.02	N.A.	94.70
10-90	9051.79	N.A.	91.50
20-40	2881.94	N.A.	29.10
20-50	4464.6	N.A.	45.10
40-70	4072.28	N.A.	41.20
60-80	1854.92	N.A.	18.80
70-80	758.63	N.A.	7.70
80-90	444.33	N.A.	4.50
90-110	404.75	N.A.	4.10
90-120	482.41	N.A.	4.90
90-130	512.62	N.A.	5.20
90-150	520.02	N.A.	5.30
90-180	520.57	N.A.	5.30
110-180	115.82	N.A.	1.20
0-180	9890.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	318.23
10-20	894.60
20-30	1317.77
30-40	1564.17
40-50	1582.65
50-60	1393.34
60-70	1096.29
70-80	758.63
80-90	444.33
90-100	254.17
100-110	150.58
110-120	77.66
120-130	30.21
130-140	5.84
140-150	1.56
150-160	0.55
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

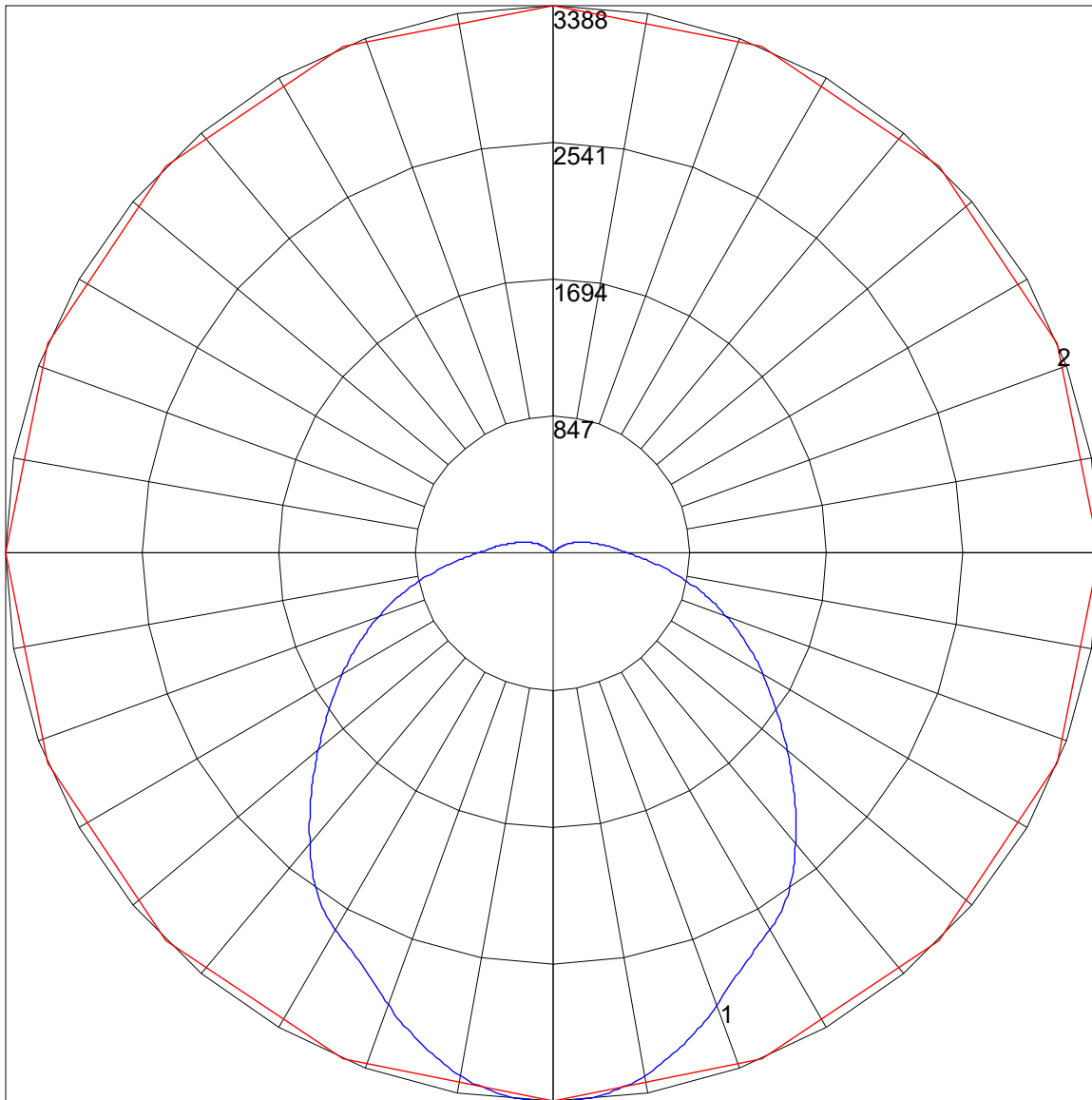
Reflectances

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	18.5	20.0	18.9	20.5	20.9	20.2	21.8	20.7	22.2	22.6
	3H	19.8	21.2	20.2	21.6	22.1	22.6	24.0	23.1	24.4	24.9
	4H	20.2	21.5	20.7	22.0	22.5	23.7	25.1	24.2	25.5	26.0
	6H	20.5	21.7	21.0	22.2	22.7	24.8	26.1	25.3	26.5	27.0
	8H	20.5	21.7	21.0	22.2	22.7	25.3	26.5	25.8	27.0	27.5
	12H	20.5	21.7	21.1	22.2	22.7	25.9	27.0	26.4	27.5	28.1
4H	2H	19.2	20.6	19.7	21.0	21.5	20.6	22.0	21.1	22.4	22.9
	3H	20.8	21.9	21.3	22.4	22.9	23.2	24.4	23.7	24.9	25.4
	4H	21.3	22.4	21.8	22.9	23.4	24.5	25.6	25.0	26.1	26.6
	6H	21.7	22.6	22.2	23.1	23.7	25.8	26.7	26.4	27.3	27.8
	8H	21.8	22.7	22.3	23.2	23.8	26.5	27.3	27.0	27.8	28.4
	12H	21.9	22.6	22.4	23.2	23.8	27.1	27.9	27.7	28.5	29.0
8H	4H	21.9	22.8	22.5	23.3	23.9	24.7	25.6	25.3	26.1	26.7
	6H	22.5	23.2	23.0	23.8	24.4	26.2	26.9	26.7	27.5	28.1
	8H	22.7	23.3	23.2	23.9	24.5	26.9	27.6	27.5	28.2	28.8
	12H	22.8	23.4	23.4	24.0	24.6	27.8	28.4	28.4	28.9	29.6
12H	4H	22.1	22.9	22.7	23.4	24.0	24.7	25.5	25.3	26.1	26.6
	6H	22.8	23.4	23.3	24.0	24.6	26.2	26.9	26.8	27.4	28.1
	8H	23.0	23.6	23.6	24.2	24.8	27.0	27.6	27.6	28.2	28.9

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 3388.225 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.)