



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 SH UV FRA 935.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 SH UV FRA 935

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed
[MORE] white painted steel LED tray/reflector, translucent linear stepped plastic
[MORE] lens.

[LAMP] 336 white LEDs on four LS3872A10-3500K-R90 LED boards with 84 LEDs
[MORE] each.

[BALLAST] Two ULT Everline D21CC80UNVPW-C LED drivers labeled as 2000mA

[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	23062
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	177.5
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	15599	13431	13000
55	13478	11522	11696
65	11031	9855	10854
75	8627	8666	10074
85	6016	7960	9100

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2827.92	N.A.	12.30
0-30	5900.55	N.A.	25.60
0-40	9547.7	N.A.	41.40
0-60	16486.76	N.A.	71.50
0-80	20811.84	N.A.	90.20
0-90	21847.88	N.A.	94.70
10-90	21105.88	N.A.	91.50
20-40	6719.77	N.A.	29.10
20-50	10410.01	N.A.	45.10
40-70	9495.26	N.A.	41.20
60-80	4325.08	N.A.	18.80
70-80	1768.88	N.A.	7.70
80-90	1036.05	N.A.	4.50
90-110	943.75	N.A.	4.10
90-120	1124.83	N.A.	4.90
90-130	1195.27	N.A.	5.20
90-150	1212.52	N.A.	5.30
90-180	1213.8	N.A.	5.30
110-180	270.05	N.A.	1.20
0-180	23061.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	742.00
10-20	2085.92
20-30	3072.62
30-40	3647.15
40-50	3690.23
50-60	3248.82
60-70	2556.2
70-80	1768.88
80-90	1036.05
90-100	592.64
100-110	351.11
110-120	181.07
120-130	70.44
130-140	13.62
140-150	3.63
150-160	1.28
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

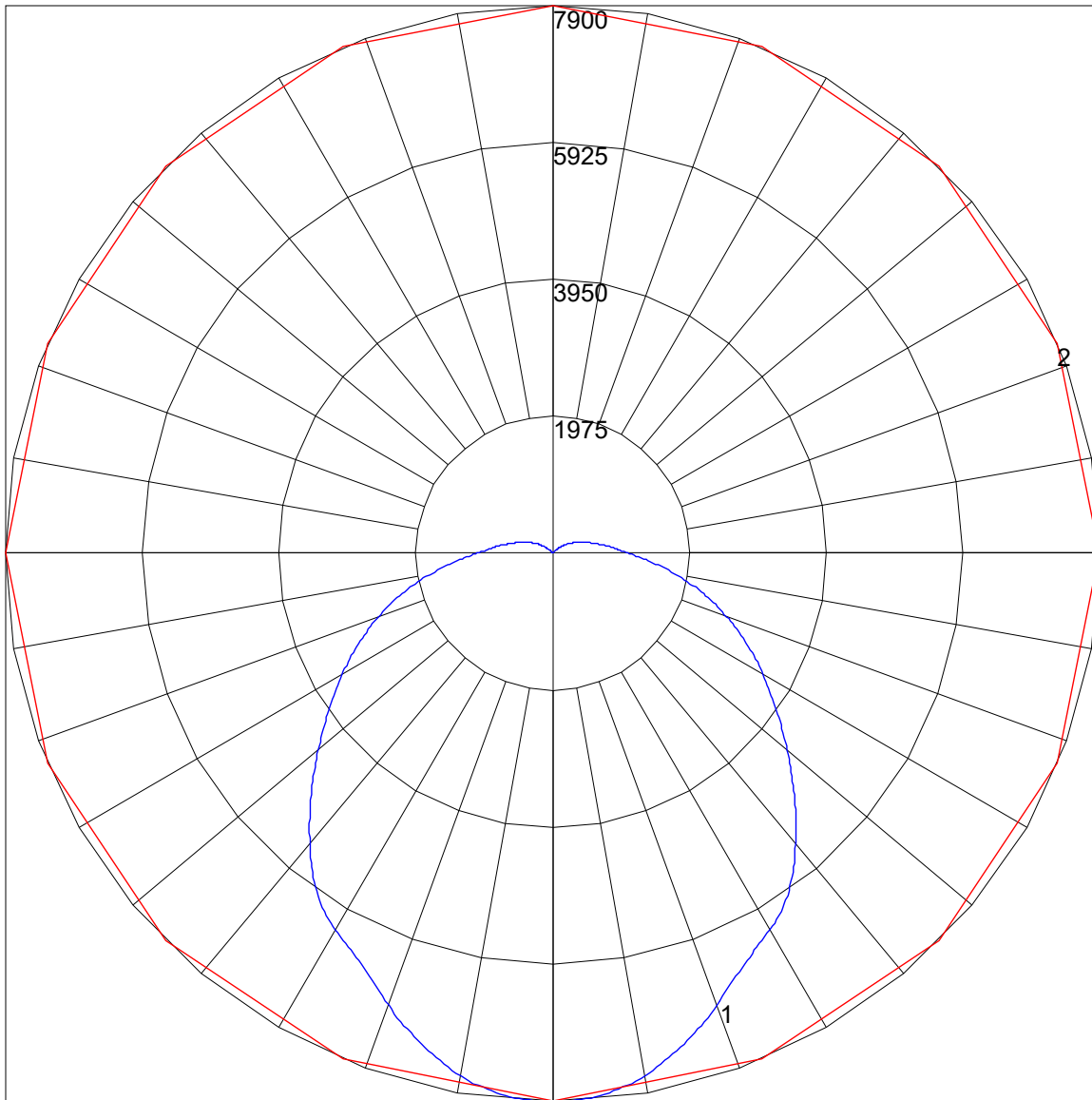
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UGR TABLE - CORRECTED

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	20.7	19.6	21.1	21.5	20.9	22.5	21.4	22.9	23.3
	3H	20.4	21.8	20.9	22.2	22.7	23.3	24.7	23.8	25.2	25.6
	4H	20.8	22.2	21.3	22.6	23.1	24.5	25.8	24.9	26.2	26.7
	6H	21.1	22.3	21.6	22.8	23.3	25.6	26.8	26.1	27.3	27.8
	8H	21.1	22.3	21.6	22.8	23.3	26.1	27.3	26.6	27.8	28.3
	12H	21.2	22.3	21.7	22.8	23.3	26.7	27.9	27.2	28.3	28.9
4H	2H	19.9	21.2	20.3	21.6	22.1	21.3	22.6	21.8	23.1	23.6
	3H	21.4	22.6	21.9	23.0	23.6	23.9	25.1	24.4	25.6	26.1
	4H	22.0	23.0	22.5	23.5	24.0	25.3	26.3	25.8	26.8	27.3
	6H	22.3	23.2	22.9	23.8	24.3	26.6	27.5	27.1	28.0	28.6
	8H	22.4	23.3	23.0	23.8	24.4	27.2	28.1	27.8	28.6	29.2
	12H	22.5	23.3	23.1	23.8	24.4	27.9	28.7	28.5	29.3	29.9
8H	4H	22.6	23.4	23.1	24.0	24.6	25.5	26.3	26.0	26.8	27.4
	6H	23.1	23.9	23.7	24.4	25.0	26.9	27.7	27.5	28.2	28.8
	8H	23.3	24.0	23.9	24.6	25.2	27.7	28.4	28.3	29.0	29.6
	12H	23.4	24.0	24.0	24.6	25.3	28.6	29.2	29.2	29.8	30.4
12H	4H	22.8	23.5	23.3	24.1	24.7	25.5	26.2	26.0	26.8	27.4
	6H	23.4	24.1	24.0	24.6	25.3	27.0	27.6	27.6	28.2	28.8
	8H	23.7	24.3	24.2	24.8	25.5	27.8	28.4	28.4	29.0	29.6

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 7900.257 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.)