



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV L G2 4 LW UV FA 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-019A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 7/8/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] WV L G2 4 LW UV FA 935

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed  
[MORE] white painted steel LED tray/reflector, translucent drop plastic lens with  
[MORE] linear prisms on the sides.

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

[BALLAST] Two ULT Everline D21CC80UNVPW-C LED drivers at 1570mA

[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	19744
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	138
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.18 ft
Luminous Height	0.23 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12394	11191	10853
55	10916	9534	9547
65	9180	7926	8406
75	7305	6462	7246
85	4723	4868	5958

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2493.93	N.A.	12.60
0-30	5297.31	N.A.	26.80
0-40	8641.24	N.A.	43.80
0-60	14875.11	N.A.	75.30
0-80	18425.32	N.A.	93.30
0-90	19071.67	N.A.	96.60
10-90	18427.31	N.A.	93.30
20-40	6147.31	N.A.	31.10
20-50	9496.56	N.A.	48.10
40-70	8407.47	N.A.	42.60
60-80	3550.21	N.A.	18.00
70-80	1376.61	N.A.	7.00
80-90	646.35	N.A.	3.30
90-110	436.68	N.A.	2.20
90-120	554.21	N.A.	2.80
90-130	625.57	N.A.	3.20
90-150	670.95	N.A.	3.40
90-180	671.84	N.A.	3.40
110-180	235.16	N.A.	1.20
0-180	19743.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	644.36
10-20	1849.57
20-30	2803.38
30-40	3343.94
40-50	3349.25
50-60	2884.62
60-70	2173.6
70-80	1376.61
80-90	646.35
90-100	268.36
100-110	168.32
110-120	117.53
120-130	71.36
130-140	34.70
140-150	10.68
150-160	0.89
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	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	80
2	98	89	82	77	95	87	81	75	83	78	73	79	75	71	76	72	69	66
3	89	78	70	64	86	77	69	63	73	67	61	70	64	60	67	62	58	56
4	82	70	61	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	47	73	61	53	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	47	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	37	31	26	36	30	26	35	29	25	24

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**UGR TABLE - CORRECTED**

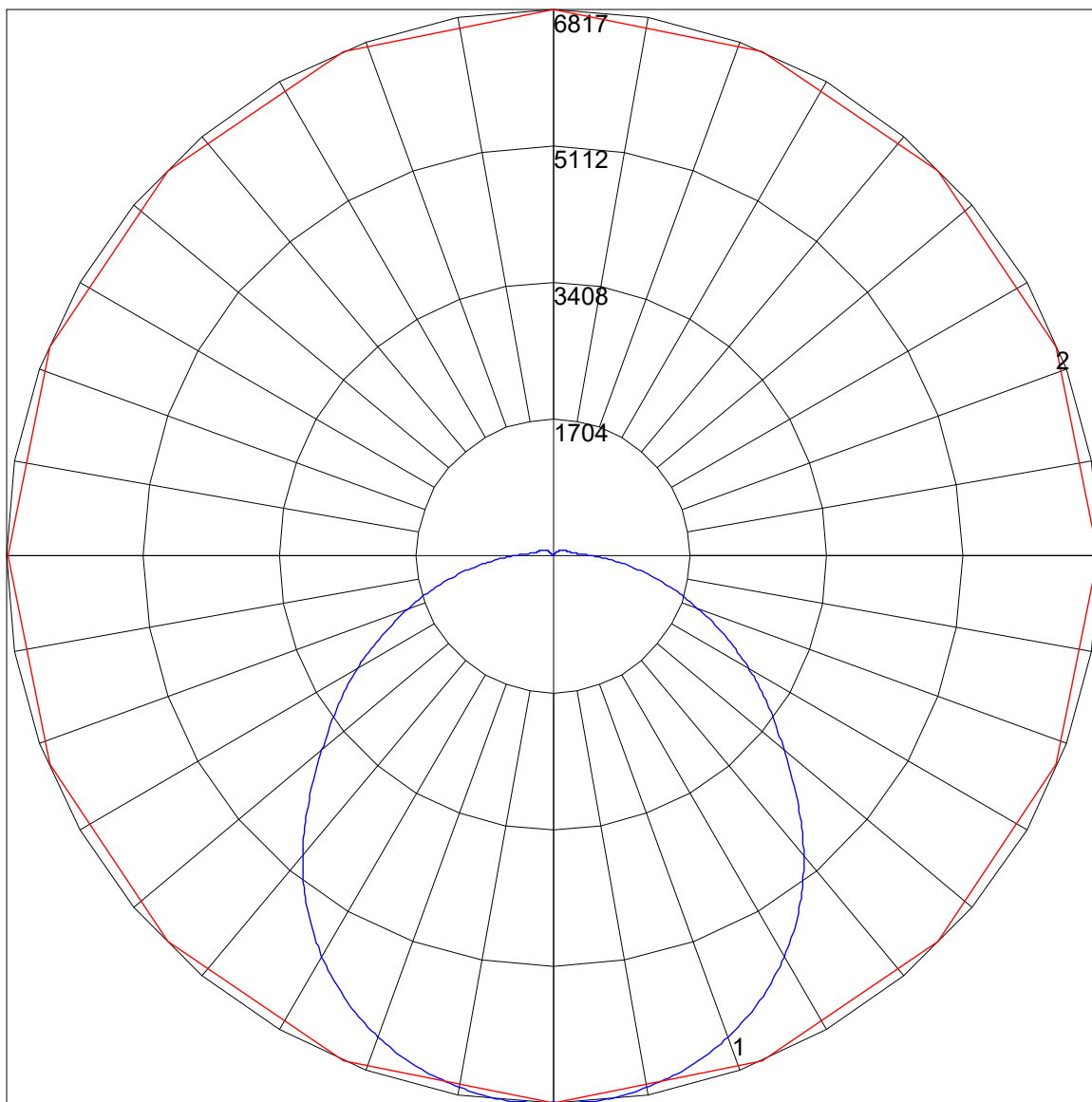
Reflectances

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	19.2	20.7	19.6	21.1	21.5	19.9	21.4	20.3	21.8	22.2
	3H	20.6	22.0	21.1	22.4	22.9	21.8	23.2	22.3	23.6	24.1
	4H	21.1	22.5	21.6	22.9	23.4	22.7	24.0	23.1	24.4	24.9
	6H	21.5	22.7	21.9	23.1	23.6	23.5	24.7	23.9	25.1	25.6
	8H	21.6	22.7	22.1	23.2	23.7	23.8	25.0	24.3	25.5	26.0
	12H	21.6	22.7	22.1	23.2	23.7	24.1	25.3	24.6	25.7	26.3
4H	2H	19.8	21.1	20.2	21.5	22.0	20.3	21.6	20.8	22.1	22.5
	3H	21.5	22.6	21.9	23.0	23.5	22.5	23.6	23.0	24.1	24.6
	4H	22.1	23.1	22.6	23.6	24.1	23.5	24.5	24.0	25.0	25.6
	6H	22.5	23.4	23.1	23.9	24.5	24.5	25.4	25.0	25.9	26.4
	8H	22.7	23.5	23.2	24.0	24.6	24.9	25.7	25.4	26.3	26.8
	12H	22.8	23.5	23.3	24.0	24.6	25.3	26.1	25.9	26.6	27.2
8H	4H	22.5	23.3	23.0	23.8	24.4	23.8	24.6	24.3	25.1	25.7
	6H	23.0	23.7	23.6	24.3	24.9	24.8	25.5	25.4	26.1	26.7
	8H	23.2	23.9	23.8	24.4	25.0	25.4	26.0	26.0	26.6	27.2
	12H	23.4	23.9	23.9	24.5	25.1	25.9	26.5	26.5	27.1	27.7
12H	4H	22.6	23.3	23.1	23.8	24.4	23.8	24.5	24.3	25.1	25.6
	6H	23.2	23.8	23.8	24.3	25.0	24.9	25.5	25.5	26.1	26.7
	8H	23.4	24.0	24.0	24.5	25.2	25.5	26.0	26.0	26.6	27.2

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 6816.512 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)