



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV L G2 4 SH UV FA 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-019A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 7/8/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] WV L G2 4 SH UV FA 940

[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] 672 white LEDs on eight LS3872A10-4000K-R90 LED boards with 84 LEDs

[MORE] each.

[BALLAST] Four ULT Everline D21CC80UNVPW-C LED drivers at 1400mA

[OTHER] 120.0Vac, 60.00Hz, 2.042A, 244.3W, 0.997PF, 6.4%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	36278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	244.27
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	22773	20564	19942
55	20057	17519	17542
65	16868	14563	15446
75	13423	11873	13313
85	8678	8945	10948

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4582.48	N.A.	12.60
0-30	9733.54	N.A.	26.80
0-40	15877.85	N.A.	43.80
0-60	27332.28	N.A.	75.30
0-80	33855.61	N.A.	93.30
0-90	35043.24	N.A.	96.60
10-90	33859.25	N.A.	93.30
20-40	11295.38	N.A.	31.10
20-50	17449.46	N.A.	48.10
40-70	15448.3	N.A.	42.60
60-80	6523.33	N.A.	18.00
70-80	2529.46	N.A.	7.00
80-90	1187.63	N.A.	3.30
90-110	802.38	N.A.	2.20
90-120	1018.33	N.A.	2.80
90-130	1149.45	N.A.	3.20
90-150	1232.84	N.A.	3.40
90-180	1234.47	N.A.	3.40
110-180	432.09	N.A.	1.20
0-180	36277.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1183.99
10-20	3398.49
20-30	5151.06
30-40	6144.31
40-50	6154.08
50-60	5300.35
60-70	3993.88
70-80	2529.46
80-90	1187.63
90-100	493.11
100-110	309.27
110-120	215.95
120-130	131.12
130-140	63.76
140-150	19.63
150-160	1.63
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**

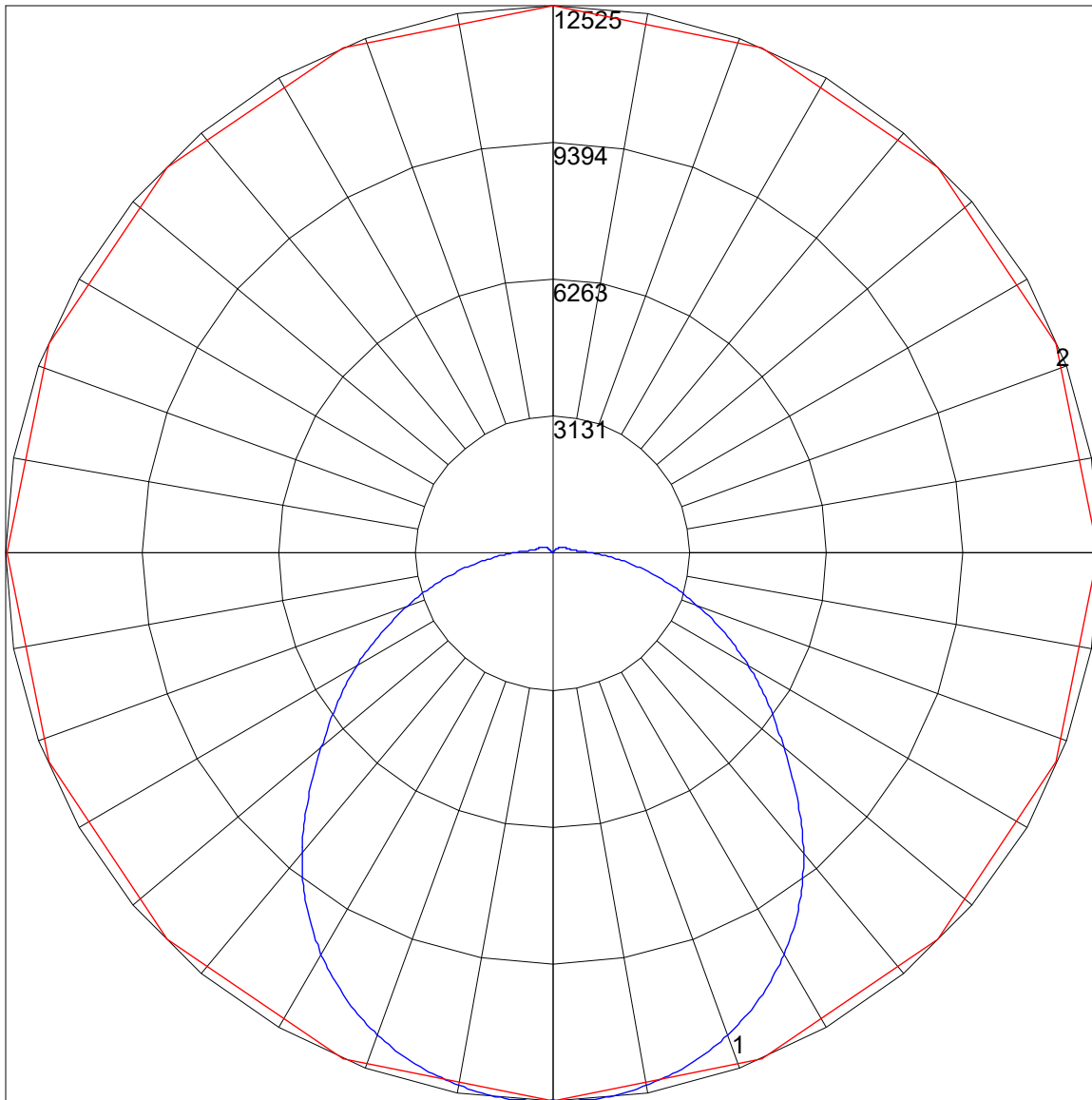
Reflectances

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	21.3	22.8	21.7	23.2	23.6	22.0	23.5	22.4	23.9	24.3
	3H	22.7	24.1	23.2	24.5	25.0	23.9	25.3	24.4	25.7	26.2
	4H	23.2	24.6	23.7	25.0	25.5	24.8	26.1	25.2	26.5	27.0
	6H	23.6	24.8	24.0	25.2	25.7	25.6	26.8	26.0	27.2	27.7
	8H	23.7	24.8	24.2	25.3	25.8	25.9	27.1	26.4	27.6	28.1
	12H	23.7	24.8	24.2	25.3	25.8	26.2	27.4	26.7	27.8	28.4
4H	2H	21.9	23.2	22.3	23.6	24.1	22.4	23.7	22.9	24.2	24.6
	3H	23.6	24.7	24.0	25.1	25.6	24.6	25.7	25.1	26.2	26.7
	4H	24.2	25.2	24.7	25.7	26.2	25.6	26.6	26.1	27.1	27.7
	6H	24.6	25.5	25.2	26.0	26.6	26.6	27.5	27.1	28.0	28.5
	8H	24.8	25.6	25.3	26.1	26.7	27.0	27.8	27.5	28.4	28.9
	12H	24.9	25.6	25.4	26.1	26.7	27.4	28.2	28.0	28.7	29.3
8H	4H	24.6	25.4	25.1	25.9	26.5	25.9	26.7	26.4	27.2	27.8
	6H	25.1	25.8	25.7	26.4	27.0	26.9	27.6	27.5	28.2	28.8
	8H	25.3	26.0	25.9	26.5	27.1	27.5	28.1	28.1	28.7	29.3
	12H	25.5	26.0	26.0	26.6	27.2	28.0	28.6	28.6	29.2	29.8
12H	4H	24.7	25.4	25.2	25.9	26.5	25.9	26.6	26.4	27.2	27.7
	6H	25.3	25.9	25.9	26.4	27.1	27.0	27.6	27.6	28.2	28.8
	8H	25.5	26.1	26.1	26.6	27.3	27.6	28.1	28.1	28.7	29.3

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 12525 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.)