



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV L G2 4 LW 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 LW 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] 336 white LEDs on four LS3872A10-4000K-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	20212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	12688	11457	11111
55	11175	9761	9774
65	9398	8114	8606
75	7479	6615	7418
85	4835	4984	6100

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2553.17	N.A.	12.60
0-30	5423.13	N.A.	26.80
0-40	8846.48	N.A.	43.80
0-60	15228.41	N.A.	75.30
0-80	18862.95	N.A.	93.30
0-90	19524.64	N.A.	96.60
10-90	18864.97	N.A.	93.30
20-40	6293.32	N.A.	31.10
20-50	9722.11	N.A.	48.10
40-70	8607.15	N.A.	42.60
60-80	3634.53	N.A.	18.00
70-80	1409.31	N.A.	7.00
80-90	661.70	N.A.	3.30
90-110	447.05	N.A.	2.20
90-120	567.37	N.A.	2.80
90-130	640.43	N.A.	3.20
90-150	686.89	N.A.	3.40
90-180	687.80	N.A.	3.40
110-180	240.74	N.A.	1.20
0-180	20212.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	659.67
10-20	1893.5
20-30	2869.96
30-40	3423.36
40-50	3428.8
50-60	2953.13
60-70	2225.22
70-80	1409.31
80-90	661.70
90-100	274.74
100-110	172.31
110-120	120.32
120-130	73.05
130-140	35.52
140-150	10.94
150-160	0.91
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

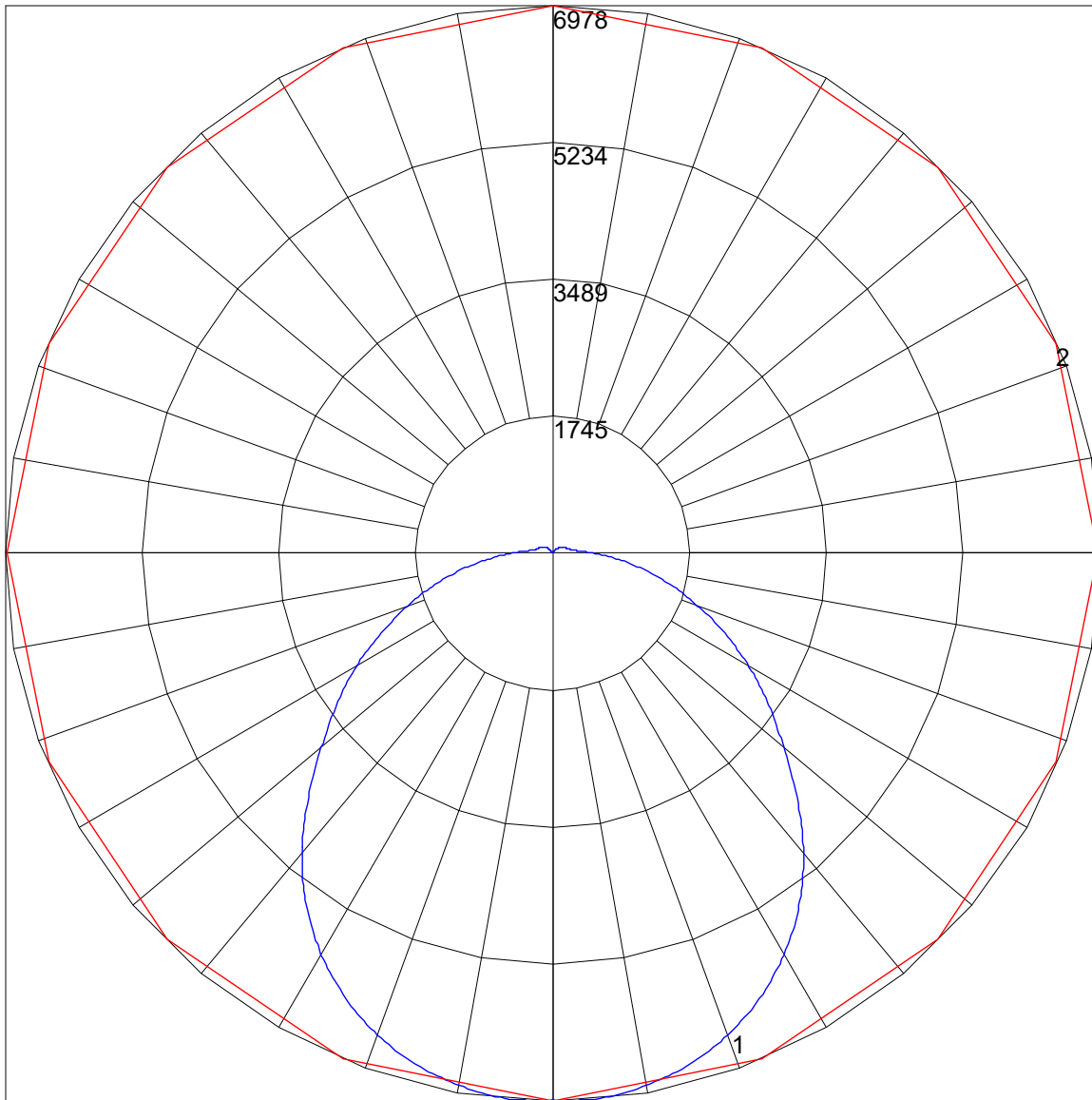
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UGR TABLE - CORRECTED

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 = 6978.411 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.)