



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 VL UV FA 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-014 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 22 VL UV FA 935

[LUMINAIRE] Retrofit kit installed in an A.L.P. EL-2x2-20-2 2x2 housing,

[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.

[LAMP] 48 white LEDs, one LS3872A7\_3500\_90R 3500K LED board

[BALLAST] One ULT D700C20UNVPW-C LED driver programmed at 400mA

[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	2847
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	21.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.84 ft
Luminous Width (90-270)	1.84 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2589	2837	3091
55	2375	2758	3173
65	2126	2725	3382
75	1798	2758	3813
85	1295	2328	2608

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	361.31	N.A.	12.70
0-30	761.34	N.A.	26.70
0-40	1236.97	N.A.	43.50
0-60	2175.81	N.A.	76.40
0-80	2777.97	N.A.	97.60
0-90	2846.85	N.A.	100.00
10-90	2752.87	N.A.	96.70
20-40	875.67	N.A.	30.80
20-50	1365.61	N.A.	48.00
40-70	1301.2	N.A.	45.70
60-80	602.16	N.A.	21.20
70-80	239.80	N.A.	8.40
80-90	68.88	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2846.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	93.99
10-20	267.32
20-30	400.03
30-40	475.64
40-50	489.95
50-60	448.89
60-70	362.36
70-80	239.80
80-90	68.88
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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**UGR TABLE - CORRECTED**

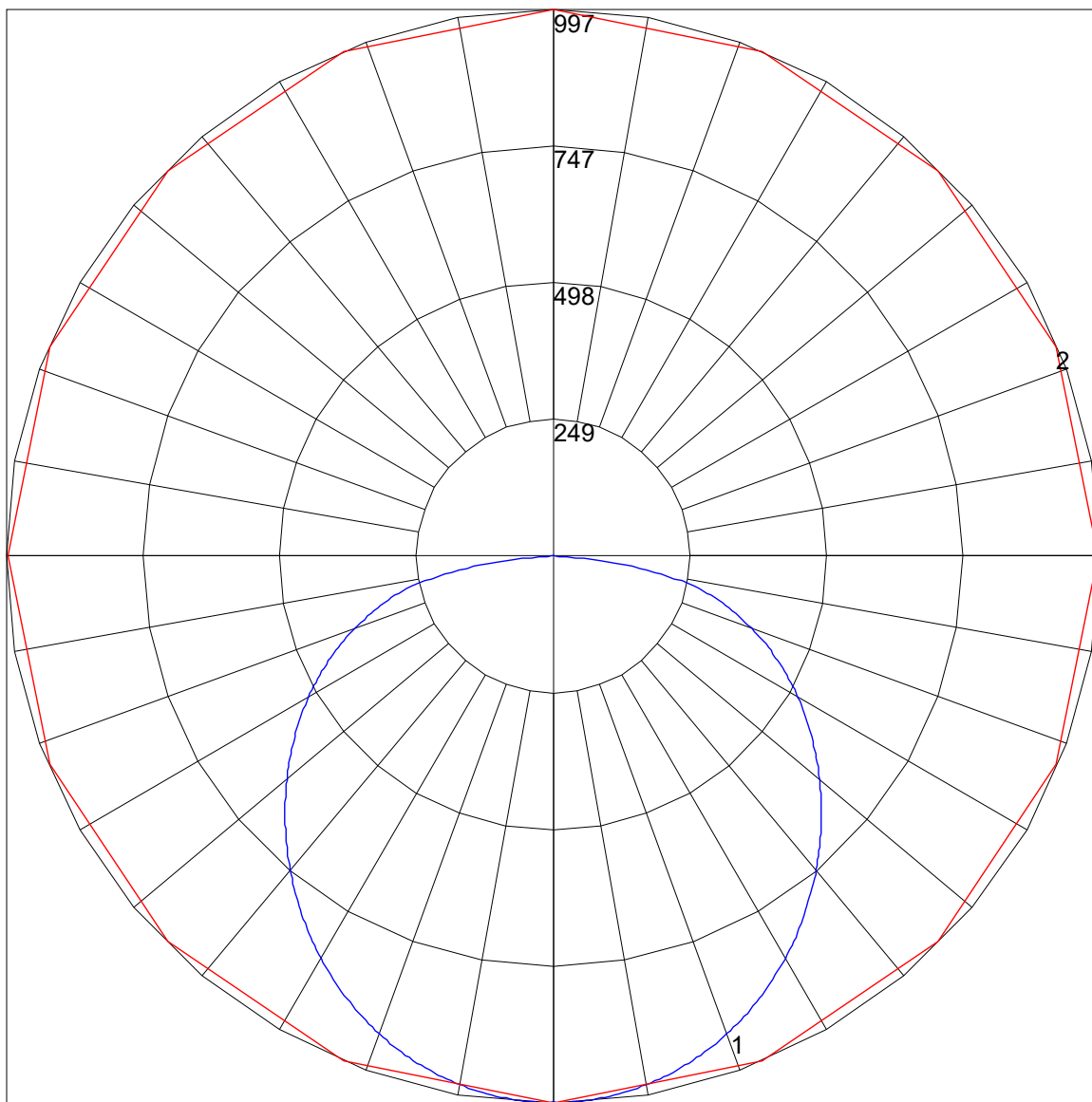
Reflectances

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	14.7	16.4	15.1	16.7	17.0	16.4	18.1	16.8	18.4	18.7
	3H	16.4	17.9	16.8	18.3	18.6	18.8	20.3	19.2	20.7	21.0
	4H	17.0	18.5	17.4	18.8	19.2	19.9	21.3	20.3	21.7	22.0
	6H	17.5	18.8	17.9	19.2	19.6	20.8	22.2	21.3	22.5	22.9
	8H	17.6	18.9	18.1	19.3	19.7	21.2	22.4	21.6	22.8	23.2
	12H	17.7	18.9	18.1	19.3	19.7	21.3	22.5	21.7	22.9	23.3
4H	2H	15.6	17.0	16.0	17.4	17.8	16.9	18.4	17.3	18.7	19.1
	3H	17.6	18.8	18.0	19.2	19.6	19.6	20.8	20.0	21.2	21.6
	4H	18.3	19.4	18.8	19.8	20.3	20.9	22.0	21.3	22.4	22.8
	6H	18.9	19.9	19.3	20.3	20.8	22.0	23.0	22.4	23.4	23.9
	8H	19.1	20.0	19.6	20.4	20.9	22.4	23.3	22.8	23.7	24.2
	12H	19.2	20.0	19.7	20.5	21.0	22.6	23.4	23.1	23.9	24.3
8H	4H	19.0	19.9	19.4	20.3	20.8	21.1	22.0	21.6	22.5	22.9
	6H	19.7	20.5	20.2	21.0	21.4	22.5	23.2	22.9	23.7	24.2
	8H	20.0	20.7	20.5	21.2	21.6	22.9	23.6	23.4	24.1	24.6
	12H	20.2	20.8	20.7	21.3	21.8	23.2	23.8	23.7	24.3	24.9
12H	4H	19.1	19.9	19.6	20.4	20.9	21.2	22.0	21.6	22.5	22.9
	6H	19.9	20.6	20.5	21.1	21.6	22.5	23.2	23.0	23.6	24.2
	8H	20.3	20.9	20.8	21.4	21.9	23.0	23.6	23.5	24.1	24.7

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 996.52 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.)