



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 LW UV FA 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-017 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 14 LW UV FA 935

[LUMINAIRE] Retrofit kit installed in an A.L.P. EF-1x4-2L-23GA 1x4 housing,

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

[LAMP] 96 white LEDs, two LS3873A7\_3500\_90R 3500K LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 540mA

[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	3916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	27.9
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)	3.75 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4663	5006	5321
55	4310	4781	5051
65	3886	4342	4472
75	3265	3545	3361
85	2151	1291	660

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	526.92	N.A.	13.50
0-30	1112.12	N.A.	28.40
0-40	1808.59	N.A.	46.20
0-60	3155.29	N.A.	80.60
0-80	3869.06	N.A.	98.80
0-90	3915.67	N.A.	100.00
10-90	3778.78	N.A.	96.50
20-40	1281.68	N.A.	32.70
20-50	1994.97	N.A.	50.90
40-70	1813.1	N.A.	46.30
60-80	713.77	N.A.	18.20
70-80	247.36	N.A.	6.30
80-90	46.62	N.A.	1.20
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	3915.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.89
10-20	390.02
20-30	585.20
30-40	696.48
40-50	713.29
50-60	633.40
60-70	466.41
70-80	247.36
80-90	46.62
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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

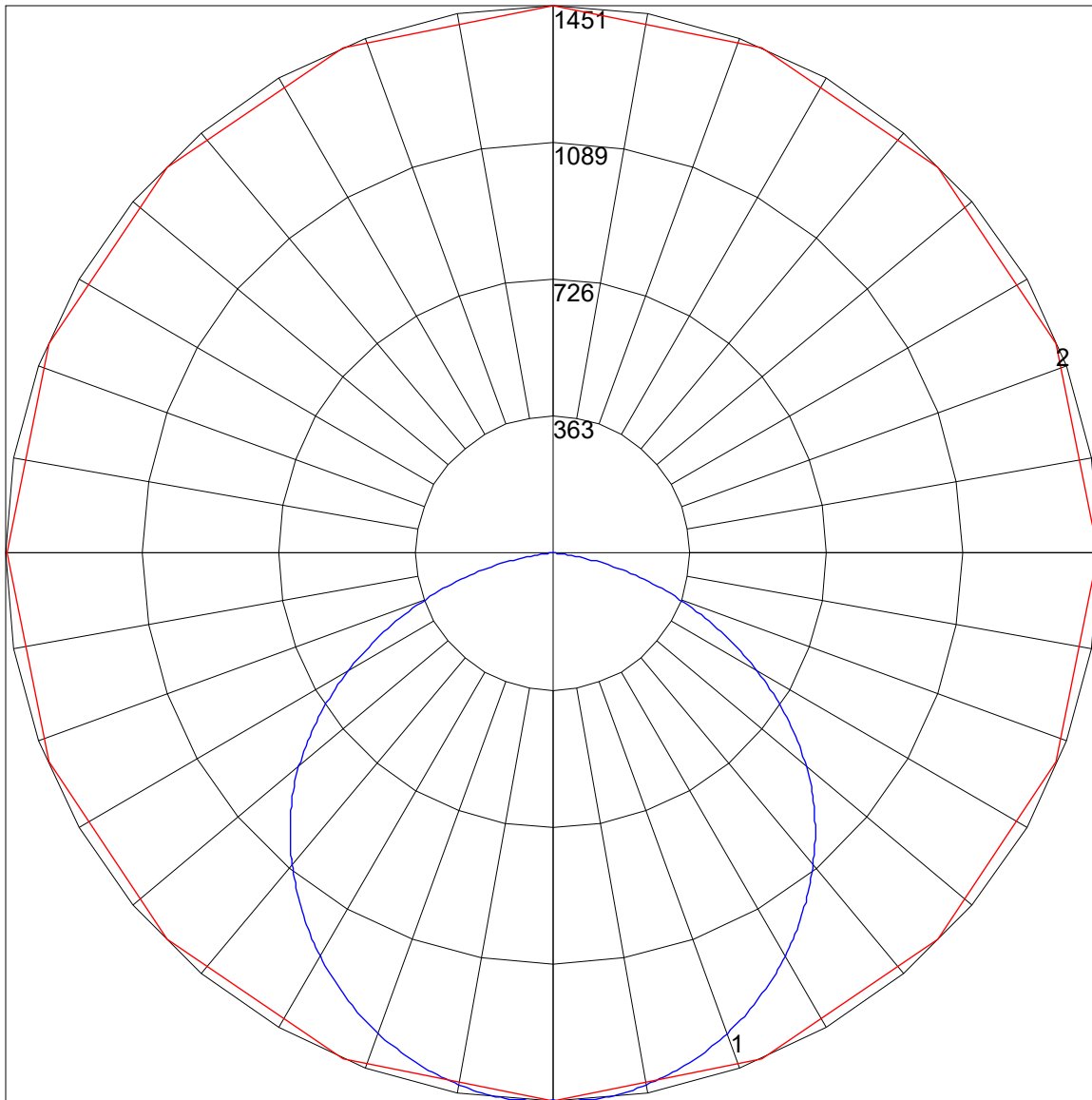
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**UGR TABLE - CORRECTED**

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	17.0	18.7	17.4	19.0	19.3	17.9	19.5	18.2	19.8	20.1
	3H	18.7	20.2	19.1	20.5	20.9	19.5	21.0	19.9	21.3	21.7
	4H	19.4	20.7	19.8	21.1	21.5	20.0	21.4	20.4	21.7	22.1
	6H	19.8	21.1	20.2	21.4	21.8	20.3	21.6	20.7	21.9	22.3
	8H	19.9	21.1	20.3	21.5	21.9	20.3	21.5	20.8	21.9	22.3
	12H	20.0	21.1	20.4	21.5	21.9	20.3	21.5	20.7	21.9	22.3
4H	2H	17.8	19.1	18.2	19.5	19.9	18.4	19.8	18.8	20.2	20.5
	3H	19.7	20.8	20.1	21.2	21.6	20.3	21.4	20.7	21.8	22.2
	4H	20.4	21.5	20.9	21.9	22.3	20.9	21.9	21.3	22.4	22.8
	6H	21.0	21.9	21.4	22.3	22.8	21.3	22.2	21.7	22.6	23.1
	8H	21.1	22.0	21.6	22.4	22.9	21.3	22.2	21.8	22.6	23.1
	12H	21.2	22.0	21.7	22.4	22.9	21.3	22.1	21.8	22.6	23.0
8H	4H	20.7	21.6	21.2	22.0	22.5	21.1	22.0	21.6	22.4	22.9
	6H	21.4	22.1	21.9	22.6	23.0	21.6	22.3	22.1	22.8	23.3
	8H	21.6	22.2	22.1	22.7	23.2	21.7	22.3	22.2	22.8	23.3
	12H	21.7	22.3	22.2	22.8	23.3	21.7	22.2	22.2	22.7	23.3
12H	4H	20.7	21.5	21.2	22.0	22.4	21.2	21.9	21.6	22.4	22.9
	6H	21.4	22.0	21.9	22.5	23.0	21.6	22.3	22.1	22.7	23.3
	8H	21.6	22.2	22.1	22.7	23.2	21.7	22.3	22.2	22.8	23.3

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1451.397 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)