



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 SEL15 UV FA 940 @230MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-014 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 22 SEL15 UV FA 940

[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.

[LAMPCAT] One LS3872A7\_4000\_90R 4000K 48 LED board

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 230mA

[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	1701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	11.9
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)	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	1547	1695	1847
55	1419	1648	1896
65	1271	1629	2021
75	1074	1648	2279
85	774	1391	1559

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	215.92	N.A.	12.70
0-30	454.99	N.A.	26.70
0-40	739.24	N.A.	43.50
0-60	1300.3	N.A.	76.40
0-80	1660.17	N.A.	97.60
0-90	1701.33	N.A.	100.00
10-90	1645.16	N.A.	96.70
20-40	523.31	N.A.	30.80
20-50	816.11	N.A.	48.00
40-70	777.62	N.A.	45.70
60-80	359.86	N.A.	21.20
70-80	143.31	N.A.	8.40
80-90	41.16	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	1701.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.17
10-20	159.76
20-30	239.06
30-40	284.25
40-50	292.80
50-60	268.27
60-70	216.55
70-80	143.31
80-90	41.16
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	38	30	26	37	30	25	36	30	25	24

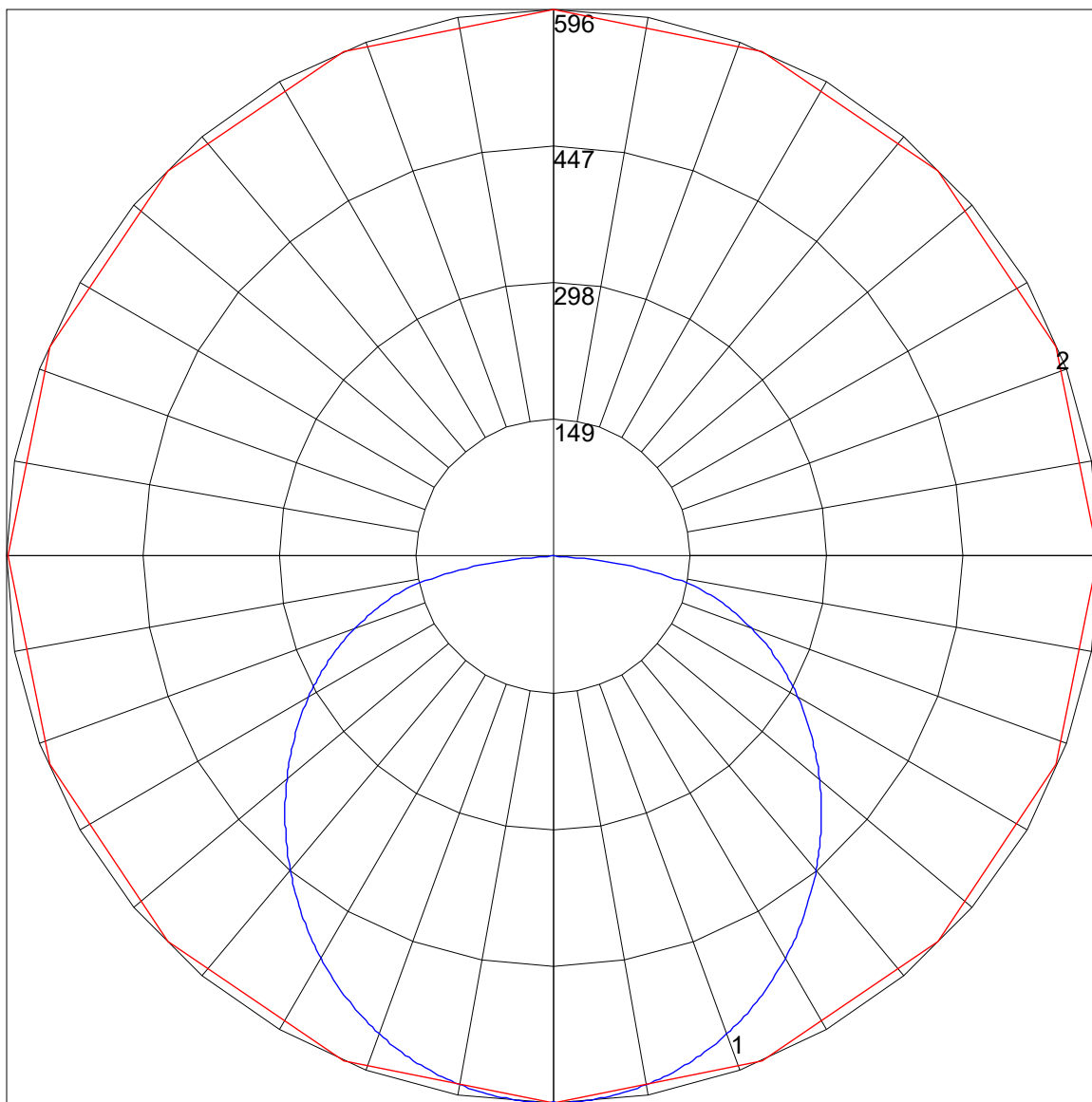
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**UGR TABLE - CORRECTED**

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	13.0	14.7	13.4	15.0	15.3	14.7	16.4	15.1	16.7	17.0
	3H	14.7	16.2	15.1	16.6	16.9	17.1	18.6	17.5	19.0	19.3
	4H	15.3	16.8	15.7	17.1	17.5	18.2	19.6	18.6	20.0	20.3
	6H	15.8	17.1	16.2	17.5	17.9	19.1	20.5	19.6	20.8	21.2
	8H	15.9	17.2	16.4	17.6	18.0	19.5	20.7	19.9	21.1	21.5
	12H	16.0	17.2	16.5	17.6	18.0	19.6	20.8	20.0	21.2	21.6
4H	2H	13.9	15.4	14.3	15.7	16.1	15.2	16.7	15.6	17.0	17.4
	3H	15.9	17.1	16.3	17.5	17.9	17.9	19.1	18.3	19.5	19.9
	4H	16.6	17.7	17.1	18.1	18.6	19.2	20.3	19.6	20.7	21.1
	6H	17.2	18.2	17.7	18.6	19.1	20.3	21.3	20.7	21.7	22.2
	8H	17.4	18.3	17.9	18.7	19.2	20.7	21.6	21.1	22.0	22.5
	12H	17.5	18.3	18.0	18.8	19.3	20.9	21.7	21.4	22.2	22.6
8H	4H	17.3	18.2	17.7	18.6	19.1	19.5	20.3	19.9	20.8	21.2
	6H	18.0	18.8	18.5	19.3	19.7	20.8	21.5	21.2	22.0	22.5
	8H	18.3	19.0	18.8	19.5	19.9	21.2	21.9	21.7	22.4	22.9
	12H	18.5	19.1	19.0	19.6	20.1	21.5	22.1	22.0	22.6	23.2
12H	4H	17.4	18.2	17.9	18.7	19.2	19.5	20.3	19.9	20.8	21.2
	6H	18.2	18.9	18.8	19.4	19.9	20.8	21.5	21.3	21.9	22.5
	8H	18.6	19.2	19.1	19.7	20.2	21.3	21.9	21.8	22.4	23.0

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 595.538 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.)