



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 SEL15 UV FA 930 @ 230MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-007A (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFR G2 24 SEL15 UV FA 930

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

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

[LAMP] Two LS3873A7\_3000\_90R 3000K 48 LED boards

[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	1671
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	11.7
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)	1.75 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	793	863	932
55	728	842	955
65	653	836	1013
75	548	858	1133
85	370	753	781

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	210.51	N.A.	12.60
0-30	444.30	N.A.	26.60
0-40	722.95	N.A.	43.30
0-60	1274.42	N.A.	76.30
0-80	1629.21	N.A.	97.50
0-90	1670.53	N.A.	100.00
10-90	1615.84	N.A.	96.70
20-40	512.44	N.A.	30.70
20-50	800.03	N.A.	47.90
40-70	764.80	N.A.	45.80
60-80	354.79	N.A.	21.20
70-80	141.46	N.A.	8.50
80-90	41.32	N.A.	2.50
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	1670.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	54.69
10-20	155.82
20-30	233.79
30-40	278.65
40-50	287.59
50-60	263.88
60-70	213.33
70-80	141.46
80-90	41.32
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	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

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**UGR TABLE - CORRECTED**

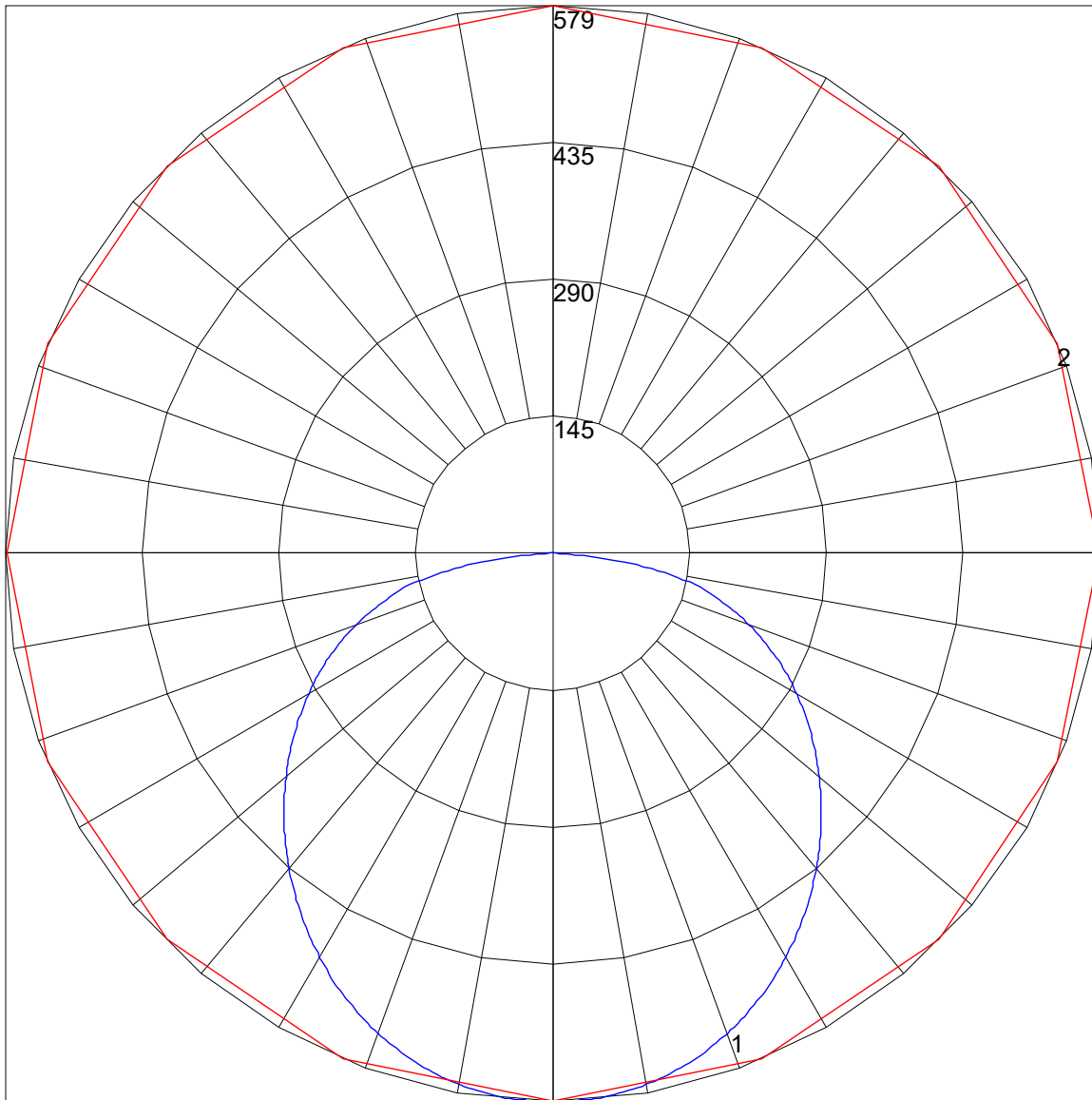
Reflectances

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	10.7	12.3	11.0	12.7	13.0	12.3	14.0	12.7	14.3	14.6
	3H	12.4	13.9	12.8	14.2	14.6	14.7	16.2	15.1	16.5	16.9
	4H	13.0	14.5	13.4	14.8	15.2	15.7	17.2	16.1	17.5	17.9
	6H	13.5	14.8	13.9	15.2	15.6	16.7	18.0	17.1	18.4	18.7
	8H	13.6	14.9	14.0	15.3	15.7	17.0	18.2	17.4	18.6	19.0
	12H	13.7	14.9	14.1	15.3	15.7	17.1	18.3	17.5	18.7	19.1
4H	2H	11.6	13.0	12.0	13.4	13.8	12.9	14.3	13.3	14.6	15.0
	3H	13.6	14.8	14.0	15.2	15.6	15.5	16.7	15.9	17.1	17.5
	4H	14.3	15.4	14.8	15.8	16.3	16.7	17.8	17.2	18.2	18.7
	6H	14.9	15.9	15.4	16.3	16.8	17.8	18.8	18.3	19.2	19.7
	8H	15.1	16.0	15.6	16.4	16.9	18.2	19.1	18.7	19.5	20.0
	12H	15.2	16.0	15.7	16.5	17.0	18.4	19.2	18.9	19.7	20.2
8H	4H	15.0	15.9	15.5	16.3	16.8	17.0	17.9	17.5	18.4	18.8
	6H	15.8	16.5	16.2	17.0	17.5	18.3	19.1	18.8	19.6	20.0
	8H	16.0	16.7	16.5	17.2	17.7	18.8	19.4	19.3	20.0	20.4
	12H	16.2	16.8	16.7	17.3	17.9	19.1	19.7	19.6	20.2	20.7
12H	4H	15.1	15.9	15.6	16.4	16.9	17.1	17.9	17.5	18.4	18.8
	6H	16.0	16.7	16.5	17.1	17.6	18.4	19.1	18.9	19.5	20.1
	8H	16.3	16.9	16.8	17.4	18.0	18.9	19.5	19.4	20.0	20.5

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 579.438 Located At Horizontal Angle = 90, Vertical Angle = 1.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)