



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 SEL15 UV FA 940 @300MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-017 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFR G2 14 SEL15 UV FA 940

[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.

[LAMPCAT] Two LS3873A7\_4000\_90R 4000K 48 LED boards

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 300mA

[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	2222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	15.3
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	2646	2840	3019
55	2446	2713	2866
65	2205	2464	2537
75	1852	2011	1907
85	1221	732	374

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	298.98	N.A.	13.50
0-30	631.03	N.A.	28.40
0-40	1026.22	N.A.	46.20
0-60	1790.36	N.A.	80.60
0-80	2195.36	N.A.	98.80
0-90	2221.81	N.A.	100.00
10-90	2144.14	N.A.	96.50
20-40	727.24	N.A.	32.70
20-50	1131.98	N.A.	50.90
40-70	1028.78	N.A.	46.30
60-80	405.00	N.A.	18.20
70-80	140.35	N.A.	6.30
80-90	26.45	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	2221.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	77.68
10-20	221.30
20-30	332.05
30-40	395.19
40-50	404.73
50-60	359.40
60-70	264.65
70-80	140.35
80-90	26.45
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**

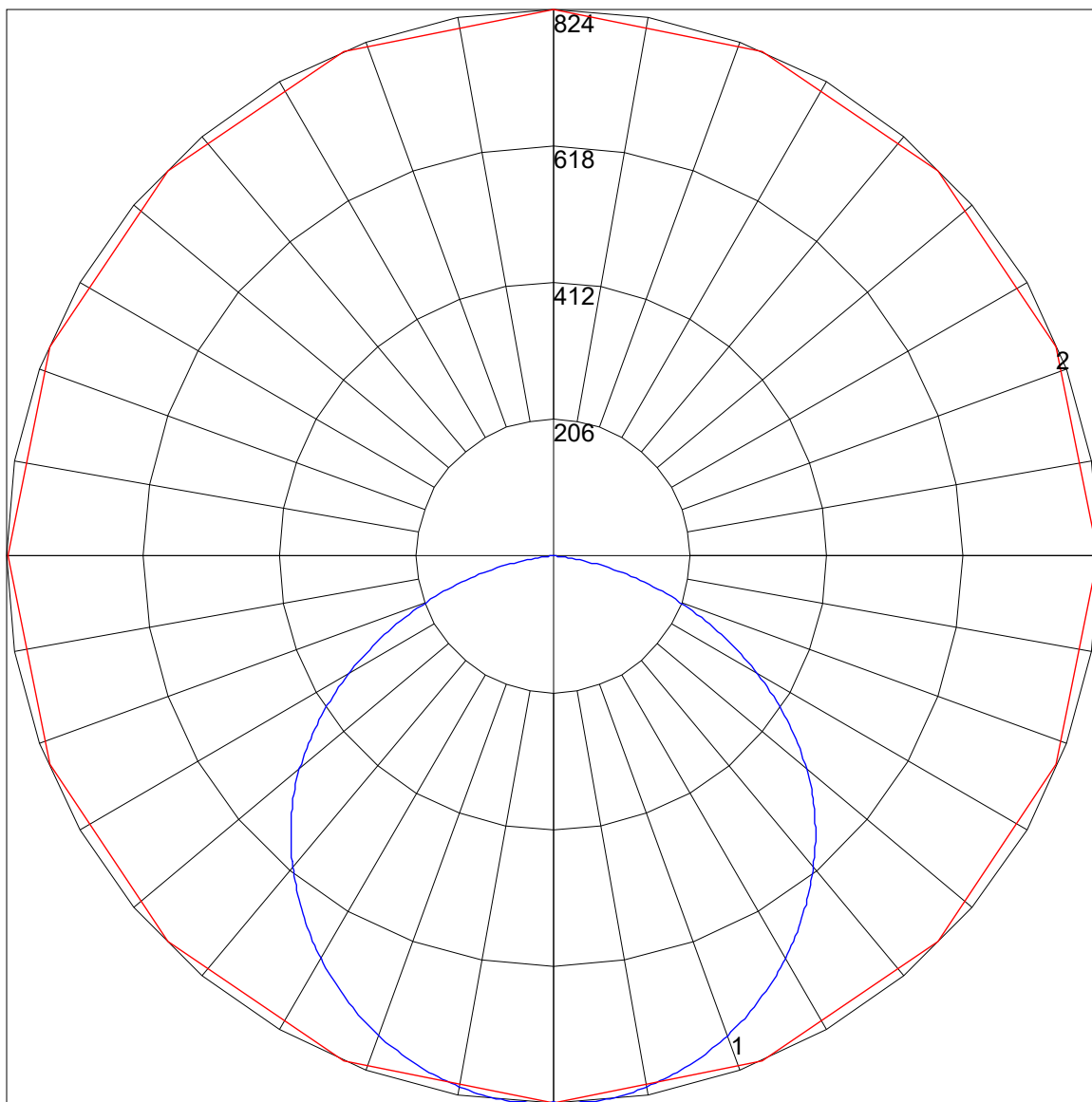
Reflectances

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	15.1	16.8	15.5	17.1	17.4	16.0	17.6	16.3	17.9	18.2
	3H	16.8	18.3	17.2	18.6	19.0	17.6	19.1	18.0	19.4	19.8
	4H	17.5	18.8	17.9	19.2	19.6	18.1	19.5	18.5	19.8	20.2
	6H	17.9	19.2	18.3	19.5	19.9	18.4	19.7	18.8	20.0	20.4
	8H	18.0	19.2	18.4	19.6	20.0	18.4	19.6	18.9	20.0	20.4
	12H	18.1	19.2	18.5	19.6	20.0	18.4	19.6	18.8	20.0	20.4
4H	2H	15.9	17.2	16.3	17.6	18.0	16.5	17.9	16.9	18.2	18.6
	3H	17.8	18.9	18.2	19.3	19.7	18.4	19.5	18.8	19.9	20.3
	4H	18.5	19.6	19.0	20.0	20.4	19.0	20.0	19.4	20.5	20.9
	6H	19.1	20.0	19.5	20.4	20.9	19.4	20.3	19.8	20.7	21.2
	8H	19.2	20.1	19.7	20.5	21.0	19.4	20.3	19.9	20.7	21.2
	12H	19.3	20.1	19.8	20.5	21.0	19.4	20.2	19.9	20.7	21.1
8H	4H	18.8	19.7	19.3	20.1	20.6	19.2	20.1	19.7	20.5	21.0
	6H	19.5	20.2	20.0	20.7	21.1	19.7	20.4	20.2	20.9	21.4
	8H	19.7	20.3	20.2	20.8	21.3	19.8	20.4	20.3	20.9	21.4
	12H	19.8	20.4	20.3	20.9	21.4	19.8	20.3	20.3	20.8	21.4
12H	4H	18.8	19.6	19.3	20.1	20.5	19.3	20.0	19.7	20.5	21.0
	6H	19.5	20.1	20.0	20.6	21.1	19.7	20.4	20.2	20.8	21.4
	8H	19.7	20.3	20.2	20.8	21.3	19.8	20.4	20.3	20.9	21.4

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 823.545 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.)