



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 SEL45 UV FA 935 @700MA.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 SEL45 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.

[LAMPCAT] Two LS3873A7\_3500\_90R 3500K 48 LED boards

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 700mA

[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	5041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	34.9
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	6004	6445	6850
55	5549	6155	6503
65	5003	5590	5757
75	4203	4564	4327
85	2770	1662	849

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	678.40	N.A.	13.50
0-30	1431.83	N.A.	28.40
0-40	2328.53	N.A.	46.20
0-60	4062.38	N.A.	80.60
0-80	4981.34	N.A.	98.80
0-90	5041.36	N.A.	100.00
10-90	4865.11	N.A.	96.50
20-40	1650.14	N.A.	32.70
20-50	2568.49	N.A.	50.90
40-70	2334.34	N.A.	46.30
60-80	918.96	N.A.	18.20
70-80	318.47	N.A.	6.30
80-90	60.02	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	5041.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	176.25
10-20	502.15
20-30	753.43
30-40	896.70
40-50	918.35
50-60	815.49
60-70	600.49
70-80	318.47
80-90	60.02
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	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	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

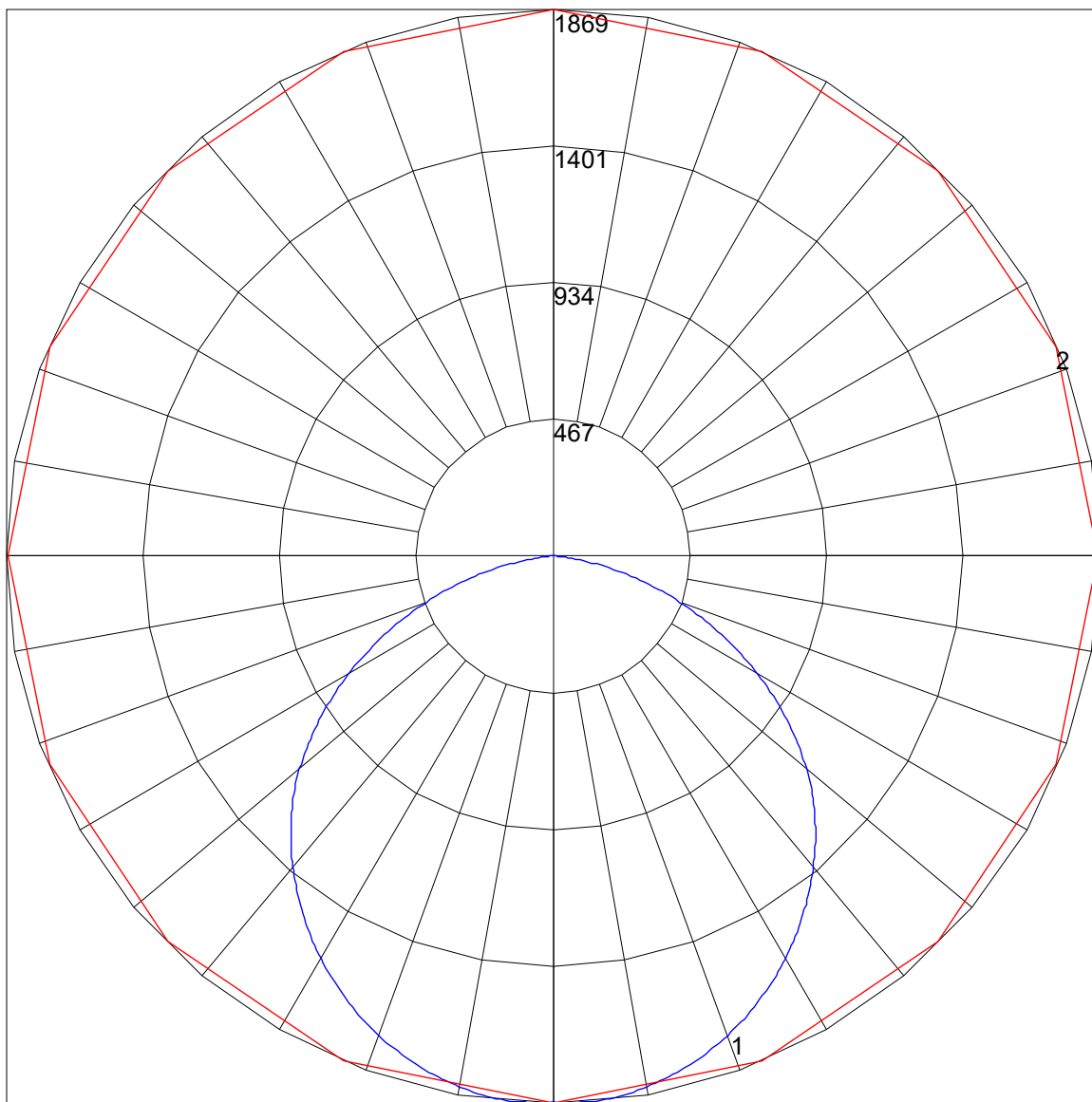
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**UGR TABLE - CORRECTED**

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	17.9	19.6	18.3	19.9	20.2	18.8	20.4	19.1	20.7	21.0
	3H	19.6	21.1	20.0	21.4	21.8	20.4	21.9	20.8	22.2	22.6
	4H	20.3	21.6	20.7	22.0	22.4	20.9	22.3	21.3	22.6	23.0
	6H	20.7	22.0	21.1	22.3	22.7	21.2	22.5	21.6	22.8	23.2
	8H	20.8	22.0	21.2	22.4	22.8	21.2	22.4	21.7	22.8	23.2
	12H	20.9	22.0	21.3	22.4	22.8	21.2	22.4	21.6	22.8	23.2
4H	2H	18.7	20.0	19.1	20.4	20.8	19.3	20.7	19.7	21.1	21.4
	3H	20.6	21.7	21.0	22.1	22.5	21.2	22.3	21.6	22.7	23.1
	4H	21.3	22.4	21.8	22.8	23.2	21.8	22.8	22.2	23.3	23.7
	6H	21.9	22.8	22.3	23.2	23.7	22.2	23.1	22.6	23.5	24.0
	8H	22.0	22.9	22.5	23.3	23.8	22.2	23.1	22.7	23.5	24.0
	12H	22.1	22.9	22.6	23.3	23.8	22.2	23.0	22.7	23.5	23.9
8H	4H	21.6	22.5	22.1	22.9	23.4	22.0	22.9	22.5	23.3	23.8
	6H	22.3	23.0	22.8	23.5	23.9	22.5	23.2	23.0	23.7	24.2
	8H	22.5	23.1	23.0	23.6	24.1	22.6	23.2	23.1	23.7	24.2
	12H	22.6	23.2	23.1	23.7	24.2	22.6	23.1	23.1	23.6	24.2
12H	4H	21.6	22.4	22.1	22.9	23.3	22.1	22.8	22.5	23.3	23.8
	6H	22.3	22.9	22.8	23.4	23.9	22.5	23.2	23.0	23.6	24.2
	8H	22.5	23.1	23.0	23.6	24.1	22.6	23.2	23.1	23.7	24.2

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1868.649 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.)