



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 SEL45 UV FA 930 @750MA.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 SEL45 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-45-UV-PS850-54-VDIM-LM1 LED driver set to 750mA

[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	5422
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	37.5
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	2574	2802	3025
55	2364	2734	3101
65	2118	2714	3289
75	1777	2785	3678
85	1200	2445	2536

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	683.25	N.A.	12.60
0-30	1442.06	N.A.	26.60
0-40	2346.48	N.A.	43.30
0-60	4136.39	N.A.	76.30
0-80	5287.93	N.A.	97.50
0-90	5422.03	N.A.	100.00
10-90	5244.51	N.A.	96.70
20-40	1663.23	N.A.	30.70
20-50	2596.65	N.A.	47.90
40-70	2482.31	N.A.	45.80
60-80	1151.54	N.A.	21.20
70-80	459.14	N.A.	8.50
80-90	134.10	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	5422.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	177.52
10-20	505.73
20-30	758.81
30-40	904.42
40-50	933.42
50-60	856.49
60-70	692.40
70-80	459.14
80-90	134.10
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	88	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	45	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**

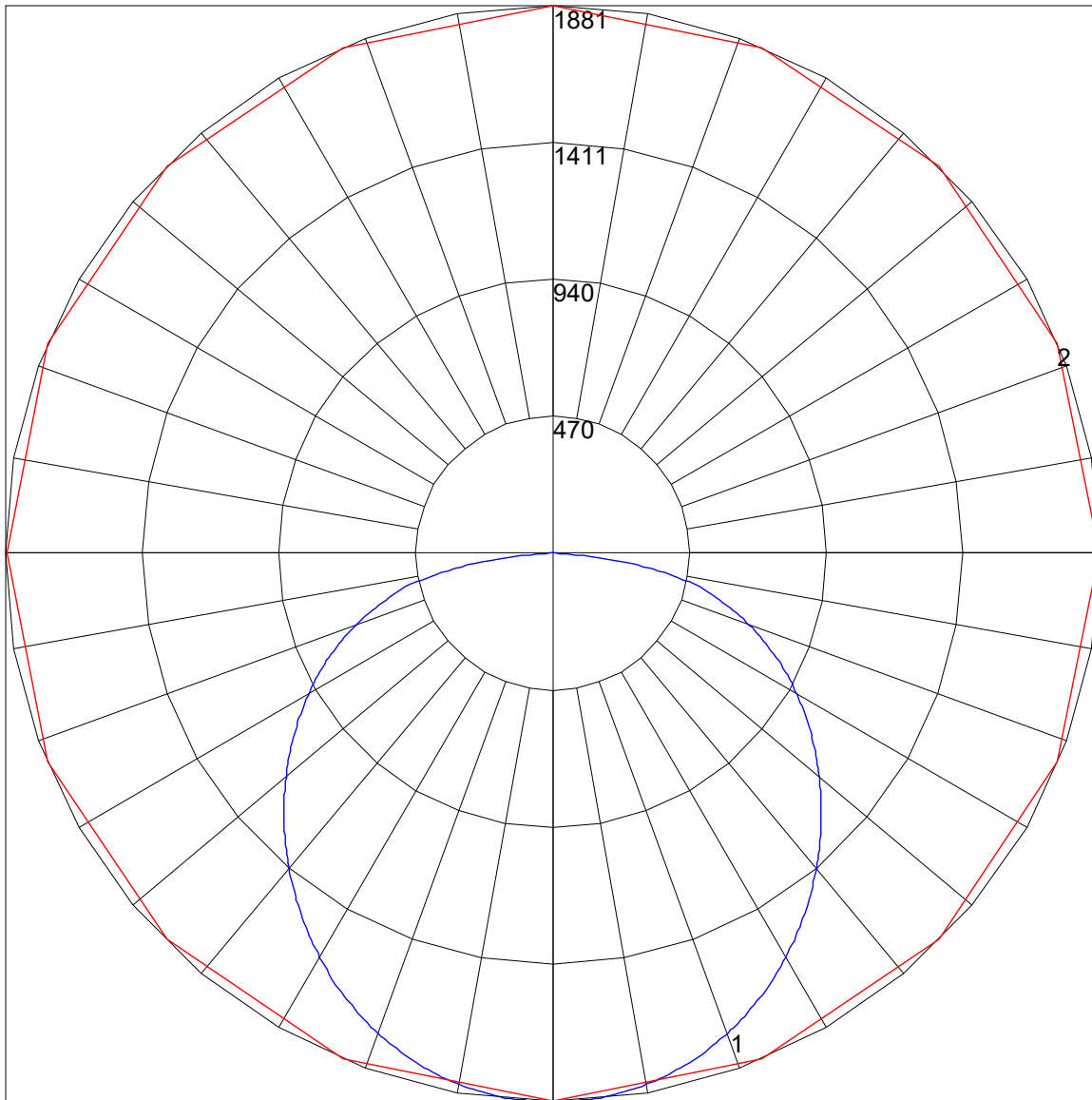
Reflectances

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	14.8	16.4	15.1	16.8	17.1	16.4	18.1	16.8	18.4	18.7
	3H	16.5	18.0	16.9	18.3	18.7	18.8	20.3	19.2	20.6	21.0
	4H	17.1	18.6	17.5	18.9	19.3	19.8	21.3	20.2	21.6	22.0
	6H	17.6	18.9	18.0	19.3	19.7	20.8	22.1	21.2	22.5	22.8
	8H	17.7	19.0	18.1	19.4	19.8	21.1	22.3	21.5	22.7	23.1
	12H	17.8	19.0	18.2	19.4	19.8	21.2	22.4	21.6	22.8	23.2
4H	2H	15.7	17.1	16.1	17.5	17.9	17.0	18.4	17.4	18.7	19.1
	3H	17.7	18.9	18.1	19.3	19.7	19.6	20.8	20.0	21.2	21.6
	4H	18.4	19.5	18.9	19.9	20.4	20.8	21.9	21.3	22.3	22.8
	6H	19.0	20.0	19.5	20.4	20.9	21.9	22.9	22.4	23.3	23.8
	8H	19.2	20.1	19.7	20.5	21.0	22.3	23.2	22.8	23.6	24.1
	12H	19.3	20.1	19.8	20.6	21.1	22.5	23.3	23.0	23.8	24.3
8H	4H	19.1	20.0	19.6	20.4	20.9	21.1	22.0	21.6	22.5	22.9
	6H	19.9	20.6	20.3	21.1	21.6	22.4	23.2	22.9	23.7	24.1
	8H	20.1	20.8	20.6	21.3	21.8	22.9	23.5	23.4	24.1	24.5
	12H	20.3	20.9	20.8	21.4	22.0	23.2	23.8	23.7	24.3	24.8
12H	4H	19.2	20.0	19.7	20.5	21.0	21.2	22.0	21.6	22.5	22.9
	6H	20.1	20.8	20.6	21.2	21.7	22.5	23.2	23.0	23.6	24.2
	8H	20.4	21.0	20.9	21.5	22.1	23.0	23.6	23.5	24.1	24.6

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 1880.679 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.)