



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 SEL45 UV FA 935 @750MA.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 SEL45 UV FA 935

[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 LS3872A8_3500_90R 3500K 64 LED board

[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	5109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	38.7
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)	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	4646	5091	5548
55	4262	4950	5694
65	3815	4891	6070
75	3226	4950	6844
85	2324	4178	4680

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	648.42	N.A.	12.70
0-30	1366.34	N.A.	26.70
0-40	2219.95	N.A.	43.50
0-60	3904.84	N.A.	76.40
0-80	4985.51	N.A.	97.60
0-90	5109.13	N.A.	100.00
10-90	4940.46	N.A.	96.70
20-40	1571.52	N.A.	30.80
20-50	2450.81	N.A.	48.00
40-70	2335.21	N.A.	45.70
60-80	1080.67	N.A.	21.20
70-80	430.35	N.A.	8.40
80-90	123.62	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	5109.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.67
10-20	479.75
20-30	717.92
30-40	853.61
40-50	879.29
50-60	805.61
60-70	650.32
70-80	430.35
80-90	123.62
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	37	30	26	37	30	25	36	30	25	24

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UGR TABLE - CORRECTED

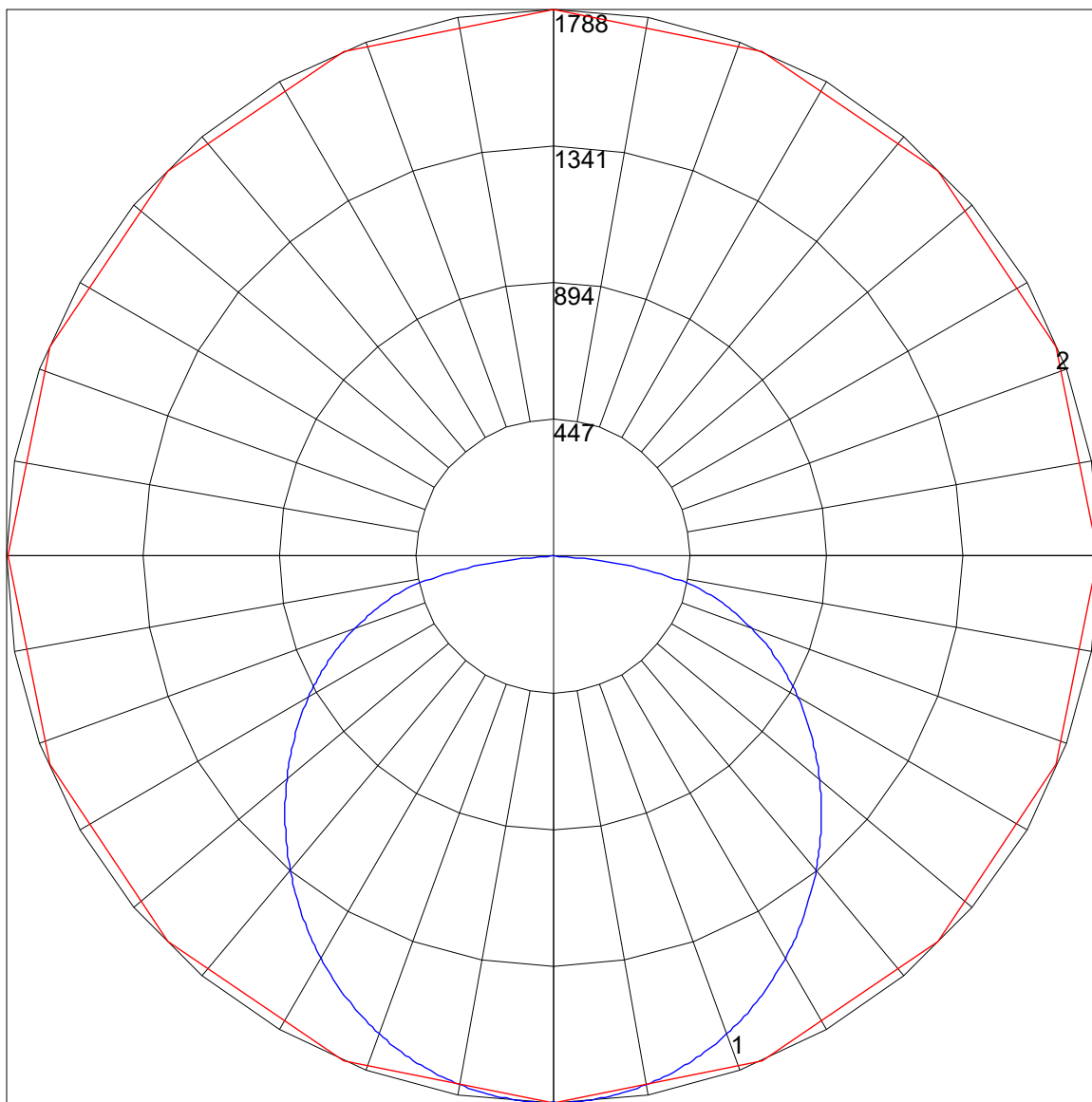
Reflectances

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	16.8	18.5	17.2	18.8	19.1	18.5	20.2	18.9	20.5	20.8
	3H	18.5	20.0	18.9	20.4	20.7	20.9	22.4	21.3	22.8	23.1
	4H	19.1	20.6	19.5	20.9	21.3	22.0	23.4	22.4	23.8	24.1
	6H	19.6	20.9	20.0	21.3	21.7	22.9	24.3	23.4	24.6	25.0
	8H	19.7	21.0	20.2	21.4	21.8	23.3	24.5	23.7	24.9	25.3
	12H	19.8	21.0	20.2	21.4	21.8	23.4	24.6	23.8	25.0	25.4
4H	2H	17.7	19.1	18.1	19.5	19.9	19.0	20.5	19.4	20.8	21.2
	3H	19.7	20.9	20.1	21.3	21.7	21.7	22.9	22.1	23.3	23.7
	4H	20.4	21.5	20.9	21.9	22.4	23.0	24.1	23.4	24.5	24.9
	6H	21.0	22.0	21.4	22.4	22.9	24.1	25.1	24.5	25.5	26.0
	8H	21.2	22.1	21.7	22.5	23.0	24.5	25.4	24.9	25.8	26.3
	12H	21.3	22.1	21.8	22.6	23.1	24.7	25.5	25.2	26.0	26.4
8H	4H	21.1	22.0	21.5	22.4	22.9	23.2	24.1	23.7	24.6	25.0
	6H	21.8	22.6	22.3	23.1	23.5	24.6	25.3	25.0	25.8	26.3
	8H	22.1	22.8	22.6	23.3	23.7	25.0	25.7	25.5	26.2	26.7
	12H	22.3	22.9	22.8	23.4	23.9	25.3	25.9	25.8	26.4	27.0
12H	4H	21.2	22.0	21.7	22.5	23.0	23.3	24.1	23.7	24.6	25.0
	6H	22.0	22.7	22.6	23.2	23.7	24.6	25.3	25.1	25.7	26.3
	8H	22.4	23.0	22.9	23.5	24.0	25.1	25.7	25.6	26.2	26.8

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1788.413 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.)