



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 SEL15 UV FA 940 @200MA.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 SEL15 UV FA 940

[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 LS3872A7\_4000\_90R 4000K 48 LED board

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 200mA

[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	1479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	10.3
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)	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	1345	1474	1606
55	1234	1433	1648
65	1104	1416	1757
75	934	1433	1981
85	673	1209	1355

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.69	N.A.	12.70
0-30	395.49	N.A.	26.70
0-40	642.57	N.A.	43.50
0-60	1130.27	N.A.	76.40
0-80	1443.07	N.A.	97.60
0-90	1478.85	N.A.	100.00
10-90	1430.03	N.A.	96.70
20-40	454.88	N.A.	30.80
20-50	709.39	N.A.	48.00
40-70	675.93	N.A.	45.70
60-80	312.80	N.A.	21.20
70-80	124.57	N.A.	8.40
80-90	35.78	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	1478.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.82
10-20	138.87
20-30	207.80
30-40	247.08
40-50	254.51
50-60	233.18
60-70	188.24
70-80	124.57
80-90	35.78
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	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	38	31	26	37	30	26	37	30	25	36	30	25	24

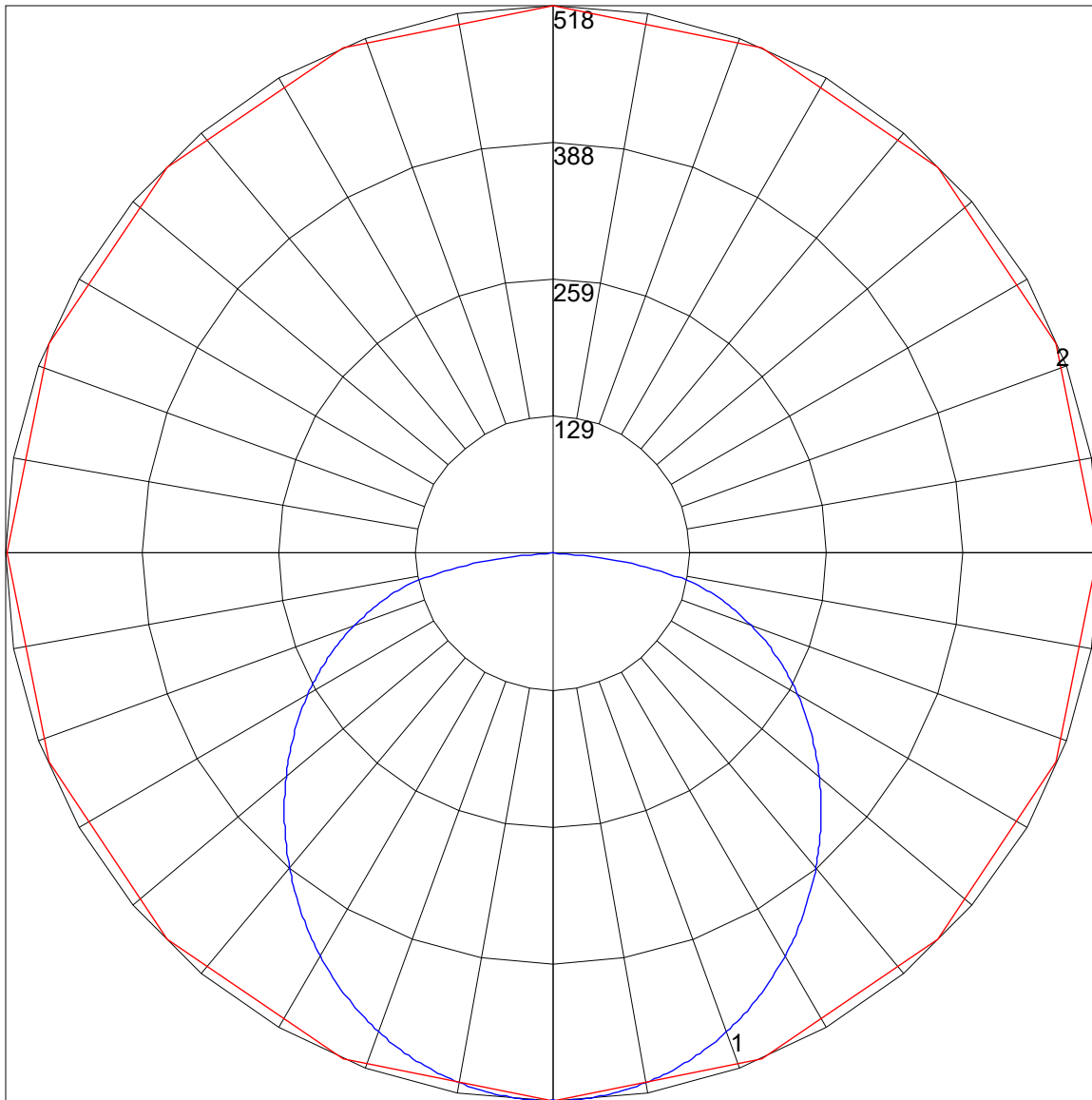
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**UGR TABLE - CORRECTED**

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	12.5	14.2	12.9	14.5	14.8	14.2	15.9	14.6	16.2	16.5
	3H	14.2	15.7	14.6	16.1	16.4	16.6	18.1	17.0	18.5	18.8
	4H	14.8	16.3	15.2	16.6	17.0	17.7	19.1	18.1	19.5	19.8
	6H	15.3	16.6	15.7	17.0	17.4	18.6	20.0	19.1	20.3	20.7
	8H	15.4	16.7	15.9	17.1	17.5	19.0	20.2	19.4	20.6	21.0
	12H	15.5	16.7	15.9	17.1	17.5	19.1	20.3	19.5	20.7	21.1
4H	2H	13.4	14.8	13.8	15.2	15.6	14.7	16.2	15.1	16.5	16.9
	3H	15.4	16.6	15.8	17.0	17.4	17.4	18.6	17.8	19.0	19.4
	4H	16.1	17.2	16.6	17.6	18.1	18.7	19.8	19.1	20.2	20.6
	6H	16.7	17.7	17.1	18.1	18.6	19.8	20.8	20.2	21.2	21.7
	8H	16.9	17.8	17.4	18.2	18.7	20.2	21.1	20.6	21.5	22.0
	12H	17.0	17.8	17.5	18.3	18.8	20.4	21.2	20.9	21.7	22.1
8H	4H	16.8	17.7	17.2	18.1	18.6	18.9	19.8	19.4	20.3	20.7
	6H	17.5	18.3	18.0	18.8	19.2	20.3	21.0	20.7	21.5	22.0
	8H	17.8	18.5	18.3	19.0	19.4	20.7	21.4	21.2	21.9	22.4
	12H	18.0	18.6	18.5	19.1	19.6	21.0	21.6	21.5	22.1	22.6
12H	4H	16.9	17.7	17.4	18.2	18.7	19.0	19.8	19.4	20.2	20.7
	6H	17.7	18.4	18.3	18.9	19.4	20.3	21.0	20.8	21.4	22.0
	8H	18.1	18.7	18.6	19.2	19.7	20.8	21.4	21.3	21.9	22.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 517.661 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.)